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# SURFACE OBSERVATION CLIMATIC SUMMARIES FOR SHAW AFB, SC

Prepared by

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28801-2723



OCTOBER 1989

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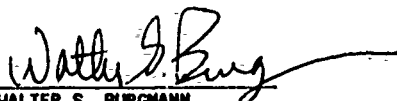
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12A. DISTRIBUTION/AVAILABILITY STATEMENT: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.

13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.

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## PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSMO (REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE OBSERVATION CLIMATIC SUMMARY). RUSSMOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SFCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSMO" AND THE "LISOCS." IT FINALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARIES" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.

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INTRODUCTION

STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: APR 79 - MAR 89 (AIRWAYS).

SUMMARY OF DAY DATA: JAN 42 - MAR 89 (FULL TIME).

HOURS SUMMARIZED: 0000 LST THROUGH 2300 LST.

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/ OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44-73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SNOWFALL AMOUNT GREATER THAN A TRACE.

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUMBER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

**PRECIPITATION:** A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER EQUIVALENT.

**STANDARD DEVIATION:** A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

**TIME CONVENTIONS:** ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE FOLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

|           |           |
|-----------|-----------|
| 0000-0200 | 1200-1400 |
| 0300-0500 | 1500-1700 |
| 0600-0800 | 1800-2000 |
| 0900-1100 | 2100-2300 |

**ABBREVIATIONS USED:**

|      |                          |        |                              |
|------|--------------------------|--------|------------------------------|
| AMT  | AMOUNT                   | LT     | LESS THAN                    |
| ANN  | ANNUAL                   | M      | METER                        |
| BARO | BAROMETER                | MB     | MILLIBAR                     |
| C    | CENTIGRADE (CELSIUS)     | MPS    | METERS PER SECOND            |
| DEG  | DEGREE                   | MSL    | MEAN SEA LEVEL               |
| DB   | DRY BULB TEMPERATURE     | MEAS   | MEASURABLE                   |
| DP   | DEW POINT TEMPERATURE    | NO.    | NUMBER                       |
| EQ   | EQUAL                    | OBS    | OBSERVATION                  |
| F    | FAHRENHEIT               | OBST   | OBSTRUCTION                  |
| FRZG | FREEZING                 | POF    | PERCENT OCCURRENCE FREQUENCY |
| FT   | FEET                     | PRECIP | PRECIPITATION                |
| GE   | GREATER THAN OR EQUAL TO | SD     | STANDARD DEVIATION           |
| GMT  | GREENWICH MEAN TIME      | SOD    | SUMMARY OF DAY               |
| GT   | GREATER THAN             | TEMP   | TEMPERATURE                  |
| HG   | INCHES OF MERCURY        | TSTM   | THUNDERSTORM                 |
| HT   | HEIGHT                   | VSBY   | VISIBILITY                   |
| KTS  | KNOTS                    | VSN    | VISION                       |
| LE   | LESS THAN OR EQUAL TO    | WB     | WET BULB TEMPERATURE         |
| LST  | LOCAL STANDARD TIME      | WBAN   | AWS FORM 10/10A              |
|      |                          | UTC    | *COORDINATED UNIVERSAL TIME  |

**SUMMARY DESCRIPTION:** A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

\* UTC REPLACED GMT ON 1 AUGUST 1988



| STATION NO.<br>ON SUMMARY | STATION NAME | LATITUDE | LONGITUDE | FLD ELEV (FT) | CALL SIGM | WMO NMBR |
|---------------------------|--------------|----------|-----------|---------------|-----------|----------|
| 747900                    | SHAW AFB, SC | N 33 58  | W 080 28  | 241           | SSC       | 74790    |

**STATION LOCATION AND INSTRUMENTATION HISTORY**

| Nbr of Loc | GEOGRAPHICAL LOCATION & NAME | Type of Station | At This Location |        | LATITUDE | LONGITUDE | Elev Above MSL |           | OBS PER DAY |
|------------|------------------------------|-----------------|------------------|--------|----------|-----------|----------------|-----------|-------------|
|            |                              |                 | From             | To     |          |           | FLD (FT)       | BARO (FT) |             |
| 1          | Sunter Field, SC             | AAF             | Dec 41           | May 48 | N 33 58  | W 080 29  | 236            | 250       | 24          |
| 2          | Shaw AFB, SC                 | AFB             | Jun 48           | Feb 55 | Same     | Same      | Same           | Same      | 24          |
| 3          | Same                         | Same            | Mar 55           | Mar 55 | Same     | Same      | 242            | Same      | 24          |
| 4          | Same                         | Same            | Apr 55           | Feb 57 | Same     | Same      | 253            | Same      | 24          |
| 5          | Same                         | Same            | Mar 57           | Jul 60 | Same     | Same      | 252            | Same      | 24          |
| 6          | Same                         | Same            | Aug 60           | Feb 63 | Same     | Same      | Same           | 291       | 24          |
| 7          | Same                         | Same            | Mar 63           | Jun 72 | Same     | Same      | Same           | 242       | 24          |
| 8          | Same                         | Same            | Jul 72           | Apr 73 | Same     | Same      | Same           | Same      | 18          |
| 9          | Same *                       | Same            | May 73           | Jan 74 | Same     | W 080 28  | 241            | 252       | 18          |
| 10         | Same                         | Same            | Feb 74           | Jan 88 | Same     | Same      | Same           | Same      | 24          |

\*Base wea stn relocation  
May 1973

| Nbr of Loc | Date of Change | SURFACE WIND EQUIPMENT INFORMATION     |                     |                  |                 | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|------------|----------------|--|---------------------|------------------|-----------------|---|
|            |                | LOCATION                               | TYPE OF TRANSMITTER | TYPE OF RECORDER | HT ABOVE GROUND |   |
| 1          | Dec 41         | Not available                          | Selsyn              | ML-144           | N/A             |   |
| 2          | Jun 48         | Atop weather station                   | Same                | Same             | 49 ft           |   |
| 3          | Apr 59         | 500' fm ctrln, 3000' fm TD rwy 04      | AN/GHQ-11           | RO-2             | 14 ft           |   |
| 4          | Mar 64         | 900' fm ctrln, 2700' fm end 04         | Same                | Same             | 13 ft           |   |
| 5          | Oct 70         | 1.500' SE ctrln, 582' fm end of rwy 04 | AN/GHQ-20           | RO-362           | 13 ft           |   |
|            |                | 2.500' SE ctrln, 859' fm end of rwy 22 | Same                |                  | 13 ft           |   |
| 6          | Jan 88         | 1. Same                                | Same                | Same             | Same            |   |
|            |                | 2. Same                                | Same                |                  | Same            |   |

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PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBINATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

**SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).**

THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

**THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.**

THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.

**SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.**

THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.

NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSN | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       |       | 14.2          | .2           | .8            |      | 15.2       | 21.6 | .5              |              |                | 37.3            | 930              |
| 03-05       |       | 15.9          | .6           | .5            |      | 17.1       | 25.1 | .4              |              |                | 42.6            | 930              |
| 06-08       | .3    | 15.3          | 1.3          | .3            |      | 16.9       | 29.7 | 3.8             |              |                | 50.3            | 930              |
| 09-11       | .1    | 13.9          | 1.2          | .5            |      | 15.6       | 27.7 | 11.6            |              |                | 54.9            | 930              |
| 12-14       |       | 12.7          | .3           | .6            |      | 13.7       | 20.1 | 6.8             |              |                | 40.5            | 930              |
| 15-17       |       | 10.5          |              | .6            |      | 11.2       | 18.9 | 6.2             |              |                | 36.3            | 930              |
| 18-20       |       | 11.1          |              | 1.2           |      | 12.3       | 17.4 | 2.8             |              |                | 32.5            | 930              |
| 21-23       |       | 10.1          | .2           | 1.1           |      | 11.4       | 17.1 | 1.0             |              |                | 29.5            | 930              |
| ALL HOURS   | .1    | 13.0          | .5           | .7            |      | 14.2       | 22.2 | 4.1             |              |                | 40.5            | 7440             |

MONTH: FEB

|           |    |      |    |     |  |      |      |      |    |    |      |      |
|-----------|----|------|----|-----|--|------|------|------|----|----|------|------|
| 00-02     | .2 | 12.5 | .5 | .7  |  | 13.7 | 18.6 | 1.1  | .4 |    | 33.7 | 849  |
| 03-05     |    | 11.3 |    | .8  |  | 12.1 | 21.8 | .8   | .1 |    | 34.9 | 849  |
| 06-08     | .2 | 14.4 | .4 | 1.2 |  | 15.9 | 32.3 | 3.8  |    |    | 51.9 | 849  |
| 09-11     | .4 | 12.8 | .6 | 1.5 |  | 15.0 | 24.1 | 11.8 |    |    | 50.9 | 849  |
| 12-14     | .2 | 11.9 | .1 | 1.2 |  | 13.2 | 14.0 | 6.5  |    |    | 33.7 | 849  |
| 15-17     |    | 9.5  | .1 | 1.1 |  | 10.7 | 12.4 | 3.5  |    | .1 | 26.7 | 849  |
| 18-20     | .1 | 10.7 | .4 | .7  |  | 11.8 | 14.8 | 2.9  |    |    | 29.6 | 849  |
| 21-23     | .2 | 12.8 | .6 | .6  |  | 14.0 | 15.8 | 1.1  | .2 |    | 31.1 | 849  |
| ALL HOURS | .2 | 12.0 | .3 | 1.0 |  | 13.3 | 19.2 | 3.9  | .1 | .0 | 36.6 | 6792 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSN | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       | .2    | 10.3          | .5           | .1            |      | 11.0       | 16.7 | 2.9             |              |                | 30.5            | 930              |
| 03-05       | 1.0   | 11.3          | .4           | .3            |      | 12.0       | 21.9 | 2.4             |              |                | 36.3            | 930              |
| 06-08       | 1.3   | 12.6          | .3           | .6            |      | 13.5       | 31.6 | 9.8             |              |                | 54.9            | 930              |
| 09-11       | .1    | 11.3          | .3           | .9            |      | 12.5       | 19.8 | 14.4            |              | .1             | 46.8            | 930              |
| 12-14       | .1    | 8.8           |              | .6            |      | 9.5        | 10.8 | 8.2             |              |                | 28.4            | 930              |
| 15-17       | .5    | 8.0           |              | .6            |      | 8.6        | 7.8  | 6.5             |              | .1             | 23.0            | 930              |
| 18-20       | .4    | 8.4           | .2           | .8            |      | 9.4        | 9.6  | 6.6             |              |                | 25.5            | 928              |
| 21-23       | .5    | 8.1           | .2           | .5            |      | 8.8        | 11.2 | 2.7             | .1           |                | 22.9            | 927              |
| ALL HOURS   | .5    | 9.8           | .3           | .6            |      | 10.7       | 16.2 | 6.7             | .0           | .0             | 33.6            | 7435             |

MONTH: APR

|           |     |     |  |  |  |     |      |      |  |    |      |      |
|-----------|-----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02     | 1.0 | 5.1 |  |  |  | 5.1 | 9.8  | .8   |  |    | 15.7 | 900  |
| 03-05     | .4  | 5.6 |  |  |  | 5.6 | 15.6 | .8   |  |    | 21.9 | 900  |
| 06-08     | .7  | 6.0 |  |  |  | 6.0 | 28.2 | 10.6 |  |    | 44.8 | 900  |
| 09-11     | .3  | 6.2 |  |  |  | 6.2 | 8.9  | 9.1  |  |    | 24.2 | 900  |
| 12-14     | .3  | 5.4 |  |  |  | 5.4 | 5.9  | 5.0  |  |    | 16.3 | 900  |
| 15-17     | 1.8 | 9.1 |  |  |  | 9.1 | 4.9  | 3.8  |  | .1 | 17.9 | 900  |
| 18-20     | 2.1 | 9.3 |  |  |  | 9.3 | 6.7  | 3.7  |  | .1 | 19.8 | 900  |
| 21-23     | .7  | 4.3 |  |  |  | 4.3 | 7.2  | .9   |  |    | 12.4 | 900  |
| ALL HOURS | .9  | 6.4 |  |  |  | 6.4 | 10.9 | 4.3  |  | .0 | 21.6 | 7200 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSM | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       | 1.1   | 3.5           |              |               |      | 3.5        | 10.6 | 1.7             |              |                | 15.9            | 930              |
| 03-05       | .1    | 3.8           |              |               |      | 3.8        | 24.6 | 3.8             |              |                | 32.2            | 930              |
| 06-08       | .4    | 3.7           |              |               |      | 3.7        | 41.8 | 19.2            |              |                | 64.7            | 930              |
| 09-11       | .3    | 3.5           |              |               |      | 3.5        | 7.8  | 16.9            |              |                | 28.3            | 930              |
| 12-14       | 2.0   | 5.4           |              |               |      | 5.4        | 3.1  | 8.5             |              |                | 17.0            | 930              |
| 15-17       | 4.6   | 7.6           |              |               |      | 7.6        | 2.6  | 7.7             |              | .1             | 18.1            | 930              |
| 18-20       | 4.5   | 7.4           |              |               |      | 7.4        | 4.2  | 7.0             |              |                | 18.6            | 930              |
| 21-23       | 3.3   | 7.2           |              |               |      | 7.2        | 5.9  | 2.6             |              |                | 15.7            | 930              |
| ALL HOURS   | 2.1   | 5.3           |              |               |      | 5.3        | 12.6 | 8.4             |              | .0             | 26.3            | 7440             |

MONTH: JUN

|           |     |     |  |  |  |     |      |      |  |    |      |      |
|-----------|-----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02     | 1.1 | 4.1 |  |  |  | 4.1 | 13.2 | 11.7 |  |    | 29.0 | 900  |
| 03-05     | .7  | 2.8 |  |  |  | 2.8 | 31.2 | 12.7 |  |    | 46.7 | 900  |
| 06-08     | .2  | 4.0 |  |  |  | 4.0 | 42.1 | 32.3 |  | .1 | 78.6 | 900  |
| 09-11     | .1  | 2.1 |  |  |  | 2.1 | 8.0  | 38.0 |  |    | 48.1 | 900  |
| 12-14     | 2.0 | 4.0 |  |  |  | 4.0 | 2.4  | 28.9 |  |    | 35.3 | 900  |
| 15-17     | 4.2 | 8.0 |  |  |  | 8.0 | 2.6  | 28.7 |  | .1 | 39.3 | 900  |
| 18-20     | 4.4 | 7.7 |  |  |  | 7.7 | 5.6  | 24.4 |  | .1 | 37.8 | 900  |
| 21-23     | 2.6 | 7.1 |  |  |  | 7.1 | 6.4  | 12.4 |  |    | 26.0 | 900  |
| ALL HOURS | 1.9 | 5.0 |  |  |  | 5.0 | 13.9 | 23.6 |  | .0 | 42.6 | 7200 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSN | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       | 1.6   | 4.9           |              |               |      | 4.9        | 15.1 | 17.8            |              |                | 37.8            | 930              |
| 03-05       | .8    | 3.5           |              |               |      | 3.5        | 31.9 | 21.0            |              |                | 56.5            | 930              |
| 06-08       | .4    | 3.1           |              |               |      | 3.1        | 47.3 | 38.5            |              |                | 88.9            | 930              |
| 09-11       | .3    | 3.2           |              |               |      | 3.2        | 8.6  | 44.6            |              |                | 56.5            | 930              |
| 12-14       | 3.5   | 4.8           |              |               |      | 4.8        | 2.3  | 39.2            |              |                | 46.3            | 930              |
| 15-17       | 9.5   | 8.3           |              |               |      | 8.3        | 2.5  | 38.4            |              |                | 49.1            | 930              |
| 18-20       | 7.7   | 9.9           |              |               |      | 9.9        | 5.3  | 33.5            |              |                | 48.7            | 930              |
| 21-23       | 5.3   | 8.7           |              |               |      | 8.7        | 9.2  | 21.6            |              |                | 39.6            | 930              |
| ALL HOURS   | 3.6   | 5.8           |              |               |      | 5.8        | 15.3 | 31.8            |              |                | 52.9            | 7440             |

MONTH: AUG

|           |     |     |  |  |  |     |      |      |  |    |      |      |
|-----------|-----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02     | .9  | 4.4 |  |  |  | 4.4 | 23.9 | 20.0 |  |    | 48.3 | 930  |
| 03-05     | .6  | 3.0 |  |  |  | 3.0 | 41.9 | 19.4 |  |    | 64.3 | 930  |
| 06-08     | 1.0 | 4.2 |  |  |  | 4.2 | 60.9 | 33.2 |  |    | 98.3 | 930  |
| 09-11     | .1  | 3.7 |  |  |  | 3.7 | 12.8 | 46.9 |  |    | 63.3 | 930  |
| 12-14     | 3.0 | 5.6 |  |  |  | 5.6 | 3.3  | 36.2 |  |    | 45.2 | 930  |
| 15-17     | 6.6 | 8.8 |  |  |  | 8.8 | 4.7  | 35.8 |  | .1 | 49.5 | 930  |
| 18-20     | 5.1 | 8.2 |  |  |  | 8.2 | 8.6  | 31.7 |  | .1 | 48.6 | 930  |
| 21-23     | 4.7 | 7.5 |  |  |  | 7.5 | 12.2 | 20.6 |  |    | 40.3 | 930  |
| ALL HOURS | 2.7 | 5.7 |  |  |  | 5.7 | 21.0 | 30.5 |  | .0 | 57.2 | 7440 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSN | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       | .7    | 7.0           |              |               |      | 7.0        | 22.6 | 6.1             |              |                | 35.7            | 900              |
| 03-05       | .1    | 7.4           |              |               |      | 7.4        | 35.3 | 6.2             |              |                | 49.0            | 900              |
| 06-08       | .1    | 9.1           |              |               |      | 9.1        | 57.8 | 20.0            |              |                | 86.9            | 900              |
| 09-11       | .1    | 8.2           |              |               |      | 8.2        | 19.2 | 31.4            |              |                | 58.9            | 900              |
| 12-14       | .3    | 7.7           |              |               |      | 7.7        | 6.3  | 21.0            |              |                | 35.0            | 900              |
| 15-17       | 2.4   | 8.9           |              |               |      | 8.9        | 6.3  | 17.3            |              |                | 32.6            | 900              |
| 18-20       | 2.4   | 9.3           |              |               |      | 9.3        | 8.6  | 13.4            |              |                | 31.3            | 900              |
| 21-23       | 1.1   | 7.6           |              |               |      | 7.6        | 11.6 | 8.6             |              |                | 27.7            | 900              |
| ALL HOURS   | .9    | 8.2           |              |               |      | 8.2        | 21.0 | 15.5            |              |                | 44.6            | 7200             |

MONTH: OCT

|           |     |     |  |  |  |     |      |      |  |    |      |      |
|-----------|-----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02     | .6  | 6.0 |  |  |  | 6.0 | 16.6 | 1.3  |  |    | 23.9 | 930  |
| 03-05     | .4  | 6.9 |  |  |  | 6.9 | 26.8 | 1.3  |  |    | 34.9 | 930  |
| 06-08     |     | 8.0 |  |  |  | 8.0 | 41.6 | 10.3 |  |    | 59.9 | 930  |
| 09-11     |     | 7.1 |  |  |  | 7.1 | 19.1 | 17.1 |  | .1 | 43.4 | 930  |
| 12-14     | .3  | 6.6 |  |  |  | 6.6 | 6.3  | 7.1  |  |    | 20.0 | 930  |
| 15-17     |     | 6.5 |  |  |  | 6.5 | 7.0  | 5.5  |  |    | 18.9 | 930  |
| 18-20     | 1.3 | 7.5 |  |  |  | 7.5 | 6.8  | 3.9  |  |    | 18.2 | 930  |
| 21-23     | .5  | 5.5 |  |  |  | 5.5 | 8.8  | 1.9  |  |    | 16.2 | 930  |
| ALL HOURS | .4  | 6.7 |  |  |  | 6.7 | 16.6 | 6.0  |  | .0 | 29.4 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

| HOURS (LST) | TSTMS | LIQUID PRECIP | FREEZ PRECIP | FROZEN PRECIP | HAIL | ALL PRECIP | FOG  | SMOKE &/OR HAZE | BLOWING SNOW | DUST &/OR SAND | ALL OBST TO VSN | TOTAL NO. OF OBS |
|-------------|-------|---------------|--------------|---------------|------|------------|------|-----------------|--------------|----------------|-----------------|------------------|
| 00-02       |       | 8.7           |              |               |      | 8.7        | 19.9 | 1.7             |              |                | 30.2            | 900              |
| 03-05       | .2    | 7.8           |              |               |      | 7.8        | 25.6 | 1.4             |              |                | 34.8            | 900              |
| 06-08       | .7    | 11.0          |              |               |      | 11.0       | 38.9 | 8.0             |              |                | 57.9            | 900              |
| 09-11       | .3    | 8.9           |              |               |      | 8.9        | 25.1 | 16.7            |              |                | 50.7            | 900              |
| 12-14       | .1    | 9.2           |              |               |      | 9.2        | 9.8  | 6.8             |              | .2             | 26.0            | 900              |
| 15-17       | .1    | 8.2           |              |               |      | 8.2        | 8.4  | 5.0             |              |                | 21.7            | 900              |
| 18-20       | .4    | 7.9           |              |               |      | 7.9        | 12.0 | 3.8             |              |                | 23.7            | 900              |
| 21-23       | .2    | 7.6           |              |               |      | 7.6        | 14.6 | 2.0             |              |                | 24.1            | 900              |
| ALL HOURS   | .3    | 8.7           |              |               |      | 8.7        | 19.3 | 5.7             |              | .0             | 33.6            | 7200             |

MONTH: DEC

|           |    |      |  |    |  |      |      |      |  |  |      |      |
|-----------|----|------|--|----|--|------|------|------|--|--|------|------|
| 00-02     | .1 | 9.8  |  | .3 |  | 10.1 | 16.2 | .2   |  |  | 26.6 | 930  |
| 03-05     |    | 10.9 |  | .3 |  | 11.2 | 21.7 | .3   |  |  | 33.2 | 930  |
| 06-08     |    | 10.3 |  | .6 |  | 11.0 | 29.1 | 3.5  |  |  | 43.7 | 930  |
| 09-11     | .1 | 11.6 |  | .3 |  | 11.9 | 24.5 | 11.7 |  |  | 48.2 | 930  |
| 12-14     |    | 9.7  |  | .2 |  | 9.9  | 13.3 | 4.2  |  |  | 27.4 | 930  |
| 15-17     |    | 9.4  |  | .1 |  | 9.5  | 10.4 | 2.6  |  |  | 22.5 | 930  |
| 18-20     |    | 9.2  |  | .1 |  | 9.4  | 11.7 | 1.5  |  |  | 22.6 | 930  |
| 21-23     | .2 | 10.1 |  | .1 |  | 10.2 | 12.4 | .6   |  |  | 23.2 | 930  |
| ALL HOURS | .1 | 10.1 |  | .3 |  | 10.4 | 17.4 | 3.1  |  |  | 30.9 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
HOURS: ALL

| MONTH  | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSM | TOTAL<br>NO. OF<br>OBS |
|--------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| JAN    | .1    | 13.0             | .5              | .7               |      | 14.2          | 22.2 | 4.1                   |                 |                      | 40.5                  | 7440                   |
| FEB    | .2    | 12.0             | .3              | 1.0              |      | 13.3          | 19.2 | 3.9                   | .1              | .0                   | 36.6                  | 6792                   |
| MAR    | .5    | 9.8              | .3              | .6               |      | 10.7          | 16.2 | 6.7                   | .0              | .0                   | 33.6                  | 7435                   |
| APR    | .9    | 6.4              |                 |                  |      | 6.4           | 10.9 | 4.3                   |                 | .0                   | 21.6                  | 7200                   |
| MAY    | 2.1   | 5.3              |                 |                  |      | 5.3           | 12.6 | 8.4                   |                 | .0                   | 26.3                  | 7440                   |
| JUN    | 1.9   | 5.0              |                 |                  |      | 5.0           | 13.9 | 23.6                  |                 | .0                   | 42.6                  | 7200                   |
| JUL    | 3.6   | 5.8              |                 |                  |      | 5.8           | 15.3 | 31.8                  |                 |                      | 52.9                  | 7440                   |
| AUG    | 2.7   | 5.7              |                 |                  |      | 5.7           | 21.0 | 30.5                  |                 | .0                   | 57.2                  | 7440                   |
| SEP    | .9    | 8.2              |                 |                  |      | 8.2           | 21.0 | 15.5                  |                 |                      | 44.6                  | 7200                   |
| OCT    | .4    | 6.7              |                 |                  |      | 6.7           | 16.6 | 6.0                   |                 | .0                   | 29.4                  | 7440                   |
| NOV    | .3    | 8.7              |                 |                  |      | 8.7           | 19.3 | 5.7                   |                 | .0                   | 33.6                  | 7200                   |
| DEC    | .1    | 10.1             |                 | .3               |      | 10.4          | 17.4 | 3.1                   |                 |                      | 30.9                  | 7440                   |
| ANNUAL | 1.1   | 8.0              | .1              | .2               |      | 8.3           | 17.1 | 12.0                  | .0              | .0                   | 37.5                  | 87667                  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4901-8903  
MONTH: ALL HOURS: ALL

| MONTH  | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|--------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| JAN    | 1.4   | 41.7             | 2.8             | 4.9              |      | 43.0          | 44.7 | 30.1                  |                 |                      | 61.9                  | 1271                   |
| FEB    | 4.0   | 41.2             | 1.2             | 4.2              | .3   | 42.5          | 43.3 | 31.7                  | .3              |                      | 61.7                  | 1158                   |
| MAR    | 7.7   | 42.9             | .7              | 1.6              | .5   | 43.0          | 45.1 | 32.2                  | .1              | .2                   | 62.9                  | 1271                   |
| APR    | 12.1  | 36.9             |                 | .1               | .5   | 36.9          | 41.4 | 26.2                  |                 |                      | 57.5                  | 1200                   |
| MAY    | 21.0  | 41.2             |                 |                  | .6   | 41.2          | 51.0 | 38.4                  |                 |                      | 69.4                  | 1240                   |
| JUN    | 27.0  | 43.8             |                 |                  | .5   | 43.8          | 56.0 | 47.5                  |                 | .1                   | 75.9                  | 1200                   |
| JUL    | 38.5  | 51.4             |                 |                  | .4   | 51.4          | 57.9 | 48.1                  |                 |                      | 82.9                  | 1240                   |
| AUG    | 28.9  | 45.0             |                 |                  | .4   | 45.0          | 68.7 | 57.9                  |                 |                      | 86.8                  | 1239                   |
| SEP    | 11.9  | 37.1             |                 |                  |      | 37.1          | 66.0 | 48.6                  |                 |                      | 79.1                  | 1199                   |
| OCT    | 3.8   | 29.3             |                 | .1               |      | 29.3          | 50.1 | 39.4                  |                 |                      | 63.0                  | 1240                   |
| NOV    | 2.7   | 33.7             |                 | .3               |      | 33.7          | 46.5 | 34.1                  |                 |                      | 60.8                  | 1200                   |
| DEC    | 1.5   | 37.7             | .7              | 2.3              |      | 38.5          | 42.8 | 27.9                  |                 |                      | 59.6                  | 1240                   |
| ANNUAL | 13.4  | 40.2             | .5              | 1.1              | .3   | 40.5          | 51.1 | 38.5                  | .0              | .0                   | 68.5                  | 14698                  |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89

| HOURS<br>(LST) | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00-02          |      | .2   | .2   | 1.0  | 1.1  | 1.1  | 1.6  | .7   | .7   | .6   |      | .1   |
| 03-05          |      |      | 1.0  | .4   | .1   | .7   | .8   | .6   | .1   | .4   | .2   |      |
| 06-08          | .3   | .2   | 1.3  | .7   | .4   | .2   | .4   | 1.0  | .1   |      | .7   |      |
| 09-11          | .1   | .4   | .1   | .3   | .3   | .1   | .3   | .1   | .1   |      | .3   | .1   |
| 12-14          |      | .2   | .1   | .3   | 2.0  | 2.0  | 3.5  | 3.0  | .3   | .3   | .1   |      |
| 15-17          |      |      | .5   | 1.8  | 4.6  | 4.2  | 9.5  | 6.6  | 2.4  |      | .1   |      |
| 18-20          |      | .1   | .4   | 2.1  | 4.5  | 4.4  | 7.7  | 5.1  | 2.4  | 1.3  | .4   |      |
| 21-23          |      | .2   | .5   | .7   | 3.3  | 2.6  | 5.3  | 4.7  | 1.1  | .5   | .2   | .2   |
| ALL<br>HOURS   | .1   | .2   | .5   | .9   | 2.1  | 1.9  | 3.6  | 2.7  | .9   | .4   | .3   | .1   |
| TOTAL<br>OBS   | 7440 | 6792 | 7435 | 7200 | 7440 | 7200 | 7440 | 7440 | 7200 | 7440 | 7200 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          | 50.0      | 25.0      |           | 25.0      |           | 4         |
| LIQUID<br>PRECIP             | 11.5 |          | 34.9      | 19.7      | 4.0       | 14.8      | 15.2      | 995       |
| FREEZING<br>PRECIP           | 11.1 |          | 36.1      | 47.2      |           |           | 5.6       | 36        |
| FROZEN<br>PRECIP             |      |          | 41.0      | 32.8      |           | 11.5      | 14.8      | 61        |
| FOG                          | 18.6 |          | 30.6      | 16.3      | 2.6       | 16.0      | 15.9      | 1636      |
| FOG WITH VIS<br>GE 1/2 MILES | 16.4 |          | 31.9      | 15.9      | 2.5       | 17.1      | 16.3      | 1494      |
| TOTAL OBS                    | 1518 | 0        | 1719      | 862       | 205       | 1626      | 1510      | 7440      |

MONTH: FEB HOURS: ALL

|                              |      |   |      |      |     |      |      |      |
|------------------------------|------|---|------|------|-----|------|------|------|
| TSTMS                        | 8.3  |   | 16.7 |      | 8.3 | 16.7 | 50.0 | 12   |
| LIQUID<br>PRECIP             | 6.5  |   | 32.3 | 27.0 | 8.2 | 15.8 | 10.1 | 814  |
| FREEZING<br>PRECIP           |      |   | 54.5 | 40.9 |     |      | 4.5  | 22   |
| FROZEN<br>PRECIP             | 8.7  |   | 15.9 | 5.8  | 1.4 | 15.9 | 52.2 | 69   |
| FOG                          | 16.5 |   | 27.0 | 21.9 | 5.4 | 15.8 | 13.4 | 1288 |
| FOG WITH VIS<br>GE 1/2 MILES | 14.2 |   | 27.9 | 22.1 | 5.3 | 16.2 | 14.4 | 1194 |
| TOTAL OBS                    | 1196 | 0 | 1364 | 988  | 404 | 1450 | 1390 | 6792 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 7.7  |          | 7.7       | 2.6       | 25.6      | 30.8      | 25.6      | 39        |
| LIQUID<br>PRECIP             | 4.2  |          | 28.5      | 26.4      | 11.6      | 14.5      | 14.8      | 716       |
| FREEZING<br>PRECIP           |      |          | 100.0     |           |           |           |           | 19        |
| FROZEN<br>PRECIP             |      |          | 68.8      | 6.3       |           |           | 25.0      | 48        |
| FOG                          | 18.5 |          | 26.0      | 19.1      | 9.6       | 15.3      | 11.5      | 1173      |
| FOG WITH VIS<br>GE 1/2 MILES | 16.8 |          | 27.0      | 19.0      | 10.0      | 15.5      | 11.8      | 1113      |
| TOTAL OBS                    | 1254 | 0        | 1272      | 920       | 649       | 1878      | 1462      | 7435      |

MONTH: APR HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 7.5  |          | 6.0       | 9.0       | 16.4      | 28.4      | 32.8      | 67        |
| LIQUID<br>PRECIP             | 4.5  |          | 14.6      | 18.4      | 21.0      | 26.7      | 14.8      | 419       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 20.2 |          | 11.3      | 20.6      | 19.7      | 19.0      | 9.2       | 772       |
| FOG WITH VIS<br>GE 1/2 MILES | 20.0 |          | 11.5      | 19.9      | 20.0      | 19.2      | 9.4       | 745       |
| TOTAL OBS                    | 1081 | 0        | 732       | 671       | 757       | 2160      | 1799      | 7200      |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
 VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAY HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 3.2  |          | 9.1       | 13.6      | 17.5      | 40.9      | 15.6      | 154       |
| LIQUID<br>PRECIP             | 5.5  |          | 16.0      | 19.8      | 14.0      | 34.5      | 10.2      | 293       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 27.4 |          | 11.2      | 18.5      | 9.8       | 25.5      | 7.6       | 920       |
| FOG WITH VIS<br>GE 1/2 MILES | 26.1 |          | 11.5      | 18.8      | 10.1      | 25.8      | 7.7       | 880       |
| TOTAL OBS                    | 1331 | 0        | 837       | 849       | 747       | 2544      | 1132      | 7440      |

MONTH: JUN HOURS: ALL

|                              |      |   |      |      |      |      |      |      |
|------------------------------|------|---|------|------|------|------|------|------|
| TSTMS                        | 4.3  |   | 8.7  | 16.7 | 17.4 | 33.3 | 19.6 | 138  |
| LIQUID<br>PRECIP             | 6.8  |   | 15.8 | 14.3 | 12.1 | 35.8 | 15.1 | 265  |
| FREEZING<br>PRECIP           |      |   |      |      |      |      |      |      |
| FROZEN<br>PRECIP             |      |   |      |      |      |      |      |      |
| FOG                          | 24.1 |   | 11.7 | 14.4 | 11.1 | 29.2 | 9.5  | 949  |
| FOG WITH VIS<br>GE 1/2 MILES | 24.0 |   | 11.9 | 14.4 | 10.6 | 29.6 | 9.6  | 926  |
| TOTAL OBS                    | 1254 | 0 | 741  | 963  | 781  | 2430 | 1031 | 7200 |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
 VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 9.2  |          | 9.6       | 9.2       | 19.6      | 34.3      | 18.1      | 271       |
| LIQUID<br>PRECIP             | 11.5 |          | 13.9      | 21.9      | 10.8      | 30.9      | 11.1      | 288       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 34.7 |          | 12.6      | 14.2      | 5.3       | 25.2      | 7.9       | 1071      |
| FOG WITH VIS<br>GE 1/2 MILES | 33.8 |          | 12.7      | 14.3      | 5.5       | 25.7      | 8.0       | 1040      |
| TOTAL OBS                    | 1543 | 0        | 629       | 895       | 737       | 2696      | 940       | 7440      |

MONTH: AUG HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 5.9  |          | 9.3       | 12.3      | 19.1      | 34.3      | 19.1      | 204       |
| LIQUID<br>PRECIP             | 11.1 |          | 25.7      | 21.8      | 10.7      | 23.5      | 7.2       | 307       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 34.0 |          | 14.9      | 17.6      | 6.2       | 20.7      | 6.6       | 1460      |
| FOG WITH VIS<br>GE 1/2 MILES | 32.9 |          | 15.3      | 17.5      | 6.2       | 21.1      | 6.9       | 1415      |
| TOTAL OBS                    | 1705 | 0        | 986       | 1175      | 657       | 2162      | 757       | 7440      |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 12.1 |          | 25.8      | 13.6      | 13.6      | 22.7      | 12.1      | 66        |
| LIQUID<br>PRECIP             | 7.8  |          | 32.7      | 33.1      | 7.6       | 11.8      | 6.9       | 550       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 28.9 |          | 23.8      | 25.1      | 4.3       | 12.9      | 5.0       | 1449      |
| FOG WITH VIS<br>GE 1/2 MILES | 27.6 |          | 24.5      | 25.1      | 4.4       | 13.2      | 5.2       | 1397      |
| TOTAL OBS                    | 1676 | 0        | 1658      | 1478      | 417       | 1257      | 714       | 7200      |

MONTH: OCT HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 10.0 |          | 10.0      | 16.7      | 13.3      | 43.3      | 6.7       | 30        |
| LIQUID<br>PRECIP             | 4.8  |          | 41.5      | 31.5      | 4.6       | 8.6       | 9.0       | 501       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 25.3 |          | 30.5      | 20.8      | 4.2       | 11.5      | 7.6       | 1208      |
| FOG WITH VIS<br>GE 1/2 MILES | 23.5 |          | 31.7      | 20.6      | 4.3       | 11.9      | 8.0       | 1129      |
| TOTAL OBS                    | 1920 | 0        | 1893      | 1226      | 321       | 1160      | 920       | 7440      |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 21.1 |          | 10.5      | 5.3       | 31.6      | 26.3      | 5.3       | 19        |
| LIQUID<br>PRECIP             | 9.4  |          | 31.8      | 22.4      | 9.4       | 13.0      | 14.1      | 617       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 23.5 |          | 21.7      | 17.4      | 8.0       | 14.5      | 14.9      | 1366      |
| FOG WITH VIS<br>GE 1/2 MILES | 21.2 |          | 22.4      | 17.7      | 8.0       | 14.8      | 15.9      | 1261      |
| TOTAL OBS                    | 1854 | 0        | 1500      | 968       | 417       | 1285      | 1176      | 7200      |

MONTH: DEC HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 360 - 049 | 050 - 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 25.0 |          |           |           |           | 50.0      | 25.0      | 4         |
| LIQUID<br>PRECIP             | 13.9 |          | 30.4      | 20.8      | 4.8       | 18.7      | 11.3      | 749       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             | 8.7  |          | 69.6      | 21.7      |           |           |           | 23        |
| FOG                          | 30.9 |          | 17.6      | 14.8      | 5.5       | 17.3      | 14.0      | 1275      |
| FOG WITH VIS<br>GE 1/2 MILES | 27.9 |          | 19.2      | 14.5      | 5.7       | 18.0      | 14.8      | 1132      |
| TOTAL OBS                    | 1899 | 0        | 1551      | 690       | 248       | 1637      | 1415      | 7440      |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTHS: ALL

| PHENOMENA                    | CALM  | VARIABLE | 360   | 049 | 050   | 109 | 110 - 179 | 180 - 269 | 270 - 359 | NO OF OBS |
|------------------------------|-------|----------|-------|-----|-------|-----|-----------|-----------|-----------|-----------|
| TSTMS                        | 7.2   |          | 10.3  |     | 11.6  |     | 18.3      | 33.8      | 18.8      | 1008      |
| LIQUID<br>PRECIP             | 8.4   |          | 29.1  |     | 23.7  |     | 8.8       | 18.1      | 12.0      | 6514      |
| FREEZING<br>PRECIP           | 5.2   |          | 57.1  |     | 33.8  |     |           |           | 3.9       | 77        |
| FROZEN<br>PRECIP             | 4.0   |          | 42.3  |     | 15.9  |     | .5        | 9.0       | 28.4      | 201       |
| FOG                          | 25.3  |          | 20.9  |     | 18.5  |     | 6.9       | 18.0      | 10.5      | 14567     |
| FOG WITH VIS<br>GE 1/2 MILES | 23.7  |          | 21.5  |     | 18.4  |     | 7.0       | 18.5      | 10.8      | 13726     |
| TOTAL OBS                    | 18231 | 0        | 14892 |     | 11683 |     | 6340      | 22285     | 14246     | 87667     |

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PART B

PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH NO AMOUNTS, PERCENT OF DAYS WITH TRACES, AND PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOWFALL RESPECTIVELY. THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. INCOMPLETE MONTHS/YEARS ARE NOT INCLUDED IN STATISTICAL COMPUTATIONS. NOTE: LEAST AMOUNTS ARE DERIVED FROM COMPLETE MONTHS/YEARS ONLY. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH.

DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEAR-MONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (\*) INDICATES A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH, AND ".0" MEANS NO SNOW DEPTH FOR THE MONTH.

SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE YEAR. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST) MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A (OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT. THIS SUMMARY IS NOT PROVIDED WHEN NO SNOWFALL OCCURS DURING THE GIVEN POR.

NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.

NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN FIVE (5) OR MORE SETS OF COMPLETE MONTHS ARE AVAILABLE.

NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.

NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.

NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HAIL.

NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

| AIR FORCE             |          | NAVY AND NATIONAL WEATHER SERVICE |          |
|-----------------------|----------|-----------------------------------|----------|
| THROUGH 1945:         | 0800 LST | THROUGH JUN 1952:                 | 0030 GMT |
| JAN 1946 TO MAY 1957: | 1230 LST | JUN 1952 TO MAY 1957:             | 1230 GMT |
| JUN 1957 TO PRESENT:  | 1200 GMT | JUN 1957 TO PRESENT:              | 1200 GMT |

CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS

- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| ANN                          |      |      |      |      |      |      |      |      |      |      |      |      |
| NONE                         | 56.5 | 56.7 | 56.7 | 62.6 | 58.1 | 55.5 | 46.6 | 53.3 | 62.1 | 71.2 | 64.9 | 60.2 |
| TRACE                        | 11.5 | 10.8 | 10.3 | 11.1 | 12.6 | 13.5 | 14.5 | 13.7 | 12.3 | 9.8  | 11.8 | 11.0 |
| .01                          | 2.4  | 2.0  | 2.3  | 1.8  | 1.9  | 1.8  | 2.1  | 1.8  | 2.4  | 1.9  | 2.0  | 2.0  |
| .02-.05                      | 6.4  | 5.7  | 4.4  | 4.5  | 5.4  | 4.1  | 6.7  | 5.1  | 4.8  | 3.4  | 3.8  | 5.6  |
| .06-.10                      | 3.9  | 3.5  | 3.4  | 2.7  | 3.5  | 3.9  | 3.5  | 3.4  | 2.7  | 2.5  | 2.9  | 3.0  |
| .11-.25                      | 6.4  | 6.6  | 7.4  | 5.0  | 6.0  | 5.3  | 7.8  | 6.3  | 4.5  | 3.5  | 4.3  | 5.0  |
| .26-.50                      | 5.5  | 6.0  | 6.6  | 4.5  | 4.9  | 5.7  | 6.5  | 6.2  | 4.0  | 2.5  | 5.0  | 5.6  |
| .51-1.00                     | 5.0  | 5.2  | 5.2  | 5.1  | 5.0  | 5.8  | 7.2  | 5.6  | 3.5  | 2.7  | 2.7  | 5.3  |
| 1.01-2.50                    | 2.5  | 3.3  | 3.3  | 2.4  | 2.3  | 3.5  | 4.3  | 4.0  | 3.0  | 2.0  | 2.5  | 2.2  |
| 2.51-5.00                    | .1   | .1   | .3   | .2   | .4   | .6   | .4   | .5   | .6   | .4   | .1   | .1   |
| 5.01-10.00                   |      |      | .1   |      |      | .2   |      |      | .1   |      |      |      |
| 10.01-20.00                  |      |      |      |      |      |      |      |      |      |      |      |      |
| OVER 20.00                   |      |      |      |      |      |      |      |      |      |      |      |      |
| DAYS WITH<br>MEAS AMTS       | 32.1 | 32.5 | 33.0 | 26.3 | 29.4 | 31.0 | 38.9 | 33.0 | 25.6 | 19.0 | 23.3 | 28.8 |
| TOTAL NO. OF<br>OBSERVATIONS | 1488 | 1356 | 1453 | 1410 | 1457 | 1410 | 1456 | 1457 | 1410 | 1457 | 1410 | 1457 |



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN  | FEB  | MAR   | APR   | MAY  | JUN   | JUL   | AUG   | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|------|------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|--------|
| 42   | 2.96 | 2.88 | 6.64* | 2.70  | 7.54 | 4.61  | 9.35  | 5.53  | 1.72  | .57  | .99  | 2.97 | 48.46* |
| 43   | 3.70 | 1.23 | 5.60  | 4.58  | 1.80 | 5.49  | 8.42  | 4.88  | 3.63  | .08  | 2.26 | 4.90 | 46.57  |
| 44   | 3.42 | 4.02 |       | 6.49  | .93  | 1.17  | 5.67  | 2.33  | 3.29  | 3.49 | 1.62 | 1.07 | 33.50* |
| 45   | 2.11 | 2.48 | 1.71  | 2.18  | 2.23 | 3.25  | 3.87  | 4.94  | 14.84 | 2.00 | 1.00 | 7.38 | 47.99  |
| 46   | 1.56 | 2.92 | 2.57  | 2.48  | 3.34 | 1.15  | 5.74  | 8.60  | .84   | 4.63 | 2.59 | .90  | 37.32  |
| 47   | 3.29 | .32  | 5.14  | 6.58  | 1.82 | 5.13  | 3.30  | 3.93  | 3.14  | 3.58 | 7.84 | 4.23 | 48.30  |
| 48   | 3.37 | 4.74 | 6.04  | 1.25  | 3.46 | 3.97  | 3.08  | 4.79  | 5.76  | 5.21 | 7.55 | 3.78 | 53.00  |
| 49   | .72  | 6.35 | 1.25  | 5.58  | 4.99 | 3.60  | 1.85  | 10.25 | 3.67  | 3.45 | 2.19 | 1.33 | 45.23  |
| 50   | 1.92 | 1.02 | 4.08  | 2.34  | 2.48 | 3.01  | 5.70  | 2.13  | 4.45  | 1.41 | .80  | 4.50 | 33.84  |
| 51   | .75  | 1.18 | 4.96  | 2.33  | .40  | 2.22  | 6.65  | 2.34  | 4.32  | .23  | 1.99 | 3.15 | 30.52  |
| 52   | 2.41 | 3.39 | 6.40  | 3.58  | 4.24 | 4.37  | 4.44  | 14.50 | 2.56  | .49  | 1.44 | 2.62 | 50.44  |
| 53   | 2.74 | 5.79 | 3.51  | 3.36  | 2.58 | 2.14  | 1.85  | 2.89  | 6.56  | .09  | .78  | 6.46 | 38.75  |
| 54   | 1.70 | .55  | 2.92  | 1.52  | 2.35 | 6.76  | .69   | 4.48  | .33   | 3.16 | .98  | 2.27 | 27.71  |
| 55   | 6.60 | 1.97 | 1.67  | 3.11  | 2.79 | 5.29  | 6.31  | 2.48  | 2.87  | 2.52 | 1.67 | .27  | 37.55  |
| 56   | 1.42 | 5.89 | 3.02  | 2.98  | .85  | 3.68  | 1.94  | 4.11  | 4.22  | 6.58 | .63  | 2.10 | 37.42  |
| 57   | 1.42 | 1.39 | 4.15  | 1.00  | 5.17 | 5.54  | 3.76  | 7.01  | 4.30  | 1.43 | 5.98 | 2.50 | 43.65  |
| 58   | 4.63 | 3.86 | 6.21  | 10.08 | 5.07 | 7.65  | 8.03  | 3.31  | 1.06  | 2.57 | .33  | 3.40 | 56.20  |
| 59   | 2.70 | 5.18 | 5.26  | 2.36  | 4.97 | 3.28  | 13.35 | 3.08  | 6.62  | 9.11 | 1.48 | 3.09 | 60.48  |
| 60   | 5.30 | 5.84 | 3.67  | 4.87  | 1.05 | 3.74  | 7.52  | 2.65  | 4.36  | 2.63 | 1.95 | 2.24 | 45.82  |
| 61   | 1.27 | 5.64 | 5.29  | 5.80  | 4.19 | 8.90  | 9.07  | 8.52  | .99   | .70  | 1.44 | 2.19 | 54.00  |
| 62   | 3.82 | 4.36 | 4.29  | 2.91  | 1.60 | 5.87  | 3.53  | 4.67  | 3.40  | .85  | 4.88 | 2.51 | 42.64  |
| 63   | 5.55 | 2.92 | 3.15  | 2.75  | 1.49 | 4.52  | 5.26  | 1.17  | 5.52  | .11  | 5.27 | 3.55 | 41.26  |
| 64   | 7.37 | 5.77 | 4.38  | 2.43  | 2.47 | 4.58  | 11.98 | 5.44  | 4.74  | 8.75 | .88  | 3.86 | 62.65  |
| 65   | 1.28 | 5.48 | 8.16  | 2.93  | 2.96 | 11.70 | 6.76  | 5.37  | 2.19  | 2.23 | 2.27 | .70  | 52.03  |
| 66   | 6.94 | 4.09 | 3.87  | 3.32  | 9.63 | 2.90  | 5.03  | 9.46  | 2.34  | 1.34 | .83  | 3.44 | 53.19  |
| 67   | 2.98 | 3.40 | 1.66  | 2.27  | 6.32 | 2.80  | 5.99  | 7.48  | 1.81  | .81  | 2.88 | 4.02 | 42.42  |
| 68   | 3.96 | 1.76 | 1.73  | 4.07  | 2.40 | 5.94  | 3.39  | 3.43  | .51   | 5.42 | 3.94 | 2.61 | 39.16  |
| 69   | 2.08 | 4.97 | 3.83  | 3.49  | 5.46 | 5.25  | 5.38  | 3.17  | 1.96  | 1.07 | 1.32 | 2.93 | 40.91  |
| 70   | 2.51 | 2.48 | 8.21  | .35   | 2.29 | 6.02  | 1.43  | 4.13  | 3.00  | 3.78 | 1.59 | 4.17 | 39.96  |
| 71   | 3.51 | 3.29 | 12.73 | 3.48  | 2.98 | 6.03  | 4.58  | 3.72  | 1.77  | 6.51 | 2.47 | 2.09 | 53.16  |
| 72   | 7.14 | 3.09 | 3.38  | .78   | 6.19 | 7.04  | 6.07  | 5.67  | 4.51  | 1.20 | 5.36 | 4.64 | 55.07  |
| 73   | 3.17 | 6.52 | 6.39  | 3.75  | 3.93 | 17.83 | 4.63  | 2.30  | 3.54  | 1.12 | .43  | 5.71 | 59.32  |
| 74   | 5.39 | 4.05 | 3.00  | 2.83  | 2.73 | 1.50  | 6.86  | 7.46  | 6.34  | .03  | 2.95 | 4.84 | 47.98  |
| 75   | 5.36 | 5.76 | 3.78  | 4.83  | 9.56 | 7.33  | 10.88 | 1.51  | 4.78  | 1.03 | 2.18 | 4.68 | 61.68  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR      | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 76        | 3.60  | .88   | 3.55  | .92   | 5.74  | 9.98  | 6.43  | 1.95  | 4.58  | 3.29  | 4.17  | 5.14  | 50.23  |
| 77        | 2.41  | 2.30  | 3.83  | 1.72  | 1.69  | 4.34  | 2.97  | 5.49  | 1.81  | 1.52  | 1.64  | 5.23  | 34.95  |
| 78        | 5.94  | 1.40  | 2.29  | 4.71  | 2.72  | 2.65  | 2.90  | 3.05  | 2.21  | .10   | 3.25  | 2.21  | 33.43  |
| 79        | 4.72  | 6.17  | 2.41  | 4.95  | 5.82  | 4.11  | 11.17 | 3.92  | 7.68  | .57   | 4.60  | 1.45  | 57.57  |
| 80        | 4.55  | 1.90  | 9.05  | 1.69  | 2.26  | 2.81  | .66   | 4.25  | 6.12  | 1.52  | 1.65  | 1.78  | 38.24  |
| 81        | .65   | 2.72  | 2.87  | 2.00  | 3.24  | 2.82  | 6.26  | 5.43  | .31   | 1.70  | 1.16  | 6.80  | 35.96  |
| 82        | 3.44  | 5.41  | 1.24  | 4.77  | 1.89  | 5.82  | 7.72  | .74   | 3.05  | 2.15  | 1.60  | 3.58  | 41.41  |
| 83        | 3.32  | 5.64  | 7.59  | 6.08  | .69   | 3.78  | 2.86  | 2.45  | 4.81  | 1.61  | 2.73  | 6.87  | 48.43  |
| 84        | 3.33  | 4.19  | 4.38  | 4.20  | 10.64 | 3.45  | 9.74  | 2.12  | .96   | 2.20  | .82   | 1.55  | 47.58  |
| 85        | 4.15  | 5.13  | .53   | .51   | 3.13  | 5.51  | 5.92  | 11.19 | .34   | 7.44  | 8.09  | .86   | 52.80  |
| 86        | .93   | 1.71  | 2.93  | .40   | 2.81  | 2.32  | 2.78  | 4.75  | .53   | 3.70  | 4.88  | 2.03  | 29.77  |
| 87        | 6.70  | 4.56  | 4.91  | 1.43  | .97   | 5.15  | 2.13  | 2.42  | 6.62  | 1.37  | 3.41  | 1.75  | 41.42  |
| 88        | 3.59  | 1.77  | 2.10  | 3.50  | 5.68  | 2.73  | 3.87  | 5.67  | 6.24  | 3.37  | 1.39  | .79   | 40.70  |
| 89        | 1.42  | 2.86  | 4.92  |       |       |       |       |       |       |       |       |       | 9.20*  |
| LEAST     | .65   | .32   | .53   | .35   | .40   | 1.15  | .66   | .74   | .31   | .03   | .33   | .27   | 27.71  |
| GREATEST  | 7.37  | 6.52  | 12.73 | 10.08 | 10.64 | 17.83 | 13.35 | 14.50 | 14.84 | 9.11  | 8.09  | 7.38  | 62.65  |
| MEAN      | 3.41  | 3.57  | 4.23  | 3.24  | 3.61  | 4.89  | 5.48  | 4.70  | 3.64  | 2.52  | 2.60  | 3.21  | 45.30  |
| MEDIAN    | 3.33  | 3.40  | 3.83  | 2.93  | 2.81  | 4.37  | 5.38  | 4.13  | 3.40  | 1.70  | 1.95  | 2.97  | 45.23  |
| SD        | 1.824 | 1.794 | 2.332 | 1.915 | 2.386 | 2.914 | 2.999 | 2.798 | 2.599 | 2.282 | 1.988 | 1.762 | 8.916  |
| TOTAL OBS | 1488  | 1356  | 1453  | 1410  | 1457  | 1410  | 1456  | 1457  | 1410  | 1457  | 1410  | 1457  | 17221  |

THE GREATEST VALUE OF 17.83 OCCURRED ON 06/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
 USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES  
 FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
 MONTH: ALL HOURS: ALL

| YEAR | JAN  | FEB  | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|------|------|------|-------|------|------|------|------|------|------|------|------|------|--------|
| 42   | .86  | .79  | 2.16* | 1.72 | 4.13 | 1.52 | 2.35 | .97  | .51  | .30  | .52  | .76  | 4.13*  |
| 43   | .93  | .77  | 1.60  | 1.30 | 1.19 | 1.50 | 2.18 | 1.73 | 1.58 | .07  | .88  | 2.81 | 2.81   |
| 44   | 1.04 | 1.16 |       | 2.43 | .46  | .92  | 1.27 | 1.11 | .80  | 2.45 | 1.11 | .40  | 2.45*  |
| 45   | .90  | .50  | .91   | 1.06 | .56  | 1.30 | 1.42 | 1.93 | 6.55 | 1.35 | .85  | 1.43 | 6.55   |
| 46   | .95  | 1.50 | .83   | 1.01 | .79  | .60  | 1.88 | 2.50 | .33  | 3.28 | .96  | .87  | 3.28   |
| 47   | 1.15 | .20  | 1.31  | 2.73 | .74  | 1.75 | .84  | 2.23 | 2.31 | 1.56 | 2.31 | 1.35 | 2.73   |
| 48   | 1.05 | 1.74 | 1.48  | .85  | .98  | 2.04 | 1.19 | 1.25 | 2.77 | 3.06 | 1.70 | .62  | 3.06   |
| 49   | .44  | 1.19 | .38   | 1.10 | 2.57 | .98  | .45  | 2.85 | 1.19 | .94  | .67  | .75  | 2.85   |
| 50   | .70  | .35  | 1.30  | .90  | 1.06 | .97  | 1.85 | .65  | 1.51 | .78  | .33  | 1.38 | 1.85   |
| 51   | .25  | .48  | 1.71  | .86  | .34  | .60  | 1.51 | .79  | 1.60 | .09  | .80  | .83  | 1.71   |
| 52   | 1.29 | 1.18 | 1.43  | .81  | 1.71 | 1.68 | 1.85 | 3.29 | .95  | .31  | .61  | .83  | 3.29   |
| 53   | 1.39 | 1.26 | 1.37  | 2.02 | 1.70 | .57  | 1.34 | 1.75 | 3.04 | .09  | .37  | 2.13 | 3.04   |
| 54   | .70  | .34  | .69   | 1.02 | 1.38 | 6.30 | .27  | 2.03 | .19  | 2.77 | .36  | 1.31 | 6.30   |
| 55   | 3.78 | 1.14 | .54   | 1.78 | .83  | 2.88 | 1.66 | .75  | 1.59 | 1.56 | .78  | .19  | 3.78   |
| 56   | .91  | 1.20 | .96   | 1.22 | .31  | 2.51 | .70  | 1.03 | 1.90 | 3.90 | .25  | 1.24 | 3.90   |
| 57   | .61  | .36  | 1.58  | .78  | 1.73 | 2.85 | 1.16 | 1.63 | .92  | .53  | 1.55 | .71  | 2.85   |
| 58   | 1.57 | 1.39 | 1.62  | 1.76 | 1.07 | 2.39 | 1.76 | .76  | .58  | 1.25 | .28  | 1.35 | 2.39   |
| 59   | .58  | 1.94 | 1.35  | .96  | 1.31 | 1.50 | 3.51 | 1.20 | 3.97 | 2.09 | 1.25 | 2.10 | 3.97   |
| 60   | 1.49 | 1.63 | 1.57  | 2.26 | .54  | 2.01 | 2.12 | .86  | 1.70 | .81  | 1.07 | 1.31 | 2.26   |
| 61   | .60  | 1.73 | 2.27  | 1.97 | 1.83 | 3.11 | 1.55 | 2.01 | .83  | .70  | 1.20 | 1.01 | 3.11   |
| 62   | .87  | 2.39 | 1.87  | .98  | .71  | 1.11 | .95  | 1.53 | 2.52 | .56  | 2.02 | .91  | 2.52   |
| 63   | 1.48 | .73  | 1.38  | 1.54 | .47  | 1.09 | 1.32 | .57  | 2.12 | .06  | 1.92 | 1.00 | 2.12   |
| 64   | 1.96 | 1.96 | 1.08  | 1.29 | 1.77 | .76  | 2.21 | 2.08 | 2.88 | 3.31 | .27  | 1.38 | 3.31   |
| 65   | .49  | 1.17 | 1.77  | .61  | 1.13 | 3.45 | 2.42 | 1.03 | 1.69 | 1.84 | 1.55 | .29  | 3.45   |
| 66   | 1.52 | 1.28 | 3.19  | 1.58 | 2.34 | .96  | 3.31 | 1.50 | 1.30 | .73  | .44  | .72  | 3.31   |
| 67   | .80  | 1.27 | .58   | 1.28 | 2.76 | .79  | .99  | 4.00 | 1.44 | .66  | 1.60 | 1.40 | 4.00   |
| 68   | 1.33 | .84  | .47   | 1.09 | 1.13 | 2.27 | .74  | 1.97 | .24  | 2.73 | 1.55 | .69  | 2.73   |
| 69   | 1.04 | 2.44 | 1.97  | 1.10 | 3.48 | 1.01 | 1.60 | 1.30 | .83  | .53  | 1.04 | 1.18 | 3.48   |
| 70   | 1.16 | .97  | 2.77  | .16  | .85  | 5.17 | .57  | .65  | 1.19 | 1.25 | 1.48 | 2.89 | 5.17   |
| 71   | 1.18 | 1.23 | 5.65  | 1.32 | 1.36 | 1.15 | .75  | 2.27 | .86  | 2.10 | 1.28 | 1.00 | 5.65   |
| 72   | 1.98 | 1.02 | 1.10  | .26  | .97  | 1.92 | 2.45 | 1.54 | 2.09 | .57  | 1.21 | 1.33 | 2.45   |
| 73   | .68  | 2.70 | 1.61  | 1.89 | 1.33 | 7.51 | 1.77 | .52  | 1.45 | .74  | .28  | 1.21 | 7.51   |
| 74   | 2.18 | 1.15 | .70   | .84  | 1.02 | .55  | 2.97 | 2.84 | 3.17 | .03  | 1.27 | 1.32 | 3.17   |
| 75   | 1.45 | 1.68 | .99   | 1.38 | 2.93 | 3.65 | 1.62 | .43  | 1.87 | .75  | 1.05 | 1.34 | 3.65   |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 76   | 1.49 | .66  | 1.46 | .89  | 2.24 | 3.26 | 2.41 | 1.03 | 2.10 | 1.88 | 1.62 | 1.15 | 3.26   |
| 77   | .61  | 1.19 | 1.27 | .60  | .63  | .95  | 1.23 | 1.20 | .80  | .37  | .48  | 1.41 | 1.41   |
| 78   | 2.28 | .45  | 1.43 | 2.51 | .66  | 1.36 | 1.06 | .63  | 1.34 | .06  | 1.94 | .89  | 2.51   |
| 79   | 1.80 | 2.01 | .72  | 1.51 | 1.49 | 2.55 | 3.97 | 1.27 | 3.21 | .24  | 2.22 | .52  | 3.97   |
| 80   | .87  | .3   | 1.87 | .62  | 1.17 | .98  | .34  | 1.91 | 1.85 | .58  | .78  | .79  | 1.91   |
| 81   | .23  | .98  | .80  | .43  | 1.19 | .97  | 1.34 | 1.78 | .24  | .62  | .40  | 1.83 | 1.83   |
| 82   | 1.59 | 1.18 | .61  | 1.01 | .86  | 2.23 | 1.93 | .38  | .99  | .88  | .38  | 1.07 | 2.23   |
| 83   | .96  | 1.40 | 3.88 | 2.98 | .56  | 1.53 | 1.41 | .98  | 1.57 | 1.11 | .88  | 1.80 | 3.88   |
| 84   | 1.09 | 1.97 | 1.33 | 1.27 | 4.90 | 2.00 | 2.48 | 1.04 | .64  | .93  | .64  | 1.04 | 4.90   |
| 85   | 1.56 | 2.43 | .33  | .30  | .98  | 1.37 | 1.30 | 4.91 | .17  | 1.99 | 3.10 | .44  | 4.91   |
| 86   | .35  | 1.30 | 1.40 | .23  | 1.16 | 1.17 | .97  | 1.56 | .42  | 1.32 | 1.83 | .56  | 1.83   |
| 87   | 1.75 | 1.53 | 1.09 | .96  | .36  | 1.03 | .87  | .70  | 1.78 | 1.26 | 1.00 | .56  | 1.78   |
| 88   | 1.26 | .54  | 1.59 | 1.67 | 2.18 | 1.62 | 2.24 | 3.08 | 2.90 | 1.77 | .45  | .46  | 3.08   |
| 89   | .52  | .99  | 1.60 |      |      |      |      |      |      |      |      |      | 1.60*  |

GREATEST 3.78 2.70 5.65 2.98 4.90 7.51 3.97 4.91 6.55 3.90 3.10 2.89 7.51

TOTAL OBS 1488 1356 1453 1410 1457 1410 1456 1457 1410 1457 1410 1457 17221

THE GREATEST VALUE OF 7.51 OCCURRED ON 06/10/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4601-8903  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV  | DEC  | ANN   |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|-------|
| NONE                         | 95.2 | 95.8 | 98.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.8 | 97.8 | 98.9  |
| TRACE                        | 3.5  | 2.6  | .9   | .1   |       |       |       |       |       | .1   | .2   | 1.9  | .8    |
| 0.1-0.4                      | .6   | .6   | .4   |      |       |       |       |       |       |      |      | .2   | .1    |
| 0.5-1.4                      | .4   | .2   |      |      |       |       |       |       |       |      |      |      | .0    |
| 1.5-2.4                      | .1   | .4   | .1   |      |       |       |       |       |       |      |      |      | .1    |
| 2.5-3.4                      | .1   | .2   | .1   |      |       |       |       |       |       |      |      | .1   | .0    |
| 3.5-4.4                      | .1   | .1   | .1   |      |       |       |       |       |       |      |      |      | .0    |
| 4.5-6.4                      |      | .1   |      |      |       |       |       |       |       |      |      | .1   | .0    |
| 6.5-10.4                     |      |      |      |      |       |       |       |       |       |      |      |      |       |
| 10.5-15.4                    |      | .1   |      |      |       |       |       |       |       |      |      |      | .0    |
| 15.5-25.4                    |      |      |      |      |       |       |       |       |       |      |      |      |       |
| 25.5-50.4                    |      |      |      |      |       |       |       |       |       |      |      |      |       |
| OVER 50.4                    |      |      |      |      |       |       |       |       |       |      |      |      |       |
| DAYS WITH<br>MEAS AMTS       | 1.2  | 1.6  | .7   |      |       |       |       |       |       |      |      | .3   | .3    |
| TOTAL NO. OF<br>OBSERVATIONS | 1363 | 1243 | 1364 | 1290 | 1333  | 1290  | 1333  | 1333  | 1290  | 1333 | 1290 | 1333 | 15795 |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4601-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN   | FEB   | MAR   | APR | MAY | JUN | JUL | AUG | SEP | OCT   | NOV   | DEC   | ANNUAL |
|------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 46   | .9    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .9     |
| 47   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .0     |
| 48   | TRACE | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 49   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 50   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | TRACE | TRACE | TRACE  |
| 51   | .0    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 52   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 53   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 54   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 55   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 56   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 57   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 58   | .0    | 1.9   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | 4.6   | 6.5    |
| 59   | .0    | .0    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 60   | TRACE | .1    | 3.9   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 4.0    |
| 61   | .3    | .1    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .4     |
| 62   | .3    | TRACE | .5    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .8     |
| 63   | TRACE | 3.0   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 3.0    |
| 64   | TRACE | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 65   | 1.3   | TRACE | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 1.3    |
| 66   | .5    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .5     |
| 67   | .0    | 2.3   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 2.3    |
| 68   | .2    | 4.1   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | TRACE | .0    | 4.3    |
| 69   | TRACE | 2.1   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 2.1    |
| 70   | 3.4   | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 3.4    |
| 71   | TRACE | TRACE | 2.4   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 2.4    |
| 72   | .0    | .0    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 73   | 3.0   | 16.5  | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .8    | 20.3   |
| 74   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 75   | .0    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 76   | .2    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .2     |
| 77   | .9    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | TRACE | .0    | .0    | .9     |
| 78   | TRACE | .9    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .9     |
| 79   | .0    | 5.1   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 5.1    |
| 80   | .0    | 4.1   | 4.2   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | 2.9   | 11.2   |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4601-8903  
MONTH: ALL HOURS: ALL

| YEAR      | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|--------|
| 81        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | TRACE | TRACE  |
| 82        | 1.9   | TRACE | .0    | TRACE | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | 1.9    |
| 83        | TRACE | TRACE | 3.0   | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | 3.0    |
| 84        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE  |
| 85        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE  |
| 86        | TRACE | .0    | TRACE | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE  |
| 87        | .7    | .0    | .1    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | .8     |
| 88        | 3.5   | .0    | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | TRACE | 3.5    |
| 89        | .0    | 4.2   | TRACE |       |      |      |      |      |      |       |       |       | 4.2*   |
| LEAST     | .0    | .0    | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | .0     |
| GREATEST  | 3.5   | 16.5  | 4.2   | TRACE | .0   | .0   | .0   | .0   | .0   | TRACE | TRACE | 4.6   | 20.3   |
| MEAN      | .4    | 1.0   | .3    | TRACE | .0   | .0   | .0   | .0   | .0   | TRACE | TRACE | .2    | 1.8    |
| MEDIAN    | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | .4     |
| SD        | .890  | 2.761 | 1.004 | .000  | .000 | .000 | .000 | .000 | .000 | .000  | .000  | .825  | 3.649  |
| TOTAL OBS | 1363  | 1243  | 1364  | 1290  | 1333 | 1290 | 1333 | 1333 | 1290 | 1333  | 1290  | 1333  | 15795  |

THE GREATEST VALUE OF 16.5 OCCURRED ON 02/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LS1 TO UTC: +05

PERIOD OF RECORD: 4601-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN   | FEB   | MAR   | APR | MAY | JUN | JUL | AUG | SEP | OCT   | NOV   | DEC   | ANNUAL |
|------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 46   | .9    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .9     |
| 47   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .0     |
| 48   | TRACE | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 49   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 50   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | TRACE | TRACE | TRACE  |
| 51   | .0    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 52   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 53   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 54   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 55   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 56   | TRACE | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 57   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 58   | .0    | 1.9   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | 4.6   | 4.6    |
| 59   | .0    | .0    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 60   | TRACE | .1    | 3.7   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 3.7    |
| 61   | .3    | .1    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .3     |
| 62   | .3    | TRACE | .3    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .3     |
| 63   | TRACE | 3.0   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 3.0    |
| 64   | TRACE | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 65   | 1.1   | TRACE | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 1.1    |
| 66   | .4    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .4     |
| 67   | .0    | 2.3   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 2.3    |
| 68   | .2    | 1.9   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | TRACE | .0    | 1.9    |
| 69   | TRACE | 2.0   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 2.0    |
| 70   | 3.4   | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 3.4    |
| 71   | TRACE | TRACE | 2.4   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | 2.4    |
| 72   | .0    | .0    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 73   | 1.6   | 13.8  | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .4    | 13.8   |
| 74   | .0    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | TRACE  |
| 75   | .0    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | TRACE  |
| 76   | .2    | .0    | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | .2     |
| 77   | .9    | TRACE | .0    | .0  | .0  | .0  | .0  | .0  | .0  | TRACE | .0    | .0    | .9     |
| 78   | TRACE | .7    | TRACE | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | TRACE | .7     |
| 79   | .0    | 5.0   | .0    | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | .0    | 5.0    |
| 80   | .0    | 4.1   | 4.1   | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0    | 2.9   | 4.1    |



OPERATING LOCATION 'A'  
 USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES  
 FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: +05

PERIOD OF RECORD: 4601-8903  
 MONTH: ALL HOURS: ALL

| YEAR      | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  | OCT   | NOV   | DEC   | ANNUA |
|-----------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|
| 81        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | TRACE | TRACE |
| 82        | 1.9   | TRACE | .0    | TRACE | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | 1.9   |
| 83        | TRACE | TRACE | 3.0   | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | 3.0   |
| 84        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE |
| 85        | TRACE | TRACE | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE |
| 86        | TRACE | .0    | TRACE | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | TRACE |
| 87        | .6    | .0    | .1    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | .0    | .6    |
| 88        | 3.5   | .0    | .0    | .0    | .0   | .0   | .0   | .0   | .0   | .0    | .0    | TRACE | 3.5   |
| 89        | .0    | 3.1   | TRACE |       |      |      |      |      |      |       |       |       | 3.1*  |
| .....     |       |       |       |       |      |      |      |      |      |       |       |       |       |
| GREATEST  | 3.5   | 13.8  | 4.1   | TRACE | .0   | .0   | .0   | .0   | .0   | TRACE | TRACE | 4.6   | 13.8  |
| .....     |       |       |       |       |      |      |      |      |      |       |       |       |       |
| TOTAL OBS | 1363  | 1243  | 1364  | 1290  | 1333 | 1290 | 1333 | 1333 | 1290 | 1333  | 1290  | 1333  | 15795 |
| .....     |       |       |       |       |      |      |      |      |      |       |       |       |       |

THE GREATEST VALUE OF 13.8 OCCURRED ON 02/10/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC.

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC  | ANN   |
|------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| NONE                         | 98.0 | 98.1 | 99.4 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.9 | 99.5  |
| TRACE                        | .8   | .4   | .1   |       |       |       |       |       |       |       |       | .4   | .2    |
| 1                            | .5   | .5   | .1   |       |       |       |       |       |       |       |       | .1   | .1    |
| 2                            | .5   | .1   | .1   |       |       |       |       |       |       |       |       | .3   | .1    |
| 3                            | .1   | .2   | .1   |       |       |       |       |       |       |       |       | .2   | .1    |
| 4-6                          |      | .2   | .1   |       |       |       |       |       |       |       |       |      | .0    |
| 7-12                         |      | .1   |      |       |       |       |       |       |       |       |       |      | .0    |
| 13-24                        |      | .2   |      |       |       |       |       |       |       |       |       |      | .0    |
| 25-36                        |      |      |      |       |       |       |       |       |       |       |       |      |       |
| 37-48                        |      |      |      |       |       |       |       |       |       |       |       |      |       |
| 49-60                        |      |      |      |       |       |       |       |       |       |       |       |      |       |
| 61-120                       |      |      |      |       |       |       |       |       |       |       |       |      |       |
| OVER 120                     |      |      |      |       |       |       |       |       |       |       |       |      |       |
| DAYS WITH<br>MEAS AMTS       | 1.2  | 1.5  | .4   |       |       |       |       |       |       |       |       | .7   | .3    |
| TOTAL NO. OF<br>OBSERVATIONS | 1488 | 1356 | 1454 | 1410  | 1457  | 1410  | 1457  | 1457  | 1410  | 1457  | 1410  | 1457 | 17223 |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN   | FEB   | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC   | ANNUAL |
|------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--------|
| 42   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 43   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3     | 3      |
| 44   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0*     |
| 45   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 46   | 1     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 47   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 48   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 49   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 50   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 51   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 52   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 53   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 54   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 55   | TRACE | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 56   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 57   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 58   | 0     | 1     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3     | 3      |
| 59   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 60   | 0     | 0     | 3   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 3      |
| 61   | TRACE | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 62   | TRACE | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 63   | TRACE | 3     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 3      |
| 64   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 65   | 1     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 66   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 67   | 0     | 1     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 68   | 0     | 1     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 69   | TRACE | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 70   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 71   | 0     | 0     | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | 1      |
| 72   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 73   | 3     | 17    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | 17     |
| 74   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 75   | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN   | FEB   | MAR   | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC   | ANNUAL |
|------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|--------|
| 76   | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 77   | TRACE | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 78   | TRACE | TRACE | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE  |
| 79   | 0     | 5     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 5      |
| 80   | 0     | 3     | 5     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2     | 5      |
| 81   | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 82   | 1     | TRACE | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 83   | 0     | 0     | 2     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 2      |
| 84   | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 85   | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 86   | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0      |
| 87   | 1     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 1      |
| 88   | 3     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | 3      |
| 89   | 0     | 4     | TRACE |     |     |     |     |     |     |     |     |       | 4*     |

|           |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| GREATEST  | 3    | 17   | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 17    |
| TOTAL OBS | 1488 | 1356 | 1454 | 1410 | 1457 | 1410 | 1457 | 1457 | 1410 | 1457 | 1410 | 1457 | 17223 |

THE GREATEST VALUE OF 17 OCCURRED ON 02/11/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC

PERIOD OF RECORD: 4201-8903

SNOW-YEAR: 1 AUG - 31 JUL

| SNOW-YEAR | FIRST SNOWFALL | FIRST MEASURABLE SNOWFALL | FIRST MEASURABLE SNOW DEPTH | LAST SNOWFALL | LAST MEASURABLE SNOWFALL | LAST MEASURABLE SNOW DEPTH |
|-----------|----------------|---------------------------|-----------------------------|---------------|--------------------------|----------------------------|
| 43 - 44   |                |                           | DEC 15                      |               |                          | DEC 16                     |
| 45 - 46   | JAN 16         | JAN 16                    | JAN 17                      | JAN 16        | JAN 16                   | JAN 17                     |
| 47 - 48   | JAN 14         |                           |                             | FEB 10        |                          |                            |
| 48 - 49   | JAN 30         |                           |                             | JAN 30        |                          |                            |
| 50 - 51   | NOV 25         |                           |                             | FEB 10        |                          |                            |
| 51 - 52   | JAN 29         |                           |                             | JAN 29        |                          |                            |
| 52 - 53   | JAN 03         |                           |                             | JAN 04        |                          |                            |
| 53 - 54   | JAN 24         |                           |                             | JAN 24        |                          |                            |
| 54 - 55   | DEC 06         |                           |                             | JAN 24        |                          |                            |
| 55 - 56   | DEC 27         |                           |                             | JAN 10        |                          |                            |
| 57 - 58   | DEC 11         | FEB 13                    | FEB 13                      | FEB 13        | FEB 13                   | FEB 13                     |
| 58 - 59   | DEC 10         | DEC 11                    | DEC 11                      | MAR 02        | DEC 11                   | DEC 17                     |
| 59 - 60   | JAN 01         | FEB 14                    | MAR 12                      | MAR 12        | MAR 11                   | MAR 12                     |
| 60 - 61   | JAN 21         | JAN 26                    |                             | FEB 07        | FEB 03                   |                            |
| 61 - 62   | JAN 10         | JAN 10                    |                             | MAR 06        | MAR 06                   |                            |
| 62 - 63   | DEC 24         | FEB 26                    | FEB 27                      | FEB 27        | FEB 26                   | FEB 27                     |
| 63 - 64   | DEC 22         |                           |                             | FEB 08        |                          |                            |
| 64 - 65   | JAN 15         | JAN 17                    | JAN 31                      | MAR 08        | JAN 30                   | JAN 31                     |
| 65 - 66   | JAN 22         | JAN 26                    |                             | FEB 23        | JAN 27                   |                            |
| 66 - 67   | DEC 24         | FEB 09                    | FEB 10                      | FEB 27        | FEB 09                   | FEB 10                     |
| 67 - 68   | JAN 10         | JAN 25                    | FEB 22                      | FEB 24        | FEB 24                   | FEB 24                     |
| 68 - 69   | NOV 11         | FEB 15                    |                             | FEB 17        | FEB 16                   |                            |
| 69 - 70   | DEC 26         | JAN 23                    |                             | FEB 10        | JAN 23                   |                            |
| 70 - 71   | DEC 29         | MAR 25                    | MAR 26                      | MAR 25        | MAR 25                   | MAR 26                     |
| 71 - 72   | DEC 02         |                           |                             | MAR 25        |                          |                            |
| 72 - 73   | JAN 07         | JAN 07                    | JAN 08                      | FEB 10        | FEB 10                   | FEB 15                     |
| 73 - 74   | DEC 16         | DEC 16                    |                             | DEC 17        | DEC 17                   |                            |
| 74 - 75   | DEC 01         |                           |                             | FEB 03        |                          |                            |
| 75 - 76   | JAN 17         | JAN 17                    |                             | JAN 17        | JAN 17                   |                            |

OPERATING LOCATION 'A'  
 USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR  
 FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC

PERIOD OF RECORD: 4201-8903

SNOW-YEAR: 1 AUG - 31 JUL

| SNOW-YEAR   | FIRST<br>SNOWFALL | FIRST<br>MEASURABLE<br>SNOWFALL | FIRST<br>MEASURABLE<br>SNOW DEPTH | LAST<br>SNOWFALL | LAST<br>MEASURABLE<br>SNOWFALL | LAST<br>MEASURABLE<br>SNOW DEPTH |
|-------------|-------------------|---------------------------------|-----------------------------------|------------------|--------------------------------|----------------------------------|
| 76 - 77     | JAN 03            | JAN 31                          |                                   | FEB 18           | JAN 31                         |                                  |
| 77 - 78     | OCT 16            | FEB 09                          |                                   | MAR 02           | FEB 23                         |                                  |
| 78 - 79     | DEC 11            | FEB 06                          | FEB 18                            | FEB 18           | FEB 18                         | FEB 22                           |
| 79 - 80     | FEB 04            | FEB 06                          | FEB 06                            | MAR 02           | MAR 02                         | MAR 04                           |
| 80 - 81     | DEC 26            | DEC 27                          | DEC 27                            | FEB 06           | DEC 27                         | DEC 27                           |
| 81 - 82     | DEC 21            | JAN 14                          | JAN 15                            | APR 08           | JAN 14                         | JAN 15                           |
| 82 - 83     | JAN 20            | MAR 24                          | MAR 24                            | MAR 25           | MAR 24                         | MAR 25                           |
| 83 - 84     | JAN 15            |                                 |                                   | FEB 28           |                                |                                  |
| 84 - 85     | JAN 20            |                                 |                                   | FEB 12           |                                |                                  |
| 85 - 86     | JAN 27            |                                 |                                   | MAR 01           |                                |                                  |
| 86 - 87     | JAN 26            | JAN 26                          | JAN 27                            | MAR 12           | MAR 12                         | JAN 27                           |
| 87 - 88     | JAN 07            | JAN 07                          | JAN 08                            | JAN 15           | JAN 07                         | JAN 16                           |
| 88 - 89     | DEC 16            | FEB 23                          | FEB 24                            | MAR 08           | FEB 24                         | FEB 25                           |
| MEDIAN-DATE | JAN 03            | JAN 26                          | FEB 06                            | FEB 17           | FEB 10                         | FEB 13                           |

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PART C

SURFACE WIND SUMMARIES

PEAK WINDS.

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS. DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.

ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS) THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET. IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED: WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4701-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 47   | SW 36  | SW 38  | W 49   | SSW 36 | SSE 31 | SSE 47 | WNW 35 | NNW 31 | NNE 31 | NNE 34 | ENE 33 | W 29   | W 49   |
| 48   | NW 30  | WNW 38 | WSW*34 | *      | WSW 42 | ESE 48 | SW 44  | WNW 35 | WNW 24 | NW 34  | SSW 31 | S 28   | ESE*48 |
| 49   | WNW 28 | WNW*34 | W *34  | NNE 36 | SSW 39 | SSE 51 | SW 33  | S 43   | SSE 23 | E 23   | NNW 27 | SE 23  | S *43  |
| 50   | NE 33  | WNW 35 | WNW 41 | S 38   | NNW 37 | WSW 40 | SW 29  | NE *11 | *      | *      | WNW*40 | SSE 36 | WNW*41 |
| 51   | SW 35  | SW 49  | SW 35  | NNW 36 | NW 36  | WSW 68 | WSW 37 | W 40   | SSW 42 | NNE 25 | WSW 36 | SSW 35 | WSW 68 |
| 52   | W 42   | SW 41  | SSW 49 | SE 35  | SW 41  | NNW 55 | NNE 55 | ENE 58 | NNE 26 | N 30   | N 31   | W 30   | ENE 58 |
| 53   | WSW 38 | WSW 37 | ESE 36 | SSW 44 | WSW 54 | NE 30  | SSE 32 | SSE 30 | E 26   | SSE 25 | NNE 32 | WSW 36 | WSW 54 |
| 54   | SW 31  | WSW 46 | WNW 35 | N 50   | WSW 42 | WSW 36 | NNW 36 | NNW 41 | W 35   | NE 50  | WNW 35 | NE 43  | N 50   |
| 55   | ENE 39 | W 45   | WSW 58 | WSW 42 | ENE 37 | NNW 45 | ENE 38 | NE 36  | ESE 30 | WSW 28 | WSW 38 | WNW 31 | WSW 58 |
| 56   | SW 33  | SSW 42 | WSW 44 | WSW 50 | NNE 30 | ESE 33 | WNW*31 | SSW*24 | SSE*36 | NNE*40 | WSW 33 | W 41   | WSW*50 |
| 57   | SSW*36 | SSW 33 | NNE 36 | SE 43  | NNE 32 | SW 48  | W 29   | NW 47  | ENE 30 | NNE 25 | WSW*33 | SSW 38 | SW *48 |
| 58   | NNW 30 | WSW 43 | NNE 28 | WNW 43 | W 42   | WNW 32 | SSE 30 | SSL 35 | NNW 30 | NNE 28 | NW 33  | WSW 33 | WSW 43 |
| 59   | S 48   | W 33   | WSW 36 | NE 42  | SSW 24 | NE 37  | NNE 37 | NNE 28 | E 47   | SSE 26 | NNE 26 | NE 27  | S 48   |
| 60   | NE 27  | SSW 37 | WSW 30 | W 31   | WSW 26 | S 28   | W *32  | SSW 18 | NE 22  | N 20   | N 23   | W 28   | SSW*37 |
| 61   | N *31  | WSW 40 | W 35   | WSW 42 | WNW 29 | WSW*43 | W *41  | SSW*34 | ESE*23 | N *25  | SE *31 | WSW 22 | WSW*43 |
| 62   | WNW 34 | W *34  | WSW 35 | W 38   | NNW 40 | SE 30  | NW *27 | WNW*36 | NNE*25 | W *23  | W 30   | NNE*29 | NNW*40 |
| 63   | NNW 26 | WSW*26 | WSW 37 | E 28   | ENE 27 | N *42  | NNW*28 | ENE*20 | WNW*30 | NNE 24 | W 36   | W *26  | N *42  |
| 64   | W 42   | NW *31 | WNW 35 | NNW 26 | E 29   | SSW 31 | SSW 27 | W 38   | ENE 27 | NNE 31 | NNW 35 | NNW 33 | W *42  |
| 65   | W 39   | WSW 50 | SW 36  | WSW 37 | SSW 44 | SSW 29 | NNE 37 | WNW 41 | ENE 23 | WSW 31 | NNW 30 | N 29   | WSW 50 |
| 66   | W 38   | SW 52  | W 34   | WSW 37 | NNE 30 | N 28   | NW 30  | SSW 21 | S 26   | W 29   | W 31   | W 28   | SW 52  |
| 67   | W 34   | WSW 28 | E 43   | N 32   | WNW 40 | ENE 44 | NW 33  | SW 38  | NE 20  | WSW 25 | W 38   | W 33   | ENE 44 |
| 68   | NE 27  | WNW 28 | S 31   | WSW 26 | NNW 35 | NW 28  | 29/ 26 | 20/*40 | 05/ 23 | 02/ 36 | 05/ 31 | 32/ 36 | 20/*40 |
| 69   | 28/ 29 | 26/ 39 | 30/ 44 | 20/ 30 | 22/ 24 | 24/ 32 | 27/ 28 | 29/ 23 | 05/ 16 | 03/ 28 | 07/ 39 | 27/ 30 | 30/ 44 |
| 70   | 23/ 30 | 21/ 31 | 27/ 26 | 26/ 42 | 28/ 24 | 14/ 45 | 22/ 30 | 28/ 31 | 24/ 24 | 03/ 26 | 20/ 30 | 31/ 30 | 14/ 45 |
| 71   | 28/ 37 | 28/ 37 | 28/ 38 | 23/ 27 | 22/ 34 | 17/ 31 | 18/ 52 | 09/ 30 | 36/ 24 | 07/ 23 | 33/ 25 | 04/ 30 | 18/ 52 |
| 72   | 33/ 26 | 32/ 37 | 30/ 40 | 30/ 32 | 31/ 43 | 02/ 29 | 25/*38 | 29/*72 | 29/*30 | 04/*28 | 27/ 42 | 31/ 30 | 29/*72 |
| 73   | 31/ 28 | 28/*28 | 27/*42 | 27/ 36 | 33/ 38 | 16/*12 | *      | 01/*26 | 04/*22 | 27/ 23 | 30/ 38 | 21/ 34 | 27/*42 |
| 74   | 30/ 31 | 26/ 68 | 27/*42 | 28/ 33 | 29/*22 | 05/*24 | 03/ 42 | 16/*28 | 23/ 26 | 03/*22 | 27/ 31 | 11/ 37 | 26/*68 |
| 75   | 21/ 33 | 31/ 42 | 27/ 38 | 29/ 36 | 25/ 30 | 24/ 40 | 17/*58 | *      | *      | 02/*26 | 31/ 27 | 25/ 47 | 17/*58 |
| 76   | 26/ 28 | 32/ 40 | 27/ 39 | 31/ 42 | 31/ 32 | 30/ 30 | 23/ 30 | 02/ 28 | 06/ 27 | 26/ 39 | 29/ 30 | 27/ 34 | 31/ 42 |
| 77   | 26/ 38 | 23/ 43 | 19/ 40 | 25/ 38 | 34/ 24 | 36/ 4  | 01/ 43 | 36/ 30 | 33/ 35 | 01/ 30 | 25/ 30 | 25/ 35 | 36/ 44 |
| 78   | 24/ 50 | 28/ 42 | 26/ 31 | 01/ 31 | 21/ 35 | 34/ 30 | 24/ 26 | 15/ 23 | 07/ 26 | 29/ 26 | 03/ 20 | 28/ 39 | 24/ 50 |
| 79   | 27/ 43 | 18/ 38 | 15/ 34 | 27/ 36 | 29/ 30 | 35/ 34 | 36/ 40 | 33/ 27 | 07/ 37 | 03/ 29 | 05/ 25 | 24/ 34 | 27/ 43 |
| 80   | 28/ 27 | 28/ 39 | 27/ 40 | 26/ 40 | 28/ 29 | 35/ 26 | 36/ 56 | 06/ 31 | 17/ 29 | 26/ 27 | 28/ 28 | 02/ 39 | 36/ 56 |

OPERATING LOCATION: 'A'  
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4701-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 81   | 35/ 27 | 29/ 42 | 30/ 38 | 28/ 34 | 05/ 30 | 36/ 42 | 31/ 34 | 03/ 25 | 21/ 20 | 26/ 23 | 28/ 26 | 24/ 26 | 29/ 42 |
| 82   | 17/ 42 | 30/ 32 | 23/ 23 | 30/ 38 | 35/ 33 | 28/ 55 | 02/ 46 | 33/ 26 | 09/ 25 | 01/ 23 | 03/ 26 | 02/ 32 | 28/ 55 |
| 83   | 28/ 26 | 04/ 40 | 20/ 33 | 18/ 39 | 22/ 28 | 30/ 28 | 02/ 52 | 29/ 30 | 36/ 18 | 23/ 27 | 26/ 33 | 23/ 33 | 02/ 52 |
| 84   | 27/ 34 | 26/ 37 | 25/ 40 | 26/ 52 | 01/ 36 | 06/ 31 | 36/ 40 | 32/ 26 | 05/ 27 | 06/ 26 | 15/ 28 | 29/ 32 | 26/ 52 |
| 85   | 28/ 36 | 25/ 38 | 26/ 32 | 28/ 37 | 16/ 56 | 35/ 40 | 12/ 35 | 19/ 36 | 01/ 28 | 05/ 24 | 02/ 35 | 27/ 32 | 16/ 56 |
| 86   | 27/ 33 | 27/ 32 | 30/ 34 | 24/ 34 | 35/ 27 | 08/ 50 | 30/ 47 | 28/ 33 | 24/ 24 | 02/ 26 | 20/ 30 | 05/ 30 | 08/ 50 |
| 87   | 25/ 39 | 33/ 35 | 24/ 32 | 32/ 32 | 20/ 42 | 33/ 30 | 03/ 26 | 24/ 31 | 19/ 29 | 04/ 33 | 16/ 27 | 26/ 34 | 20/ 42 |
| 88   | 05/ 25 | 26/ 30 | 19/ 27 | 25/ 32 | 26/ 36 | 25/ 45 | 29/ 33 | 17/ 25 | 02/ 35 | 25/ 22 | 26/ 41 | 24/ 33 | 25/ 45 |
| 89   | 28/ 31 | 24/ 46 | 26/ 37 |        |        |        |        |        |        |        |        |        | 24/*46 |

|           |        |        |        |        |        |        |        |        |      |       |        |        |        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|------|-------|--------|--------|--------|
| GREATEST  | 24/ 50 | 26/ 68 | WSW 58 | 26/ 52 | 16/ 56 | WSW 68 | 17/ 58 | 29/ 72 | E 47 | NE 50 | 27/ 42 | 25/ 47 | 29/ 72 |
| TOTAL OBS | 1305   | 1168   | 1292   | 1221   | 1257   | 1205   | 1201   | 1165   | 1149 | 1207  | 1209   | 1277   | 14656  |

THE PEAK WIND OF 72 FROM 29/ OCCURRED ON 08/09/72

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH  
\$THE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
 USAFETAC, ASHEVILLE NC  
 STATION NUMBER: 747900

PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS  
 FROM SUMMARY OF DAY DATA  
 STATION NAME: SHAW AFB SC  
 LST TO UTC: +05

PERIOD OF RECORD: 4701-8903  
 MONTH: ALL HOURS: ALL

| MONTH  | WIND SPEEDS IN KNOTS |      |       |       |       |       |       |       |       |       |       | MEAN WIND | MEDIAN WIND | TOTAL OBS |
|--------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------------|-----------|
|        | CALM-4               | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |           |             |           |
| JAN    | .2                   | 8.3  | 28.7  | 28.3  | 19.2  | 9.3   | 4.2   | 1.4   | .5    | .1    | .0    | 17.6      | 17.0        | 1305      |
| FEB    | .1                   | 4.2  | 21.6  | 31.4  | 24.6  | 10.3  | 3.9   | 2.5   | 1.3   | .2    | .1    | 19.2      | 18.0        | 1168      |
| MAR    | .0                   | 2.7  | 17.7  | 32.5  | 23.9  | 11.8  | 6.6   | 3.4   | 1.2   | .1    | .0    | 20.1      | 19.0        | 1292      |
| APR    | .0                   | 1.9  | 15.9  | 32.8  | 27.7  | 11.9  | 6.0   | 2.5   | 1.1   | .2    | .0    | 20.3      | 19.0        | 1221      |
| MAY    | .2                   | 3.4  | 24.7  | 36.6  | 22.3  | 7.1   | 3.5   | 1.3   | .8    | .2    | .0    | 18.3      | 17.0        | 1257      |
| JUN    | .0                   | 5.6  | 29.0  | 35.6  | 17.1  | 6.8   | 2.9   | 1.3   | 1.3   | .2    | .1    | 17.6      | 16.0        | 1205      |
| JUL    | .2                   | 6.4  | 30.5  | 31.2  | 18.3  | 6.9   | 3.7   | 1.3   | 1.0   | .4    | .0    | 17.5      | 16.0        | 1201      |
| AUG    | .3                   | 10.7 | 36.5  | 30.8  | 12.6  | 5.2   | 2.0   | .9    | .7    | .1    | .1    | 15.9      | 15.0        | 1165      |
| SEP    | .9                   | 13.7 | 36.6  | 30.7  | 13.1  | 3.2   | 1.1   | .4    | .2    | .0    | .0    | 14.9      | 14.0        | 1149      |
| OCT    | 1.0                  | 11.4 | 35.1  | 30.6  | 15.5  | 5.1   | .9    | .2    | .2    | .1    | .0    | 15.4      | 15.0        | 1207      |
| NOV    | .4                   | 12.6 | 32.2  | 27.3  | 17.2  | 6.8   | 2.4   | .9    | .2    | .0    | .0    | 16.1      | 15.0        | 1209      |
| DEC    | .5                   | 10.7 | 33.0  | 27.6  | 15.8  | 6.8   | 4.1   | 1.3   | .2    | .0    | .0    | 16.5      | 15.0        | 1277      |
| ANNUAL | .5                   | 7.6  | 28.4  | 31.3  | 19.0  | 7.6   | 3.5   | 1.5   | .7    | .1    | .0    | 17.5      | 16.0        | 14656     |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.7                  | 2.6  | 1.5   | .1    |       |       |       |       |       |       |       | 6.9        | 6.2          | 5.0            |
| 020-040                          | 6.7                  | 7.4  | 3.0   | .3    |       |       |       |       |       |       |       | 17.4       | 6.3          | 6.0            |
| 050-070                          | 3.2                  | 2.6  | 1.5   |       |       |       |       |       |       |       |       | 7.3        | 5.8          | 5.0            |
| (E) 080-100                      | 1.2                  | .2   | .1    |       |       |       |       |       |       |       |       | 1.5        | 4.1          | 4.0            |
| 110-130                          | .5                   |      |       |       |       |       |       |       |       |       |       | .5         | 2.6          | 3.0            |
| 140-160                          | .3                   |      |       |       |       |       |       |       |       |       |       | .3         | 1.7          | 2.0            |
| (S) 170-190                      | 1.6                  | .2   |       |       |       |       |       |       |       |       |       | 1.8        | 2.9          | 2.0            |
| 200-220                          | 2.0                  | 1.4  | .4    |       |       |       |       |       |       |       |       | 3.9        | 5.1          | 4.0            |
| 230-250                          | 3.1                  | 3.9  | 1.4   | .1    |       |       |       |       |       |       |       | 8.5        | 5.9          | 5.0            |
| (W) 260-280                      | 2.7                  | 6.2  | 1.9   | .1    |       |       |       |       |       |       |       | 11.0       | 6.7          | 6.0            |
| 290-310                          | 2.8                  | 2.6  | .4    | .1    |       |       |       |       |       |       |       | 5.9        | 5.1          | 5.0            |
| 320-340                          | 2.7                  | 1.5  | .8    |       |       |       |       |       |       |       |       | 4.9        | 4.8          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 30.0       | ////         | ////           |
| TOTALS                           | 29.5                 | 28.6 | 11.0  | .7    |       |       |       |       |       |       |       | 100.0      | 4.1          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 4.6                  | 3.5  | 1.9   |       | .1    |       |       |       |       |       |       | 10.2       | 5.8          | 5.0            |
| 020-040                          | 8.3                  | 7.5  | 3.5   | .4    | .1    |       |       |       |       |       |       | 19.9       | 6.2          | 5.0            |
| 050-070                          | 4.1                  | 2.8  | 1.3   | .2    |       |       |       |       |       |       |       | 8.4        | 5.9          | 5.0            |
| (E) 080-100                      | .5                   | .1   |       |       |       |       |       |       |       |       |       | .6         | 3.7          | 3.0            |
| 110-130                          | .3                   |      |       |       |       |       |       |       |       |       |       | .3         | 2.7          | 2.0            |
| 140-160                          | .3                   | .1   |       |       |       |       |       |       |       |       |       | .4         | 3.3          | 3.0            |
| (S) 170-190                      | .8                   | .8   | .1    |       |       |       |       |       |       |       |       | 1.6        | 5.1          | 5.0            |
| 200-220                          | 3.7                  | 1.8  | .3    |       |       |       |       |       |       |       |       | 5.8        | 4.3          | 3.0            |
| 230-250                          | 2.7                  | 2.9  | 1.1   |       |       |       |       |       |       |       |       | 6.7        | 5.9          | 6.0            |
| (W) 260-280                      | 3.0                  | 5.1  | 1.2   | .4    |       |       |       |       |       |       |       | 9.7        | 6.6          | 6.0            |
| 290-310                          | 4.1                  | 1.8  | .3    |       |       |       |       |       |       |       |       | 6.2        | 4.0          | 4.0            |
| 320-340                          | 2.4                  | 1.9  | .6    | .1    |       |       |       |       |       |       |       | 5.1        | 5.5          | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 25.1       | ////         | ////           |
| TOTALS                           | 34.8                 | 28.3 | 10.3  | 1.1   | .2    |       |       |       |       |       |       | 100.0      | 4.3          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 4.8                  | 4.0  | 1.1   |       |       |       |       |       |       |       |       | 9.9        | 5.5          | 5.0            |
| 020-040                          | 7.0                  | 8.2  | 2.8   | .5    | .1    |       |       |       |       |       |       | 18.6       | 6.4          | 6.0            |
| 050-070                          | 3.1                  | 3.4  | 1.8   | .1    |       |       |       |       |       |       |       | 8.5        | 6.7          | 6.0            |
| (E) 080-100                      | .6                   | .4   |       |       |       |       |       |       |       |       |       | 1.1        | 4.0          | 3.5            |
| 110-130                          | .5                   |      |       |       |       |       |       |       |       |       |       | .5         | 1.8          | 2.0            |
| 140-160                          | .2                   |      |       |       |       |       |       |       |       |       |       | .2         | 2.0          | 2.0            |
| (S) 170-190                      | 1.0                  | .5   | .1    | .1    |       |       |       |       |       |       |       | 1.7        | 5.5          | 4.0            |
| 200-220                          | 3.8                  | 2.4  | .8    |       |       |       |       |       |       |       |       | 6.9        | 5.0          | 4.0            |
| 230-250                          | 1.7                  | 3.0  | 1.1   |       |       |       |       |       |       |       |       | 5.8        | 6.4          | 6.0            |
| (W) 260-280                      | 2.7                  | 4.3  | 1.7   | .1    |       |       |       |       |       |       |       | 8.8        | 6.4          | 6.0            |
| 290-310                          | 2.8                  | 2.5  | .1    | .1    |       |       |       |       |       |       |       | 5.5        | 4.6          | 4.0            |
| 320-340                          | 2.9                  | 1.5  | .4    |       |       |       |       |       |       |       |       | 4.8        | 4.5          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 27.6       | ////         | ////           |
| TOTALS                           | 31.1                 | 30.2 | 9.9   | .9    | .1    |       |       |       |       |       |       | 100.0      | 4.2          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 3.0                                  | 4.1  | 1.7   | .4    | .2    |       |       |       |       |       |            | 9.5          | 7.1                              | 6.0   |
| 020-040                | 3.3                                  | 7.1  | 5.8   | .8    | .1    |       |       |       |       |       |            | 17.1         | 8.2                              | 8.0   |
| 050-070                | 4.1                                  | 7.2  | 4.1   | .3    |       |       |       |       |       |       |            | 15.7         | 7.3                              | 7.0   |
| (E) 080-100            | 1.8                                  | .8   | .3    |       |       |       |       |       |       |       |            | 2.9          | 4.3                              | 3.0   |
| 110-130                | 1.4                                  | .3   |       |       |       |       |       |       |       |       |            | 1.7          | 3.3                              | 3.0   |
| 140-160                | .6                                   | .3   | .1    |       |       |       |       |       |       |       |            | 1.1          | 4.3                              | 3.0   |
| (S) 170-190            | 1.7                                  | 1.4  | .3    | .1    |       |       |       |       |       |       |            | 3.5          | 5.3                              | 5.0   |
| 200-220                | 3.4                                  | 2.0  | 1.5   |       |       |       |       |       |       |       |            | 7.0          | 5.6                              | 5.0   |
| 230-250                | 1.4                                  | 4.6  | 2.7   | .2    |       |       |       |       |       |       |            | 8.9          | 8.0                              | 8.0   |
| (W) 260-280            | 2.2                                  | 4.0  | 2.8   | 1.1   | .1    |       |       |       |       |       |            | 10.1         | 8.5                              | 8.0   |
| 290-310                | 2.3                                  | 3.2  | 1.4   | .1    | .1    |       |       |       |       |       |            | 7.1          | 6.9                              | 6.0   |
| 320-340                | 1.0                                  | 1.9  | 1.4   | .1    |       |       |       |       |       |       |            | 4.4          | 7.6                              | 8.0   |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 11.0         | //////////////////////////////// |       |
| TOTALS                 | 26.2                                 | 36.9 | 22.1  | 3.1   | .5    |       |       |       |       |       |            | 100.0        | 6.4                              | 7.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE C

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.9                  | 4.3  | 1.7   | .5    |       |       |       |       |       |       |       | 9.5        | 7.1          | 7.0            |
| 020-040                          | 2.9                  | 8.3  | 4.3   | .5    |       |       |       |       |       |       |       | 16.0       | 7.7          | 8.0            |
| 050-070                          | 3.5                  | 5.2  | 1.7   | .3    |       |       |       |       |       |       |       | 10.8       | 6.5          | 6.0            |
| (E) 080-100                      | 2.7                  | 1.4  | .1    |       |       |       |       |       |       |       |       | 4.2        | 4.3          | 4.0            |
| 110-130                          | 1.8                  | .4   |       |       |       |       |       |       |       |       |       | 2.3        | 3.1          | 2.0            |
| 140-160                          | 1.8                  | .5   |       |       |       |       |       |       |       |       |       | 2.4        | 3.5          | 3.0            |
| (S) 170-190                      | 1.9                  | 1.4  | .3    |       | .2    | .1    |       |       |       |       |       | 4.0        | 6.4          | 5.0            |
| 200-220                          | 1.6                  | 4.1  | 3.1   | .4    |       |       |       |       |       |       |       | 9.2        | 7.9          | 8.0            |
| 230-250                          | 1.6                  | 5.5  | 4.3   | .6    | .1    |       |       |       |       |       |       | 12.2       | 8.6          | 8.0            |
| (W) 20-280                       | 2.3                  | 4.2  | 2.9   | 1.1   | .1    |       |       |       |       |       |       | 10.5       | 8.3          | 8.0            |
| 290-310                          | 1.4                  | 2.3  | 2.6   | .5    |       |       |       |       |       |       |       | 6.8        | 8.6          | 8.0            |
| 320-340                          | 2.2                  | 4.1  | 1.8   | .1    |       |       |       |       |       |       |       | 8.2        | 6.8          | 7.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 4.1        | ////         | ////           |
| TOTALS                           | 26.6                 | 41.7 | 22.8  | 4.0   | .4    | .1    |       |       |       |       |       | 100.0      | 7.0          | 7.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JAN HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |  |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|--|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |  |
| (N) 350-010                      | 1.9                  | 3.7  | 1.9   | .1    |       |       |       |       |       |       |       | 7.6        | 6.7          | 6.0            |  |
| 020-040                          | 3.9                  | 6.6  | 3.0   | .5    |       |       |       |       |       |       |       | 14.0       | 7.1          | 6.5            |  |
| 050-070                          | 3.4                  | 5.3  | 1.2   | .1    |       |       |       |       |       |       |       | 10.0       | 6.2          | 6.0            |  |
| (E) 080-100                      | 2.0                  | 1.1  |       |       |       |       |       |       |       |       |       | 3.1        | 3.9          | 4.0            |  |
| 110-130                          | 1.4                  | .5   |       |       |       |       |       |       |       |       |       | 1.9        | 3.4          | 3.5            |  |
| 140-160                          | 1.3                  | .9   |       |       |       |       |       |       |       |       |       | 2.2        | 3.8          | 3.5            |  |
| (S) 170-190                      | 2.3                  | 2.2  | .2    | .1    | .2    |       |       |       |       |       |       | 4.9        | 5.8          | 5.0            |  |
| 200-220                          | 1.9                  | 4.3  | 1.8   | .1    |       |       |       |       |       |       |       | 8.2        | 7.1          | 7.0            |  |
| 230-250                          | 1.9                  | 5.2  | 4.3   | .8    |       |       |       |       |       |       |       | 12.2       | 8.6          | 9.0            |  |
| (W) 260-280                      | 4.1                  | 3.9  | 3.9   | .8    | .5    |       |       |       |       |       |       | 13.1       | 8.3          | 8.0            |  |
| 290-310                          | 2.8                  | 3.7  | 3.0   | .2    | .1    |       |       |       |       |       |       | 9.8        | 7.4          | 7.0            |  |
| 320-340                          | 2.3                  | 3.1  | 1.1   |       |       |       |       |       |       |       |       | 6.5        | 6.3          | 6.0            |  |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |  |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 6.6        | ////         | ////           |  |
| TOTALS                           | 29.2                 | 40.5 | 20.4  | 2.7   | .8    |       |       |       |       |       |       | 100.0      | 6.5          | 6.0            |  |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |  |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.9                  | 3.5  | .6    |       |       |       |       |       |       |       |            | 7.1          | 5.5            | 5.0   |
| 020-040                          | 5.6                  | 6.2  | 1.6   | .3    |       |       |       |       |       |       |            | 13.8         | 5.9            | 5.0   |
| 050-070                          | 3.3                  | 2.6  | .9    | .3    |       |       |       |       |       |       |            | 7.1          | 5.6            | 5.0   |
| (E) 080-100                      | 1.0                  | .6   |       |       |       |       |       |       |       |       |            | 1.6          | 3.9            | 3.0   |
| 110-130                          | .5                   | .3   |       |       |       |       |       |       |       |       |            | .9           | 4.0            | 3.0   |
| 140-160                          | 2.0                  | .1   |       |       |       |       |       |       |       |       |            | 2.2          | 2.3            | 2.0   |
| (S) 170-190                      | 2.0                  | .6   |       | .1    |       |       |       |       |       |       |            | 2.8          | 4.0            | 4.0   |
| 200-220                          | 4.4                  | 1.5  | .3    |       |       |       |       |       |       |       |            | 6.2          | 3.9            | 3.0   |
| 230-250                          | 3.0                  | 3.7  | 1.2   |       | .1    |       |       |       |       |       |            | 8.0          | 6.3            | 5.0   |
| (W) 260-280                      | 5.2                  | 3.2  | 2.9   | .5    | .1    |       |       |       |       |       |            | 11.9         | 6.7            | 6.0   |
| 290-310                          | 3.3                  | 1.5  | .8    | .3    | .1    |       |       |       |       |       |            | 6.0          | 5.7            | 4.0   |
| 320-340                          | 2.9                  | 1.5  |       |       |       |       |       |       |       |       |            | 4.4          | 3.8            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 28.1         | ////           | ////  |
| TOTALS                           | 36.1                 | 25.3 | 8.3   | 1.5   | .3    |       |       |       |       |       |            | 100.0        | 3.9            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JAN HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                      | 3.5                  | 3.2  | .8    | .1    |       |       |       |       |       |       |       | 7.6        | 5.4              | 5.0            |
| 020-040                          | 7.0                  | 5.3  | 2.2   | .2    |       |       |       |       |       |       |       | 14.6       | 5.8              | 5.0            |
| 050-070                          | 4.4                  | 2.6  | 1.4   | .1    | .1    |       |       |       |       |       |       | 8.6        | 5.8              | 4.0            |
| (E) 080-100                      | .9                   | .4   |       |       |       |       |       |       |       |       |       | 1.3        | 4.2              | 4.0            |
| 110-130                          | .6                   | .2   |       |       |       |       |       |       |       |       |       | .9         | 3.3              | 3.0            |
| 140-160                          | .3                   | .2   |       |       |       |       |       |       |       |       |       | .5         | 4.2              | 4.0            |
| (S) 170-190                      | 1.7                  | 1.2  |       |       |       |       |       |       |       |       |       | 2.9        | 4.5              | 4.0            |
| 200-220                          | 4.3                  | .5   | .2    |       |       |       |       |       |       |       |       | 5.1        | 3.2              | 2.0            |
| 230-250                          | 2.6                  | 4.5  | 2.4   | .1    |       |       |       |       |       |       |       | 9.6        | 6.8              | 6.0            |
| (W) 260-280                      | 2.7                  | 5.4  | 1.7   | .4    |       |       |       |       |       |       |       | 10.2       | 7.0              | 7.0            |
| 290-310                          | 1.8                  | 1.1  | 1.1   | .6    | .1    |       |       |       |       |       |       | 4.7        | 7.9              | 6.0            |
| 320-340                          | 1.9                  | 1.2  |       |       |       |       |       |       |       |       |       | 3.1        | 4.2              | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 30.9       | //////////////// |                |
| TOTALS                           | 31.7                 | 25.8 | 9.8   | 1.5   | .2    |       |       |       |       |       |       | 100.0      | 4.0              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                       | 3.3                  | 3.6  | 1.4   | .2    | .0    |       |       |       |       |       |            | 8.5          | 6.2            | 5.0   |
| 020-040                           | 5.6                  | 7.1  | 3.3   | .5    | .0    |       |       |       |       |       |            | 16.4         | 6.7            | 6.0   |
| 050-070                           | 3.7                  | 4.0  | 1.7   | .2    | .0    |       |       |       |       |       |            | 9.5          | 6.4            | 6.0   |
| (E) 080-100                       | 1.3                  | .6   | .1    |       |       |       |       |       |       |       |            | 2.0          | 4.1            | 4.0   |
| 110-130                           | .9                   | .2   |       |       |       |       |       |       |       |       |            | 1.1          | 3.2            | 3.0   |
| 140-160                           | .9                   | .3   | .0    |       |       |       |       |       |       |       |            | 1.2          | 3.3            | 2.0   |
| (S) 170-190                       | 1.6                  | 1.0  | .1    | .1    | .1    | .0    |       |       |       |       |            | 2.9          | 5.2            | 4.0   |
| 200-220                           | 3.1                  | 2.3  | 1.1   | .1    |       |       |       |       |       |       |            | 6.5          | 5.5            | 5.0   |
| 230-250                           | 2.3                  | 4.2  | 2.3   | .2    | .0    |       |       |       |       |       |            | 9.0          | 7.3            | 7.0   |
| (W) 260-280                       | 3.1                  | 4.5  | 2.4   | .6    | .1    |       |       |       |       |       |            | 10.7         | 7.3            | 6.0   |
| 290-310                           | 2.7                  | 2.3  | 1.2   | .3    | .1    |       |       |       |       |       |            | 6.5          | 6.4            | 6.0   |
| 320-340                           | 2.3                  | 2.1  | .8    | .0    |       |       |       |       |       |       |            | 5.2          | 5.6            | 5.0   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |            | 20.4         | ////           | ////  |
| TOTALS                            | 30.8                 | 32.2 | 14.4  | 2.2   | .3    |       |       |       |       |       |            | 100.0        | 5.0            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 7440 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JAN HOURS: ALL

.....  
 CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
 .....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 6.0                                  | 8.5  | 1.6   | .2    | .1    |       |       |       |       |       |            | 16.4         | 5.9                              | 5.0   |
| 020-040                | 4.6                                  | 14.4 | 6.1   | .7    | .2    |       |       |       |       |       |            | 26.0         | 7.7                              | 8.0   |
| 050-070                | 3.0                                  | 7.3  | 3.9   | .7    | .1    |       |       |       |       |       |            | 15.0         | 7.9                              | 8.0   |
| (E) 080-100            | 1.9                                  | 1.1  |       |       |       |       |       |       |       |       |            | 3.0          | 4.1                              | 4.0   |
| 110-130                | .7                                   | .2   |       |       |       |       |       |       |       |       |            | .9           | 3.7                              | 3.0   |
| 140-160                | .8                                   | .2   |       |       |       |       |       |       |       |       |            | 1.0          | 2.8                              | 2.0   |
| (S) 170-190            | 1.1                                  | 1.1  | .2    | .1    |       |       |       |       |       |       |            | 2.4          | 5.6                              | 5.0   |
| 200-220                | 2.1                                  | 1.7  | .8    |       |       |       |       |       |       |       |            | 4.6          | 5.7                              | 5.5   |
| 230-250                | 1.8                                  | 3.0  | .7    | .1    |       |       |       |       |       |       |            | 5.6          | 6.5                              | 6.0   |
| (W) 260-280            | 1.3                                  | 2.9  | .3    | .1    |       |       |       |       |       |       |            | 4.6          | 6.1                              | 6.0   |
| 290-310                | 1.6                                  | 2.7  | .8    |       |       |       |       |       |       |       |            | 5.2          | 6.0                              | 6.0   |
| 320-340                | 2.8                                  | 3.0  | .7    |       |       |       |       |       |       |       |            | 6.5          | 5.5                              | 5.0   |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 9.0          | //////////////////////////////// |       |
| TOTALS                 | 27.7                                 | 46.1 | 15.1  | 1.9   | .4    |       |       |       |       |       |            | 100.0        | 6.0                              | 6.0   |

TOTAL NUMBER OF OBSERVATIONS 1217

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                      | 4.5                                  | 2.9  | .5    |       |       |       |       |       |       |       |            | 7.9          | 4.6                              | 4.0   |
| 020-040                          | 7.2                                  | 4.9  | 2.1   | .5    | .2    |       |       |       |       |       |            | 15.0         | 5.0                              | 5.0   |
| 050-070                          | 4.8                                  | 4.2  | 1.6   | .1    |       |       |       |       |       |       |            | 10.8         | 5.6                              | 5.0   |
| (E) 080-100                      | 1.3                                  | .5   | .2    |       |       |       |       |       |       |       |            | 2.0          | 4.4                              | 3.0   |
| 110-130                          | .4                                   | .4   |       |       |       |       |       |       |       |       |            | .7           | 5.5                              | 5.5   |
| 140-160                          | .7                                   | .2   |       |       |       |       |       |       |       |       |            | .9           | 3.4                              | 3.0   |
| (S) 170-190                      | 1.4                                  | .8   | .2    | .1    | .4    |       |       |       |       |       |            | 2.9          | 7.3                              | 5.0   |
| 200-220                          | 4.6                                  | 2.8  |       |       |       |       |       |       |       |       |            | 7.4          | 4.2                              | 4.0   |
| 230-250                          | 2.5                                  | 3.1  | 1.1   | .2    |       |       |       |       |       |       |            | 6.8          | 6.1                              | 6.0   |
| (W) 260-280                      | 2.4                                  | 2.9  | 1.1   | .1    | .1    |       |       |       |       |       |            | 6.6          | 6.6                              | 6.0   |
| 290-310                          | 2.0                                  | 1.4  | .7    | .1    | .2    |       |       |       |       |       |            | 4.5          | 7.1                              | 5.0   |
| 320-340                          | 2.4                                  | 2.5  | .4    | .1    |       |       |       |       |       |       |            | 5.3          | 5.3                              | 5.0   |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 29.1         | //////////////////////////////// |       |
| TOTALS                           | 34.2                                 | 26.6 | 7.9   | 1.2   | .9    |       |       |       |       |       |            | 100.0        | 4.0                              | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 849 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 5.1                                  | 3.5  | 1.1   |       |       |       |       |       |       |       |       | 9.7        | 5.0                              | 4.0            |
| 020-040                          | 8.0                                  | 6.9  | 1.9   | .2    | .2    | .1    |       |       |       |       |       | 17.4       | 6.1                              | 5.0            |
| 050-070                          | 4.6                                  | 3.5  | 1.3   | .4    | .1    |       |       |       |       |       |       | 9.9        | 6.1                              | 5.0            |
| (E) 080-100                      | .7                                   | .2   |       |       |       |       |       |       |       |       |       | .9         | 3.9                              | 4.0            |
| 110-130                          | .1                                   |      | .1    |       |       |       |       |       |       |       |       | .2         | 6.0                              | 6.0            |
| 140-160                          | .6                                   | .4   | .1    |       |       |       |       |       |       |       |       | 1.1        | 5.2                              | 4.0            |
| (S) 170-190                      | 1.3                                  | .7   |       |       | .1    |       |       |       |       |       |       | 2.1        | 4.7                              | 4.0            |
| 200-220                          | 3.8                                  | 2.4  | .2    |       |       |       |       |       |       |       |       | 6.4        | 4.4                              | 4.0            |
| 230-250                          | 3.2                                  | 1.9  | .8    | .2    | .1    |       |       |       |       |       |       | 6.2        | 5.8                              | 4.0            |
| (W) 260-280                      | 2.5                                  | 3.5  | 1.8   | .2    |       |       |       |       |       |       |       | 8.0        | 6.7                              | 6.0            |
| 290-310                          | 2.4                                  | 2.0  | 1.4   | .2    |       |       |       |       |       |       |       | 6.0        | 6.8                              | 6.0            |
| 320-340                          | 1.4                                  | 2.2  | .5    |       |       |       |       |       |       |       |       | 4.1        | 5.4                              | 5.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 27.9       | //////////////////////////////// |                |
| TOTALS                           | 33.7                                 | 27.2 | 9.2   | 1.2   | .5    | .1    |       |       |       |       |       | 100.0      | 4.2                              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 849 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE-FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 3.3                  | 2.7  | .6    | .1    |       |       |       |       |       |       |            | 6.7          | 5.1            | 5.0   |
| 020-040                          | 9.0                  | 6.4  | 3.5   | .5    | .1    |       |       |       |       |       |            | 19.4         | 6.1            | 5.0   |
| 050-070                          | 4.2                  | 4.8  | 1.5   | .4    | .1    |       |       |       |       |       |            | 11.1         | 6.2            | 5.5   |
| (E) 080-100                      | 1.3                  | .6   | .4    | .1    |       |       |       |       |       |       |            | 2.4          | 5.8            | 4.0   |
| 110-130                          | .2                   | .4   |       |       |       |       |       |       |       |       |            | .6           | 3.8            | 5.0   |
| 140-160                          | .7                   |      | .4    |       |       |       |       |       |       |       |            | 1.1          | 4.9            | 2.0   |
| (S) 170-190                      | 1.5                  | .5   | .2    |       |       |       |       |       |       |       |            | 2.2          | 4.6            | 4.0   |
| 200-220                          | 3.3                  | 2.1  | .6    |       |       |       |       |       |       |       |            | 6.0          | 5.0            | 4.0   |
| 230-250                          | 1.5                  | 2.2  | .9    | .2    | .2    | .2    |       |       |       |       |            | 5.4          | 8.5            | 7.0   |
| (W) 260-280                      | 2.1                  | 3.1  | 1.4   | .1    |       |       |       |       |       |       |            | 6.7          | 6.9            | 6.0   |
| 290-310                          | 2.7                  | 3.2  | .8    | .2    |       |       |       |       |       |       |            | 6.9          | 5.9            | 5.0   |
| 320-340                          | 2.8                  | 2.1  | .4    | .1    |       |       |       |       |       |       |            | 5.4          | 5.0            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 26.0         | ////           | ////  |
| TOTALS                           | 32.6                 | 28.1 | 10.7  | 1.7   | .4    | .2    |       |       |       |       |            | 100.0        | 4.4            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 1.1                  | 1.9  | 1.5   | .2    |       |       |       |       |       |       |            | 4.7          | 8.1            | 7.0   |
| 020-040                          | 3.7                  | 6.7  | 5.8   |       | .1    |       |       |       |       |       |            | 16.3         | 7.9            | 8.0   |
| 050-070                          | 5.2                  | 8.4  | 4.8   | .5    | .1    |       |       |       |       |       |            | 19.0         | 7.2            | 7.0   |
| (E) 080-100                      | 2.7                  | 2.2  | .5    | .4    |       |       |       |       |       |       |            | 5.8          | 5.7            | 6.0   |
| 110-130                          | 1.3                  | 1.1  | .2    | .1    |       |       |       |       |       |       |            | 2.7          | 5.6            | 5.0   |
| 140-160                          | 1.5                  | .9   | .1    |       |       |       |       |       |       |       |            | 2.6          | 4.3            | 4.0   |
| (S) 170-190                      | 1.9                  | 1.5  | .5    | .1    |       |       |       |       |       |       |            | 4.0          | 5.5            | 5.0   |
| 200-220                          | 1.4                  | 3.9  | 2.2   |       |       |       |       |       |       |       |            | 7.5          | 7.4            | 7.0   |
| 230-250                          | 2.1                  | 4.1  | 2.9   | .5    | .6    |       |       |       |       |       |            | 10.2         | 8.3            | 8.0   |
| (W) 260-280                      | 1.2                  | 4.4  | 3.4   | .5    | .1    |       |       |       |       |       |            | 9.5          | 9.0            | 8.0   |
| 290-310                          | 2.1                  | 2.6  | 1.1   | .6    | .1    |       |       |       |       |       |            | 6.5          | 7.4            | 7.0   |
| 320-340                          | .9                   | 2.6  | 1.6   | .1    |       |       |       |       |       |       |            | 5.3          | 8.0            | 8.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 5.9          | ////           | ////  |
| TOTALS                           | 25.1                 | 40.3 | 24.6  | 3.0   | 1.0   |       |       |       |       |       |            | 100.0        | 7.0            | 7.0   |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.4                  | 2.6  | 1.8   | .2    | .1    |       |       |       |       |       |            | 7.1          | 7.2            | 7.0   |
| 020-040                          | 3.4                  | 5.4  | 4.0   | .1    |       |       |       |       |       |       |            | 13.0         | 7.4            | 8.0   |
| 050-070                          | 3.9                  | 5.7  | 2.7   | .1    | .1    |       |       |       |       |       |            | 12.5         | 7.1            | 7.0   |
| (E) 080-100                      | 1.8                  | 1.9  | .7    |       |       |       |       |       |       |       |            | 4.4          | 5.8            | 5.0   |
| 110-130                          | 1.8                  | .9   | .5    |       |       |       |       |       |       |       |            | 3.2          | 4.8            | 4.0   |
| 140-160                          | 1.8                  | 1.8  | .7    | .4    |       |       |       |       |       |       |            | 4.6          | 6.7            | 6.0   |
| (S) 170-190                      | 2.0                  | 2.1  | 2.0   | .2    |       |       |       |       |       |       |            | 6.4          | 7.3            | 7.5   |
| 200-220                          | 1.3                  | 2.8  | 4.0   | .4    |       |       |       |       |       |       |            | 8.5          | 8.8            | 10.0  |
| 230-250                          | 1.3                  | 3.5  | 5.4   | .9    | .5    |       |       |       |       |       |            | 11.7         | 9.8            | 10.0  |
| (W) 260-280                      | 2.1                  | 4.5  | 4.0   | 1.4   | .2    |       |       |       |       |       |            | 12.2         | 9.2            | 9.0   |
| 290-310                          | 1.2                  | 4.2  | 2.0   | .4    |       |       |       |       |       |       |            | 7.8          | 7.5            | 7.0   |
| 320-340                          | 1.1                  | 3.7  | 1.8   | .4    |       |       |       |       |       |       |            | 6.8          | 8.2            | 7.5   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 2.0          | ////           | ////  |
| TOTALS                           | 24.1                 | 39.1 | 29.6  | 4.5   | .9    |       |       |       |       |       |            | 100.0        | 7.7            | 8.0   |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                      | 1.3                  | 3.3  | 1.1   | .2    |       |       |       |       |       |       |       | 5.9        | 7.4              | 8.0            |
| 020-040                          | 2.1                  | 4.2  | 3.7   | .4    |       |       |       |       |       |       |       | 10.4       | 8.0              | 8.0            |
| 050-070                          | 3.3                  | 5.2  | 2.0   | .1    |       |       |       |       |       |       |       | 10.6       | 6.8              | 6.0            |
| (E) 080-100                      | 2.1                  | 1.4  | .5    |       |       |       |       |       |       |       |       | 4.0        | 5.2              | 4.0            |
| 110-130                          | 2.2                  | .8   | .5    | .1    |       |       |       |       |       |       |       | 3.7        | 5.1              | 4.0            |
| 140-160                          | 1.8                  | 2.0  | .7    | .1    | .1    |       |       |       |       |       |       | 4.7        | 6.9              | 7.0            |
| (S) 170-190                      | 2.4                  | 2.2  | 1.8   | .2    | .2    | .1    |       |       |       |       |       | 6.9        | 7.8              | 7.0            |
| 200-220                          | 2.0                  | 2.8  | 3.3   | .4    |       |       |       |       |       |       |       | 8.5        | 8.2              | 8.0            |
| 230-250                          | 2.1                  | 3.8  | 3.7   | 1.3   | .4    | .2    |       |       |       |       |       | 11.4       | 9.5              | 9.0            |
| (W) 260-280                      | 2.6                  | 4.0  | 4.7   | .8    | .6    |       |       |       |       |       |       | 12.7       | 9.1              | 9.0            |
| 290-310                          | 2.2                  | 3.2  | 3.4   | .9    |       |       |       |       |       |       |       | 9.8        | 8.4              | 8.0            |
| 320-340                          | 2.8                  | 4.1  | 1.6   | .5    |       |       |       |       |       |       |       | 9.1        | 6.9              | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 2.4        | //////////////// |                |
| TOTALS                           | 26.9                 | 37.0 | 27.0  | 5.0   | 1.3   | .3    |       |       |       |       |       | 100.0      | 7.6              | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.9                  | 3.8  | 1.2   | .1    |       |       |       |       |       |       |            | 8.0          | 5.8            | 5.0   |
| 020-040                          | 6.2                  | 5.4  | 1.5   | .7    |       |       |       |       |       |       |            | 13.9         | 5.8            | 5.0   |
| 050-070                          | 4.7                  | 3.1  | 1.3   | .1    |       |       |       |       |       |       |            | 9.2          | 5.4            | 4.0   |
| (E) 080-100                      | .8                   | .6   | .2    |       |       |       |       |       |       |       |            | 1.6          | 5.1            | 4.5   |
| 110-130                          | 1.2                  | .6   | .4    |       |       |       |       |       |       |       |            | 2.1          | 4.9            | 4.0   |
| 140-160                          | 2.4                  | 1.5  | .2    |       | .4    |       |       |       |       |       |            | 4.5          | 5.8            | 4.0   |
| (S) 170-190                      | 2.7                  | 1.8  | .4    | .2    |       |       |       |       |       |       |            | 5.1          | 4.9            | 4.0   |
| 200-220                          | 4.5                  | 2.4  | .1    |       |       |       |       |       |       |       |            | 6.9          | 4.3            | 4.0   |
| 230-250                          | 2.5                  | 2.8  | .9    | .4    | .1    |       |       |       |       |       |            | 6.7          | 6.6            | 6.0   |
| (W) 260-280                      | 4.1                  | 3.5  | 2.0   | .6    | .1    |       |       |       |       |       |            | 10.4         | 6.8            | 6.0   |
| 290-310                          | 2.5                  | 1.5  | .5    | .2    | .2    |       |       |       |       |       |            | 4.9          | 6.2            | 4.5   |
| 320-340                          | 3.7                  | 2.5  | .7    |       |       |       |       |       |       |       |            | 6.8          | 5.0            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 19.8         | ////           | ////  |
| TOTALS                           | 38.2                 | 29.5 | 9.4   | 2.3   | .8    |       |       |       |       |       |            | 100.0        | 4.5            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.9                  | 2.8  | .9    | .1    |       |       |       |       |       |       |       | 7.8        | 5.3          | 4.5            |
| 020-040                          | 7.5                  | 5.1  | 2.1   | .5    | .2    |       |       |       |       |       |       | 15.4       | 5.9          | 5.0            |
| 050-070                          | 4.2                  | 3.5  | 1.3   | .6    |       |       |       |       |       |       |       | 9.7        | 6.1          | 5.0            |
| (E) 080-100                      | 1.8                  | .8   |       |       |       |       |       |       |       |       |       | 2.6        | 3.8          | 3.5            |
| 110-130                          | 1.1                  | .6   | .4    |       |       |       |       |       |       |       |       | 2.0        | 5.2          | 4.0            |
| 140-160                          | .9                   | .8   |       |       |       |       |       |       |       |       |       | 1.8        | 4.9          | 4.0            |
| (S) 170-190                      | 2.6                  | 1.6  | .6    | .4    | .2    |       |       |       |       |       |       | 5.4        | 6.4          | 5.0            |
| 200-220                          | 5.7                  | 1.3  | .1    |       |       |       |       |       |       |       |       | 7.1        | 3.3          | 3.0            |
| 230-250                          | 1.9                  | 2.2  | .6    | .2    | .1    |       |       |       |       |       |       | 5.1        | 6.6          | 6.0            |
| (W) 260-280                      | 1.3                  | 3.7  | 1.4   | .1    | .1    |       |       |       |       |       |       | 6.6        | 7.4          | 6.0            |
| 290-310                          | 2.6                  | .9   | .8    | .4    | .1    |       |       |       |       |       |       | 4.8        | 6.6          | 4.0            |
| 320-340                          | 2.6                  | .8   | .4    | .2    |       |       |       |       |       |       |       | 4.0        | 5.1          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 27.8       | ////         | ////           |
| TOTALS                           | 36.1                 | 24.1 | 8.6   | 2.5   | .7    |       |       |       |       |       |       | 100.0      | 4.1          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 849 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                       | 3.0                  | 2.9  | 1.1   | .1    | .0    |       |       |       |       |       |            | 7.2          | 5.9            | 5.0   |
| 020-040                           | 5.9                  | 5.6  | 3.1   | .4    | .1    | .0    |       |       |       |       |            | 15.1         | 6.5            | 6.0   |
| 050-070                           | 4.4                  | 4.8  | 2.1   | .3    | .1    |       |       |       |       |       |            | 11.6         | 6.4            | 6.0   |
| (E) 080-100                       | 1.6                  | 1.0  | .3    | .1    |       |       |       |       |       |       |            | 3.0          | 5.2            | 4.0   |
| 110-130                           | 1.0                  | .6   | .3    | .0    |       |       |       |       |       |       |            | 1.9          | 5.1            | 4.0   |
| 140-160                           | 1.3                  | 1.0  | .3    | .1    | .1    |       |       |       |       |       |            | 2.7          | 5.8            | 5.0   |
| (S) 170-190                       | 2.0                  | 1.4  | .7    | .2    | .1    | .0    |       |       |       |       |            | 4.4          | 6.4            | 5.0   |
| 200-220                           | 3.3                  | 2.6  | 1.3   | .1    |       |       |       |       |       |       |            | 7.3          | 5.9            | 5.0   |
| 230-250                           | 2.1                  | 3.0  | 2.0   | .5    | .3    | .1    |       |       |       |       |            | 8.0          | 8.0            | 7.0   |
| (W) 260-280                       | 2.3                  | 3.7  | 2.5   | .5    | .2    |       |       |       |       |       |            | 9.1          | 7.9            | 8.0   |
| 290-310                           | 2.2                  | 2.4  | 1.3   | .4    | .1    |       |       |       |       |       |            | 6.4          | 7.1            | 6.0   |
| 320-340                           | 2.2                  | 2.6  | .9    | .2    |       |       |       |       |       |       |            | 5.9          | 6.2            | 6.0   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |            | 17.6         | ////           | ////  |
| TOTALS                            | 31.3                 | 31.6 | 15.9  | 2.9   | 1.0   | .1    |       |       |       |       |            | 100.0        | 5.4            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 6792 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: ALL

.....  
CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
.....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 3.8                                  | 5.9  | 1.2   | .5    |       |       |       |       |       |       |            | 11.4         | 6.5                              | 6.0   |
| 020-040                | 5.0                                  | 8.0  | 8.8   | 1.3   | .7    | .1    |       |       |       |       |            | 23.9         | 8.8                              | 9.0   |
| 050-070                | 5.4                                  | 6.9  | 4.2   | 1.3   | .4    |       |       |       |       |       |            | 18.3         | 7.8                              | 7.0   |
| (E) 080-100            | 1.8                                  | 1.0  | .2    | .1    |       |       |       |       |       |       |            | 3.1          | 5.0                              | 4.0   |
| 110-130                | .7                                   | .6   | .5    |       |       |       |       |       |       |       |            | 1.8          | 6.2                              | 5.5   |
| 140-160                | .9                                   | 1.5  | .6    |       |       |       |       |       |       |       |            | 3.0          | 6.3                              | 7.0   |
| (S) 170-190            | 1.6                                  | 1.2  | .7    | .2    |       |       |       |       |       |       |            | 3.7          | 6.1                              | 5.0   |
| 200-220                | 1.8                                  | 2.4  | .6    | .1    |       |       |       |       |       |       |            | 5.0          | 6.1                              | 6.0   |
| 230-250                | 1.6                                  | 1.9  | 1.1   | .3    |       |       |       |       |       |       |            | 4.9          | 6.7                              | 6.0   |
| (W) 260-280            | 1.9                                  | 2.1  | .9    |       |       |       |       |       |       |       |            | 5.0          | 6.4                              | 6.0   |
| 290-310                | 1.8                                  | 3.0  | .6    |       | .1    |       |       |       |       |       |            | 5.4          | 6.3                              | 6.0   |
| 320-340                | 1.8                                  | 3.0  | 1.0   | .4    |       |       |       |       |       |       |            | 6.2          | 6.7                              | 6.0   |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 8.2          | //////////////////////////////// |       |
| TOTALS                 | 28.1                                 | 37.5 | 20.4  | 4.2   | 1.2   | .1    |       |       |       |       |            | 100.0        | 6.7                              | 7.0   |

TOTAL NUMBER OF OBSERVATIONS 1083

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.5                  | 3.3  | 1.6   |       |       |       |       |       |       |       |            | 7.4          | 6.3            | 6.0   |
| 020-040                | 5.2                  | 5.1  | 2.5   | .3    |       |       |       |       |       |       |            | 13.0         | 6.3            | 6.0   |
| 050-070                | 2.5                  | 1.8  | .9    |       |       |       |       |       |       |       |            | 5.2          | 5.8            | 5.0   |
| (E) 080-100            | 1.8                  | 1.3  | .3    |       |       |       |       |       |       |       |            | 3.4          | 5.2            | 4.0   |
| 110-130                | 1.2                  | 1.3  |       |       |       |       |       |       |       |       |            | 2.5          | 4.8            | 5.0   |
| 140-160                | 1.0                  | .6   | .1    |       |       |       |       |       |       |       |            | 1.7          | 4.7            | 4.0   |
| (S) 170-190            | 2.5                  | 2.6  | 1.4   | .2    |       |       |       |       |       |       |            | 6.7          | 6.6            | 6.0   |
| 200-220                | 4.5                  | 2.9  | .8    | .2    |       |       |       |       |       |       |            | 8.4          | 5.3            | 4.0   |
| 230-250                | 2.5                  | 1.9  | 1.0   | .2    |       |       |       |       |       |       |            | 5.6          | 5.9            | 5.5   |
| (W) 260-280            | 1.8                  | 2.8  | .9    |       |       |       |       |       |       |       |            | 5.5          | 6.3            | 6.0   |
| 290-310                | 1.8                  | 3.2  | .4    |       |       |       |       |       |       |       |            | 5.5          | 5.5            | 5.0   |
| 320-340                | 2.5                  | 1.4  | .3    |       |       |       |       |       |       |       |            | 4.2          | 5.0            | 4.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 31.0         | ////////       |       |
| TOTALS                 | 29.8                 | 28.2 | 10.2  | .9    |       |       |       |       |       |       |            | 100.0        | 4.0            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.1                  | 2.3  | 1.3   | .1    |       |       |       |       |       |       |       | 6.8        | 5.9          | 5.0            |
| 020-040                          | 8.2                  | 6.1  | 2.9   | .2    |       |       |       |       |       |       |       | 17.4       | 5.8          | 5.0            |
| 050-070                          | 3.1                  | 3.8  | 1.1   |       |       |       |       |       |       |       |       | 8.0        | 5.9          | 6.0            |
| (E) 080-100                      | 1.3                  | 1.2  | .2    |       |       |       |       |       |       |       |       | 2.7        | 5.2          | 5.0            |
| 110-130                          | .8                   | .8   | .1    |       |       |       |       |       |       |       |       | 1.6        | 4.7          | 5.0            |
| 140-160                          | .4                   | .3   |       |       |       |       |       |       |       |       |       | .8         | 4.3          | 4.0            |
| (S) 170-190                      | 2.3                  | 1.8  | 1.0   | .1    |       |       |       |       |       |       |       | 5.2        | 5.9          | 5.0            |
| 200-220                          | 4.3                  | 4.0  | 1.0   |       | .1    |       |       |       |       |       |       | 9.4        | 5.4          | 5.0            |
| 230-250                          | 3.0                  | 2.2  | 1.1   | .2    | .3    |       |       |       |       |       |       | 6.8        | 6.8          | 5.0            |
| (W) 260-280                      | 2.2                  | 2.8  | .5    |       | .1    |       |       |       |       |       |       | 5.6        | 5.9          | 6.0            |
| 290-310                          | 3.0                  | 2.9  | .2    |       |       |       |       |       |       |       |       | 6.1        | 4.9          | 5.0            |
| 320-340                          | 3.1                  | 2.3  | .1    |       |       |       |       |       |       |       |       | 5.5        | 4.5          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 24.3       | ////         | ////           |
| TOTALS                           | 34.8                 | 30.5 | 9.5   | .6    | .5    |       |       |       |       |       |       | 100.0      | 4.3          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.6                  | 3.4  | 1.6   |       |       |       |       |       |       |       |            | 7.6          | 6.4            | 6.0   |
| 020-040                          | 6.5                  | 5.9  | 3.5   | .4    |       |       |       |       |       |       |            | 16.3         | 6.6            | 6.0   |
| 050-070                          | 4.0                  | 6.3  | 1.1   | .2    |       |       |       |       |       |       |            | 11.6         | 6.0            | 6.0   |
| (E) 080-100                      | 1.2                  | .6   | .4    |       |       |       |       |       |       |       |            | 2.3          | 5.8            | 4.0   |
| 110-130                          | .5                   | .5   | .3    |       |       |       |       |       |       |       |            | 1.4          | 5.8            | 6.0   |
| 140-160                          | .6                   | .6   | .3    |       |       |       |       |       |       |       |            | 1.6          | 6.2            | 5.0   |
| (S) 170-190                      | 2.2                  | 1.6  | .3    | .2    | .1    |       |       |       |       |       |            | 4.4          | 5.8            | 5.0   |
| 200-220                          | 1.9                  | 3.3  | .5    | .2    |       |       |       |       |       |       |            | 6.0          | 6.2            | 6.0   |
| 230-250                          | 2.0                  | 2.6  | 1.7   | .3    | .3    |       |       |       |       |       |            | 7.0          | 7.7            | 8.0   |
| (W) 260-280                      | 3.1                  | 3.0  | .6    | .3    |       |       |       |       |       |       |            | 7.1          | 6.0            | 5.0   |
| 290-310                          | 3.8                  | 3.0  | .3    |       |       |       |       |       |       |       |            | 7.1          | 4.9            | 4.0   |
| 320-340                          | 2.8                  | 2.4  | .3    |       |       |       |       |       |       |       |            | 5.5          | 5.0            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 22.0         | //////////     |       |
| TOTALS                           | 31.2                 | 33.2 | 10.9  | 1.6   | .4    |       |       |       |       |       |            | 100.0        | 4.8            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION WAW  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.3                  | 3.0  | 2.0   |       |       |       |       |       |       |       |       | 7.3        | 6.7          | 6.0            |
| 020-040                          | 2.9                  | 5.2  | 6.0   | .9    |       |       |       |       |       |       |       | 14.9       | 8.5          | 8.0            |
| 050-070                          | 3.4                  | 8.3  | 3.5   | .2    |       |       |       |       |       |       |       | 15.5       | 7.3          | 8.0            |
| (E) 080-100                      | 1.7                  | 3.1  | .5    |       |       |       |       |       |       |       |       | 5.4        | 5.8          | 5.5            |
| 110-130                          | 1.9                  | 1.1  | .2    |       |       |       |       |       |       |       |       | 3.2        | 4.6          | 4.0            |
| 140-160                          | 1.3                  | 1.1  | .5    |       |       |       |       |       |       |       |       | 2.9        | 5.7          | 5.0            |
| (S) 170-190                      | 1.5                  | 2.8  | 1.3   | .5    | .1    |       |       |       |       |       |       | 6.2        | 7.8          | 7.0            |
| 200-220                          | 1.6                  | 2.9  | 2.4   | .6    |       |       |       |       |       |       |       | 7.5        | 8.0          | 7.5            |
| 230-250                          | 1.6                  | 3.5  | 4.4   | .9    |       |       |       |       |       |       |       | 10.4       | 9.2          | 10.0           |
| (W) 260-280                      | 1.6                  | 4.2  | 4.1   | .5    | .1    | .1    |       |       |       |       |       | 10.6       | 9.0          | 9.0            |
| 290-310                          | 1.9                  | 2.5  | 1.0   |       |       |       |       |       |       |       |       | 5.4        | 6.0          | 5.5            |
| 320-340                          | 1.8                  | 3.0  | 1.0   | .1    |       |       |       |       |       |       |       | 5.9        | 6.6          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 4.6        | ////         | ////           |
| TOTALS                           | 23.5                 | 40.7 | 26.9  | 3.7   | .2    | .1    |       |       |       |       |       | 100.0      | 7.2          | 7.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION \*A\*  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                      | 2.3                                  | 2.0  | 2.3   | .2    |       |       |       |       |       |       |            | 6.8          | 7.3                              | 7.0   |
| 020-040                          | 2.3                                  | 4.2  | 3.4   | .4    |       |       |       |       |       |       |            | 10.3         | 8.0                              | 8.0   |
| 050-070                          | 2.4                                  | 5.8  | 2.0   |       |       |       |       |       |       |       |            | 10.2         | 6.6                              | 6.0   |
| (E) 080-100                      | 1.9                                  | 2.3  | .8    |       |       |       |       |       |       |       |            | 4.9          | 5.8                              | 5.0   |
| 110-130                          | 1.3                                  | 2.2  |       |       |       |       |       |       |       |       |            | 3.4          | 5.1                              | 5.0   |
| 140-160                          | 2.5                                  | 2.8  | .4    |       |       |       |       |       |       |       |            | 5.7          | 5.6                              | 6.0   |
| (S) 170-190                      | 2.4                                  | 3.0  | 2.8   | .9    | .1    |       |       |       |       |       |            | 9.1          | 8.2                              | 7.0   |
| 200-220                          | 2.0                                  | 2.7  | 3.3   | .9    |       |       |       |       |       |       |            | 8.9          | 8.6                              | 9.0   |
| 230-250                          | 1.1                                  | 2.8  | 5.3   | 1.2   | .1    |       |       |       |       |       |            | 10.4         | 10.1                             | 10.0  |
| (W) 260-280                      | 1.1                                  | 4.4  | 3.3   | 1.8   | .3    |       |       |       |       |       |            | 11.0         | 9.7                              | 9.5   |
| 290-310                          | 2.4                                  | 3.8  | 1.8   |       | .1    |       |       |       |       |       |            | 8.1          | 6.8                              | 6.0   |
| 320-340                          | .8                                   | 4.3  | 1.7   | .1    |       |       |       |       |       |       |            | 6.9          | 7.7                              | 8.0   |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 4.2          | //////////////////////////////// |       |
| TOTALS                           | 22.5                                 | 40.3 | 27.1  | 5.5   | .6    |       |       |       |       |       |            | 100.0        | 7.5                              | 7.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.5                  | 2.6  | .8    |       |       |       |       |       |       |       |       | 4.8        | 6.2          | 6.0            |
| 020-040                          | 2.3                  | 3.7  | 2.7   | .6    |       |       |       |       |       |       |       | 9.2        | 7.9          | 7.5            |
| 050-070                          | 1.7                  | 2.5  | 1.9   | .2    |       |       |       |       |       |       |       | 6.3        | 7.7          | 8.0            |
| (E) 080-100                      | 1.8                  | 1.6  | .5    |       |       |       |       |       |       |       |       | 4.0        | 5.5          | 5.0            |
| 110-130                          | 1.9                  | 1.4  | .3    |       |       |       |       |       |       |       |       | 3.7        | 4.8          | 4.0            |
| 140-160                          | 3.3                  | 2.9  | .8    |       |       |       |       |       |       |       |       | 7.0        | 5.3          | 5.0            |
| (S) 170-190                      | 3.0                  | 4.5  | 2.6   | 1.0   | .1    |       |       |       |       |       |       | 11.2       | 7.7          | 7.0            |
| 200-220                          | 2.5                  | 3.8  | 4.5   | .3    | .3    |       |       |       |       |       |       | 11.4       | 8.5          | 8.0            |
| 230-250                          | 1.9                  | 3.3  | 3.1   | .8    | .5    |       |       |       |       |       |       | 9.7        | 9.4          | 8.5            |
| (W) 260-280                      | 2.3                  | 4.6  | 3.3   | 1.8   | .3    |       |       |       |       |       |       | 12.4       | 9.2          | 8.0            |
| 290-310                          | 1.5                  | 4.9  | 3.1   | .3    | .2    |       |       |       |       |       |       | 10.1       | 8.4          | 8.0            |
| 320-340                          | 1.4                  | 3.2  | 1.8   |       | .1    |       |       |       |       |       |       | 6.6        | 7.1          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.7        | ////         | ////           |
| TOTALS                           | 25.1                 | 39.0 | 25.4  | 5.0   | 1.5   |       |       |       |       |       |       | 100.0      | 7.5          | 7.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFAC WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.7                  | 2.4  | .8    |       |       |       |       |       |       |       |            | 5.8          | 5.4            | 5.0   |
| 020-040                          | 2.5                  | 2.6  | 1.7   | .3    |       |       |       |       |       |       |            | 7.1          | 7.0            | 6.0   |
| 050-070                          | 2.9                  | 3.2  | 1.4   |       |       |       |       |       |       |       |            | 7.5          | 5.8            | 6.0   |
| (E) 080-100                      | 1.7                  | 1.3  |       |       |       |       |       |       |       |       |            | 3.0          | 4.6            | 4.0   |
| 110-130                          | 2.6                  | 1.4  | .2    |       |       |       |       |       |       |       |            | 4.2          | 4.5            | 4.0   |
| 140-160                          | 3.1                  | 2.3  | .6    |       |       |       |       |       |       |       |            | 6.0          | 5.2            | 4.0   |
| (S) 170-190                      | 4.7                  | 4.7  | 1.3   | .2    |       |       |       |       |       |       |            | 11.0         | 6.0            | 6.0   |
| 200-220                          | 6.1                  | 3.3  | .9    |       |       |       |       |       |       |       |            | 10.3         | 4.7            | 4.0   |
| 230-250                          | 2.5                  | 2.5  | .9    | .1    | .1    |       |       |       |       |       |            | 6.0          | 6.1            | 5.5   |
| (W) 260-280                      | 4.2                  | 2.5  | 1.5   | .8    |       |       |       |       |       |       |            | 8.9          | 6.6            | 5.0   |
| 290-310                          | 3.1                  | 2.4  | 1.3   |       |       |       |       |       |       |       |            | 6.8          | 5.9            | 5.0   |
| 320-340                          | 3.6                  | 1.5  | 1.0   |       |       |       |       |       |       |       |            | 6.0          | 5.1            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 17.1         | //////////     |       |
| TOTALS                           | 39.7                 | 30.1 | 11.6  | 1.4   | .1    |       |       |       |       |       |            | 100.0        | 4.7            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 928 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.6                  | 2.5  | .9    | .1    |       |       |       |       |       |       |       | 6.0        | 6.0          | 6.0            |
| 020-040                          | 4.9                  | 1.9  | 1.5   | .1    |       |       |       |       |       |       |       | 8.4        | 5.6          | 4.0            |
| 050-070                          | 2.7                  | 2.4  | 1.3   |       |       |       |       |       |       |       |       | 6.4        | 6.0          | 6.0            |
| (E) 080-100                      | 1.5                  | .9   | .2    |       |       |       |       |       |       |       |       | 2.6        | 5.1          | 4.0            |
| 110-130                          | 1.4                  | 1.4  | .1    | .1    |       |       |       |       |       |       |       | 3.0        | 5.4          | 5.0            |
| 140-160                          | 2.5                  | 1.1  | .5    |       |       |       |       |       |       |       |       | 4.1        | 4.9          | 4.0            |
| (S) 170-190                      | 4.0                  | 4.6  | 1.2   | .1    |       |       |       |       |       |       |       | 9.9        | 5.8          | 5.0            |
| 200-220                          | 6.7                  | 3.6  | .5    |       |       |       |       |       |       |       |       | 10.8       | 4.4          | 4.0            |
| 230-250                          | 1.7                  | 2.7  | 1.0   |       |       |       |       |       |       |       |       | 5.4        | 6.2          | 6.0            |
| (W) 260-280                      | 1.7                  | 2.0  | .6    | .1    | .1    |       |       |       |       |       |       | 4.6        | 6.4          | 5.0            |
| 290-310                          | 2.9                  | 1.5  | 1.2   |       |       |       |       |       |       |       |       | 5.6        | 5.3          | 4.0            |
| 320-340                          | 2.2                  | 1.7  | 1.2   |       |       |       |       |       |       |       |       | 5.1        | 6.3          | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 28.0       | ////         | ////           |
| TOTALS                           | 34.8                 | 26.3 | 10.2  | .5    | .1    |       |       |       |       |       |       | 100.0      | 4.0          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 927 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.4                  | 2.7  | 1.4   | .1    |       |       |       |       |       |       |       | 6.6        | 6.3          | 6.0            |
| 020-040                | 4.3                  | 4.3  | 3.0   | .4    |       |       |       |       |       |       |       | 12.1       | 6.9          | 6.0            |
| 050-070                | 2.8                  | 4.3  | 1.7   | .1    |       |       |       |       |       |       |       | 8.8        | 6.5          | 6.0            |
| (E) 080-100            | 1.6                  | 1.5  | .4    |       |       |       |       |       |       |       |       | 3.5        | 5.4          | 5.0            |
| 110-130                | 1.5                  | 1.3  | .2    | .0    |       |       |       |       |       |       |       | 2.9        | 4.9          | 4.0            |
| 140-160                | 1.8                  | 1.5  | .4    |       |       |       |       |       |       |       |       | 3.7        | 5.3          | 5.0            |
| (S) 170-190            | 2.8                  | 3.2  | 1.5   | .4    | .1    |       |       |       |       |       |       | 8.0        | 6.8          | 6.0            |
| 200-220                | 3.7                  | 3.3  | 1.7   | .3    | .1    |       |       |       |       |       |       | 9.1        | 6.4          | 6.0            |
| 230-250                | 2.0                  | 2.7  | 2.3   | .5    | .2    |       |       |       |       |       |       | 7.7        | 8.1          | 8.0            |
| (W) 260-280            | 2.2                  | 3.3  | 1.9   | .7    | .1    | .0    |       |       |       |       |       | 8.2        | 7.8          | 7.0            |
| 290-310                | 2.6                  | 3.0  | 1.2   | .0    | .0    |       |       |       |       |       |       | 6.8        | 6.2          | 6.0            |
| 320-340                | 2.3                  | 2.5  | .9    | .0    | .0    |       |       |       |       |       |       | 5.7        | 6.0          | 6.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 16.9       | ////         | ////           |
| TOTALS                 | 30.0                 | 33.6 | 16.6  | 2.5   | .5    |       |       |       |       |       |       | 100.0      | 5.5          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 7435



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AIR SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR HOURS: ALL

.....  
 CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
 .....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 2.3                                  | 6.6  | 4.7   | .3    |       |       |       |       |       |       |       | 13.9       | 8.0                              | 8.0            |
| 020-040                | 3.5                                  | 7.6  | 10.8  | 2.0   |       |       |       |       |       |       |       | 23.9       | 9.2                              | 10.0           |
| 050-070                | 1.4                                  | 5.9  | 4.8   | .3    |       |       |       |       |       |       |       | 12.5       | 8.7                              | 8.0            |
| (E) 080-100            | 1.8                                  | 2.2  | .4    |       |       |       |       |       |       |       |       | 4.5        | 5.6                              | 5.0            |
| 110-130                | 1.6                                  | 1.6  | .2    | .1    |       |       |       |       |       |       |       | 3.5        | 5.4                              | 5.0            |
| 140-160                | 2.2                                  | 1.9  | .6    |       |       |       |       |       |       |       |       | 4.7        | 5.6                              | 5.0            |
| (S) 170-190            | 2.5                                  | 3.7  | 1.3   | .4    |       |       |       |       |       |       |       | 7.9        | 6.9                              | 6.0            |
| 200-220                | 1.2                                  | 2.5  | 1.1   | .3    |       |       |       |       |       |       |       | 5.1        | 7.7                              | 8.0            |
| 230-250                | 1.2                                  | 1.8  | .9    |       |       |       |       |       |       |       |       | 3.9        | 6.5                              | 6.0            |
| (W) 260-280            | 1.1                                  | 2.0  | .7    |       |       |       |       |       |       |       |       | 3.8        | 6.5                              | 6.5            |
| 290-310                | 1.6                                  | 1.7  | .8    |       |       |       |       |       |       |       |       | 4.0        | 6.3                              | 6.0            |
| 320-340                | 1.9                                  | 3.6  | .6    |       |       |       |       |       |       |       |       | 6.0        | 5.9                              | 6.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 6.4        | //////////////////////////////// |                |
| TOTALS                 | 22.3                                 | 41.1 | 26.9  | 3.4   |       |       |       |       |       |       |       | 100.0      | 7.1                              | 7.0            |

TOTAL NUMBER OF OBSERVATIONS 897

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.4                  | 2.6  | .4    |       |       |       |       |       |       |       |            | 5.4          | 5.4            | 5.0   |
| 020-040                          | 2.7                  | .8   | .4    |       |       |       |       |       |       |       |            | 3.9          | 4.4            | 3.0   |
| 050-070                          | 2.8                  | 1.7  |       |       |       |       |       |       |       |       |            | 4.4          | 4.2            | 4.0   |
| (E) 080-100                      | 1.7                  | 1.0  | .3    |       |       |       |       |       |       |       |            | 3.0          | 5.4            | 4.0   |
| 110-130                          | 1.6                  | 1.0  |       |       |       |       |       |       |       |       |            | 2.6          | 4.1            | 4.0   |
| 140-160                          | 2.0                  | .8   | .3    |       |       |       |       |       |       |       |            | 3.1          | 4.5            | 3.0   |
| (S) 170-190                      | 2.1                  | 1.7  | 1.0   |       |       |       |       |       |       |       |            | 4.8          | 5.7            | 5.0   |
| 200-220                          | 6.0                  | 4.9  | .9    | .3    |       |       |       |       |       |       |            | 12.1         | 5.3            | 5.0   |
| 230-250                          | 3.7                  | 4.3  | .8    | .2    |       |       |       |       |       |       |            | 9.0          | 6.0            | 6.0   |
| (W) 260-280                      | 3.1                  | 5.9  | 1.3   |       |       |       |       |       |       |       |            | 10.3         | 6.2            | 6.0   |
| 290-310                          | 2.9                  | 3.3  | 1.0   |       | .1    |       |       |       |       |       |            | 7.3          | 6.0            | 6.0   |
| 320-340                          | 2.6                  | 4.1  | .2    |       |       |       |       |       |       |       |            | 6.9          | 5.3            | 5.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 27.1         | ////////       |       |
| TOTALS                           | 33.6                 | 32.1 | 6.6   | .5    | .1    |       |       |       |       |       |            | 100.0        | 4.0            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 2.8                                  | 3.2  | .4    |       |       |       |       |       |       |       |       | 6.4        | 5.4                              | 5.0            |
| 020-040                          | 5.6                                  | 2.1  | .4    |       |       |       |       |       |       |       |       | 8.1        | 4.2                              | 4.0            |
| 050-070                          | 3.7                                  | 1.7  |       |       |       |       |       |       |       |       |       | 5.3        | 3.7                              | 3.0            |
| (E) 080-100                      | .9                                   | .8   | .1    |       |       |       |       |       |       |       |       | 1.8        | 4.7                              | 4.0            |
| 110-130                          | 2.0                                  | .2   | .1    |       |       |       |       |       |       |       |       | 2.3        | 3.5                              | 4.0            |
| 140-160                          | 1.1                                  | .7   | .1    |       |       |       |       |       |       |       |       | 1.9        | 4.1                              | 3.0            |
| (S) 170-190                      | 2.0                                  | 1.1  | .8    | .2    |       |       |       |       |       |       |       | 4.1        | 6.2                              | 5.0            |
| 200-220                          | 6.0                                  | 3.4  | 1.1   |       | .1    |       |       |       |       |       |       | 10.7       | 5.2                              | 4.0            |
| 230-250                          | 1.7                                  | 3.9  | 1.2   | .1    |       |       |       |       |       |       |       | 6.9        | 6.9                              | 7.0            |
| (W) 260-280                      | 2.0                                  | 5.4  | .8    |       |       |       |       |       |       |       |       | 8.2        | 6.6                              | 7.0            |
| 290-310                          | 3.2                                  | 4.6  | .6    |       |       |       |       |       |       |       |       | 8.3        | 5.6                              | 5.0            |
| 320-340                          | 3.0                                  | 2.8  | .1    |       |       |       |       |       |       |       |       | 5.9        | 4.7                              | 4.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 30.0       | //////////////////////////////// |                |
| TOTALS                           | 34.0                                 | 29.9 | 5.7   | .3    | .1    |       |       |       |       |       |       | 100.0      | 3.7                              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.8                  | 2.9  | .6    |       |       |       |       |       |       |       |            | 6.2          | 5.6            | 5.5   |
| 020-040                          | 3.6                  | 4.9  | .9    | .3    |       |       |       |       |       |       |            | 9.7          | 6.0            | 6.0   |
| 050-070                          | 4.6                  | 3.0  | 1.1   |       |       |       |       |       |       |       |            | 8.7          | 5.1            | 4.0   |
| (E) 080-100                      | 1.7                  | 1.2  | .2    |       |       |       |       |       |       |       |            | 3.1          | 5.3            | 4.0   |
| 110-130                          | 1.7                  | .8   |       |       |       |       |       |       |       |       |            | 2.4          | 3.9            | 4.0   |
| 140-160                          | .8                   | .8   | .1    | .1    |       |       |       |       |       |       |            | 1.8          | 5.5            | 5.0   |
| (S) 170-190                      | 2.0                  | 1.8  | .7    |       |       |       |       |       |       |       |            | 4.4          | 5.8            | 5.5   |
| 200-220                          | 4.2                  | 4.2  | 1.7   | .1    |       |       |       |       |       |       |            | 10.2         | 6.0            | 6.0   |
| 230-250                          | 2.3                  | 5.3  | 1.6   | .3    |       |       |       |       |       |       |            | 9.6          | 7.0            | 7.0   |
| (W) 260-280                      | 2.2                  | 4.9  | 1.6   |       |       |       |       |       |       |       |            | 8.7          | 6.7            | 6.0   |
| 290-310                          | 3.0                  | 4.7  | .6    |       | .1    |       |       |       |       |       |            | 8.3          | 5.9            | 5.0   |
| 320-340                          | 2.4                  | 4.0  | .4    |       |       |       |       |       |       |       |            | 6.9          | 5.7            | 6.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 20.0         | ////           | ////  |
| TOTALS                           | 31.3                 | 38.5 | 9.5   | .8    | .1    |       |       |       |       |       |            | 100.0        | 4.7            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO-UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: APR HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.9                  | 3.7  | 2.0   | .2    |       |       |       |       |       |       |       | 7.8        | 7.2          | 7.0            |
| 020-040                          | 1.9                  | 3.8  | 2.4   | .2    |       |       |       |       |       |       |       | 8.3        | 7.6          | 8.0            |
| 050-070                          | 2.2                  | 5.3  | 2.0   |       |       |       |       |       |       |       |       | 9.6        | 6.7          | 7.0            |
| (E) 080-100                      | 1.7                  | 3.3  | .9    | .1    |       |       |       |       |       |       |       | 6.0        | 6.7          | 6.5            |
| 110-130                          | 1.7                  | 3.0  | .2    |       |       |       |       |       |       |       |       | 4.9        | 5.2          | 5.0            |
| 140-160                          | 1.1                  | 1.9  | 1.6   | .1    | .1    |       |       |       |       |       |       | 4.8        | 7.9          | 8.0            |
| (S) 170-190                      | 1.2                  | 1.0  | 1.3   | .3    |       | .1    |       |       |       |       |       | 4.0        | 8.2          | 7.5            |
| 200-220                          | 1.9                  | 3.6  | 3.2   | 1.7   | .1    |       |       |       |       |       |       | 10.4       | 9.3          | 9.0            |
| 230-250                          | 1.2                  | 5.2  | 3.9   | .4    |       |       |       |       |       |       |       | 10.8       | 8.5          | 8.0            |
| (W) 260-280                      | 1.9                  | 5.4  | 5.7   | 1.0   |       |       |       |       |       |       |       | 14.0       | 8.7          | 9.0            |
| 290-310                          | 2.1                  | 5.2  | 2.1   | .7    |       |       |       |       |       |       |       | 10.1       | 7.6          | 8.0            |
| 320-340                          | 2.0                  | 2.8  | 1.8   |       |       |       |       |       |       |       |       | 6.6        | 6.8          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 2.8        | ////         | ////           |
| TOTALS                           | 20.8                 | 44.2 | 27.1  | 4.7   | .2    | .1    |       |       |       |       |       | 100.0      | 7.5          | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                      | 2.1                  | 2.0  | 2.0   |       |       |       |       |       |       |       |       | 6.1        | 6.9              | 7.0            |
| 020-040                          | 2.2                  | 2.7  | 1.3   |       |       |       |       |       |       |       |       | 6.2        | 6.3              | 5.5            |
| 050-070                          | 1.6                  | 3.2  | 1.1   | .1    |       |       |       |       |       |       |       | 6.0        | 6.9              | 6.5            |
| (E) 080-100                      | 1.8                  | 2.8  | .6    |       |       |       |       |       |       |       |       | 5.1        | 5.7              | 5.5            |
| 110-130                          | 1.2                  | 2.6  | .4    | .1    |       |       |       |       |       |       |       | 4.3        | 6.5              | 6.0            |
| 140-160                          | 1.4                  | 3.6  | 1.0   | .1    |       |       |       |       |       |       |       | 6.1        | 7.0              | 7.0            |
| (S) 170-190                      | 1.8                  | 2.6  | 1.8   | .7    |       |       |       |       |       |       |       | 6.8        | 8.0              | 8.0            |
| 200-220                          | 2.1                  | 3.0  | 5.2   | 1.4   | .3    | .1    |       |       |       |       |       | 12.2       | 10.1             | 10.0           |
| 230-250                          | 2.2                  | 2.9  | 6.4   | .8    | .1    |       |       |       |       |       |       | 12.4       | 9.3              | 10.0           |
| (W) 260-280                      | 2.2                  | 5.2  | 6.7   | 2.0   | .2    |       |       |       |       |       |       | 16.3       | 9.6              | 10.0           |
| 290-310                          | 1.1                  | 3.6  | 4.4   | .3    | .1    |       |       |       |       |       |       | 9.6        | 9.2              | 10.0           |
| 320-340                          | 1.9                  | 3.3  | 1.8   | .2    | .1    |       |       |       |       |       |       | 7.3        | 7.5              | 7.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 1.4        | //////////////// |                |
| TOTALS                           | 21.6                 | 37.5 | 32.7  | 5.7   | .8    | .1    |       |       |       |       |       | 100.0      | 8.2              | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.3                  | 2.2  | 1.8   |       |       |       |       |       |       |       |       | 5.3        | 7.5          | 8.0            |
| 020-040                          | 1.4                  | 1.9  | 1.2   | .1    |       |       |       |       |       |       |       | 4.7        | 6.8          | 6.0            |
| 050-070                          | 1.9                  | 2.7  | .7    | .2    |       |       |       |       |       |       |       | 5.4        | 6.7          | 7.0            |
| (E) 080-100                      | 1.3                  | 2.0  | .6    |       |       |       |       |       |       |       |       | 3.9        | 5.8          | 6.0            |
| 110-130                          | 2.0                  | 2.3  | .2    | .1    |       |       |       |       |       |       |       | 4.7        | 5.9          | 6.0            |
| 140-160                          | 2.0                  | 3.0  | 1.2   |       |       |       |       |       |       |       |       | 6.2        | 6.4          | 6.0            |
| (S) 170-190                      | 1.9                  | 4.1  | 2.2   | .6    | .1    |       |       |       |       |       |       | 8.9        | 8.1          | 7.0            |
| 200-220                          | 2.1                  | 5.8  | 4.7   | 1.2   | .2    |       |       |       |       |       |       | 14.0       | 9.0          | 8.0            |
| 230-250                          | 1.8                  | 3.6  | 4.9   | 1.3   |       | .1    |       |       |       |       |       | 11.7       | 9.6          | 10.0           |
| (W) 260-280                      | .7                   | 5.2  | 6.9   | 1.9   | .8    |       |       |       |       |       |       | 15.4       | 10.8         | 11.0           |
| 290-310                          | 1.4                  | 4.2  | 4.1   | .1    | .1    |       |       |       |       |       |       | 10.0       | 8.5          | 8.0            |
| 320-340                          | 1.8                  | 4.6  | 1.3   | .1    | .1    |       |       |       |       |       |       | 7.9        | 7.2          | 7.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 1.9        | ////         | ////           |
| TOTALS                           | 19.6                 | 41.6 | 29.8  | 5.6   | 1.3   | .1    |       |       |       |       |       | 100.0      | 8.2          | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LSI TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.2                  | 2.6  | .9    | .1    |       |       |       |       |       |       |            | 5.8          | 5.8            | 5.0   |
| 020-040                          | 2.7                  | .7   | .7    |       |       |       |       |       |       |       |            | 4.0          | 5.0            | 4.0   |
| 050-070                          | 2.3                  | 1.2  | .4    | .1    |       |       |       |       |       |       |            | 4.1          | 5.2            | 4.0   |
| (E) 080-100                      | 1.2                  | 1.4  | .4    |       |       |       |       |       |       |       |            | 3.1          | 5.6            | 5.5   |
| 110-130                          | 1.3                  | 2.3  | .4    |       |       |       |       |       |       |       |            | 4.1          | 5.8            | 5.0   |
| 140-160                          | 3.8                  | 4.2  | .8    |       |       |       |       |       |       |       |            | 8.8          | 5.4            | 5.0   |
| (S) 170-190                      | 3.4                  | 4.8  | 2.0   | .3    |       |       |       |       |       |       |            | 10.6         | 6.8            | 7.0   |
| 200-220                          | 5.4                  | 4.3  | 2.0   | .2    |       |       |       |       |       |       |            | 12.0         | 5.9            | 5.0   |
| 230-250                          | 2.8                  | 3.4  | 2.4   | .1    |       |       |       |       |       |       |            | 8.8          | 7.1            | 6.0   |
| (W) 260-280                      | 4.6                  | 7.1  | 3.0   | .4    |       |       |       |       |       |       |            | 15.1         | 6.7            | 6.0   |
| 290-310                          | 1.8                  | 3.1  | 1.3   |       |       |       |       |       |       |       |            | 6.2          | 6.9            | 7.0   |
| 320-340                          | 2.6                  | 2.4  | .3    |       |       |       |       |       |       |       |            | 5.3          | 5.1            | 5.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 12.1         | ////           | ////  |
| TOTALS                           | 34.1                 | 37.5 | 14.6  | 1.2   |       |       |       |       |       |       |            | 100.0        | 5.4            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 1.9                                  | 2.2  | .8    | .1    |       |       |       |       |       |       |       | 5.0        | 5.9                              | 5.0            |
| 020-040                          | 2.6                                  | .4   | .4    |       |       |       |       |       |       |       |       | 3.4        | 4.3                              | 3.0            |
| 050-070                          | 2.0                                  | .9   | .4    |       |       |       |       |       |       |       |       | 3.3        | 4.6                              | 4.0            |
| (E) 080-100                      | .6                                   | .7   | .4    |       |       |       |       |       |       |       |       | 1.7        | 6.4                              | 6.0            |
| 110-130                          | 3.0                                  | 1.4  | .1    |       |       |       |       |       |       |       |       | 4.6        | 4.0                              | 3.0            |
| 140-160                          | 4.3                                  | 2.6  | .2    |       |       |       |       |       |       |       |       | 7.1        | 4.4                              | 4.0            |
| (S) 170-190                      | 4.3                                  | 5.3  | 1.2   | .2    |       |       |       |       |       |       |       | 11.1       | 6.0                              | 6.0            |
| 200-220                          | 6.3                                  | 4.6  | 1.0   |       |       |       |       |       |       |       |       | 11.9       | 4.9                              | 4.0            |
| 230-250                          | 2.3                                  | 4.2  | .7    | .2    |       |       |       |       |       |       |       | 7.4        | 6.3                              | 6.0            |
| (W) 260-280                      | 2.0                                  | 5.8  | 1.4   |       |       |       |       |       |       |       |       | 9.2        | 6.7                              | 7.0            |
| 290-310                          | 2.7                                  | 1.1  | 1.1   | .1    |       |       |       |       |       |       |       | 5.0        | 5.9                              | 4.0            |
| 320-340                          | 1.9                                  | 2.4  | 1.0   | .1    |       |       |       |       |       |       |       | 5.4        | 6.5                              | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 24.8       | //////////////////////////////// |                |
| TOTALS                           | 33.9                                 | 31.6 | 8.7   | .7    |       |       |       |       |       |       |       | 100.0      | 4.2                              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: ALL

| DIRECTION  <br>(DEGREES)          | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |       |              |                | GE 65 |
| (N) 350-010                       | 2.2                  | 2.7  | 1.1   | .1    |       |       |       |       |       |       |       | 6.0          | 6.2            | 6.0   |
| 020-040                           | 2.8                  | 2.2  | 1.0   | .1    |       |       |       |       |       |       |       | 6.0          | 5.8            | 5.0   |
| 050-070                           | 2.6                  | 2.5  | .7    | .1    |       |       |       |       |       |       |       | 5.9          | 5.6            | 5.0   |
| (E) 080-100                       | 1.3                  | 1.7  | .4    | .0    |       |       |       |       |       |       |       | 3.5          | 5.9            | 5.0   |
| 110-130                           | 1.8                  | 1.7  | .2    | .0    |       |       |       |       |       |       |       | 3.7          | 5.1            | 5.0   |
| 140-160                           | 2.1                  | 2.2  | .7    | .0    | .0    |       |       |       |       |       |       | 5.0          | 5.8            | 6.0   |
| (S) 170-190                       | 2.3                  | 2.8  | 1.4   | .3    | .0    | .0    |       |       |       |       |       | 6.8          | 6.9            | 6.0   |
| 200-220                           | 4.3                  | 4.2  | 2.5   | .6    | .1    | .0    |       |       |       |       |       | 11.7         | 7.0            | 6.0   |
| 230-250                           | 2.3                  | 4.1  | 2.7   | .4    | .0    | .0    |       |       |       |       |       | 9.6          | 7.8            | 7.0   |
| (W) 260-280                       | 2.3                  | 5.6  | 3.4   | .7    | .1    |       |       |       |       |       |       | 12.2         | 8.1            | 8.0   |
| 290-310                           | 2.3                  | 3.7  | 1.9   | .2    | .1    |       |       |       |       |       |       | 8.1          | 7.1            | 7.0   |
| 320-340                           | 2.3                  | 3.3  | .9    | .1    | .0    |       |       |       |       |       |       | 6.5          | 6.2            | 6.0   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |              |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 15.0         | ////           | ////  |
| TOTALS                            | 28.6                 | 36.7 | 16.9  | 2.6   | .3    |       |       |       |       |       |       | 100.0        | 5.7            | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 7200 |                      |      |       |       |       |       |       |       |       |       |       |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST. TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: APR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 1.5                  | 2.1  | 3.4   |       |       |       |       |       |       |       |            | 7.1          | 8.2            | 8.0   |
| 020-040                | 3.2                  | 3.0  | 4.1   |       |       |       |       |       |       |       |            | 10.3         | 7.4            | 7.0   |
| 050-070                | 3.4                  | 5.8  | .4    |       |       |       |       |       |       |       |            | 9.6          | 5.2            | 5.0   |
| (E) 080-100            | 2.1                  | 5.8  | 2.8   |       |       |       |       |       |       |       |            | 10.7         | 7.2            | 7.0   |
| 110-130                | 4.3                  | 2.8  | .9    |       |       |       |       |       |       |       |            | 7.9          | 4.9            | 4.0   |
| 140-160                | 4.1                  | 5.1  | 1.1   | .2    |       |       |       |       |       |       |            | 10.5         | 5.8            | 5.0   |
| (S) 170-190            | 2.6                  | 3.6  | 1.1   |       |       |       |       |       |       |       |            | 7.3          | 6.0            | 6.0   |
| 200-220                | 2.4                  | 4.9  | 1.9   |       |       |       |       |       |       |       |            | 9.2          | 6.7            | 6.0   |
| 230-250                | 1.5                  | 3.2  | 2.4   | .2    |       |       |       |       |       |       |            | 7.3          | 8.1            | 8.5   |
| (W) 260-280            | .6                   | 1.5  | 1.3   | .2    |       |       |       |       |       |       |            | 3.6          | 8.3            | 8.0   |
| 290-310                | .6                   | 1.3  | .4    |       | .2    |       |       |       |       |       |            | 2.6          | 7.6            | 5.5   |
| 320-340                | 1.1                  | 1.1  | .4    |       |       |       |       |       |       |       |            | 2.6          | 6.0            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 11.3         | ////           | ////  |
| TOTALS                 | 27.4                 | 40.2 | 20.2  | .6    | .2    |       |       |       |       |       |            | 100.0        | 5.9            | 6.0   |

TOTAL NUMBER OF OBSERVATIONS 467

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY OURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 1.7                  | 1.8  | .8    |       |       |       |       |       |       |       |            | 4.3          | 5.9            | 6.0   |
| 020-040                | 2.9                  | 1.7  | .8    |       |       |       |       |       |       |       |            | 5.4          | 5.2            | 4.0   |
| 050-070                | 3.0                  | 2.0  | .9    |       |       |       |       |       |       |       |            | 5.9          | 5.2            | 4.0   |
| (E) 080-100            | 2.4                  | .1   |       |       |       |       |       |       |       |       |            | 2.5          | 2.7            | 2.0   |
| 110-130                | 1.2                  | .4   |       |       |       |       |       |       |       |       |            | 1.6          | 3.4            | 3.0   |
| 140-160                | 2.3                  | .8   |       |       |       |       |       |       |       |       |            | 3.0          | 3.4            | 3.0   |
| (S) 170-190            | 5.8                  | 1.9  |       |       |       |       |       |       |       |       |            | 7.7          | 3.8            | 4.0   |
| 200-220                | 11.7                 | 7.2  | .2    |       |       |       |       |       |       |       |            | 19.1         | 4.2            | 4.0   |
| 230-250                | 3.5                  | 2.5  | .5    |       |       |       |       |       |       |       |            | 6.6          | 4.8            | 4.0   |
| (W) 260-280            | 2.2                  | 1.6  | .1    |       |       |       |       |       |       |       |            | 3.9          | 4.5            | 4.0   |
| 290-310                | 1.9                  | 1.0  | .3    |       |       |       |       |       |       |       |            | 3.2          | 4.7            | 4.0   |
| 320-340                | 1.1                  | 1.2  | .1    |       |       |       |       |       |       |       |            | 2.4          | 4.8            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 34.4         | ////////       |       |
| TOTALS                 | 39.7                 | 22.2 | 3.7   |       |       |       |       |       |       |       |            | 100.0        | 2.9            | 4.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFÉTAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       |  | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |  |            |              |                |
| (N) 350-010                      | 1.7                  | 2.3  | .3    |       |       |       |       |       |       |       |       |  | 4.3        | 5.5          | 5.0            |
| 020-040                          | 5.8                  | 2.8  | .9    |       |       |       |       |       |       |       |       |  | 9.5        | 4.6          | 4.0            |
| 050-070                          | 4.8                  | 1.9  | .5    |       |       |       |       |       |       |       |       |  | 7.3        | 4.2          | 3.0            |
| (E) 080-100                      | 1.8                  | .4   |       |       |       |       |       |       |       |       |       |  | 2.3        | 3.4          | 3.0            |
| 110-130                          | 1.1                  | .1   |       |       |       |       |       |       |       |       |       |  | 1.2        | 2.7          | 2.0            |
| 140-160                          | 1.3                  | .4   |       |       |       |       |       |       |       |       |       |  | 1.7        | 3.4          | 3.0            |
| (S) 170-190                      | 3.2                  | 1.0  |       |       |       |       |       |       |       |       |       |  | 4.2        | 3.5          | 3.0            |
| 200-220                          | 10.2                 | 4.4  | .4    |       |       |       |       |       |       |       |       |  | 15.1       | 4.2          | 4.0            |
| 230-250                          | 3.5                  | 2.9  | .6    |       |       |       |       |       |       |       |       |  | 7.1        | 5.2          | 4.5            |
| (W) 260-280                      | 1.9                  | 1.7  | .2    |       |       |       |       |       |       |       |       |  | 3.9        | 4.9          | 4.5            |
| 290-310                          | 2.6                  | 2.0  |       |       |       |       |       |       |       |       |       |  | 4.6        | 4.5          | 4.0            |
| 320-340                          | .6                   | 1.4  | .2    |       |       |       |       |       |       |       |       |  | 2.3        | 5.6          | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |  |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       |  | 36.7       | ////         | ////           |
| TOTALS                           | 38.5                 | 21.3 | 3.1   |       |       |       |       |       |       |       |       |  | 100.0      | 2.8          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |  |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.2                  | 1.3  | .4    |       |       |       |       |       |       |       |            | 3.9          | 5.1            | 4.0   |
| 020-040                          | 4.1                  | 4.5  | 1.9   |       |       |       |       |       |       |       |            | 10.5         | 6.0            | 6.0   |
| 050-070                          | 6.2                  | 4.5  | .9    | .1    |       |       |       |       |       |       |            | 11.7         | 5.0            | 4.0   |
| (E) 080-100                      | 2.6                  | .9   | .1    |       |       |       |       |       |       |       |            | 3.5          | 3.7            | 3.0   |
| 110-130                          | .5                   | .2   |       |       |       |       |       |       |       |       |            | .8           | 3.4            | 4.0   |
| 140-160                          | 1.8                  | .3   | .1    |       |       |       |       |       |       |       |            | 2.3          | 3.5            | 3.0   |
| (S) 170-190                      | 2.9                  | 2.3  | .1    |       |       |       |       |       |       |       |            | 5.3          | 4.5            | 4.0   |
| 200-220                          | 6.2                  | 5.6  | 1.3   |       |       |       |       |       |       |       |            | 13.1         | 5.3            | 5.0   |
| 230-250                          | 3.3                  | 4.6  | 2.2   | .1    |       |       |       |       |       |       |            | 10.2         | 6.6            | 6.0   |
| (W) 260-280                      | 3.4                  | 4.2  | .4    |       |       |       |       |       |       |       |            | 8.1          | 5.4            | 5.0   |
| 290-310                          | 3.5                  | 1.5  |       |       |       |       |       |       |       |       |            | 5.1          | 4.1            | 4.0   |
| 320-340                          | 2.0                  | 2.3  | .2    |       |       |       |       |       |       |       |            | 4.5          | 5.2            | 6.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 21.1         | ////////       |       |
| TOTALS                           | 38.7                 | 32.2 | 7.6   | .2    |       |       |       |       |       |       |            | 100.0        | 4.1            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-5                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 1.3                                  | 1.7  | .5    |       |       |       |       |       |       |       |       | 3.5        | 5.6                              | 5.0            |
| 020-040                          | 2.3                                  | 5.4  | 3.0   | .5    |       |       |       |       |       |       |       | 11.2       | 7.7                              | 8.0            |
| 050-070                          | 3.1                                  | 5.7  | 1.6   | .1    |       |       |       |       |       |       |       | 10.5       | 6.6                              | 7.0            |
| (E) 080-100                      | 2.7                                  | 2.8  |       |       |       |       |       |       |       |       |       | 5.5        | 4.3                              | 5.0            |
| 110-130                          | 1.9                                  | 1.9  | .1    |       |       |       |       |       |       |       |       | 4.0        | 4.7                              | 5.0            |
| 140-160                          | 1.7                                  | .6   | .4    |       |       |       |       |       |       |       |       | 2.8        | 4.8                              | 4.0            |
| (S) 170-190                      | 2.5                                  | 1.9  | 1.0   | .1    |       |       |       |       |       |       |       | 5.5        | 5.8                              | 5.0            |
| 200-220                          | 3.1                                  | 6.0  | 3.8   | .3    |       |       |       |       |       |       |       | 13.2       | 7.7                              | 8.0            |
| 230-250                          | 4.9                                  | 7.4  | 3.7   | .1    | .1    |       |       |       |       |       |       | 16.2       | 6.8                              | 7.0            |
| (W) 260-280                      | 4.3                                  | 4.8  | 3.1   | .1    |       |       |       |       |       |       |       | 12.4       | 6.4                              | 6.0            |
| 290-310                          | 3.2                                  | 2.8  | .5    |       |       |       |       |       |       |       |       | 6.6        | 5.1                              | 5.0            |
| 320-340                          | 1.6                                  | 2.5  | .3    |       |       |       |       |       |       |       |       | 4.4        | 5.5                              | 5.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 4.2        | //////////////////////////////// |                |
| TOTALS                           | 32.6                                 | 43.5 | 18.0  | 1.2   | .1    |       |       |       |       |       |       | 100.0      | 6.1                              | 6.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND   |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                  | GE 65 |
| (N) 350-010                      | 2.2                  | 2.5  | .9    |       |       |       |       |       |       |       |            | 5.5          | 5.8              | 6.0   |
| 020-040                          | 2.6                  | 4.2  | 1.4   | .6    |       |       |       |       |       |       |            | 8.8          | 7.1              | 6.0   |
| 050-070                          | 1.4                  | 5.6  | 1.0   |       |       |       |       |       |       |       |            | 8.0          | 6.5              | 6.0   |
| (E) 080-100                      | 2.4                  | 2.7  | .5    |       |       |       |       |       |       |       |            | 5.6          | 5.3              | 5.0   |
| 110-130                          | 2.0                  | 2.0  | .2    |       |       |       |       |       |       |       |            | 4.3          | 5.1              | 5.0   |
| 140-160                          | 2.5                  | 2.6  | .5    | .1    |       |       |       |       |       |       |            | 5.7          | 5.4              | 5.0   |
| (S) 170-190                      | 2.9                  | 2.9  | 1.2   |       |       |       |       |       |       |       |            | 7.0          | 5.7              | 5.0   |
| 200-220                          | 3.3                  | 6.7  | 4.7   | .4    |       | .1    |       |       |       |       |            | 15.3         | 7.7              | 7.5   |
| 230-250                          | 3.3                  | 5.8  | 4.7   | .9    |       |       |       |       |       |       |            | 14.7         | 8.2              | 8.0   |
| (W) 260-280                      | 3.5                  | 5.3  | 2.0   | .3    |       |       |       |       |       |       |            | 11.2         | 6.7              | 6.0   |
| 290-310                          | 1.5                  | 3.2  | .9    |       |       |       |       |       |       |       |            | 5.6          | 6.3              | 6.0   |
| 320-340                          | 2.4                  | 3.1  | .6    |       |       |       |       |       |       |       |            | 6.1          | 5.7              | 6.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 2.3          | //////////////// |       |
| TOTALS                           | 30.0                 | 46.6 | 18.6  | 2.3   |       | .1    |       |       |       |       |            | 100.0        | 6.5              | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.4                  | 3.5  | 1.0   |       |       |       |       |       |       |       |       | 6.9        | 6.0          | 6.0            |
| 020-040                | 2.5                  | 4.4  | 1.8   | .2    |       |       |       |       |       |       |       | 8.9        | 6.9          | 7.0            |
| 050-070                | 2.5                  | 3.1  | .9    |       |       |       |       |       |       |       |       | 6.5        | 6.0          | 6.0            |
| (E) 080-100            | 2.5                  | 1.7  | .2    |       |       |       |       |       |       |       |       | 4.4        | 4.5          | 4.0            |
| 110-130                | 2.4                  | 1.5  | .2    |       |       |       |       |       |       |       |       | 4.1        | 4.7          | 4.0            |
| 140-160                | 2.4                  | 3.9  | 1.2   | .3    |       |       |       |       |       |       |       | 7.7        | 6.6          | 6.0            |
| (S) 170-190            | 3.1                  | 4.6  | 3.0   | .3    |       |       |       |       |       |       |       | 11.1       | 7.1          | 6.0            |
| 200-220                | 4.7                  | 6.3  | 4.5   |       |       |       |       |       |       |       |       | 15.6       | 6.9          | 7.0            |
| 230-250                | 2.8                  | 5.7  | 3.9   | .2    |       |       |       |       |       |       |       | 12.6       | 7.5          | 7.0            |
| (W) 260-280            | 3.0                  | 3.3  | 1.7   | .3    |       |       |       |       |       |       |       | 8.4        | 7.2          | 7.0            |
| 290-310                | 1.8                  | 2.7  | .8    | .4    |       |       |       |       |       |       |       | 5.7        | 7.1          | 6.0            |
| 320-340                | 1.7                  | 2.7  | .4    |       |       |       |       |       |       |       |       | 4.8        | 5.6          | 6.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.3        | ////         | ////           |
| TOTALS                 | 31.8                 | 43.4 | 19.6  | 1.7   |       |       |       |       |       |       |       | 100.0      | 6.4          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION: \*A\*  
 UNAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAY HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND   |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                  | GE 65 |
| (N) 350-010                      | 3.1                  | 1.9  | .1    |       |       |       |       |       |       |       |            | 5.2          | 4.4              | 4.0   |
| 020-040                          | 3.1                  | 2.0  | .6    |       | .1    |       |       |       |       |       |            | 5.9          | 5.5              | 4.0   |
| 050-070                          | 3.9                  | 2.7  | .4    |       |       |       |       |       |       |       |            | 7.0          | 4.9              | 4.0   |
| (E) 080-100                      | 3.5                  | 1.0  |       |       |       |       |       |       |       |       |            | 4.5          | 3.4              | 3.0   |
| 110-130                          | 1.4                  | 2.4  |       |       |       |       |       |       |       |       |            | 3.8          | 4.9              | 5.0   |
| 140-160                          | 4.3                  | 3.8  | .8    |       |       |       |       |       |       |       |            | 8.8          | 5.2              | 5.0   |
| (S) 170-190                      | 8.8                  | 7.4  | 1.6   |       |       |       |       |       |       |       |            | 17.8         | 5.2              | 5.0   |
| 200-220                          | 6.5                  | 4.1  | 1.4   |       |       |       |       |       |       |       |            | 11.9         | 5.1              | 4.0   |
| 230-250                          | 3.0                  | 3.7  | .4    | .1    |       |       |       |       |       |       |            | 7.2          | 5.5              | 5.0   |
| (W) 260-280                      | 2.2                  | 2.7  | .4    |       |       |       |       |       |       |       |            | 5.3          | 5.6              | 5.0   |
| 290-310                          | 2.0                  | 1.0  | 1.0   | .1    |       |       |       |       |       |       |            | 4.1          | 5.6              | 4.5   |
| 320-340                          | 3.4                  | 1.4  | .5    | .1    |       |       |       |       |       |       |            | 5.5          | 5.0              | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 13.0         | //////////////// |       |
| TOTALS                           | 45.2                 | 34.1 | 7.2   | .3    | .1    |       |       |       |       |       |            | 100.0        | 4.4              | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAY HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                      | 2.0                  | 1.2  | .2    |       | .1    |       |       |       |       |       |       | 3.5        | 5.1              | 4.0            |
| 020-040                          | 2.8                  | 1.6  | .4    | .1    | .1    |       |       |       |       |       |       | 5.1        | 5.4              | 4.0            |
| 050-070                          | 2.4                  | 1.5  | .4    |       |       |       |       |       |       |       |       | 4.3        | 5.1              | 4.0            |
| (E) 080-100                      | 1.4                  | .4   |       |       |       |       |       |       |       |       |       | 1.8        | 3.4              | 3.0            |
| 110-130                          | 2.2                  | .4   |       |       |       |       |       |       |       |       |       | 2.6        | 3.1              | 3.0            |
| 140-160                          | 6.1                  | 2.3  |       |       |       |       |       |       |       |       |       | 8.4        | 3.7              | 4.0            |
| (S) 170-190                      | 9.5                  | 7.8  | .2    |       |       |       |       |       |       |       |       | 17.5       | 4.6              | 4.0            |
| 200-220                          | 8.2                  | 5.6  | .8    |       |       |       |       |       |       |       |       | 14.5       | 4.5              | 4.0            |
| 230-250                          | 2.9                  | 1.2  | .3    |       |       |       |       |       |       |       |       | 4.4        | 4.2              | 4.0            |
| (W) 260-280                      | 2.5                  | 1.9  | .1    | .1    |       |       |       |       |       |       |       | 4.6        | 4.8              | 4.0            |
| 290-310                          | 1.3                  | .5   | .5    |       |       |       |       |       |       |       |       | 2.4        | 5.2              | 4.0            |
| 320-340                          | 1.3                  | 1.2  | .2    |       |       |       |       |       |       |       |       | 2.7        | 5.2              | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 28.2       | //////////////// |                |
| TOTALS                           | 42.6                 | 25.6 | 3.1   | .2    | .2    |       |       |       |       |       |       | 100.0      | 3.3              | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAY HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.1                  | 2.0  | .5    |       | .0    |       |       |       |       |       |            | 4.6          | 5.5            | 5.0   |
| 020-040                | 3.3                  | 3.3  | 1.4   | .2    | .0    |       |       |       |       |       |            | 8.2          | 6.2            | 6.0   |
| 050-070                | 3.4                  | 3.4  | .8    | .0    |       |       |       |       |       |       |            | 7.6          | 5.5            | 5.0   |
| (E) 080-100            | 2.4                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 3.8          | 4.1            | 4.0   |
| 110-130                | 1.6                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 2.8          | 4.4            | 4.0   |
| 140-160                | 2.8                  | 1.8  | .4    | .1    |       |       |       |       |       |       |            | 5.1          | 4.9            | 4.0   |
| (S) 170-190            | 4.8                  | 3.7  | .9    | .1    |       |       |       |       |       |       |            | 9.5          | 5.1            | 4.0   |
| 200-220                | 6.7                  | 5.7  | 2.1   | .1    |       | .0    |       |       |       |       |            | 14.7         | 5.7            | 5.0   |
| 230-250                | 3.4                  | 4.2  | 2.0   | .2    | .0    |       |       |       |       |       |            | 9.9          | 6.6            | 6.0   |
| (W) 260-280            | 2.9                  | 3.2  | 1.0   | .1    |       |       |       |       |       |       |            | 7.2          | 6.0            | 6.0   |
| 290-310                | 2.2                  | 1.8  | .5    | .1    |       |       |       |       |       |       |            | 4.7          | 5.4            | 5.0   |
| 320-340                | 1.8                  | 2.0  | .3    | .0    |       |       |       |       |       |       |            | 4.1          | 5.4            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 17.9         | ////           | ////  |
| TOTALS                 | 37.4                 | 33.5 | 10.1  | .9    |       |       |       |       |       |       |            | 100.0        | 4.6            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>% | WIND<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |           |              |                |
| (N) 350-010            | .6                   | 1.2  | .6    |       | .2    |       |       |       |       |       |       |       | 2.6       | 7.8          | 8.0            |
| 020-040                | 3.2                  | 6.2  | 3.0   | 1.4   | .2    |       |       |       |       |       |       |       | 13.9      | 8.1          | 7.5            |
| 050-070                | 5.6                  | 10.3 | 1.0   | .2    |       |       |       |       |       |       |       |       | 17.1      | 5.9          | 6.0            |
| (E) 080-100            | 5.6                  | 3.6  |       |       |       |       |       |       |       |       |       |       | 9.1       | 4.0          | 4.0            |
| 110-130                | 3.6                  | 3.2  |       |       |       |       |       |       |       |       |       |       | 6.7       | 4.3          | 4.0            |
| 140-160                | 3.4                  | 2.2  | .2    | .2    |       |       |       |       |       |       |       |       | 6.0       | 4.9          | 4.0            |
| (S) 170-190            | 3.4                  | 4.6  | .4    |       |       |       |       |       |       |       |       |       | 8.3       | 5.1          | 5.0            |
| 200-220                | 2.8                  | 3.6  | .4    |       |       |       |       |       |       |       |       |       | 6.7       | 5.3          | 5.0            |
| 230-250                | 2.0                  | 3.0  | 1.4   |       |       |       |       |       |       |       |       |       | 6.3       | 6.6          | 6.0            |
| (W) 260-280            | 1.6                  | 2.4  | .6    |       |       |       |       |       |       |       |       |       | 4.6       | 5.5          | 5.0            |
| 290-310                | 1.2                  | .8   | .4    | .2    |       |       |       |       |       |       |       |       | 2.6       | 6.5          | 5.0            |
| 320-340                | .4                   | .4   | .2    |       |       |       |       |       |       |       |       |       | 1.0       | 6.4          | 8.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |       |           |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 15.1  | ////      | ////         |                |
| TOTALS                 | 33.4                 | 41.5 | 8.2   | 2.0   | .4    |       |       |       |       |       |       |       | 100.0     | 5.0          | 5.0            |

TOTAL NUMBER OF OBSERVATIONS 504

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUN HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE-65 |
| (N) 350-010                      | 2.2                  | 1.0  |       |       |       |       |       |       |       |       |            | 3.2          | 4.0            | 4.0   |
| 020-040                          | 4.6                  | 1.2  | .2    | .1    |       |       |       |       |       |       |            | 6.1          | 3.8            | 3.0   |
| 050-070                          | 3.7                  | 2.1  |       |       |       |       |       |       |       |       |            | 5.8          | 3.7            | 3.0   |
| (E) 080-100                      | 1.7                  | .6   |       |       |       |       |       |       |       |       |            | 2.2          | 3.1            | 3.5   |
| 110-130                          | 1.7                  | .3   |       |       |       |       |       |       |       |       |            | 2.0          | 3.1            | 2.0   |
| 140-160                          | 1.9                  |      |       |       |       |       |       |       |       |       |            | 1.9          | 2.2            | 2.0   |
| (S) 170-190                      | 5.0                  | .9   |       |       |       |       |       |       |       |       |            | 5.9          | 3.0            | 2.0   |
| 200-220                          | 13.3                 | 5.3  | .4    |       |       |       |       |       |       |       |            | 19.1         | 3.8            | 4.0   |
| 230-250                          | 4.7                  | 5.0  | .3    |       |       |       |       |       |       |       |            | 10.0         | 5.0            | 5.0   |
| (W) 260-280                      | 1.9                  | 1.8  | .1    |       |       |       |       |       |       |       |            | 3.8          | 4.8            | 4.5   |
| 290-310                          | 1.8                  | 1.0  |       |       |       |       |       |       |       |       |            | 2.8          | 4.6            | 4.0   |
| 320-340                          | 1.0                  | 1.1  |       |       |       |       |       |       |       |       |            | 2.1          | 4.4            | 5.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 35.1         | //////////     |       |
| TOTALS                           | 43.5                 | 20.3 | 1.0   | .1    |       |       |       |       |       |       |            | 100.0        | 2.6            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION: \*AM\*  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUN HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.8                  | .7   | .1    |       |       |       |       |       |       |       |       | 3.6        | 3.5          | 3.0            |
| 020-040                          | 4.9                  | 1.7  | .4    |       |       |       |       |       |       |       |       | 7.0        | 4.2          | 4.0            |
| 050-070                          | 5.1                  | 2.8  | .4    |       |       |       |       |       |       |       |       | 8.3        | 4.6          | 4.0            |
| (E) 080-100                      | 2.1                  | .3   |       |       |       |       |       |       |       |       |       | 2.4        | 3.0          | 3.0            |
| 110-130                          | 1.4                  | .3   |       |       |       |       |       |       |       |       |       | 1.8        | 2.9          | 2.5            |
| 140-160                          | 1.3                  |      |       |       |       |       |       |       |       |       |       | 1.3        | 2.2          | 2.0            |
| (S) 170-190                      | 2.9                  | .2   |       |       |       |       |       |       |       |       |       | 3.1        | 2.8          | 2.0            |
| 200-220                          | 13.3                 | 2.6  |       |       |       |       |       |       |       |       |       | 15.9       | 3.3          | 3.0            |
| 230-250                          | 5.4                  | 4.8  | .6    | .1    |       |       |       |       |       |       |       | 10.9       | 5.1          | 4.5            |
| (W) 260-280                      | 3.8                  | 1.8  | .2    |       |       |       |       |       |       |       |       | 5.8        | 4.1          | 4.0            |
| 290-310                          | 2.2                  | 2.2  |       |       |       |       |       |       |       |       |       | 4.4        | 4.4          | 4.5            |
| 320-340                          | 1.3                  | .2   |       |       |       |       |       |       |       |       |       | 1.6        | 3.0          | 2.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 33.9       | ////         | ////           |
| TOTALS                           | 46.5                 | 17.6 | 1.7   | .1    |       |       |       |       |       |       |       | 100.0      | 2.6          | 3.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION \*A\*  
 USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUN HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND   |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                  | GE 65 |
| (N) 350-010                      | 2.8                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 4.0          | 3.9              | 3.5   |
| 020-040                          | 6.1                  | 3.9  | 1.9   |       |       |       |       |       |       |       |            | 11.9         | 5.1              | 4.0   |
| 050-070                          | 4.2                  | 4.2  | 1.1   |       |       |       |       |       |       |       |            | 9.6          | 5.4              | 5.0   |
| (E) 080-100                      | 3.3                  | .7   |       |       |       |       |       |       |       |       |            | 4.0          | 3.2              | 3.0   |
| 110-130                          | 1.9                  | .3   |       |       |       |       |       |       |       |       |            | 2.2          | 2.8              | 2.0   |
| 140-160                          | 1.1                  | .3   |       |       |       |       |       |       |       |       |            | 1.4          | 3.0              | 3.0   |
| (S) 170-190                      | 3.1                  | .6   |       |       |       |       |       |       |       |       |            | 3.7          | 3.3              | 3.0   |
| 200-220                          | 6.8                  | 3.0  | .1    |       |       |       |       |       |       |       |            | 9.9          | 3.9              | 4.0   |
| 230-250                          | 5.7                  | 8.9  | 1.3   | .1    |       |       |       |       |       |       |            | 16.0         | 5.8              | 6.0   |
| (W) 260-280                      | 5.0                  | 4.0  | .7    |       |       |       |       |       |       |       |            | 9.7          | 5.0              | 4.0   |
| 290-310                          | 3.1                  | 2.8  |       |       |       |       |       |       |       |       |            | 5.9          | 4.5              | 4.0   |
| 320-340                          | 1.7                  | 1.7  |       |       |       |       |       |       |       |       |            | 3.3          | 4.5              | 4.5   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 18.4         | //////////////// |       |
| TOTALS                           | 44.8                 | 31.5 | 5.2   | .1    |       |       |       |       |       |       |            | 100.0        | 3.8              | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.8                  | 2.0  | .7    | .1    |       |       |       |       |       |       |       | 5.6        | 5.2          | 4.5            |
| 020-040                          | 4.0                  | 4.9  | 1.1   |       |       |       |       |       |       |       |       | 10.0       | 5.7          | 5.0            |
| 050-070                          | 3.4                  | 5.4  | 1.4   | .2    |       |       |       |       |       |       |       | 10.6       | 6.4          | 6.0            |
| (E) 080-100                      | 3.1                  | 3.1  | .9    |       |       |       |       |       |       |       |       | 7.1        | 5.5          | 5.0            |
| 110-130                          | 2.7                  | 2.0  | .1    |       |       |       |       |       |       |       |       | 4.8        | 4.4          | 4.0            |
| 140-160                          | 2.1                  | .9   |       |       |       |       |       |       |       |       |       | 3.0        | 3.5          | 3.0            |
| (S) 170-190                      | 3.3                  | 1.1  |       |       |       |       |       |       |       |       |       | 4.4        | 3.6          | 3.0            |
| 200-220                          | 3.9                  | 3.6  | .7    |       |       |       |       |       |       |       |       | 8.1        | 5.3          | 5.0            |
| 230-250                          | 5.6                  | 10.1 | 1.6   | .4    |       |       |       |       |       |       |       | 17.7       | 6.2          | 6.0            |
| (W) 260-280                      | 3.9                  | 6.6  | 2.1   | .2    |       |       |       |       |       |       |       | 12.8       | 6.5          | 6.0            |
| 290-310                          | 3.8                  | 3.7  | .1    |       |       |       |       |       |       |       |       | 7.6        | 4.8          | 4.5            |
| 320-340                          | 2.7                  | 2.1  | .1    |       |       |       |       |       |       |       |       | 4.9        | 4.9          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.6        | ////         | ////           |
| TOTALS                           | 41.3                 | 45.5 | 8.8   | .9    |       |       |       |       |       |       |       | 100.0      | 5.3          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.4                  | 1.7  | .1    | .1    |       |       |       |       |       |       |       | 4.3        | 4.6          | 4.0            |
| 020-040                          | 3.0                  | 2.9  | .9    | .1    |       |       |       |       |       |       |       | 6.9        | 5.9          | 5.0            |
| 050-070                          | 3.4                  | 6.8  | 1.1   |       |       |       |       |       |       |       |       | 11.3       | 6.0          | 6.0            |
| (E) 080-100                      | 3.8                  | 4.0  | .4    |       |       |       |       |       |       |       |       | 8.2        | 5.1          | 5.0            |
| 110-130                          | 3.3                  | 1.1  | .1    |       |       |       |       |       |       |       |       | 4.6        | 4.1          | 4.0            |
| 140-160                          | 2.2                  | 3.1  | .1    |       |       |       |       |       |       |       |       | 5.4        | 5.1          | 5.0            |
| (S) 170-190                      | 2.2                  | 2.6  | .4    |       |       |       |       |       |       |       |       | 5.2        | 5.3          | 5.0            |
| 200-220                          | 3.8                  | 5.1  | 1.4   |       |       |       |       |       |       |       |       | 10.3       | 5.8          | 5.0            |
| 230-250                          | 3.9                  | 8.4  | 2.4   | .4    |       |       |       |       |       |       |       | 15.2       | 6.8          | 6.0            |
| (W) 260-280                      | 3.9                  | 6.0  | 2.1   | .1    |       |       |       |       |       |       |       | 12.1       | 6.4          | 6.0            |
| 290-310                          | 3.3                  | 3.2  | .2    |       |       |       |       |       |       |       |       | 6.8        | 5.0          | 5.0            |
| 320-340                          | 3.6                  | 2.8  | .3    |       |       |       |       |       |       |       |       | 6.7        | 4.7          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 2.9        | ////         | ////           |
| TOTALS                           | 38.8                 | 47.7 | 9.5   | .7    |       |       |       |       |       |       |       | 100.0      | 5.5          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION NAM  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.6                  | 1.6  | .1    |       |       |       |       |       |       |       |       | 4.2        | 4.4          | 4.0            |
| 020-040                          | 3.1                  | 3.3  | .4    | .1    |       |       |       |       |       |       |       | 7.0        | 5.3          | 5.0            |
| 050-070                          | 3.8                  | 5.2  | .4    |       |       |       |       |       |       |       |       | 9.4        | 5.0          | 5.0            |
| (E) 080-100                      | 3.2                  | 3.8  | .1    |       |       |       |       |       |       |       |       | 7.1        | 5.0          | 5.0            |
| 110-130                          | 2.7                  | 3.4  | .2    |       |       |       |       |       |       |       |       | 6.3        | 5.1          | 5.0            |
| 140-160                          | 3.9                  | 3.3  | .4    |       |       |       |       |       |       |       |       | 7.7        | 5.1          | 4.0            |
| (S) 170-190                      | 3.1                  | 4.2  | 1.2   |       |       |       |       |       |       |       |       | 8.6        | 5.9          | 5.0            |
| 200-220                          | 4.2                  | 5.9  | 1.8   | .1    |       |       |       |       |       |       |       | 12.0       | 6.1          | 6.0            |
| 230-250                          | 3.8                  | 8.7  | 2.2   | .2    |       |       |       |       |       |       |       | 14.9       | 6.6          | 7.0            |
| (W) 260-280                      | 2.6                  | 4.7  | 2.2   | .3    |       |       |       |       |       |       |       | 9.8        | 6.9          | 6.0            |
| 290-310                          | 2.2                  | 1.7  | 1.1   | .1    | .1    |       |       |       |       |       |       | 5.2        | 6.6          | 5.0            |
| 320-340                          | 3.1                  | .9   | .4    | .2    |       |       |       |       |       |       |       | 4.7        | 4.7          | 3.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.1        | ////         | ////           |
| TOTALS                           | 38.3                 | 46.7 | 10.5  | 1.0   | .1    |       |       |       |       |       |       | 100.0      | 5.6          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUN HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.9                  | 1.6  |       | .1    |       |       |       |       |       |       |       | 4.6        | 4.0          | 3.0            |
| 020-040                          | 3.6                  | 1.1  | .2    |       |       |       |       |       |       |       |       | 4.9        | 4.0          | 3.5            |
| 050-070                          | 3.0                  | 2.6  | .2    |       |       |       |       |       |       |       |       | 5.8        | 4.7          | 4.0            |
| (E) 080-100                      | 4.9                  | 1.7  |       |       |       |       |       |       |       |       |       | 6.6        | 3.7          | 4.0            |
| 110-130                          | 5.6                  | 1.8  | .1    |       |       |       |       |       |       |       |       | 7.4        | 3.6          | 3.0            |
| 140-160                          | 8.0                  | 3.8  | .1    |       |       |       |       |       |       |       |       | 11.9       | 3.8          | 4.0            |
| (S) 170-190                      | 7.3                  | 5.1  | .7    |       |       |       |       |       |       |       |       | 13.1       | 4.7          | 4.0            |
| 200-220                          | 7.0                  | 4.1  | .8    |       |       |       |       |       |       |       |       | 11.9       | 4.6          | 4.0            |
| 230-250                          | 6.3                  | 3.8  | .3    |       |       |       |       |       |       |       |       | 10.4       | 4.2          | 4.0            |
| (W) 260-280                      | 3.8                  | 2.0  | .7    | .1    |       |       |       |       |       |       |       | 6.6        | 5.2          | 4.0            |
| 290-310                          | .6                   | 1.3  | .6    |       |       |       |       |       |       |       |       | 2.4        | 6.5          | 6.0            |
| 320-340                          | 2.0                  | 1.3  | .1    |       |       | .1    |       |       |       |       |       | 3.6        | 5.2          | 3.5            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 10.9       | ////         | ////           |
| TOTALS                           | 55.0                 | 30.2 | 3.8   | .2    |       | .1    |       |       |       |       |       | 100.0      | 3.9          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 21-23

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.4                  | .6   |       |       |       |       |       |       |       |       |       | 2.0        | 3.6          | 3.5            |
| 020-040                | 3.2                  | 1.2  | .1    |       |       |       |       |       |       |       |       | 4.6        | 4.0          | 4.0            |
| 050-070                | 3.7                  | .9   | .1    |       |       |       |       |       |       |       |       | 4.7        | 3.7          | 3.0            |
| (E) 080-100            | 3.7                  | .2   |       |       |       |       |       |       |       |       |       | 3.9        | 2.7          | 2.0            |
| 110-130                | 4.0                  | .7   |       |       |       |       |       |       |       |       |       | 4.7        | 3.2          | 3.0            |
| 140-160                | 5.6                  | .9   |       |       |       |       |       |       |       |       |       | 6.4        | 3.1          | 3.0            |
| (S) 170-190            | 7.2                  | 3.6  | .2    |       |       |       |       |       |       |       |       | 11.0       | 4.0          | 3.0            |
| 200-220                | 10.0                 | 5.2  | .6    |       |       |       |       |       |       |       |       | 15.8       | 4.2          | 4.0            |
| 230-250                | 4.7                  | 2.8  | .4    |       |       |       |       |       |       |       |       | 7.9        | 4.4          | 4.0            |
| (W) 260-280            | 1.9                  | 1.1  | .1    |       |       |       |       |       |       |       |       | 3.1        | 4.5          | 4.0            |
| 290-310                | 1.3                  | .8   | .2    |       |       |       |       |       |       |       |       | 2.3        | 4.5          | 4.0            |
| 320-340                | 1.2                  | .5   | .1    |       |       |       |       |       |       |       |       | 2.2        | 4.5          | 4.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALH                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 31.4       | ////////     |                |
| TOTALS                 | 47.9                 | 18.9 | 1.8   |       |       |       |       |       |       |       |       | 100.0      | 2.7          | 4.0            |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION: "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 2.5                  | 1.3  | .1    | .0    |       |       |       |       |       |       |       | 3.9        | 4.3          | 4.0            |
| 020-040                           | 4.1                  | 2.5  | .7    | .0    |       |       |       |       |       |       |       | 7.3        | 4.9          | 4.0            |
| 050-070                           | 3.8                  | 3.8  | .6    | .0    |       |       |       |       |       |       |       | 8.2        | 5.2          | 5.0            |
| (E) 080-100                       | 3.2                  | 1.8  | .2    |       |       |       |       |       |       |       |       | 5.2        | 4.3          | 4.0            |
| 110-130                           | 2.9                  | 1.3  | .1    |       |       |       |       |       |       |       |       | 4.2        | 3.9          | 4.0            |
| 140-160                           | 3.3                  | 1.5  | .1    |       |       |       |       |       |       |       |       | 4.9        | 3.9          | 4.0            |
| (S) 170-190                       | 4.3                  | 2.3  | .3    |       |       |       |       |       |       |       |       | 6.9        | 4.3          | 4.0            |
| 200-220                           | 7.8                  | 4.3  | .7    | .0    |       |       |       |       |       |       |       | 12.9       | 4.5          | 4.0            |
| 230-250                           | 5.0                  | 6.6  | 1.2   | .2    |       |       |       |       |       |       |       | 12.9       | 5.7          | 6.0            |
| (W) 260-280                       | 3.3                  | 3.5  | 1.0   | .1    |       |       |       |       |       |       |       | 7.9        | 5.8          | 5.0            |
| 290-310                           | 2.3                  | 2.1  | .3    | .0    | .0    |       |       |       |       |       |       | 4.7        | 5.1          | 5.0            |
| 320-340                           | 2.1                  | 1.4  | .1    | .0    |       | .0    |       |       |       |       |       | 3.6        | 4.6          | 4.0            |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 17.4       | ////         | ////           |
| TOTALS                            | 44.6                 | 32.4 | 5.4   | .3    |       |       |       |       |       |       |       | 100.0      | 4.0          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 7200 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: ALL

.....  
CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
.....

| DIRECTION  <br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND   |       |
|--------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------------------|-------|
|                          | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                  | GE-65 |
| (N) 350-010              | 1.9                  | 3.0  | .6    | .4    |       |       |       |       |       |       |            | 6.0          | 6.7              | 6.0   |
| 020-040                  | 5.4                  | 4.7  | 2.4   | .2    |       |       |       |       |       |       |            | 12.7         | 6.1              | 6.0   |
| 050-070                  | 4.9                  | 4.1  | .4    |       |       |       |       |       |       |       |            | 9.4          | 4.8              | 4.0   |
| (E) 080-100              | 5.8                  | 1.1  |       |       |       |       |       |       |       |       |            | 6.9          | 3.2              | 3.0   |
| 110-130                  | 4.7                  | 1.3  |       |       |       |       |       |       |       |       |            | 6.0          | 3.2              | 3.0   |
| 140-160                  | 3.2                  | 1.1  |       |       |       |       |       |       |       |       |            | 4.3          | 3.3              | 3.0   |
| (S) 170-190              | 5.8                  | 1.9  |       |       |       |       |       |       |       |       |            | 7.7          | 4.2              | 3.5   |
| 200-220                  | 9.0                  | 3.4  | .9    |       |       |       |       |       |       |       |            | 13.3         | 4.1              | 3.0   |
| 230-250                  | 4.1                  | 5.2  | .4    |       |       |       |       |       |       |       |            | 9.7          | 5.5              | 6.0   |
| (W) 260-280              | 3.0                  | 1.3  | .2    |       |       |       |       |       |       |       |            | 4.5          | 4.2              | 4.0   |
| 290-310                  | 1.9                  | .9   | .4    |       |       |       |       |       |       |       |            | 3.2          | 5.0              | 4.0   |
| 320-340                  | 1.1                  | .9   | .9    | .2    |       | .2    |       |       |       |       |            | 3.2          | 8.5              | 6.0   |
| VARIABLE                 |                      |      |       |       |       |       |       |       |       |       |            |              |                  |       |
| CALM                     | //////////////////// |      |       |       |       |       |       |       |       |       |            | 13.1         | //////////////// |       |
| TOTALS                   | 50.8                 | 28.9 | 6.2   | .8    |       | .2    |       |       |       |       |            | 100.0        | 4.2              | 4.0   |

TOTAL NUMBER OF OBSERVATIONS 466

OPERATING LOCATION: MAW  
USAFETAC, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.0                  | .3   | .1    |       |       |       |       |       |       |       |       | 2.5        | 3.4          | 3.0            |
| 020-040                | 3.7                  | .9   | .2    |       |       |       |       |       |       |       |       | 4.7        | 3.9          | 4.0            |
| 050-070                | 3.9                  | 1.2  | .3    | .1    |       |       |       |       |       |       |       | 5.5        | 4.0          | 3.0            |
| (E) 080-100            | 1.4                  |      |       |       |       |       |       |       |       |       |       | 1.4        | 2.5          | 2.0            |
| 110-130                | .8                   | .1   |       |       |       |       |       |       |       |       |       | .9         | 2.4          | 2.0            |
| 140-160                | 1.5                  |      |       |       |       |       |       |       |       |       |       | 1.5        | 1.8          | 2.0            |
| (S) 170-190            | 4.6                  | .9   |       |       |       |       |       |       |       |       |       | 5.5        | 2.9          | 2.0            |
| 200-220                | 13.2                 | 6.3  | .3    |       |       |       |       |       |       |       |       | 19.9       | 3.9          | 4.0            |
| 230-250                | 5.3                  | 4.4  | .2    |       |       |       |       |       |       |       |       | 9.9        | 4.5          | 4.0            |
| (W) 260-280            | 2.8                  | 2.0  | .1    |       |       |       |       |       |       |       |       | 4.9        | 4.0          | 4.0            |
| 290-310                | 2.5                  | .9   |       |       |       |       |       |       |       |       |       | 3.3        | 3.6          | 3.0            |
| 320-340                | 1.4                  |      |       |       |       |       |       |       |       |       |       | 1.4        | 2.3          | 2.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 38.6       | ////         | ////           |
| TOTALS                 | 43.1                 | 17.0 | 1.2   | .1    |       |       |       |       |       |       |       | 100.0      | 2.3          | 3.0            |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.6                  | 1.0  |       |       |       |       |       |       |       |       |       | 3.5        | 3.5          | 3.0            |
| 020-040                          | 5.3                  | 2.4  | .1    |       |       |       |       |       |       |       |       | 7.7        | 4.0          | 4.0            |
| 050-070                          | 4.7                  | 1.3  | .3    |       |       |       |       |       |       |       |       | 6.3        | 3.8          | 3.0            |
| (E) 080-100                      | 1.1                  | .1   |       |       |       |       |       |       |       |       |       | 1.2        | 2.7          | 2.0            |
| 110-130                          | .4                   |      |       |       |       |       |       |       |       |       |       | .4         | 1.5          | 1.0            |
| 140-160                          | .3                   |      |       |       |       |       |       |       |       |       |       | .3         | 1.7          | 2.0            |
| (S) 170-190                      | 2.9                  | .1   |       |       |       |       |       |       |       |       |       | 3.0        | 2.3          | 2.0            |
| 200-220                          | 11.8                 | 4.3  |       |       |       |       |       |       |       |       |       | 16.1       | 3.5          | 3.0            |
| 230-250                          | 6.3                  | 3.5  |       |       |       |       |       |       |       |       |       | 9.9        | 4.1          | 4.0            |
| (W) 260-280                      | 3.3                  | 1.4  | .1    |       |       |       |       |       |       |       |       | 4.8        | 3.8          | 4.0            |
| 290-310                          | 1.8                  | 1.1  |       |       |       |       |       |       |       |       |       | 2.9        | 3.9          | 4.0            |
| 320-340                          | 1.7                  | .2   |       |       |       |       |       |       |       |       |       | 1.9        | 3.3          | 3.5            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALC                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 41.7       | ////         | ////           |
| TOTALS                           | 42.2                 | 15.4 | .5    |       |       |       |       |       |       |       |       | 100.0      | 2.1          | 3.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>X | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.3                  | 1.1  |       |       |       |       |       |       |       |       |       | 4.4        | 3.6          | 3.0            |
| 020-040                          | 5.3                  | 3.0  | .6    |       |       |       |       |       |       |       |       | 8.9        | 4.4          | 4.0            |
| 050-070                          | 5.1                  | 3.3  | 1.4   |       |       |       |       |       |       |       |       | 9.8        | 5.0          | 4.0            |
| (E) 080-100                      | 2.6                  | .4   |       |       |       |       |       |       |       |       |       | 3.0        | 3.2          | 3.0            |
| 110-130                          | 1.3                  | .2   |       |       |       |       |       |       |       |       |       | 1.5        | 2.9          | 2.5            |
| 140-160                          | 1.1                  |      |       |       |       |       |       |       |       |       |       | 1.1        | 2.9          | 3.0            |
| (S) 170-190                      | 2.2                  | .4   |       |       |       |       |       |       |       |       |       | 2.6        | 2.6          | 2.0            |
| 200-220                          | 9.5                  | 4.4  |       |       |       |       |       |       |       |       |       | 13.9       | 4.1          | 4.0            |
| 230-250                          | 7.6                  | 7.3  | .9    | .1    |       |       |       |       |       |       |       | 15.9       | 5.2          | 5.0            |
| (W) 260-280                      | 3.4                  | 2.4  | .2    |       |       |       |       |       |       |       |       | 6.0        | 4.3          | 4.0            |
| 290-310                          | 3.4                  | 1.0  |       |       |       |       |       |       |       |       |       | 4.4        | 3.5          | 3.0            |
| 320-340                          | 3.0                  | 1.1  |       |       |       |       |       |       |       |       |       | 4.1        | 3.5          | 3.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 24.4       | ////         | ////           |
| TOTALS                           | 47.8                 | 24.6 | 3.1   | .1    |       |       |       |       |       |       |       | 100.0      | 3.2          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.9                  | 1.4  | .1    |       |       |       |       |       |       |       |       | 5.4        | 3.9          | 3.0            |
| 020-040                          | 3.1                  | 3.9  | .5    |       |       |       |       |       |       |       |       | 7.5        | 5.4          | 5.0            |
| 050-070                          | 3.9                  | 5.5  | 1.4   |       |       |       |       |       |       |       |       | 10.8       | 6.1          | 6.0            |
| (E) 080-100                      | 3.5                  | 2.7  | .2    |       |       |       |       |       |       |       |       | 6.5        | 4.5          | 4.0            |
| 110-130                          | 2.9                  | 1.3  |       |       |       |       |       |       |       |       |       | 4.2        | 3.6          | 3.0            |
| 140-160                          | 1.9                  | .6   | .1    |       |       |       |       |       |       |       |       | 2.7        | 3.7          | 4.0            |
| (S) 170-190                      | 3.5                  | 1.3  |       |       |       |       |       |       |       |       |       | 4.8        | 3.8          | 4.0            |
| 200-220                          | 6.2                  | 6.3  | .6    | .1    |       |       |       |       |       |       |       | 13.3       | 5.3          | 5.0            |
| 230-250                          | 5.2                  | 8.1  | .8    | .1    |       |       |       |       |       |       |       | 14.1       | 5.5          | 6.0            |
| (W) 260-280                      | 5.8                  | 5.6  | 1.0   |       |       |       |       |       |       |       |       | 12.4       | 5.2          | 5.0            |
| 290-310                          | 4.2                  | 2.7  | .2    |       |       |       |       |       |       |       |       | 7.1        | 4.5          | 4.0            |
| 320-340                          | 3.1                  | 1.1  |       |       |       |       |       |       |       |       |       | 4.2        | 3.4          | 3.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 7.1        | ////         | ////           |
| TOTALS                           | 47.2                 | 40.5 | 4.9   | .2    |       |       |       |       |       |       |       | 100.0      | 4.6          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 1.                   | .6   |       |       |       |       |       |       |       |       |            | 2.6          | 4.5            | 4.0   |
| 020-040                | 3.5                  | 2.8  | .8    | .1    |       |       |       |       |       |       |            | 7.2          | 5.2            | 5.0   |
| 050-070                | 3.5                  | 5.9  | .9    |       |       |       |       |       |       |       |            | 10.3         | 5.6            | 6.0   |
| (E) 080-100            | 3.1                  | 3.7  | .4    |       |       |       |       |       |       |       |            | 7.2          | 5.2            | 5.0   |
| 110-130                | 4.7                  | 1.6  |       |       |       |       |       |       |       |       |            | 6.3          | 3.7            | 4.0   |
| 140-160                | 2.5                  | 2.8  | .2    |       |       |       |       |       |       |       |            | 5.5          | 5.2            | 5.0   |
| (S) 170-190            | 3.3                  | 1.4  | .2    |       |       |       |       |       |       |       |            | 4.9          | 4.6            | 4.0   |
| 200-220                | 4.8                  | 7.6  | 1.3   |       |       |       |       |       |       |       |            | 13.8         | 5.7            | 6.0   |
| 230-250                | 4.2                  | 10.1 | 1.8   | .1    |       |       |       |       |       |       |            | 16.2         | 6.3            | 6.0   |
| (W) 260-280            | 4.0                  | 5.5  | 1.5   | .1    |       |       |       |       |       |       |            | 11.1         | 6.2            | 6.0   |
| 290-310                | 3.3                  | 2.5  | .8    | .1    |       |       |       |       |       |       |            | 6.7          | 5.5            | 4.5   |
| 320-340                | 2.6                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 3.8          | 4.1            | 4.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 4.4          | ////           | ////  |
| TOTALS                 | 41.4                 | 45.6 | 8.0   | .4    |       |       |       |       |       |       |            | 100.0        | 5.2            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

OPERATING LOCATION "AM"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.4                  | 1.6  | .1    | .1    |       |       |       |       |       |       |       | 3.2        | 5.4          | 5.0            |
| 020-040                          | 2.0                  | 2.4  | .1    | .1    |       |       |       |       |       |       |       | 4.6        | 5.2          | 5.0            |
| 050-070                          | 2.7                  | 3.0  | .9    |       |       |       |       |       |       |       |       | 6.6        | 5.8          | 6.0            |
| (E) 080-100                      | 4.0                  | 3.5  | .6    | .1    |       |       |       |       |       |       |       | 8.3        | 5.0          | 5.0            |
| 110-130                          | 3.4                  | 2.8  | .4    |       |       |       |       |       |       |       |       | 6.7        | 5.0          | 4.0            |
| 140-160                          | 4.9                  | 3.9  | .6    | .1    | .1    |       |       |       |       |       |       | 9.7        | 5.3          | 4.0            |
| (S) 170-190                      | 5.8                  | 5.6  | 1.5   | .1    |       |       |       |       |       |       |       | 13.0       | 5.6          | 5.0            |
| 200-220                          | 5.2                  | 6.5  | 2.0   |       |       |       |       |       |       |       |       | 13.7       | 5.9          | 6.0            |
| 230-250                          | 4.3                  | 7.4  | 1.9   |       |       |       |       |       |       |       |       | 13.7       | 6.2          | 6.0            |
| (W) 260-280                      | 2.5                  | 4.0  | 1.3   | .1    |       |       |       |       |       |       |       | 7.8        | 6.2          | 6.0            |
| 290-310                          | 2.5                  | 1.5  | .5    | .1    |       |       |       |       |       |       |       | 4.6        | 5.4          | 4.0            |
| 320-340                          | 1.8                  | 1.3  | .3    |       | .1    |       |       |       |       |       |       | 3.5        | 5.6          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 4.6        | ////         | ////           |
| TOTALS                           | 40.5                 | 43.5 | 10.2  | .7    | .2    |       |       |       |       |       |       | 100.0      | 5.4          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.0                  | .8   |       |       |       |       |       |       |       |       |       | 2.8        | 3.6          | 3.0            |
| 020-040                | 2.4                  | .6   | .2    |       |       |       |       |       |       |       |       | 3.2        | 4.1          | 4.0            |
| 050-070                | 3.3                  | 1.7  | .3    |       |       |       |       |       |       |       |       | 5.4        | 4.4          | 4.0            |
| (E) 080-100            | 3.5                  | 1.7  | .1    |       |       |       |       |       |       |       |       | 5.4        | 4.2          | 4.0            |
| 110-130                | 4.2                  | 2.0  | .2    |       |       |       |       |       |       |       |       | 6.5        | 4.2          | 4.0            |
| 140-160                | 8.1                  | 2.6  | .2    |       |       |       |       |       |       |       |       | 10.9       | 3.7          | 3.0            |
| (S) 170-190            | 9.1                  | 5.5  | 1.1   | .1    |       |       |       |       |       |       |       | 15.8       | 4.8          | 4.0            |
| 200-220                | 8.8                  | 4.5  | .3    | .1    |       |       |       |       |       |       |       | 13.8       | 4.2          | 4.0            |
| 230-250                | 4.8                  | 4.4  | .8    | .1    |       |       |       |       |       |       |       | 10.1       | 5.3          | 5.0            |
| (W) 260-280            | 3.2                  | 2.7  | .4    | .1    |       |       |       |       |       |       |       | 6.5        | 4.8          | 4.5            |
| 290-310                | 1.4                  | 1.3  | .2    |       |       |       |       |       |       |       |       | 2.9        | 5.4          | 5.0            |
| 320-340                | 1.5                  | .8   | .3    | .1    |       |       |       |       |       |       |       | 2.7        | 5.6          | 4.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 14.2       | ////         | ////           |
| TOTALS                 | 52.3                 | 28.6 | 4.1   | .5    |       |       |       |       |       |       |       | 100.0      | 3.9          | 4.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 1.5                  | .3   | .1    |       |       |       |       |       |       |       |            | 1.9          | 3.7            | 3.5   |
| 020-040                          | 2.7                  | .6   | .3    |       |       |       |       |       |       |       |            | 3.7          | 3.9            | 3.0   |
| 050-070                          | 4.0                  | 1.3  | .2    | .1    |       |       |       |       |       |       |            | 5.6          | 3.8            | 2.0   |
| (E) 080-100                      | 2.4                  | .6   | .1    |       |       |       |       |       |       |       |            | 3.1          | 3.2            | 2.0   |
| 110-130                          | 1.8                  | .4   |       |       |       |       |       |       |       |       |            | 2.3          | 2.9            | 2.0   |
| 140-160                          | 4.8                  | .5   |       |       |       |       |       |       |       |       |            | 5.4          | 2.8            | 2.0   |
| (S) 170-190                      | 8.9                  | 3.5  | .3    |       |       |       |       |       |       |       |            | 12.8         | 3.7            | 3.0   |
| 200-220                          | 12.0                 | 5.7  | .2    |       |       |       |       |       |       |       |            | 18.0         | 4.0            | 4.0   |
| 230-250                          | 4.8                  | 2.8  | .3    |       |       |       |       |       |       |       |            | 8.0          | 4.2            | 4.0   |
| (W) 260-280                      | 3.1                  | 1.4  | .5    |       |       |       |       |       |       |       |            | 5.1          | 4.7            | 4.0   |
| 290-310                          | 1.7                  | .6   | .1    |       |       |       |       |       |       |       |            | 2.5          | 3.7            | 3.0   |
| 320-340                          | .9                   | .1   |       |       |       |       |       |       |       |       |            | 1.0          | 3.4            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 30.9         | ////           | ////  |
| TOTALS                           | 48.6                 | 17.8 | 2.1   | .1    |       |       |       |       |       |       |            | 100.0        | 2.6            | 3.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>% WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |       |                |                | GE 65 |
| (N) 350-010                       | 2.3                  | .9   | .1    | .0    |       |       |       |       |       |       |       | 3.3            | 3.9            | 3.0   |
| 020-040                           | 3.5                  | 2.1  | .4    | .0    |       |       |       |       |       |       |       | 6.0            | 4.6            | 4.0   |
| 050-070                           | 3.9                  | 2.9  | .7    | .0    |       |       |       |       |       |       |       | 7.5            | 5.0            | 4.0   |
| (E) 080-100                       | 2.7                  | 1.6  | .2    | .0    |       |       |       |       |       |       |       | 4.5            | 4.3            | 4.0   |
| 110-130                           | 2.4                  | 1.1  | .1    |       |       |       |       |       |       |       |       | 3.6            | 3.9            | 4.0   |
| 140-160                           | 3.1                  | 1.3  | .1    | .0    | .0    |       |       |       |       |       |       | 4.6            | 4.1            | 4.0   |
| (S) 170-190                       | 5.1                  | 2.3  | .4    | .0    |       |       |       |       |       |       |       | 7.8            | 4.3            | 4.0   |
| 200-220                           | 9.0                  | 5.7  | .6    | .0    |       |       |       |       |       |       |       | 15.3           | 4.5            | 4.0   |
| 230-250                           | 5.3                  | 6.0  | .8    | .1    |       |       |       |       |       |       |       | 12.2           | 5.3            | 5.0   |
| (W) 260-280                       | 3.5                  | 3.1  | .6    | .0    |       |       |       |       |       |       |       | 7.3            | 5.1            | 5.0   |
| 29-310                            | 2.6                  | 1.4  | .2    | .0    |       |       |       |       |       |       |       | 4.3            | 4.5            | 4.0   |
| 320-340                           | 2.0                  | .7   | .1    | .0    | .0    |       |       |       |       |       |       | 2.8            | 4.1            | 4.0   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |                |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 20.7           | ////           | ////  |
| TOTALS                            | 45.4                 | 29.1 | 4.3   | .1    |       |       |       |       |       |       |       | 100.0          | 3.7            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 7440 |                      |      |       |       |       |       |       |       |       |       |       |                |                |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |                                  |                | GE 65 |
| (N) 350-010            | 1.3                                  | .7   | .4    |       |       |       |       |       |       |       |            | 2.4                              | 5.0            | 4.0   |
| 020-040                | 4.7                                  | 3.5  | .9    | .2    |       |       |       |       |       |       |            | 9.3                              | 5.4            | 4.5   |
| 050-070                | 5.4                                  | 5.8  | 3.7   | .4    |       |       |       |       |       |       |            | 15.3                             | 6.7            | 6.0   |
| (E) 080-100            | 3.0                                  | 1.1  | .4    |       |       |       |       |       |       |       |            | 4.5                              | 4.2            | 4.0   |
| 110-130                | 3.2                                  | .2   |       |       |       |       |       |       |       |       |            | 3.4                              | 2.7            | 3.0   |
| 140-160                | 1.7                                  | .2   |       |       |       |       |       |       |       |       |            | 1.9                              | 2.8            | 2.5   |
| (S) 170-190            | 3.5                                  | .2   |       |       |       |       |       |       |       |       |            | 3.7                              | 2.8            | 2.0   |
| 200-220                | 9.7                                  | 5.0  | .6    | .2    |       |       |       |       |       |       |            | 15.5                             | 4.6            | 4.0   |
| 230-250                | 5.8                                  | 3.5  | .4    | .4    |       |       |       |       |       |       |            | 10.1                             | 4.7            | 4.0   |
| (W) 260-280            | 4.3                                  | .7   | .9    |       |       |       |       |       |       |       |            | 6.0                              | 4.3            | 3.0   |
| 290-310                | 2.6                                  | .9   |       |       |       |       |       |       |       |       |            | 3.5                              | 3.8            | 4.0   |
| 320-340                | 1.3                                  | .6   |       |       |       |       |       |       |       |       |            | 1.9                              | 3.5            | 3.0   |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |                                  |                |       |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       | 22.6       | //////////////////////////////// |                |       |
| TOTALS                 | 46.5                                 | 22.4 | 7.3   | 1.2   |       |       |       |       |       |       |            | 100.0                            | 3.7            | 4.0   |

TOTAL NUMBER OF OBSERVATIONS 536

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |              |                |
| (N) 350-010            | 2.3                  | .2   | .2    |       |       |       |       |       |       |       |       | 2.7   | 3.5          | 3.0            |
| 020-040                | 7.3                  | 2.6  | .1    |       |       |       |       |       |       |       |       | 10.0  | 3.7          | 3.0            |
| 050-070                | 5.6                  | 2.5  | .1    |       |       |       |       |       |       |       |       | 8.2   | 3.9          | 4.0            |
| (E) 080-100            | 1.2                  |      |       |       |       |       |       |       |       |       |       | 1.2   | 2.3          | 2.0            |
| 110-130                | 1.4                  | .3   |       |       |       |       |       |       |       |       |       | 1.7   | 2.6          | 2.0            |
| 140-160                | 1.0                  |      |       |       |       |       |       |       |       |       |       | 1.0   | 2.6          | 2.0            |
| (S) 170-190            | 2.2                  | .2   | .1    |       |       |       |       |       |       |       |       | 2.5   | 3.2          | 3.0            |
| 200-220                | 12.9                 | 5.2  |       |       |       |       |       |       |       |       |       | 18.1  | 3.7          | 3.0            |
| 230-250                | 6.0                  | 1.9  |       |       |       |       |       |       |       |       |       | 8.0   | 3.6          | 3.0            |
| (W) 260-280            | 2.9                  | .9   |       |       |       |       |       |       |       |       |       | 3.8   | 3.8          | 4.0            |
| 290-310                | 1.7                  | .2   |       |       |       |       |       |       |       |       |       | 1.9   | 3.2          | 3.0            |
| 320-340                | 1.0                  |      |       |       |       |       |       |       |       |       |       | 1.0   | 2.0          | 2.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |       |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 40.1  | ////         | ////           |
| TOTALS                 | 45.5                 | 14.0 | .5    |       |       |       |       |       |       |       |       | 100.0 | 2.1          | 3.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 -- MAR 89  
 MONTH: AUG HOURS: 03-05

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.2                  | .4   |       |       |       |       |       |       |       |       |       | 2.6        | 3.3          | 3.0            |
| 020-040                | 8.2                  | 4.5  | .3    |       |       |       |       |       |       |       |       | 13.0       | 4.1          | 4.0            |
| 050-070                | 5.6                  | 2.8  | .3    |       |       |       |       |       |       |       |       | 8.7        | 4.1          | 4.0            |
| (E) 080-100            | 1.0                  | .3   |       |       |       |       |       |       |       |       |       | 1.3        | 2.9          | 2.0            |
| 110-130                | .4                   | .1   |       |       |       |       |       |       |       |       |       | .5         | 2.4          | 2.0            |
| 140-160                | 1.0                  |      |       |       |       |       |       |       |       |       |       | 1.0        | 2.0          | 2.0            |
| (S) 170-190            | 2.8                  |      |       |       |       |       |       |       |       |       |       | 2.8        | 2.2          | 2.0            |
| 200-220                | 10.1                 | 2.5  |       |       |       |       |       |       |       |       |       | 12.6       | 3.3          | 3.0            |
| 230-250                | 6.3                  | 3.3  |       |       |       |       |       |       |       |       |       | 9.7        | 3.9          | 4.0            |
| (W) 260-280            | 1.9                  | .9   | .1    |       |       |       |       |       |       |       |       | 2.9        | 4.3          | 4.0            |
| 290-310                | 1.8                  | .4   |       |       |       |       |       |       |       |       |       | 2.3        | 3.1          | 3.0            |
| 320-340                | 1.6                  | .1   |       |       |       |       |       |       |       |       |       | 1.7        | 2.8          | 2.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 41.0       | ////         | ////           |
| TOTALS                 | 42.9                 | 15.3 | .7    |       |       |       |       |       |       |       |       | 100.0      | 2.1          | 3.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "AM"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.0                  | 1.9  |       |       |       |       |       |       |       |       |       | 4.9        | 4.4          | 4.0            |
| 020-040                          | 7.0                  | 4.7  | 1.5   |       |       |       |       |       |       |       |       | 13.2       | 5.1          | 4.0            |
| 050-070                          | 6.7                  | 4.3  | 1.1   | .1    |       |       |       |       |       |       |       | 12.2       | 4.8          | 4.0            |
| (E) 080-100                      | 1.7                  | .8   | .2    |       |       |       |       |       |       |       |       | 2.7        | 4.1          | 3.0            |
| 110-130                          | 1.5                  |      |       |       |       |       |       |       |       |       |       | 1.5        | 2.7          | 2.5            |
| 140-160                          | .8                   | .1   |       |       |       |       |       |       |       |       |       | .9         | 3.0          | 2.5            |
| (S) 170-190                      | 2.6                  | 1.1  |       |       |       |       |       |       |       |       |       | 3.7        | 3.1          | 2.0            |
| 200-220                          | 7.0                  | 2.6  | .1    |       |       |       |       |       |       |       |       | 9.7        | 4.0          | 4.0            |
| 230-250                          | 6.3                  | 4.7  | .3    |       |       |       |       |       |       |       |       | 11.4       | 4.5          | 4.0            |
| (W) 260-280                      | 3.7                  | 2.0  |       |       |       |       |       |       |       |       |       | 5.7        | 4.2          | 4.0            |
| 290-310                          | 3.0                  | .4   |       |       |       |       |       |       |       |       |       | 3.4        | 3.3          | 3.0            |
| 320-340                          | 1.5                  | 1.0  |       |       |       |       |       |       |       |       |       | 2.5        | 4.0          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 28.3       | ////         | ////           |
| TOTALS                           | 44.8                 | 23.6 | 3.2   | .1    |       |       |       |       |       |       |       | 100.0      | 3.1          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: AUG HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |     |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-----|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |     |
| (N) 350-010                      | 2.2                  | 1.5  |       |       |       |       |       |       |       |       |       |            | 3.7          | 3.9            | 4.0 |
| 020-040                          | 4.4                  | 5.9  | 1.3   | .1    |       |       |       |       |       |       |       |            | 11.7         | 6.1            | 6.0 |
| 050-070                          | 4.8                  | 7.7  | 2.7   | .2    |       |       |       |       |       |       |       |            | 15.5         | 6.3            | 6.0 |
| (E) 080-100                      | 2.9                  | 3.2  | .3    |       |       |       |       |       |       |       |       |            | 6.5          | 4.9            | 5.0 |
| 110-130                          | 2.6                  | 1.1  |       |       |       |       |       |       |       |       |       |            | 3.7          | 3.8            | 4.0 |
| 140-160                          | 3.7                  | .6   | .1    |       |       |       |       |       |       |       |       |            | 4.4          | 3.2            | 3.0 |
| (S) 170-190                      | 3.8                  | 1.1  | .1    |       |       |       |       |       |       |       |       |            | 4.9          | 3.7            | 4.0 |
| 200-220                          | 4.5                  | 4.0  | .4    |       |       |       |       |       |       |       |       |            | 8.9          | 4.9            | 4.0 |
| 230-250                          | 4.1                  | 7.3  | 1.1   |       |       |       |       |       |       |       |       |            | 12.5         | 5.9            | 6.0 |
| (W) 260-280                      | 4.8                  | 5.3  | .5    |       |       |       |       |       |       |       |       |            | 10.6         | 5.3            | 5.0 |
| 290-310                          | 4.4                  | 2.0  |       |       |       |       |       |       |       |       |       |            | 6.5          | 4.0            | 4.0 |
| 320-340                          | 2.4                  | .8   |       |       |       |       |       |       |       |       |       |            | 3.1          | 3.7            | 4.0 |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |     |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 8.1        | ////         | ////           |     |
| TOTALS                           | 44.6                 | 40.5 | 6.5   | .3    |       |       |       |       |       |       |       |            | 100.0        | 4.7            | 5.0 |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |     |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: AUG HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.1                  | 1.8  | .3    |       |       |       |       |       |       |       |       | 5.3        | 4.7          | 4.0            |
| 020-040                          | 3.4                  | 5.5  | 1.5   | .3    |       |       |       |       |       |       |       | 10.8       | 6.3          | 6.0            |
| 050-070                          | 3.8                  | 8.3  | 2.5   |       |       |       |       |       |       |       |       | 14.5       | 6.4          | 6.0            |
| (E) 080-100                      | 3.8                  | 3.8  | .3    |       |       |       |       |       |       |       |       | 7.8        | 5.1          | 5.0            |
| 110-130                          | 2.5                  | 2.3  |       |       |       |       |       |       |       |       |       | 4.7        | 4.5          | 4.0            |
| 140-160                          | 3.1                  | 2.3  | .1    |       |       |       |       |       |       |       |       | 5.5        | 4.4          | 4.0            |
| (S) 170-190                      | 2.8                  | 2.6  | .4    | .3    |       |       |       |       |       |       |       | 6.1        | 5.7          | 5.0            |
| 200-220                          | 3.3                  | 4.2  | 1.1   |       |       |       |       |       |       |       |       | 8.6        | 5.6          | 5.0            |
| 230-250                          | 4.5                  | 7.6  | 1.2   |       |       |       |       |       |       |       |       | 13.3       | 5.9          | 6.0            |
| (W) 260-280                      | 3.5                  | 4.4  | 1.3   |       |       |       |       |       |       |       |       | 9.8        | 6.1          | 6.0            |
| 290-310                          | 3.0                  | 2.4  | .1    |       |       |       |       |       |       |       |       | 5.5        | 4.6          | 4.0            |
| 320-340                          | 2.9                  | 1.1  |       |       |       |       |       |       |       |       |       | 4.0        | 3.9          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 4.1        | ////         | ////           |
| TOTALS                           | 39.7                 | 46.3 | 9.3   | .6    |       |       |       |       |       |       |       | 100.0      | 5.3          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.7                  | 1.6  | .5    |       |       |       |       |       |       |       |       | 3.9        | 5.7          | 5.5            |
| 020-040                          | 4.3                  | 5.4  | 2.0   | .1    |       |       |       |       |       |       |       | 11.8       | 6.2          | 6.0            |
| 050-070                          | 4.0                  | 4.9  | 1.7   | .1    |       |       |       |       |       |       |       | 10.8       | 6.0          | 6.0            |
| (E) 080-100                      | 5.1                  | 4.0  | .3    |       |       |       |       |       |       |       |       | 9.4        | 4.8          | 4.0            |
| 110-130                          | 3.8                  | 2.0  | .5    | .1    |       |       |       |       |       |       |       | 6.5        | 5.2          | 4.0            |
| 140-160                          | 3.4                  | 3.8  | .3    |       |       |       |       |       |       |       |       | 7.5        | 5.0          | 5.0            |
| (S) 170-190                      | 4.0                  | 4.0  | 1.1   |       |       |       |       |       |       |       |       | 9.0        | 5.5          | 5.0            |
| 200-220                          | 4.3                  | 7.5  | 1.9   |       |       |       |       |       |       |       |       | 13.8       | 6.1          | 6.0            |
| 230-250                          | 4.1                  | 5.7  | 1.4   | .1    |       |       |       |       |       |       |       | 11.3       | 6.0          | 6.0            |
| (W) 260-280                      | 2.8                  | 2.4  | .3    | .1    |       |       |       |       |       |       |       | 5.6        | 5.2          | 4.5            |
| 290-310                          | 2.0                  | 1.4  | .2    |       |       |       |       |       |       |       |       | 3.7        | 4.8          | 4.0            |
| 320-340                          | 1.2                  | 1.5  | .1    |       |       |       |       |       |       |       |       | 2.8        | 4.7          | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 4.1        | ////         | ////           |
| TOTALS                           | 40.7                 | 44.2 | 10.3  | .5    |       |       |       |       |       |       |       | 100.0      | 5.4          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 1.8                  | .2   | .2    | .1    |       |       |       |       |       |       |            | 2.4          | 4.8            | 3.0   |
| 020-040                          | 4.6                  | 2.3  | .4    | .1    |       |       |       |       |       |       |            | 7.4          | 4.4            | 4.0   |
| 050-070                          | 5.6                  | 3.4  | 8     | .1    |       |       |       |       |       |       |            | 9.9          | 4.8            | 4.0   |
| (E) 080-100                      | 4.7                  | 1.9  | .2    |       |       |       |       |       |       |       |            | 6.9          | 4.0            | 3.5   |
| 110-130                          | 3.4                  | .6   |       |       |       |       |       |       |       |       |            | 4.1          | 3.2            | 2.0   |
| 140-160                          | 7.4                  | 1.7  | .3    |       |       |       |       |       |       |       |            | 9.5          | 3.5            | 3.0   |
| (S) 170-190                      | 8.5                  | 2.3  | .5    |       |       |       |       |       |       |       |            | 11.3         | 3.9            | 4.0   |
| 200-220                          | 9.2                  | 4.4  | 1.1   |       |       |       |       |       |       |       |            | 14.7         | 4.4            | 4.0   |
| 230-250                          | 3.4                  | 1.9  | .2    |       |       |       |       |       |       |       |            | 5.6          | 4.6            | 4.0   |
| (W) 260-280                      | 2.4                  | .6   | .1    |       |       |       |       |       |       |       |            | 3.1          | 4.0            | 4.0   |
| 290-310                          | 1.4                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 2.8          | 5.1            | 4.5   |
| 320-340                          | 1.9                  | .2   | .1    |       |       |       |       |       |       |       |            | 2.3          | 3.2            | 3.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 20.1         | ////////       |       |
| TOTALS                           | 54.3                 | 20.8 | 4.0   | .3    |       |       |       |       |       |       |            | 100.0        | 3.4            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND         | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |                      |                | GE 65 |
| (N) 350-010                      | 1.7                  | .4   | .3    |       |       |       |       |       |       |       |            | 2.5                  | 4.3            | 4.0   |
| 020-040                          | 5.3                  | 1.6  |       |       |       |       |       |       |       |       |            | 6.9                  | 3.5            | 3.0   |
| 050-070                          | 6.0                  | 2.0  | .2    |       |       |       |       |       |       |       |            | 8.3                  | 3.8            | 3.0   |
| (E) 080-100                      | 1.7                  | .4   | .3    |       |       |       |       |       |       |       |            | 2.5                  | 4.4            | 4.0   |
| 110-130                          | 2.7                  | .3   | .1    |       |       |       |       |       |       |       |            | 3.1                  | 3.2            | 3.0   |
| 140-160                          | 3.8                  | .4   |       |       |       |       |       |       |       |       |            | 4.2                  | 2.9            | 2.0   |
| (S) 170-190                      | 7.3                  | 1.6  | .3    |       |       |       |       |       |       |       |            | 9.2                  | 3.4            | 2.5   |
| 200-220                          | 10.6                 | 4.5  | 1.0   |       |       |       |       |       |       |       |            | 16.1                 | 4.1            | 4.0   |
| 230-250                          | 2.8                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 4.2                  | 4.1            | 4.0   |
| (W) 260-280                      | 2.0                  | .5   | .2    |       |       |       |       |       |       |       |            | 2.8                  | 4.0            | 4.0   |
| 290-310                          | 1.3                  | .4   | .1    |       |       |       |       |       |       |       |            | 1.8                  | 4.5            | 3.0   |
| 320-340                          | .5                   | .2   |       |       |       |       |       |       |       |       |            | .8                   | 3.3            | 3.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |                      |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       | 37.6       | //////////////////// |                |       |
| TOTALS                           | 45.7                 | 13.6 | 2.6   |       |       |       |       |       |       |       |            | 100.0                | 2.4            | 3.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |                      |                |       |

OPERATING LOCATION #A#  
USAFETAC, ASHEVILLE NC

PERCENTAGE-FREQUENCY-OF-OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                       | 2.2                  | 1.0  | .2    | .0    |       |       |       |       |       |       |            | 3.5          | 4.4            | 4.0   |
| 020-040                           | 5.6                  | 4.1  | .9    | .1    |       |       |       |       |       |       |            | 10.6         | 5.0            | 4.0   |
| 050-070                           | 5.3                  | 4.5  | 1.2   | .1    |       |       |       |       |       |       |            | 11.0         | 5.2            | 5.0   |
| (E) 080-100                       | 2.8                  | 1.8  | .2    |       |       |       |       |       |       |       |            | 4.8          | 4.5            | 4.0   |
| 110-130                           | 2.3                  | .8   | .1    | .0    |       |       |       |       |       |       |            | 3.2          | 3.9            | 4.0   |
| 140-160                           | 3.0                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 4.2          | 3.8            | 3.0   |
| (S) 170-190                       | 4.2                  | 1.6  | .3    | .0    |       |       |       |       |       |       |            | 6.2          | 4.1            | 4.0   |
| 200-220                           | 7.8                  | 4.4  | .7    |       |       |       |       |       |       |       |            | 12.8         | 4.4            | 4.0   |
| 230-250                           | 4.7                  | 4.2  | .5    | .0    |       |       |       |       |       |       |            | 9.5          | 5.0            | 5.0   |
| (W) 260-280                       | 3.0                  | 2.1  | .4    | .0    |       |       |       |       |       |       |            | 5.5          | 4.9            | 4.0   |
| 290-310                           | 2.3                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 3.5          | 4.2            | 4.0   |
| 320-340                           | 1.6                  | .6   | .0    |       |       |       |       |       |       |       |            | 2.3          | 3.7            | 3.5   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |            | 22.9         | ////           | ////  |
| TOTALS                            | 44.8                 | 27.3 | 4.7   | .2    |       |       |       |       |       |       |            | 100.0        | 3.6            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 7440 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: ALL

.....  
CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
.....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.1                  | 1.2  | 1.0   | .1    |       |       |       |       |       |       |       | 4.5        | 6.1          | 5.0            |
| 020-040                | 5.5                  | 7.0  | 2.1   | .9    |       |       |       |       |       |       |       | 15.6       | 6.3          | 6.0            |
| 050-070                | 7.5                  | 7.5  | 2.1   |       |       |       |       |       |       |       |       | 17.1       | 5.5          | 5.0            |
| (E) 080-100            | 3.1                  | 2.8  | .6    |       |       |       |       |       |       |       |       | 6.6        | 5.0          | 5.0            |
| 110-130                | 2.1                  | .7   |       |       |       |       |       |       |       |       |       | 2.8        | 3.6          | 3.0            |
| 140-160                | 2.2                  | .4   | .4    |       |       |       |       |       |       |       |       | 3.1        | 4.0          | 3.0            |
| (S) 170-190            | 4.0                  | 1.5  | .4    | .1    |       |       |       |       |       |       |       | 6.1        | 4.7          | 4.0            |
| 200-220                | 5.8                  | 3.3  | .6    |       |       |       |       |       |       |       |       | 9.7        | 4.8          | 4.0            |
| 230-250                | 3.3                  | 2.5  |       |       |       |       |       |       |       |       |       | 5.8        | 4.3          | 4.0            |
| (W) 260-280            | 2.4                  | .7   | .4    |       |       |       |       |       |       |       |       | 3.6        | 4.7          | 4.0            |
| 290-310                | 1.8                  | .7   |       |       |       |       |       |       |       |       |       | 2.5        | 4.2          | 4.0            |
| 320-340                | 2.1                  | .1   |       |       |       |       |       |       |       |       |       | 2.2        | 2.8          | 2.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 20.1       | ////         | ////           |
| TOTALS                 | 41.9                 | 28.4 | 7.6   | 1.1   |       |       |       |       |       |       |       | 100.0      | 4.1          | 4.0            |

TOTAL NUMBER OF OBSERVATIONS 667

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 74790U

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: SEP HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 1.4                  | 1.0  | .1    |       |       |       |       |       |       |       |            | 2.6          | 4.9            | 4.0   |
| 020-040                          | 13.4                 | 6.4  | .9    |       |       |       |       |       |       |       |            | 20.8         | 4.4            | 4.0   |
| 050-070                          | 6.2                  | 3.2  | .8    |       |       |       |       |       |       |       |            | 10.2         | 4.5            | 4.0   |
| (E) 080-100                      | 1.7                  | .7   |       | .1    | .1    |       |       |       |       |       |            | 2.6          | 5.1            | 3.0   |
| 110-130                          | .9                   |      |       | .1    |       |       |       |       |       |       |            | 1.0          | 3.3            | 2.0   |
| 140-160                          | .4                   |      |       |       |       |       |       |       |       |       |            | .4           | 1.5            | 1.5   |
| (S) 170-190                      | 1.4                  | .4   | .1    |       |       |       |       |       |       |       |            | 2.0          | 3.7            | 3.0   |
| 200-220                          | 8.6                  | 1.9  | .2    |       |       |       |       |       |       |       |            | 10.7         | 3.4            | 2.0   |
| 230-250                          | 3.0                  | .9   | .1    |       |       |       |       |       |       |       |            | 4.0          | 3.6            | 3.5   |
| (W) 260-280                      | 1.0                  | .4   | .1    |       |       |       |       |       |       |       |            | 1.6          | 4.6            | 4.0   |
| 290-310                          | 1.6                  | .3   |       |       |       |       |       |       |       |       |            | 1.9          | 3.3            | 3.0   |
| 320-340                          | 1.0                  | .3   | .1    |       |       |       |       |       |       |       |            | 1.4          | 4.7            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       | 40.9       | ////////     |                |       |
| TOTALS                           | 40.6                 | 15.5 | 2.4   | .2    | .1    |       |       |       |       |       |            | 100.0        | 2.5            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: SEP HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 3.3                  | 1.7  | .2    |       |       |       |       |       |       |       |            | 5.2          | 4.2            | 4.0   |
| 020-040                          | 13.2                 | 9.8  | 1.2   |       |       |       |       |       |       |       |            | 24.2         | 4.9            | 4.0   |
| 050-070                          | 6.9                  | 3.4  | 1.0   |       |       |       |       |       |       |       |            | 11.3         | 4.5            | 4.0   |
| (E) 080-100                      | 1.6                  | .1   |       |       |       |       |       |       |       |       |            | 1.7          | 2.7            | 2.0   |
| 110-130                          | .6                   |      |       | .1    |       |       |       |       |       |       |            | .7           | 4.7            | 2.0   |
| 140-160                          | .2                   | .1   |       | .2    |       |       |       |       |       |       |            | .6           | 9.4            | 7.0   |
| (S) 170-190                      | 1.2                  | .3   |       |       |       |       |       |       |       |       |            | 1.6          | 3.1            | 2.0   |
| 200-220                          | 6.7                  | 1.2  |       |       |       |       |       |       |       |       |            | 7.9          | 3.2            | 3.0   |
| 230-250                          | 2.4                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 3.7          | 3.9            | 4.0   |
| (W) 260-280                      | 2.4                  | .9   |       |       |       |       |       |       |       |       |            | 3.3          | 3.5            | 4.0   |
| 290-310                          | 1.4                  | .7   |       |       |       |       |       |       |       |       |            | 2.1          | 3.7            | 3.0   |
| 320-340                          | .7                   | 1.0  |       |       |       |       |       |       |       |       |            | 1.7          | 4.7            | 5.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 36.1         | ////           | ////  |
| TOTALS                           | 40.6                 | 20.3 | 2.5   | .3    |       |       |       |       |       |       |            | 100.0        | 2.7            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.9                  | 2.4  | .1    |       |       |       |       |       |       |       |            | 5.4          | 4.7            | 4.0   |
| 020-04                           | 11.4                 | 12.7 | 2.1   |       |       |       |       |       |       |       |            | 26.2         | 5.3            | 5.0   |
| 050-070                          | 8.1                  | 7.0  | 2.0   |       |       |       |       |       |       |       |            | 17.1         | 5.2            | 5.0   |
| (E) 080-100                      | 1.9                  | .1   |       |       |       |       |       |       |       |       |            | 2.0          | 2.8            | 2.5   |
| 110-130                          | .4                   |      |       |       |       |       |       |       |       |       |            | .4           | 2.5            | 2.0   |
| 140-160                          | .3                   | .1   |       |       |       |       |       |       |       |       |            | .4           | 3.8            | 3.5   |
| (S) 170-190                      | 1.0                  | .3   |       | .2    |       |       |       |       |       |       |            | 1.6          | 5.0            | 3.0   |
| 200-220                          | 6.0                  | 2.1  |       | .1    |       |       |       |       |       |       |            | 8.2          | 3.9            | 4.0   |
| 230-250                          | 3.6                  | 1.9  |       |       |       |       |       |       |       |       |            | 5.4          | 4.4            | 4.0   |
| (W) 260-280                      | 2.4                  | .8   |       |       |       |       |       |       |       |       |            | 3.2          | 3.4            | 3.0   |
| 290-310                          | 2.1                  | 1.0  |       |       |       |       |       |       |       |       |            | 3.1          | 4.1            | 4.0   |
| 320-340                          | .9                   | .6   | .2    |       |       |       |       |       |       |       |            | 1.7          | 4.8            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 25.1         | ////           | ////  |
| TOTALS                           | 41.0                 | 29.0 | 4.4   | .3    |       |       |       |       |       |       |            | 100.0        | 3.6            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION: USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AIR SC  
LPT TO UIC: 4-5

PERIOD OF RECORD: APR 79 - MAR 80  
MONTH: SEP HOURS: 09-11

| DIRECTION (DEGREES)              | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       |       | TOTAL % | MEAN WIND | MEDIAN WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----------|-------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-64 | GE 65 |         |           |             |
| (N) 350-010                      | 1.7                  | 1.8  | .6    |       |       |       |       |       |       |       |       |       | 4.0     | 5.5       | 5.0         |
| 020-040                          | 3.6                  | 7.9  | 5.2   | .3    |       |       |       |       |       |       |       |       | 17.0    | 7.7       | 8.0         |
| 050-070                          | 6.6                  | 14.6 | 4.9   | .7    |       |       |       |       |       |       |       |       | 26.7    | 7.0       | 7.0         |
| (E) 080-100                      | 3.3                  | 3.8  | .8    |       |       |       |       |       |       |       |       |       | 7.9     | 5.5       | 5.0         |
| 110-130                          | 2.0                  | .6   |       |       |       |       |       |       |       |       |       |       | 2.6     | 3.3       | 3.0         |
| 140-160                          | .9                   | .1   |       |       |       |       |       |       |       |       |       |       | 1.0     | 3.1       | 3.0         |
| (S) 170-190                      | 1.6                  | .8   | .2    |       |       |       |       |       |       |       |       |       | 2.6     | 4.2       | 3.0         |
| 200-220                          | 2.9                  | 2.3  | .7    | .1    |       |       |       |       |       |       |       |       | 6.0     | 5.2       | 5.0         |
| 230-250                          | 4.4                  | 4.0  | .9    | .1    |       |       |       |       |       |       |       |       | 9.4     | 5.2       | 5.0         |
| (W) 260-280                      | 3.9                  | 3.2  | .7    |       |       |       |       |       |       |       |       |       | 7.8     | 5.1       | 4.5         |
| 290-310                          | 3.3                  | 2.0  | .1    |       |       |       |       |       |       |       |       |       | 5.4     | 4.2       | 4.0         |
| 320-340                          | 1.9                  | .9   |       |       |       |       |       |       |       |       |       |       | 2.8     | 3.8       | 3.0         |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |       |         |           |             |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       |       | 6.9     | ////      | ////        |
| TOTALS                           | 36.1                 | 42.0 | 14.1  | 1.2   |       |       |       |       |       |       |       |       | 100.0   | 5.6       | 6.0         |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |       |         |           |             |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 3.2                  | 1.7  | .8    |       |       |       |       |       |       |       |            | 5.7          | 4.8            | 4.0   |
| 020-040                          | 4.0                  | 7.8  | 4.8   | .3    | .1    |       |       |       |       |       |            | 17.0         | 7.5            | 8.0   |
| 050-070                          | 4.9                  | 11.8 | 3.8   |       | .1    |       |       |       |       |       |            | 20.6         | 6.7            | 6.0   |
| (E) 080-100                      | 3.4                  | 4.0  | .4    |       |       |       |       |       |       |       |            | 7.9          | 5.3            | 5.0   |
| 110-130                          | 2.8                  | 2.3  | .1    |       |       |       |       |       |       |       |            | 5.2          | 4.6            | 4.0   |
| 140-160                          | 2.4                  | .8   | .2    | .1    |       |       |       |       |       |       |            | 3.6          | 4.3            | 3.0   |
| (S) 170-190                      | 1.4                  | 1.2  | .1    |       |       |       |       |       |       |       |            | 2.8          | 4.6            | 4.0   |
| 200-220                          | 3.1                  | 3.0  | 1.0   |       |       |       |       |       |       |       |            | 7.1          | 5.6            | 5.0   |
| 230-250                          | 5.4                  | 3.2  | 1.7   | .1    |       |       |       |       |       |       |            | 10.4         | 5.4            | 4.0   |
| (W) 260-280                      | 2.4                  | 3.2  | .7    | .1    |       |       |       |       |       |       |            | 6.4          | 5.5            | 5.0   |
| 290-310                          | 3.6                  | 2.0  | .2    |       |       |       |       |       |       |       |            | 5.8          | 4.3            | 4.0   |
| 320-340                          | 2.9                  | 2.1  | .3    |       |       |       |       |       |       |       |            | 5.3          | 4.8            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 2.2          | ////           | ////  |
| TOTALS                           | 39.5                 | 43.1 | 14.1  | .6    | .2    |       |       |       |       |       |            | 100.0        | 5.7            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 500 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LSf TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                      | 3.2                  | 2.4  | .9    |       |       |       |       |       |       |       |       | 6.6        | 5.4              | 5.0            |
| 020-040                          | 3.0                  | 8.6  | 2.6   | .1    | .2    |       |       |       |       |       |       | 14.4       | 7.0              | 7.0            |
| 050-070                          | 5.8                  | 9.7  | 2.0   |       |       |       |       |       |       |       |       | 17.4       | 6.0              | 6.0            |
| (E) 080-100                      | 3.3                  | 3.9  | .9    |       |       |       |       |       |       |       |       | 8.1        | 5.5              | 5.0            |
| 110-130                          | 4.0                  | 2.4  |       |       |       |       |       |       |       |       |       | 6.4        | 4.0              | 4.0            |
| 140-160                          | 3.0                  | 1.4  | .1    |       |       |       |       |       |       |       |       | 4.6        | 3.9              | 4.0            |
| (S) 170-190                      | 3.0                  | 1.0  | .3    | .1    | .1    |       |       |       |       |       |       | 4.6        | 4.8              | 4.0            |
| 200-220                          | 4.1                  | 3.8  | 1.0   | .1    |       |       |       |       |       |       |       | 9.0        | 5.4              | 5.0            |
| 230-250                          | 3.6                  | 4.1  | .4    |       |       |       |       |       |       |       |       | 8.1        | 5.2              | 5.0            |
| (W) 260-280                      | 2.7                  | 2.7  | .3    |       |       |       |       |       |       |       |       | 5.7        | 5.2              | 5.0            |
| 290-310                          | 3.4                  | 1.8  |       | .1    |       |       |       |       |       |       |       | 5.3        | 4.7              | 4.0            |
| 320-340                          | 3.4                  | 2.8  | .2    |       |       |       |       |       |       |       |       | 6.4        | 4.6              | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALH                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.3        | //////////////// |                |
| TOTALS                           | 42.5                 | 44.6 | 8.7   | .4    | .3    |       |       |       |       |       |       | 100.0      | 5.3              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AIR SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: SEP HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 4.3                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 5.6          | 3.3            | 2.0   |
| 020-040                          | 8.4                  | 5.8  | 2.1   |       | .1    |       |       |       |       |       |            | 16.4         | 5.4            | 4.0   |
| 050-070                          | 8.0                  | 3.0  | .7    | .2    | .2    |       |       |       |       |       |            | 12.1         | 5.1            | 4.0   |
| (E) 080-100                      | 3.7                  | 1.3  | .2    |       |       |       |       |       |       |       |            | 5.2          | 3.8            | 3.0   |
| 110-130                          | 3.9                  | .6   |       |       |       |       |       |       |       |       |            | 4.4          | 2.8            | 2.0   |
| 140-160                          | 3.7                  | .7   | .2    |       |       |       |       |       |       |       |            | 4.6          | 3.4            | 2.0   |
| (S) 170-190                      | 4.3                  | 1.6  | .1    |       |       |       |       |       |       |       |            | 6.0          | 3.5            | 3.0   |
| 200-220                          | 5.8                  | 1.8  | .1    |       |       |       |       |       |       |       |            | 7.7          | 3.5            | 3.0   |
| 230-250                          | 1.4                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 2.9          | 4.3            | 4.5   |
| (W) 260-280                      | 1.1                  | .6   |       |       |       |       |       |       |       |       |            | 1.7          | 3.6            | 4.0   |
| 290-310                          | .9                   | .3   |       |       |       |       |       |       |       |       |            | 1.2          | 4.2            | 3.0   |
| 320-340                          | 2.8                  | .8   |       |       |       |       |       |       |       |       |            | 3.6          | 3.2            | 3.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 28.7         | ////           | ////  |
| TOTALS                           | 48.3                 | 18.9 | 3.6   | .2    | .3    |       |       |       |       |       |            | 100.0        | 3.0            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.1                  | 1.1  |       |       |       |       |       |       |       |       |       | 3.2        | 3.9          | 4.0            |
| 020-040                          | 8.8                  | 5.8  | 1.3   |       |       |       |       |       |       |       |       | 15.9       | 4.9          | 4.0            |
| 050-070                          | 7.8                  | 3.1  | .8    | .3    |       |       |       |       |       |       |       | 12.0       | 4.6          | 3.0            |
| (E) 080-100                      | 1.3                  | .1   |       |       |       |       |       |       |       |       |       | 1.4        | 3.0          | 3.0            |
| 110-130                          | 1.6                  |      |       |       |       |       |       |       |       |       |       | 1.6        | 2.6          | 2.5            |
| 140-160                          | 3.0                  | .2   |       |       |       |       |       |       |       |       |       | 3.2        | 2.4          | 2.0            |
| (S) 170-190                      | 3.4                  | .6   | .2    |       |       |       |       |       |       |       |       | 4.2        | 3.7          | 3.5            |
| 200-220                          | 5.9                  | 2.2  |       |       |       |       |       |       |       |       |       | 8.1        | 3.6          | 3.0            |
| 230-250                          | 1.2                  | .8   | .1    |       |       |       |       |       |       |       |       | 2.1        | 4.2          | 4.0            |
| (W) 260-280                      | 1.1                  | .3   |       |       |       |       |       |       |       |       |       | 1.4        | 3.7          | 4.0            |
| 290-310                          | 1.0                  | .3   |       |       |       |       |       |       |       |       |       | 1.3        | 3.5          | 3.5            |
| 320-340                          | 2.0                  | .3   | .1    |       |       |       |       |       |       |       |       | 2.4        | 3.8          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 43.0       | ////         | ////           |
| TOTALS                           | 39.2                 | 14.8 | 2.5   | .3    |       |       |       |       |       |       |       | 100.0      | 2.4          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: SEP HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 2.8                  | 1.7  | .3    |       |       |       |       |       |       |       |       | 4.8        | 4.6              | 4.0            |
| 020-040                | 8.2                  | 8.1  | 2.5   | .1    | .1    |       |       |       |       |       |       | 19.0       | 5.8              | 5.0            |
| 050-070                | 6.8                  | 7.0  | 2.0   | .2    | .0    |       |       |       |       |       |       | 15.9       | 5.7              | 5.0            |
| (E) 080-100            | 2.5                  | 1.8  | .3    | .0    | .0    |       |       |       |       |       |       | 4.6        | 4.8              | 4.0            |
| 110-130                | 2.0                  | .7   | .0    | .0    |       |       |       |       |       |       |       | 2.8        | 3.7              | 3.0            |
| 140-160                | 1.8                  | .4   | .1    | .0    |       |       |       |       |       |       |       | 2.3        | 3.7              | 3.0            |
| (S) 170-190            | 2.2                  | .8   | .1    | .0    | .0    |       |       |       |       |       |       | 3.2        | 4.0              | 3.0            |
| 200-220                | 5.4                  | 2.3  | .4    | .0    |       |       |       |       |       |       |       | 8.1        | 4.2              | 3.0            |
| 230-250                | 3.1                  | 2.2  | .4    | .0    |       |       |       |       |       |       |       | 5.8        | 4.8              | 4.0            |
| (W) 260-280            | 2.1                  | 1.5  | .2    | .0    |       |       |       |       |       |       |       | 3.9        | 4.7              | 4.0            |
| 290-310                | 2.2                  | 1.1  | .0    | .0    |       |       |       |       |       |       |       | 3.3        | 4.2              | 4.0            |
| 320-340                | 1.9                  | 1.1  | .1    |       |       |       |       |       |       |       |       | 3.2        | 4.3              | 4.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       |            | //////////////// |                |
| TOTALS                 | 41.0                 | 28.7 | 6.4   | .3    | .1    |       |       |       |       |       |       | 100.0      | 3.8              | 4.0            |

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: SEP HOURS: ALL

.....  
 CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
 .....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .7                   | 2.6  | .6    |       |       |       |       |       |       |       |       | 3.8        | 6.6          | 6.0            |
| 020-040                | 6.9                  | 14.3 | 9.1   | .3    | .4    |       |       |       |       |       |       | 31.0       | 7.7          | 8.0            |
| 050-070                | 8.5                  | 10.0 | 4.2   | .9    | .3    |       |       |       |       |       |       | 23.9       | 6.7          | 6.0            |
| (E) 080-100            | 2.9                  | 1.3  | .6    | .1    | .1    |       |       |       |       |       |       | 5.1        | 5.3          | 4.0            |
| 110-130                | 2.2                  | .7   |       | .2    |       |       |       |       |       |       |       | 3.1        | 4.3          | 3.5            |
| 140-160                | 1.7                  | .2   |       | .2    |       |       |       |       |       |       |       | 2.1        | 4.6          | 4.0            |
| (S) 170-190            | 1.7                  | 1.5  | .4    | .3    |       |       |       |       |       |       |       | 3.9        | 6.1          | 6.0            |
| 200-220                | 3.1                  | 1.7  | .4    | .2    |       |       |       |       |       |       |       | 5.5        | 5.4          | 4.0            |
| 230-250                | 1.7                  | .4   | .1    | .1    |       |       |       |       |       |       |       | 2.4        | 4.8          | 4.0            |
| (W) 260-280            | 1.3                  | .7   |       |       |       |       |       |       |       |       |       | 2.0        | 3.6          | 3.5            |
| 290-310                | 1.3                  | .2   |       |       |       |       |       |       |       |       |       | 1.6        | 3.3          | 3.0            |
| 320-340                | 1.5                  | .2   |       |       |       |       |       |       |       |       |       | 1.7        | 3.1          | 3.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 13.8       | ////         | ////           |
| TOTALS                 | 33.5                 | 33.8 | 15.4  | 2.3   | .8    |       |       |       |       |       |       | 100.0      | 5.6          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 890

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.7                  | 1.5  | .4    |       |       |       |       |       |       |       |            | 4.6          | 4.4            | 4.0   |
| 020-040                | 11.0                 | 6.5  | 2.4   | .1    |       |       |       |       |       |       |            | 19.9         | 5.2            | 4.0   |
| 050-070                | 4.9                  | 3.7  | 1.0   | .1    |       |       |       |       |       |       |            | 9.7          | 5.0            | 4.0   |
| (E) 080-100            | 1.0                  | .4   | .1    |       |       |       |       |       |       |       |            | 1.5          | 4.3            | 4.0   |
| 110-130                | .3                   |      |       |       |       |       |       |       |       |       |            | .3           | 1.7            | 2.0   |
| 140-160                | 1.0                  |      |       |       |       |       |       |       |       |       |            | 1.0          | 3.0            | 3.0   |
| (S) 170-190            | 1.4                  | .5   |       |       |       |       |       |       |       |       |            | 1.9          | 3.6            | 4.0   |
| 200-220                | 4.3                  | 2.8  |       |       |       |       |       |       |       |       |            | 7.1          | 4.2            | 4.0   |
| 230-250                | 1.4                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 2.6          | 4.8            | 4.0   |
| (W) 260-280            | 1.4                  | .8   |       |       |       |       |       |       |       |       |            | 2.2          | 4.3            | 4.0   |
| 290-310                | 2.5                  | 2.0  |       |       |       |       |       |       |       |       |            | 4.5          | 4.5            | 4.0   |
| 320-340                | 1.2                  | 1.6  |       |       |       |       |       |       |       |       |            | 2.8          | 4.9            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 41.9         | ////           | ////  |
| TOTALS                 | 33.1                 | 20.9 | 4.0   | .2    |       |       |       |       |       |       |            | 100.0        | 2.8            | 4.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 03-05

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 5.6                  | 2.3  | .1    |       |       |       |       |       |       |       |       | 8.0        | 3.9          | 4.0            |
| 020-040                | 10.2                 | 9.1  | 2.7   |       |       |       |       |       |       |       |       | 22.0       | 5.3          | 5.0            |
| 050-070                | 4.7                  | 3.7  | 1.3   |       |       |       |       |       |       |       |       | 9.7        | 5.4          | 5.0            |
| (E) 080-100            | .8                   | .3   | .1    |       |       |       |       |       |       |       |       | 1.2        | 4.3          | 2.0            |
| 110-130                |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| 140-160                | .3                   | .1   |       |       |       |       |       |       |       |       |       | .4         | 3.0          | 2.5            |
| (S) 170-190            | 1.0                  | .2   |       |       |       |       |       |       |       |       |       | 1.2        | 3.4          | 3.0            |
| 200-220                | 4.4                  | 2.0  |       |       |       |       |       |       |       |       |       | 6.5        | 3.7          | 3.5            |
| 230-250                | 1.9                  | 1.8  | .2    |       |       |       |       |       |       |       |       | 4.0        | 4.9          | 5.0            |
| (W) 260-280            | 1.3                  | 1.2  | .1    |       |       |       |       |       |       |       |       | 2.6        | 4.8          | 4.5            |
| 290-310                | 2.5                  | 1.8  | .1    |       |       |       |       |       |       |       |       | 4.4        | 4.5          | 4.0            |
| 320-340                | 2.2                  | 1.9  |       |       |       |       |       |       |       |       |       | 4.1        | 4.0          | 4.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 36.0       | ////         | ////           |
| TOTALS                 | 34.9                 | 24.4 | 4.6   |       |       |       |       |       |       |       |       | 100.0      | 3.0          | 4.0            |

TOTAL NUMBER OF OBSERVATIONS: 930

OPERATING LOCATION: "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: OCT HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 5.4                  | 3.9  | .5    |       |       |       |       |       |       |       |            | 9.8          | 4.8            | 4.0   |
| 020-040                          | 10.9                 | 11.9 | 2.7   | .1    |       |       |       |       |       |       |            | 25.6         | 5.6            | 5.0   |
| 050-070                          | 5.8                  | 5.1  | 1.9   | .1    |       |       |       |       |       |       |            | 12.9         | 5.6            | 5.0   |
| (E) 080-100                      | 1.0                  | .2   |       |       |       |       |       |       |       |       |            | 1.2          | 3.3            | 3.0   |
| 110-130                          | .4                   |      |       |       |       |       |       |       |       |       |            | .4           | 2.8            | 2.5   |
| 140-160                          | .4                   | .1   |       |       |       |       |       |       |       |       |            | .5           | 2.6            | 2.0   |
| (S) 170-190                      | 1.5                  | .2   |       |       |       |       |       |       |       |       |            | 1.7          | 3.2            | 2.5   |
| 200-220                          | 2.9                  | 1.5  | .2    |       |       |       |       |       |       |       |            | 4.6          | 3.9            | 4.0   |
| 230-250                          | 1.5                  | 1.9  | .8    |       |       |       |       |       |       |       |            | 4.2          | 6.0            | 6.0   |
| (W) 260-280                      | 2.2                  | .9   | .2    |       |       |       |       |       |       |       |            | 3.2          | 4.6            | 4.0   |
| 290-310                          | 1.2                  | 1.7  |       |       |       |       |       |       |       |       |            | 2.9          | 5.1            | 6.0   |
| 320-340                          | 2.6                  | 1.6  |       |       |       |       |       |       |       |       |            | 4.2          | 4.1            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 28.7         | ////           | ////  |
| TOTALS                           | 35.8                 | 29.0 | 6.3   | .2    |       |       |       |       |       |       |            | 100.0        | 3.6            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                      | 1.2                                  | 4.4  | 1.1   | .1    |       |       |       |       |       |       |            | 6.8          | 6.9                              | 7.0   |
| 020-040                          | 4.3                                  | 13.0 | 5.7   | .5    | .1    |       |       |       |       |       |            | 23.7         | 7.6                              | 7.5   |
| 050-070                          | 5.8                                  | 9.6  | 6.3   | .1    | .1    |       |       |       |       |       |            | 21.9         | 7.2                              | 7.0   |
| (E) 080-100                      | 4.6                                  | 2.3  | .2    |       |       |       |       |       |       |       |            | 7.1          | 4.3                              | 4.0   |
| 110-130                          | 1.9                                  | .5   |       |       |       |       |       |       |       |       |            | 2.5          | 3.5                              | 3.0   |
| 140-160                          | 1.1                                  | .3   | .1    |       |       |       |       |       |       |       |            | 1.5          | 4.0                              | 3.0   |
| (S) 170-190                      | 1.6                                  | .8   | .1    |       |       |       |       |       |       |       |            | 2.5          | 4.0                              | 3.0   |
| 200-220                          | 1.8                                  | 3.7  | .8    |       |       |       |       |       |       |       |            | 6.2          | 6.0                              | 6.0   |
| 230-250                          | 1.9                                  | 5.3  | .9    |       |       |       |       |       |       |       |            | 8.1          | 6.3                              | 6.0   |
| (W) 260-280                      | 2.2                                  | 2.7  | 1.4   |       |       |       |       |       |       |       |            | 6.2          | 6.5                              | 6.0   |
| 290-310                          | 2.4                                  | .8   | .3    |       |       |       |       |       |       |       |            | 3.4          | 4.3                              | 3.0   |
| 320-340                          | 1.7                                  | 1.5  | 1.0   |       |       |       |       |       |       |       |            | 4.2          | 6.3                              | 7.0   |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 5.9          | //////////////////////////////// |       |
| TOTALS                           | 30.5                                 | 44.9 | 17.9  | .7    | .2    |       |       |       |       |       |            | 100.0        | 6.1                              | 6.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.0                  | 3.7  | 1.2   |       |       |       |       |       |       |       |            | 6.9          | 6.2            | 6.0   |
| 020-040                | 3.9                  | 9.1  | 4.8   | .2    |       |       |       |       |       |       |            | 18.1         | 7.5            | 7.0   |
| 050-070                | 4.2                  | 9.6  | 3.5   | .3    |       |       |       |       |       |       |            | 17.6         | 7.1            | 7.0   |
| (E) 080-100            | 3.3                  | 2.4  | .2    |       |       |       |       |       |       |       |            | 5.9          | 4.6            | 4.0   |
| 110-130                | 2.4                  | 2.2  | .2    |       |       |       |       |       |       |       |            | 4.7          | 4.2            | 4.5   |
| 140-160                | 2.6                  | 1.0  |       |       |       |       |       |       |       |       |            | 3.5          | 3.5            | 3.0   |
| (S) 170-190            | 1.2                  | 1.5  | .3    |       |       |       |       |       |       |       |            | 3.0          | 5.6            | 5.0   |
| 200-220                | 2.3                  | 3.4  | 1.5   | .2    |       |       |       |       |       |       |            | 7.4          | 6.7            | 6.0   |
| 230-250                | 3.2                  | 4.2  | 1.7   | .2    |       |       |       |       |       |       |            | 9.4          | 6.6            | 6.0   |
| (W) 260-280            | 4.0                  | 2.4  | 2.0   |       |       |       |       |       |       |       |            | 8.4          | 5.9            | 5.0   |
| 290-310                | 2.4                  | 1.9  | 1.5   |       |       |       |       |       |       |       |            | 5.8          | 6.3            | 6.0   |
| 320-340                | 2.0                  | 2.3  | 1.2   |       |       |       |       |       |       |       |            | 5.5          | 6.0            | 6.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 3.8          | ////           | ////  |
| TOTALS                 | 33.5                 | 43.7 | 18.1  | .9    |       |       |       |       |       |       |            | 100.0        | 6.1            | 6.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.5                  | 4.1  | 1.0   | .1    |       |       |       |       |       |       |       | 7.6        | 6.1          | 6.0            |
| 020-040                          | 4.4                  | 9.7  | 3.5   |       |       |       |       |       |       |       |       | 17.6       | 6.8          | 7.0            |
| 050-070                          | 3.9                  | 6.9  | 2.4   | .1    |       |       |       |       |       |       |       | 13.2       | 6.2          | 6.0            |
| (E) 080-100                      | 4.1                  | 2.4  | .6    |       |       |       |       |       |       |       |       | 7.1        | 4.7          | 4.0            |
| 110-130                          | 2.9                  | 1.2  |       |       |       |       |       |       |       |       |       | 4.1        | 3.7          | 3.0            |
| 140-160                          | 2.9                  | 1.1  | .1    |       |       |       |       |       |       |       |       | 4.1        | 3.6          | 3.0            |
| (S) 170-190                      | 2.8                  | 1.6  | .5    |       |       |       |       |       |       |       |       | 4.9        | 5.1          | 4.0            |
| 200-220                          | 3.7                  | 2.9  | 1.1   |       |       |       |       |       |       |       |       | 7.6        | 5.4          | 5.0            |
| 230-250                          | 4.3                  | 3.3  | 1.3   | .2    |       |       |       |       |       |       |       | 9.1        | 5.4          | 5.0            |
| (W) 260-280                      | 4.0                  | 3.0  | 1.0   |       |       |       |       |       |       |       |       | 8.0        | 5.3          | 4.5            |
| 290-310                          | 2.9                  | 2.6  | .6    |       |       |       |       |       |       |       |       | 6.1        | 5.4          | 5.0            |
| 320-340                          | 2.9                  | 1.8  | .6    |       |       |       |       |       |       |       |       | 5.4        | 5.0          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 5.1        | ////         | ////           |
| TOTALS                           | 41.3                 | 40.6 | 12.7  | .4    |       |       |       |       |       |       |       | 100.0      | 5.3          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 18-20

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                       | 3.4                  | 2.4  | .5    | .1    |       |       |       |       |       |       |            | 6.5          | 5.0            | 4.0   |
| 020-040                           | 8.4                  | 5.3  | 2.0   | .1    |       |       |       |       |       |       |            | 15.8         | 5.4            | 4.0   |
| 050-070                           | 4.9                  | 3.4  | 1.2   |       |       |       |       |       |       |       |            | 9.6          | 5.0            | 4.0   |
| (E) 080-100                       | 2.0                  | 1.0  | .1    |       |       |       |       |       |       |       |            | 3.1          | 3.9            | 4.0   |
| 110-130                           | 1.4                  | .1   |       |       |       |       |       |       |       |       |            | 1.5          | 2.4            | 2.0   |
| 140-160                           | 1.8                  | .3   |       |       |       |       |       |       |       |       |            | 2.2          | 3.3            | 2.5   |
| (S) 170-190                       | 1.9                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 3.1          | 4.0            | 3.0   |
| 200-220                           | 4.5                  | .8   | .1    |       |       |       |       |       |       |       |            | 5.4          | 3.4            | 3.0   |
| 230-250                           | 2.3                  | 1.0  | .3    |       |       |       |       |       |       |       |            | 3.5          | 4.8            | 4.0   |
| (W) 260-280                       | 1.9                  | 2.0  | .1    |       |       |       |       |       |       |       |            | 4.1          | 4.7            | 5.0   |
| 290-310                           | 1.2                  | .8   |       |       |       |       |       |       |       |       |            | 1.9          | 3.7            | 3.0   |
| 320-340                           | 3.3                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 4.5          | 3.7            | 3.0   |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |            | 38.8         | ////           | ////  |
| TOTALS                            | 37.0                 | 19.3 | 4.5   | .2    |       |       |       |       |       |       |            | 100.0        | 2.8            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS: 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 21-23

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       |  | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |  |            |              |                |
| (N) 350-010            | 2.5                  | 1.7  | .5    |       |       |       |       |       |       |       |       |  | 4.7        | 5.1          | 4.0            |
| 020-040                | 9.4                  | 6.2  | 1.9   | .4    |       |       |       |       |       |       |       |  | 18.0       | 5.2          | 4.0            |
| 050-070                | 3.7                  | 3.9  | 1.1   |       |       |       |       |       |       |       |       |  | 8.6        | 5.7          | 5.5            |
| (E) 080-100            | .8                   | .8   |       |       |       |       |       |       |       |       |       |  | 1.5        | 4.6          | 5.0            |
| 110-130                | .4                   | .1   |       |       |       |       |       |       |       |       |       |  | .5         | 3.4          | 3.0            |
| 140-160                | 1.3                  | .3   |       |       |       |       |       |       |       |       |       |  | 1.6        | 3.7          | 4.0            |
| (S) 170-190            | 1.7                  | .4   |       |       |       |       |       |       |       |       |       |  | 2.2        | 3.3          | 3.0            |
| 200-220                | 5.5                  | 1.1  |       |       |       |       |       |       |       |       |       |  | 6.6        | 3.3          | 3.0            |
| 230-250                | 1.3                  | 1.6  |       |       |       |       |       |       |       |       |       |  | 2.9        | 5.0          | 5.0            |
| (W) 260-280            | 2.3                  | 1.6  | .2    |       |       |       |       |       |       |       |       |  | 4.1        | 4.8          | 4.0            |
| 290-310                | 1.1                  | .2   | .3    |       |       |       |       |       |       |       |       |  | 1.6        | 4.7          | 4.0            |
| 320-340                | 1.0                  | .4   | .1    |       |       |       |       |       |       |       |       |  | 1.5        | 4.3          | 3.5            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |  |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       |  | 46.2       | ////////     |                |
| TOTALS                 | 31.0                 | 18.3 | 4.1   | .4    |       |       |       |       |       |       |       |  | 100.0      | 2.6          | 4.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                |
| (N) 350-010            | 3.2                  | 3.0  | .7    | .0    |       |       |       |       |       |       | 6.9        | 5.3          | 5.0            |
| 020-040                | 7.8                  | 8.9  | 3.2   | .2    | .0    |       |       |       |       |       | 20.1       | 6.1          | 6.0            |
| 050-070                | 4.7                  | 5.7  | 2.3   | .1    | .0    |       |       |       |       |       | 12.9       | 6.2          | 6.0            |
| (E) 080-100            | 2.2                  | 1.2  | .2    |       |       |       |       |       |       |       | 3.6        | 4.4          | 4.0            |
| 110-130                | 1.2                  | .5   | .0    |       |       |       |       |       |       |       | 1.8        | 3.6          | 3.0            |
| 140-160                | 1.4                  | .4   | .0    |       |       |       |       |       |       |       | 1.9        | 3.5          | 3.0            |
| (S) 170-190            | 1.6                  | .8   | .1    |       |       |       |       |       |       |       | 2.6        | 4.3          | 4.0            |
| 200-220                | 3.7                  | 2.3  | .5    | .0    |       |       |       |       |       |       | 6.4        | 4.7          | 4.0            |
| 230-250                | 2.2                  | 2.5  | .7    | .1    |       |       |       |       |       |       | 5.5        | 5.7          | 5.0            |
| (W) 260-280            | 2.4                  | 1.8  | .6    |       |       |       |       |       |       |       | 4.8        | 5.3          | 5.0            |
| 290-310                | 2.0                  | 1.5  | .4    |       |       |       |       |       |       |       | 3.8        | 5.0          | 4.0            |
| 320-340                | 2.1                  | 1.5  | .4    |       |       |       |       |       |       |       | 4.0        | 4.9          | 4.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       | 25.8       | ////         | ////           |
| TOTALS                 | 34.5                 | 30.1 | 9.1   | .4    |       |       |       |       |       |       | 100.0      | 4.0          | 5.0            |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: ALL

.....  
CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
.....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 1.8                  | 3.7  | .8    |       |       |       |       |       |       |       |            | 6.2          | 6.3            | 6.0   |
| 020-040                | 6.6                  | 18.0 | 8.6   | .1    |       |       |       |       |       |       |            | 33.4         | 7.5            | 8.0   |
| 050-070                | 4.3                  | 8.9  | 6.5   | .4    |       |       |       |       |       |       |            | 20.1         | 7.6            | 8.0   |
| (E) 080-100            | 1.6                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 3.0          | 4.4            | 4.0   |
| 110-130                | .9                   | .3   |       |       |       |       |       |       |       |       |            | 1.1          | 3.2            | 4.0   |
| 140-160                | 1.5                  | .9   | .1    |       |       |       |       |       |       |       |            | 2.5          | 4.7            | 4.0   |
| (S) 170-190            | 2.2                  | 1.3  |       |       |       |       |       |       |       |       |            | 3.4          | 4.3            | 4.0   |
| 200-220                | 1.9                  | 2.0  | .1    |       |       |       |       |       |       |       |            | 4.1          | 4.5            | 5.0   |
| 230-250                | 1.9                  | 1.8  |       |       |       |       |       |       |       |       |            | 3.7          | 5.1            | 4.0   |
| (W) 260-280            | 1.5                  | 1.0  | .1    |       |       |       |       |       |       |       |            | 2.7          | 4.8            | 4.0   |
| 290-310                | .8                   | 2.4  | .3    |       |       |       |       |       |       |       |            | 3.4          | 6.3            | 6.0   |
| 320-340                | 1.4                  | 1.5  | .4    |       |       |       |       |       |       |       |            | 3.3          | 5.8            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 13.1         | ////           | ////  |
| TOTALS                 | 26.4                 | 43.1 | 17.0  | .5    |       |       |       |       |       |       |            | 100.0        | 5.8            | 6.0   |

TOTAL NUMBER OF OBSERVATIONS 788

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 00-02

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 2.8                  | 3.1  | .6    |       |       |       |       |       |       |       |            | 6.4          | 5.1            | 5.0   |
| 020-040                          | 8.7                  | 7.2  | 1.3   | .1    |       |       |       |       |       |       |            | 17.3         | 5.1            | 4.5   |
| 050-070                          | 3.6                  | 2.9  | 1.6   |       |       |       |       |       |       |       |            | 8.0          | 6.0            | 6.0   |
| (E) 080-100                      | .3                   | .7   |       |       |       |       |       |       |       |       |            | 1.0          | 5.4            | 6.0   |
| 110-130                          | .6                   | .7   |       |       |       |       |       |       |       |       |            | 1.2          | 5.0            | 5.0   |
| 140-160                          | 1.2                  | .8   |       |       |       |       |       |       |       |       |            | 2.0          | 4.5            | 4.0   |
| (S) 170-190                      | 1.2                  | .4   | .3    |       |       |       |       |       |       |       |            | 2.0          | 5.2            | 4.0   |
| 200-220                          | 3.7                  | 1.9  | .2    |       |       |       |       |       |       |       |            | 5.8          | 3.9            | 3.0   |
| 230-250                          | 1.0                  | 2.0  | .7    |       |       |       |       |       |       |       |            | 3.7          | 6.4            | 6.0   |
| (W) 260-280                      | 2.9                  | 2.1  | .1    | .1    |       |       |       |       |       |       |            | 5.2          | 5.1            | 4.0   |
| 290-310                          | 2.8                  | 1.7  | .2    | .1    |       |       |       |       |       |       |            | 4.8          | 4.5            | 4.0   |
| 320-340                          | 2.0                  | 2.0  | .1    |       |       |       |       |       |       |       |            | 4.1          | 4.5            | 5.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 38.4         | ////////       |       |
| TOTALS                           | 30.8                 | 25.5 | 5.1   | .3    |       |       |       |       |       |       |            | 100.0        | 3.1            | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: NOV HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.0                  | 3.9  | .6    |       |       |       |       |       |       |       |       | 7.4        | 5.1          | 5.0            |
| 020-040                          | 8.7                  | 6.2  | 3.1   | .1    |       |       |       |       |       |       |       | 18.1       | 5.6          | 5.0            |
| 050-070                          | 3.7                  | 2.7  | 1.3   | .2    |       |       |       |       |       |       |       | 7.9        | 6.0          | 6.0            |
| (E) 080-100                      | .9                   | .3   | .2    |       |       |       |       |       |       |       |       | 1.4        | 5.0          | 4.0            |
| 110-130                          | .9                   | .2   | .1    |       |       |       |       |       |       |       |       | 1.2        | 4.2          | 4.0            |
| 140-160                          | 1.0                  | .3   |       |       |       |       |       |       |       |       |       | 1.3        | 3.9          | 4.0            |
| (S) 170-190                      | 1.1                  | 1.1  |       |       |       |       |       |       |       |       |       | 2.2        | 4.5          | 4.5            |
| 200-220                          | 2.9                  | 2.0  | .3    | .1    |       |       |       |       |       |       |       | 5.3        | 5.2          | 4.0            |
| 230-250                          | 2.7                  | 2.0  | .6    |       |       |       |       |       |       |       |       | 5.2        | 5.0          | 4.0            |
| (W) 260-280                      | 1.9                  | 2.1  | .2    |       |       |       |       |       |       |       |       | 4.2        | 5.4          | 5.0            |
| 290-310                          | 2.8                  | 2.3  | .4    |       |       |       |       |       |       |       |       | 5.6        | 5.0          | 4.5            |
| 320-340                          | 3.0                  | 1.7  |       |       |       |       |       |       |       |       |       | 4.7        | 3.8          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 35.3       | //////////   |                |
| TOTALS                           | 32.6                 | 24.8 | 6.8   | .4    |       |       |       |       |       |       |       | 100.0      | 3.4          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEE IN KNOTS   |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.8                  | 3.3  | .6    |       |       |       |       |       |       |       |       | 5.7        | 6.3          | 6.0            |
| 020-040                          | 7.7                  | 8.8  | 3.2   | .2    |       |       |       |       |       |       |       | 19.9       | 5.9          | 6.0            |
| 050-070                          | 5.0                  | 4.2  | 1.1   |       |       |       |       |       |       |       |       | 10.3       | 5.2          | 5.0            |
| (E) 080-100                      | .9                   | .6   |       |       |       |       |       |       |       |       |       | 1.4        | 4.6          | 4.0            |
| 110-130                          | .8                   | .4   | .1    |       |       |       |       |       |       |       |       | 1.3        | 4.6          | 4.0            |
| 140-160                          | 1.2                  | .3   | .1    |       |       |       |       |       |       |       |       | 1.7        | 4.2          | 4.0            |
| (S) 170-190                      | 1.4                  | .9   | .6    |       |       |       |       |       |       |       |       | 2.9        | 5.6          | 4.5            |
| 200-220                          | 2.3                  | 1.0  | .6    |       |       |       |       |       |       |       |       | 3.9        | 4.9          | 4.0            |
| 230-250                          | 2.3                  | 2.6  | .4    |       |       |       |       |       |       |       |       | 5.3        | 5.5          | 5.0            |
| (W) 260-280                      | 2.0                  | 2.1  | .6    |       |       |       |       |       |       |       |       | 4.7        | 5.5          | 6.0            |
| 290-310                          | 4.2                  | 2.8  | .1    |       |       |       |       |       |       |       |       | 7.1        | 4.4          | 4.0            |
| 320-340                          | 2.2                  | 1.2  | .2    |       |       |       |       |       |       |       |       | 3.7        | 4.8          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 32.1       | ////         | ////           |
| TOTALS                           | 31.8                 | 28.2 | 7.6   | .2    |       |       |       |       |       |       |       | 100.0      | 3.7          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION: "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: NOV HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.6                  | 2.8  | 2.1   |       |       |       |       |       |       |       |       | 7.4        | 6.4          | 6.0            |
| 020-040                | 4.4                  | 6.4  | 5.9   | .2    | .3    |       |       |       |       |       |       | 17.3       | 7.9          | 8.0            |
| 050-070                | 6.6                  | 8.4  | 4.4   | .1    |       |       |       |       |       |       |       | 19.6       | 6.6          | 6.0            |
| (E) 080-100            | 3.3                  | 2.0  | .1    |       |       |       |       |       |       |       |       | 5.4        | 4.3          | 4.0            |
| 110-130                | 1.8                  | .9   |       |       |       |       |       |       |       |       |       | 2.7        | 3.8          | 3.5            |
| 140-160                | 1.8                  | .8   | .1    | .1    |       |       |       |       |       |       |       | 2.8        | 5.2          | 4.0            |
| (S) 170-190            | 1.7                  | .9   | .8    |       |       |       |       |       |       |       |       | 3.3        | 5.7          | 4.5            |
| 200-220                | 2.3                  | 2.7  | 1.9   | .1    |       |       |       |       |       |       |       | 7.0        | 6.6          | 6.0            |
| 230-250                | 1.8                  | 4.4  | 3.1   | .1    |       |       |       |       |       |       |       | 9.4        | 7.6          | 8.0            |
| (W) 260-280            | 1.7                  | 3.3  | 1.4   | .1    |       |       |       |       |       |       |       | 6.6        | 6.8          | 7.0            |
| 290-310                | 1.3                  | 3.4  | 1.2   | .2    |       |       |       |       |       |       |       | 6.2        | 7.1          | 7.0            |
| 320-340                | 1.0                  | 2.2  | .2    |       |       |       |       |       |       |       |       | 3.4        | 5.8          | 6.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 8.8        | //////////   |                |
| TOTALS                 | 30.3                 | 38.2 | 21.2  | .9    | .3    |       |       |       |       |       |       | 100.0      | 6.1          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.6                  | 3.3  | 2.1   | .1    |       |       |       |       |       |       |       | 8.1        | 6.7          | 6.0            |
| 020-040                          | 3.3                  | 6.8  | 5.2   | .2    |       |       |       |       |       |       |       | 15.6       | 7.8          | 8.0            |
| 050-070                          | 4.2                  | 5.9  | 2.1   |       |       |       |       |       |       |       |       | 12.2       | 6.1          | 6.0            |
| (E) 080-100                      | 2.1                  | 1.6  | .1    |       |       |       |       |       |       |       |       | 3.8        | 4.7          | 4.0            |
| 110-130                          | 2.1                  | 1.3  | .1    |       |       |       |       |       |       |       |       | 3.6        | 4.1          | 4.0            |
| 140-160                          | 2.1                  | 1.4  | .2    |       |       |       |       |       |       |       |       | 3.8        | 4.8          | 4.0            |
| (S) 170-190                      | 1.3                  | 2.6  | 1.1   |       | .1    |       |       |       |       |       |       | 5.1        | 7.0          | 6.0            |
| 200-220                          | 2.2                  | 3.9  | 2.1   | .4    | .1    |       |       |       |       |       |       | 8.8        | 7.7          | 7.0            |
| 230-250                          | 2.1                  | 6.2  | 2.7   | .6    |       |       |       |       |       |       |       | 11.6       | 7.6          | 7.0            |
| (W) 260-280                      | 3.3                  | 3.6  | 2.9   | .7    |       |       |       |       |       |       |       | 10.4       | 7.1          | 6.5            |
| 290-310                          | 1.9                  | 3.3  | 1.8   | .2    |       |       |       |       |       |       |       | 7.2        | 7.3          | 7.0            |
| 320-340                          | 1.8                  | 3.7  | .9    | .1    |       |       |       |       |       |       |       | 6.4        | 6.6          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 3.4        | ////         | ////           |
| TOTALS                           | 29.0                 | 43.6 | 21.3  | 2.3   | .2    |       |       |       |       |       |       | 100.0      | 6.6          | 7.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.7                  | 3.9  | .9    |       |       |       |       |       |       |       |       | 7.4        | 6.0          | 6.0            |
| 020-040                          | 4.3                  | 6.7  | 2.8   |       |       |       |       |       |       |       |       | 13.8       | 6.5          | 6.0            |
| 050-070                          | 4.0                  | 5.1  | 1.1   |       |       |       |       |       |       |       |       | 10.2       | 5.6          | 5.0            |
| (E) 080-100                      | 3.1                  | 1.8  | .1    |       |       |       |       |       |       |       |       | 5.0        | 4.3          | 4.0            |
| 110-130                          | 3.4                  | 1.0  | .4    |       |       |       |       |       |       |       |       | 4.9        | 3.9          | 3.5            |
| 140-160                          | 2.3                  | 1.0  | .6    |       |       |       |       |       |       |       |       | 3.9        | 4.8          | 4.0            |
| (S) 170-190                      | 3.3                  | 2.6  | .9    |       |       |       |       |       |       |       |       | 6.8        | 5.2          | 5.0            |
| 200-220                          | 3.6                  | 3.2  | 1.2   | .3    |       |       |       |       |       |       |       | 8.3        | 6.4          | 6.0            |
| 230-250                          | 3.3                  | 4.3  | 1.3   | .1    |       |       |       |       |       |       |       | 9.1        | 6.2          | 6.0            |
| (W) 260-280                      | 3.6                  | 3.9  | 1.7   | .3    |       |       |       |       |       |       |       | 9.4        | 6.6          | 6.0            |
| 290-310                          | 3.2                  | 3.1  | 1.2   | .2    |       |       |       |       |       |       |       | 7.8        | 6.2          | 5.0            |
| 320-340                          | 2.7                  | 2.4  | .9    |       |       |       |       |       |       |       |       | 6.0        | 5.8          | 5.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 7.3        | ////         | ////           |
| TOTALS                           | 39.5                 | 39.0 | 13.1  | .9    |       |       |       |       |       |       |       | 100.0      | 5.4          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: NOV HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |                  |                | GE 65 |
| (N) 350-010                      | 3.1                  | 3.7  | .1    |       |       |       |       |       |       |       |            | 6.9              | 4.8            | 5.0   |
| 020-040                          | 5.9                  | 4.6  | 1.1   |       |       |       |       |       |       |       |            | 11.6             | 5.1            | 4.0   |
| 050-070                          | 4.0                  | 3.6  | 1.0   | .1    |       |       |       |       |       |       |            | 8.7              | 5.7            | 5.0   |
| (E) 080-100                      | 1.2                  | .4   |       |       |       |       |       |       |       |       |            | 1.7              | 3.3            | 2.0   |
| 110-130                          | 1.7                  | .7   | .1    |       |       |       |       |       |       |       |            | 2.4              | 3.5            | 2.5   |
| 140-160                          | 1.7                  | .7   | .1    |       |       |       |       |       |       |       |            | 2.4              | 4.0            | 3.0   |
| (S) 170-190                      | 2.2                  | 1.1  | .4    |       |       |       |       |       |       |       |            | 3.8              | 4.9            | 4.0   |
| 200-220                          | 4.7                  | 1.4  | .1    |       |       |       |       |       |       |       |            | 6.2              | 3.5            | 3.0   |
| 230-250                          | 2.3                  | 1.2  | .4    |       |       |       |       |       |       |       |            | 4.0              | 4.5            | 3.0   |
| (W) 260-280                      | 3.9                  | 2.1  | .2    |       |       |       |       |       |       |       |            | 6.2              | 4.5            | 4.0   |
| 290-310                          | 3.0                  | .8   | .1    |       |       |       |       |       |       |       |            | 3.9              | 3.5            | 3.0   |
| 320-340                          | 2.4                  | 1.1  | .1    |       |       |       |       |       |       |       |            | 3.7              | 4.1            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |                  |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       | 38.6       | //////////////// |                |       |
| TOTALS                           | 36.1                 | 21.4 | 3.7   | .1    |       |       |       |       |       |       |            | 100.0            | 2.8            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                      |      |       |       |       |       |       |       |       |       |            |                  |                |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                      | 1.2                                  | 2.8  | .6    |       |       |       |       |       |       |       |            | 4.6          | 6.2                              | 6.0   |
| 020-040                          | 6.9                                  | 5.3  | 1.8   |       |       |       |       |       |       |       |            | 14.0         | 5.3                              | 5.0   |
| 050-070                          | 4.6                                  | 3.4  | 1.2   | .2    |       |       |       |       |       |       |            | 9.4          | 5.6                              | 5.0   |
| (E) 080-100                      | .6                                   | .8   | .1    |       |       |       |       |       |       |       |            | 1.4          | 5.8                              | 6.0   |
| 110-130                          | .8                                   | .6   |       | .1    |       |       |       |       |       |       |            | 1.4          | 5.0                              | 4.0   |
| 140-160                          | 1.2                                  | .7   | .2    |       |       |       |       |       |       |       |            | 2.1          | 4.3                              | 3.0   |
| (S) 170-190                      | 1.4                                  | 1.6  | .4    |       |       |       |       |       |       |       |            | 3.4          | 5.8                              | 6.0   |
| 200-220                          | 3.8                                  | .9   | .4    |       |       |       |       |       |       |       |            | 5.1          | 4.3                              | 4.0   |
| 230-250                          | 1.2                                  | 2.2  | .4    |       |       |       |       |       |       |       |            | 3.9          | 6.1                              | 6.0   |
| (W) 260-280                      | 1.4                                  | 2.9  | .4    |       |       |       |       |       |       |       |            | 4.8          | 5.7                              | 5.0   |
| 290-310                          | 2.7                                  | 1.7  | .3    |       |       |       |       |       |       |       |            | 4.7          | 4.7                              | 4.0   |
| 320-340                          | 1.6                                  | 1.6  |       |       |       |       |       |       |       |       |            | 3.1          | 4.6                              | 4.5   |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 42.0         | //////////////////////////////// |       |
| TOTALS                           | 27.4                                 | 24.5 | 5.8   | .3    |       |       |       |       |       |       |            | 100.0        | 3.1                              | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 900 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.5                  | 3.3  | .9    | .0    |       |       |       |       |       |       |            | 6.7          | 5.8            | 6.0   |
| 020-040                | 6.2                  | 6.5  | 3.1   | .1    | .0    |       |       |       |       |       |            | 15.9         | 6.2            | 6.0   |
| 050-070                | 4.4                  | 4.5  | 1.7   | .1    |       |       |       |       |       |       |            | 10.8         | 5.9            | 5.0   |
| (E) 080-100            | 1.6                  | 1.0  | .1    |       |       |       |       |       |       |       |            | 2.7          | 4.5            | 4.0   |
| 110-130                | 1.5                  | .7   | .1    | .0    |       |       |       |       |       |       |            | 2.3          | 4.1            | 4.0   |
| 140-160                | 1.6                  | .8   | .2    | .0    |       |       |       |       |       |       |            | 2.5          | 4.6            | 4.0   |
| (S) 170-190            | 1.7                  | 1.4  | .6    |       | .0    |       |       |       |       |       |            | 3.7          | 5.6            | 5.0   |
| 200-220                | 3.2                  | 2.1  | .9    | .1    | .0    |       |       |       |       |       |            | 6.3          | 5.5            | 4.0   |
| 230-250                | 2.1                  | 3.1  | 1.2   | .1    |       |       |       |       |       |       |            | 6.5          | 6.5            | 6.0   |
| (W) 260-280            | 2.6                  | 2.8  | .9    | .2    |       |       |       |       |       |       |            | 6.4          | 6.0            | 6.0   |
| 290-310                | 2.7                  | 2.4  | .7    | .1    |       |       |       |       |       |       |            | 5.9          | 5.5            | 5.0   |
| 320-340                | 2.1                  | 2.0  | .3    | .0    |       |       |       |       |       |       |            | 4.4          | 5.2            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 25.8         | ////////       |       |
| TOTALS                 | 32.2                 | 30.6 | 10.7  | .7    |       |       |       |       |       |       |            | 100.0        | 4.3            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS 7200



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: NOV HOURS: ALL

.....  
 CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
 .....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 2.5                                  | 8.1  | .9    | .1    |       |       |       |       |       |       |            | 11.7         | 6.2                              | 6.0   |
| 020-040                | 5.2                                  | 8.0  | 6.1   | .6    | .3    |       |       |       |       |       |            | 20.3         | 7.6                              | 8.0   |
| 050-070                | 5.0                                  | 8.0  | 3.4   | .4    |       |       |       |       |       |       |            | 16.9         | 6.9                              | 6.0   |
| (E) 080-100            | 1.5                                  | 2.6  | .3    |       |       |       |       |       |       |       |            | 4.4          | 5.6                              | 6.0   |
| 110-130                | 1.7                                  | 1.7  | .3    | .1    |       |       |       |       |       |       |            | 3.8          | 5.3                              | 5.0   |
| 140-160                | 1.7                                  | 1.4  | .1    |       |       |       |       |       |       |       |            | 3.2          | 4.6                              | 4.0   |
| (S) 170-190            | 1.5                                  | .9   | .7    |       |       |       |       |       |       |       |            | 3.1          | 6.3                              | 5.0   |
| 200-220                | 2.6                                  | 1.9  | 1.1   |       |       |       |       |       |       |       |            | 5.6          | 5.8                              | 5.0   |
| 230-250                | 2.1                                  | 2.2  | .9    | .2    |       |       |       |       |       |       |            | 5.4          | 6.1                              | 5.0   |
| (W) 260-280            | 2.2                                  | 1.3  | .4    | .1    |       |       |       |       |       |       |            | 4.0          | 5.1                              | 4.0   |
| 290-310                | 2.1                                  | 2.3  | .2    |       |       |       |       |       |       |       |            | 4.6          | 5.0                              | 5.0   |
| 320-340                | 2.1                                  | 2.3  | .3    | .1    |       |       |       |       |       |       |            | 4.8          | 5.5                              | 5.0   |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 12.1         | //////////////////////////////// |       |
| TOTALS                 | 30.2                                 | 40.7 | 14.7  | 1.6   | .3    |       |       |       |       |       |            | 100.0        | 5.6                              | 6.0   |

TOTAL NUMBER OF OBSERVATIONS 995

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79-- MAR 89  
 MONTH: DEC HOURS: 00-02

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 3.3                  | 3.8  | 1.1   | .1    |       |       |       |       |       |       |            | 8.3          | 5.9            | 5.0   |
| 020-040                | 6.6                  | 5.8  | 1.6   | .5    |       |       |       |       |       |       |            | 14.5         | 5.9            | 5.0   |
| 050-070                | 2.6                  | 1.7  | 1.0   | .1    |       |       |       |       |       |       |            | 5.4          | 5.9            | 5.0   |
| (E) 080-100            | .8                   | .3   |       |       |       |       |       |       |       |       |            | 1.1          | 3.6            | 3.0   |
| 110-130                | .3                   | .2   |       |       |       |       |       |       |       |       |            | .5           | 3.8            | 4.0   |
| 140-160                | .2                   | .2   |       |       |       |       |       |       |       |       |            | .4           | 3.3            | 3.5   |
| (S) 170-190            | .8                   | 1.4  | .3    |       |       |       |       |       |       |       |            | 2.5          | 6.4            | 7.0   |
| 200-220                | 3.9                  | 1.4  | 1.0   |       |       |       |       |       |       |       |            | 6.2          | 4.8            | 4.0   |
| 230-250                | 2.9                  | 2.8  | .9    |       |       |       |       |       |       |       |            | 6.6          | 5.7            | 6.0   |
| (W) 260-280            | 2.3                  | 3.3  | 1.0   |       |       |       |       |       |       |       |            | 6.6          | 6.0            | 6.0   |
| 290-310                | 3.8                  | 1.8  | .3    |       |       |       |       |       |       |       |            | 5.9          | 4.5            | 4.0   |
| 320-340                | 2.5                  | 2.5  | .3    |       |       |       |       |       |       |       |            | 5.3          | 4.6            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 36.8         | ////           | ////  |
| TOTALS                 | 30.0                 | 25.2 | 7.5   | .7    |       |       |       |       |       |       |            | 100.0        | 3.5            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 03-05

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 4.0                                  | 3.8  | 1.5   | .2    |       |       |       |       |       |       |       | 9.5        | 6.1                              | 5.5            |
| 020-040                          | 7.0                                  | 5.8  | 2.9   | .4    |       |       |       |       |       |       |       | 16.1       | 6.0                              | 5.0            |
| 050-070                          | 1.9                                  | 2.5  | .6    | .1    |       |       |       |       |       |       |       | 5.2        | 5.7                              | 6.0            |
| (E) 080-100                      | .6                                   | .1   |       |       |       |       |       |       |       |       |       | .8         | 2.9                              | 2.0            |
| 110-130                          | .6                                   | .1   |       |       |       |       |       |       |       |       |       | .8         | 2.9                              | 3.0            |
| 140-160                          | .4                                   | .1   |       |       |       |       |       |       |       |       |       | .5         | 2.8                              | 2.0            |
| (S) 170-190                      | 1.3                                  | .5   | .1    |       |       |       |       |       |       |       |       | 1.9        | 4.1                              | 3.0            |
| 200-220                          | 3.5                                  | 1.6  | .6    |       |       |       |       |       |       |       |       | 5.8        | 4.9                              | 4.0            |
| 230-250                          | 2.2                                  | 3.2  | .6    |       |       |       |       |       |       |       |       | 6.0        | 6.1                              | 7.0            |
| (W) 260-280                      | 3.3                                  | 3.9  | .9    |       |       |       |       |       |       |       |       | 8.1        | 5.8                              | 5.0            |
| 290-310                          | 3.8                                  | 2.3  | .2    |       |       |       |       |       |       |       |       | 6.2        | 4.1                              | 4.0            |
| 320-340                          | 3.4                                  | 1.3  | .1    |       |       |       |       |       |       |       |       | 4.8        | 3.5                              | 3.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 34.3       | //////////////////////////////// |                |
| TOTALS                           | 32.0                                 | 25.2 | 7.5   | .7    |       |       |       |       |       |       |       | 100.0      | 3.5                              | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 4.8                  | 3.2  | 1.3   | .2    |       |       |       |       |       |       |       | 9.6        | 5.4          | 4.0            |
| 020-040                          | 5.5                  | 7.8  | 2.4   | .6    | .2    |       |       |       |       |       |       | 16.6       | 6.6          | 6.0            |
| 050-070                          | 3.0                  | 2.2  | .6    | .3    |       |       |       |       |       |       |       | 6.1        | 5.9          | 5.0            |
| (E) 080-100                      | 1.3                  | .1   |       |       |       |       |       |       |       |       |       | 1.4        | 2.5          | 2.0            |
| 110-130                          | .3                   | .2   |       |       |       |       |       |       |       |       |       | .5         | 3.2          | 3.0            |
| 140-160                          | .2                   |      |       |       |       |       |       |       |       |       |       | .2         | 2.5          | 2.5            |
| (S) 170-190                      | 1.2                  | .3   | .2    |       |       |       |       |       |       |       |       | 1.7        | 3.9          | 2.5            |
| 200-220                          | 4.5                  | 1.9  | .5    |       |       |       |       |       |       |       |       | 7.0        | 4.2          | 3.0            |
| 230-250                          | 1.8                  | 3.7  | .9    |       |       |       |       |       |       |       |       | 6.3        | 6.0          | 6.0            |
| (W) 260-280                      | 2.5                  | 4.2  | .6    |       |       |       |       |       |       |       |       | 7.3        | 5.8          | 6.0            |
| 290-310                          | 4.4                  | 1.1  | .1    | .1    |       |       |       |       |       |       |       | 5.7        | 3.9          | 4.0            |
| 320-340                          | 4.0                  | 1.2  |       | .1    |       |       |       |       |       |       |       | 5.3        | 3.9          | 3.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 32.3       | ////         | ////           |
| TOTALS                           | 33.5                 | 25.9 | 6.6   | 1.3   | .2    |       |       |       |       |       |       | 100.0      | 3.6          | 5.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: 09-11

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 1.6                                  | 2.7  | 2.2   | .6    | .2    |       |       |       |       |       |       | 7.3        | 8.5                              | 8.0            |
| 020-040                          | 4.0                                  | 7.1  | 5.1   | 1.1   | .2    | .1    |       |       |       |       |       | 17.5       | 8.2                              | 8.0            |
| 050-070                          | 4.5                                  | 4.6  | 2.8   | .4    |       | .1    |       |       |       |       |       | 12.5       | 6.9                              | 6.0            |
| (E) 080-100                      | 1.8                                  | 1.1  | .2    |       |       |       |       |       |       |       |       | 3.1        | 4.5                              | 4.0            |
| 110-130                          | .8                                   | .8   | .1    |       |       |       |       |       |       |       |       | 1.6        | 4.2                              | 5.0            |
| 140-160                          | 1.2                                  | .3   | .1    |       |       |       |       |       |       |       |       | 1.6        | 3.5                              | 2.0            |
| (S) 170-190                      | 1.9                                  | 1.0  | .5    |       |       |       |       |       |       |       |       | 3.4        | 4.9                              | 4.0            |
| 200-220                          | 3.9                                  | 3.5  | 1.6   | .2    |       |       |       |       |       |       |       | 9.2        | 6.1                              | 6.0            |
| 230-250                          | 1.9                                  | 5.4  | 2.5   | .1    |       |       |       |       |       |       |       | 9.9        | 7.4                              | 7.0            |
| (W) 260-280                      | 1.5                                  | 4.8  | 1.9   | .1    |       |       |       |       |       |       |       | 8.4        | 7.3                              | 7.0            |
| 290-310                          | 4.4                                  | 2.6  | 1.5   | .4    |       |       |       |       |       |       |       | 8.9        | 6.1                              | 5.0            |
| 320-340                          | 1.8                                  | 1.5  | 1.0   | .1    |       |       |       |       |       |       |       | 4.4        | 6.0                              | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 12.0       | //////////////////////////////// |                |
| TOTALS                           | 29.3                                 | 35.4 | 19.5  | 3.0   | .4    | .2    |       |       |       |       |       | 100.0      | 6.1                              | 6.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 12-14

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 1.5                  | 2.3  | 2.3   | .8    |       |       |       |       |       |       |            | 6.8          | 8.3            | 8.0   |
| 020-040                          | 3.5                  | 4.4  | 5.4   | .6    | .2    |       |       |       |       |       |            | 14.2         | 8.2            | 8.0   |
| 050-070                          | 4.2                  | 3.8  | 1.7   | .1    |       |       |       |       |       |       |            | 9.8          | 6.0            | 5.0   |
| (E) 080-100                      | 2.4                  | 1.3  | .1    |       |       |       |       |       |       |       |            | 3.8          | 4.1            | 4.0   |
| 110-130                          | 1.7                  | .9   | .1    | .1    |       |       |       |       |       |       |            | 2.8          | 4.2            | 3.0   |
| 140-160                          | 1.6                  | .4   | .4    |       |       |       |       |       |       |       |            | 2.5          | 4.8            | 4.0   |
| (S) 170-190                      | 2.3                  | 2.2  | 1.4   | .1    |       |       |       |       |       |       |            | 5.9          | 6.5            | 5.0   |
| 200-220                          | 1.8                  | 5.5  | 3.3   | .4    | .1    |       |       |       |       |       |            | 11.2         | 8.1            | 7.0   |
| 230-250                          | 2.8                  | 6.1  | 3.3   | .4    | .1    |       |       |       |       |       |            | 12.8         | 7.7            | 8.0   |
| (W) 260-280                      | 2.4                  | 4.9  | 2.3   | .6    | .1    |       |       |       |       |       |            | 10.3         | 7.7            | 7.0   |
| 290-310                          | 2.5                  | 2.3  | 1.6   | .2    |       |       |       |       |       |       |            | 6.6          | 6.6            | 6.0   |
| 320-340                          | 2.6                  | 2.2  | 1.5   | .6    | .1    |       |       |       |       |       |            | 7.0          | 7.2            | 6.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 6.5          | ////////       |       |
| TOTALS                           | 29.3                 | 36.3 | 23.4  | 3.9   | .6    |       |       |       |       |       |            | 100.0        | 6.7            | 7.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.3                  | 3.5  | 1.6   | .3    |       |       |       |       |       |       |       | 7.7        | 7.0          | 6.0            |
| 020-040                | 4.2                  | 4.2  | 3.3   | .5    |       |       |       |       |       |       |       | 12.3       | 7.0          | 7.0            |
| 050-070                | 4.8                  | 1.9  | .9    | .2    |       |       |       |       |       |       |       | 7.8        | 5.1          | 4.0            |
| (E) 080-100            | 1.8                  | 1.0  | .1    | .1    |       |       |       |       |       |       |       | 3.0        | 4.1          | 4.0            |
| 110-130                | 2.7                  | .6   | .1    | .1    |       |       |       |       |       |       |       | 3.5        | 4.0          | 3.0            |
| 140-160                | 1.2                  | .5   | .2    |       |       |       |       |       |       |       |       | 1.9        | 4.4          | 4.0            |
| (S) 170-190            | 3.4                  | 1.7  | .6    | .1    |       |       |       |       |       |       |       | 5.9        | 5.3          | 4.0            |
| 200-220                | 3.4                  | 6.1  | 2.0   |       |       |       |       |       |       |       |       | 11.6       | 6.6          | 6.0            |
| 230-250                | 3.1                  | 6.2  | 2.7   | .3    | .1    |       |       |       |       |       |       | 12.5       | 7.1          | 6.0            |
| (W) 260-280            | 4.1                  | 3.8  | 2.0   | .1    |       |       |       |       |       |       |       | 10.0       | 6.1          | 6.0            |
| 290-310                | 3.1                  | 2.6  | 1.3   | .4    | .1    |       |       |       |       |       |       | 7.5        | 6.7          | 6.0            |
| 320-340                | 2.3                  | 2.5  | 1.4   | .6    |       |       |       |       |       |       |       | 6.8        | 7.4          | 7.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 9.4        | ////         | ////           |
| TOTALS                 | 36.4                 | 34.6 | 16.2  | 2.7   | .2    |       |       |       |       |       |       | 100.0      | 5.7          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010                      | 3.1                  | 3.5  | 1.3   |       |       |       |       |       |       |       |            | 8.0          | 5.9            | 6.0   |
| 020-040                          | 5.8                  | 4.4  | 1.0   | .4    |       |       |       |       |       |       |            | 11.6         | 5.5            | 4.5   |
| 050-070                          | 3.0                  | 1.6  | .5    |       |       |       |       |       |       |       |            | 5.2          | 4.7            | 4.0   |
| (E) 080-100                      | 1.7                  | .5   | .1    |       |       |       |       |       |       |       |            | 2.4          | 3.5            | 3.0   |
| 110-130                          | .5                   | .1   | .2    |       |       |       |       |       |       |       |            | .9           | 5.3            | 4.0   |
| 140-160                          | 1.3                  | .3   |       |       |       |       |       |       |       |       |            | 1.6          | 3.5            | 3.0   |
| (S) 170-190                      | 1.2                  | .5   | .4    | .1    |       |       |       |       |       |       |            | 2.3          | 5.5            | 3.0   |
| 200-220                          | 6.9                  | 1.9  | .4    |       |       |       |       |       |       |       |            | 9.2          | 3.8            | 3.0   |
| 230-250                          | 4.6                  | 2.2  | .3    | .1    |       |       |       |       |       |       |            | 7.2          | 4.6            | 4.0   |
| (W) 260-280                      | 4.1                  | 2.4  | .6    | .1    | .3    |       |       |       |       |       |            | 7.5          | 5.7            | 4.0   |
| 290-310                          | 2.3                  | 1.8  | .5    |       |       |       |       |       |       |       |            | 4.6          | 5.1            | 5.0   |
| 320-340                          | 3.8                  | 1.4  | .5    |       |       |       |       |       |       |       |            | 5.7          | 4.5            | 4.0   |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |            | 33.9         | //////////     |       |
| TOTALS                           | 38.3                 | 20.6 | 5.8   | .7    | .3    |       |       |       |       |       |            | 100.0        | 3.3            | 4.0   |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: 21-23

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 3.0                  | 2.9  | .8    | .1    |       |       |       |       |       |       |       | 7.8        | 6.4          | 6.0            |
| 020-040                          | 6.7                  | 4.6  | .8    | .1    |       |       |       |       |       |       |       | 12.2       | 4.8          | 4.0            |
| 050-070                          | 2.6                  | 2.4  | .8    |       |       |       |       |       |       |       |       | 5.7        | 5.4          | 5.0            |
| (E) 080-100                      | .8                   | .3   |       |       |       |       |       |       |       |       |       | 1.1        | 3.1          | 2.0            |
| 110-130                          | .5                   | .1   |       |       |       |       |       |       |       |       |       | .6         | 2.8          | 2.5            |
| 140-160                          | .6                   | .3   | .1    |       |       |       |       |       |       |       |       | 1.1        | 4.7          | 3.5            |
| (S) 170-190                      | 1.2                  | 1.0  | .3    |       |       |       |       |       |       |       |       | 2.5        | 5.7          | 5.0            |
| 200-220                          | 4.7                  | 1.8  | .5    |       |       |       |       |       |       |       |       | 7.1        | 4.3          | 3.0            |
| 230-250                          | 3.4                  | 3.0  | .8    |       |       |       |       |       |       |       |       | 7.2        | 5.3          | 5.0            |
| (W) 260-280                      | 3.8                  | 2.3  | .8    | .3    |       |       |       |       |       |       |       | 7.1        | 5.7          | 4.0            |
| 290-310                          | 1.7                  | 1.8  | .4    |       |       |       |       |       |       |       |       | 4.0        | 5.6          | 5.0            |
| 320-340                          | 1.9                  | 1.9  | .6    |       |       |       |       |       |       |       |       | 4.5        | 5.8          | 5.5            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 39.1       | ////         | ////           |
| TOTALS                           | 30.9                 | 22.4 | 6.9   | .5    |       |       |       |       |       |       |       | 100.0      | 3.2          | 4.0            |
| TOTAL NUMBER OF OBSERVATIONS 930 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                   | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                       | 3.0                                  | 3.2  | 1.6   | .3    | .0    |       |       |       |       |       |            | 8.1          | 6.6                              | 6.0   |
| 020-040                           | 5.4                                  | 5.5  | 2.8   | .6    | .1    | .0    |       |       |       |       |            | 14.4         | 6.6                              | 6.0   |
| 050-070                           | 3.3                                  | 2.6  | 1.1   | .2    |       | .0    |       |       |       |       |            | 7.2          | 5.9                              | 5.0   |
| (E) 080-100                       | 1.4                                  | .6   | .1    | .0    |       |       |       |       |       |       |            | 2.1          | 3.8                              | 3.0   |
| 110-130                           | .9                                   | .4   | .1    | .0    |       |       |       |       |       |       |            | 1.4          | 4.0                              | 3.0   |
| 140-160                           | .8                                   | .3   | .1    |       |       |       |       |       |       |       |            | 1.2          | 4.1                              | 3.5   |
| (S) 170-190                       | 1.7                                  | 1.1  | .5    | .0    |       |       |       |       |       |       |            | 3.3          | 5.5                              | 4.0   |
| 200-220                           | 4.1                                  | 3.0  | 1.3   | .1    | .0    |       |       |       |       |       |            | 8.4          | 5.6                              | 5.0   |
| 230-250                           | 2.8                                  | 4.1  | 1.5   | .1    | .0    |       |       |       |       |       |            | 8.6          | 6.5                              | 6.0   |
| (W) 260-280                       | 3.0                                  | 3.7  | 1.3   | .2    | .1    |       |       |       |       |       |            | 8.2          | 6.3                              | 6.0   |
| 290-310                           | 3.2                                  | 2.0  | .8    | .1    | .0    |       |       |       |       |       |            | 6.2          | 5.4                              | 4.0   |
| 320-340                           | 2.8                                  | 1.8  | .7    | .2    | .0    |       |       |       |       |       |            | 5.5          | 5.5                              | 4.0   |
| VARIABLE                          |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 25.5         | //////////////////////////////// |       |
| TOTALS                            | 32.4                                 | 28.3 | 11.9  | 1.8   | .2    |       |       |       |       |       |            | 100.0        | 4.5                              | 5.0   |
| TOTAL NUMBER OF OBSERVATIONS 7440 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: ALL

.....  
 CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
 AND/OR  
 VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
 .....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 3.1                                  | 4.6  | 3.1   | .6    | .1    |       |       |       |       |       |       | 11.5       | 7.4                              | 6.0            |
| 020-040                | 4.0                                  | 6.4  | 3.8   | 1.6   | .4    | .1    |       |       |       |       |       | 16.3       | 8.5                              | 8.0            |
| 050-070                | 4.8                                  | 4.9  | 1.8   | .9    |       | .1    |       |       |       |       |       | 12.5       | 6.9                              | 6.0            |
| (E) 080-100            | 2.9                                  | 1.6  | .2    | .1    |       |       |       |       |       |       |       | 4.7        | 4.1                              | 3.0            |
| 110-130                | 1.8                                  | .8   | .2    |       |       |       |       |       |       |       |       | 2.8        | 3.9                              | 3.0            |
| 140-160                | 1.5                                  | .8   | .1    |       |       |       |       |       |       |       |       | 2.4        | 4.0                              | 4.0            |
| (S) 170-190            | 1.9                                  | 2.0  | 1.0   |       |       |       |       |       |       |       |       | 4.8        | 6.1                              | 5.0            |
| 200-220                | 2.4                                  | 4.0  | 1.8   | .1    |       |       |       |       |       |       |       | 8.3        | 6.8                              | 7.0            |
| 230-250                | 1.6                                  | 2.0  | .7    |       |       |       |       |       |       |       |       | 4.2        | 6.1                              | 6.0            |
| (W) 260-280            | 2.8                                  | 2.3  | 1.3   |       | .1    |       |       |       |       |       |       | 6.4        | 6.3                              | 5.0            |
| 290-310                | 2.6                                  | 1.1  | .6    |       |       |       |       |       |       |       |       | 4.2        | 4.8                              | 4.0            |
| 320-340                | 2.7                                  | 1.5  |       |       |       |       |       |       |       |       |       | 4.1        | 4.1                              | 4.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 17.7       | //////////////////////////////// |                |
| TOTALS                 | 32.1                                 | 32.0 | 14.6  | 3.3   | .6    | .2    |       |       |       |       |       | 100.0      | 5.4                              | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 1016

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: ALL HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | 2.6                  | 2.4  | .8    | .1    | .0    |       |       |       |       |       |            | 5.8          | 5.6            | 5.0   |
| 020-040                | 5.2                  | 5.0  | 2.1   | .2    | .0    | .0    |       |       |       |       |            | 12.6         | 6.1            | 5.0   |
| 050-070                | 4.1                  | 4.1  | 1.4   | .1    | .0    | .0    |       |       |       |       |            | 9.7          | 5.8            | 5.0   |
| (E) 080-100            | 2.1                  | 1.3  | .2    | .0    | .0    |       |       |       |       |       |            | 3.6          | 4.6            | 4.0   |
| 110-130                | 1.7                  | .9   | .1    | .0    |       |       |       |       |       |       |            | 2.6          | 4.2            | 4.0   |
| 140-160                | 2.0                  | 1.0  | .2    | .0    | .0    |       |       |       |       |       |            | 3.3          | 4.5            | 4.0   |
| (S) 170-190            | 2.9                  | 1.9  | .6    | .1    | .0    | .0    |       |       |       |       |            | 5.4          | 5.3            | 4.0   |
| 200-220                | 5.2                  | 3.5  | 1.1   | .1    | .0    | .0    |       |       |       |       |            | 10.0         | 5.3            | 4.0   |
| 230-250                | 3.1                  | 3.9  | 1.5   | .2    | .0    | .0    |       |       |       |       |            | 8.8          | 6.4            | 6.0   |
| (W) 260-280            | 2.7                  | 3.2  | 1.3   | .2    | .0    | .0    |       |       |       |       |            | 7.6          | 6.6            | 6.0   |
| 290-310                | 2.4                  | 2.1  | .7    | .1    | .0    |       |       |       |       |       |            | 5.3          | 5.7            | 5.0   |
| 320-340                | 2.1                  | 1.8  | .5    | .0    | .0    | .0    |       |       |       |       |            | 4.4          | 5.4            | 5.0   |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |       |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |            | 20.8         | ////           | ////  |
| TOTALS                 | 36.1                 | 31.1 | 10.5  | 1.1   |       |       |       |       |       |       |            | 100.0        | 4.5            | 5.0   |

TOTAL NUMBER OF OBSERVATIONS: 87667

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL HOURS: ALL

.....  
CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.  
.....

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.6                  | 4.7  | 1.6   | .2    | .0    |       |       |       |       |       |       | 9.2        | 6.7          | .0             |
| 020-040                | 4.9                  | 9.2  | 6.1   | .9    | .2    | .0    |       |       |       |       |       | 21.3       | 7.9          | 8.0            |
| 050-070                | 4.9                  | 7.2  | 3.4   | .5    | .1    | .0    |       |       |       |       |       | 16.1       | 7.0          | 6.0            |
| (E) 080-100            | 2.6                  | 1.9  | .4    | .0    | .0    |       |       |       |       |       |       | 4.9        | 4.9          | 4.0            |
| 110-130                | 1.9                  | 1.0  | .2    | .0    |       |       |       |       |       |       |       | 3.2        | 4.4          | 4.0            |
| 140-160                | 1.8                  | 1.2  | .3    | .0    |       |       |       |       |       |       |       | 3.3        | 4.8          | 4.0            |
| (S) 170-190            | 2.3                  | 1.8  | .6    | .1    |       |       |       |       |       |       |       | 4.8        | 5.6          | 5.0            |
| 200-220                | 3.2                  | 2.8  | .9    | .1    |       |       |       |       |       |       |       | 7.0        | 5.6          | 5.0            |
| 230-250                | 2.2                  | 2.4  | .7    | .1    |       |       |       |       |       |       |       | 5.3        | 6.0          | 5.0            |
| (W) 260-280            | 1.9                  | 1.7  | .6    | .0    | .0    |       |       |       |       |       |       | 4.3        | 5.7          | 5.0            |
| 290-310                | 1.7                  | 1.7  | .4    | .0    | .0    |       |       |       |       |       |       | 3.8        | 5.6          | 5.0            |
| 320-340                | 1.8                  | 1.8  | .4    | .1    |       | .0    |       |       |       |       |       | 4.1        | 5.5          | 5.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 12.9       | ////         | ////           |
| TOTALS                 | 31.8                 | 37.4 | 15.6  | 2.0   | .3    |       |       |       |       |       |       | 100.0      | 5.6          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS: 9526

|         |          |          |           |          |
|---------|----------|----------|-----------|----------|
| PPPPPPP | AAAAA    | RRRRRRR  | TTTTTTTTT | DDDDDDD  |
| PPPPPPP | AAAAAAA  | RRRRRRRR | TTTTTTTTT | DDDDDDDD |
| PP PP   | AA AA    | RR RR    | TT        | DD DD    |
| PP PP   | AA AA    | RR RR    | TT        | DD DD    |
| PPPPPPP | AA AA    | RRRRRRR  | TT        | DD DD    |
| PPPPPPP | AAAAAAAA | RRRRRRR  | TT        | DD DD    |
| PP      | AAAAAAAA | RR RR    | TT        | DD DD    |
| PP      | AA AA    | RR RR    | TT        | DD DD    |
| PP      | AA AA    | RR RR    | TT        | DDDDDDDD |
| PP      | AA AA    | RR RR    | TT        | DDDDDDDD |

PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VS VISIBILITY--PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET-- "NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), EITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE MILES OR 9000 METERS. VALUES EXCEEDING 9000 METERS ARE REPORTED AS "9999."

NOTE 2: FOR OVERSEAS CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.

CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.  
FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.

SKY COVER--PERCENT OCCURRENCE FREQUENCY.

ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURED, OR TOTALLY OBSCURED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.

NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

0/8.....CLEAR

1/8 THRU 4/8.....SCATTERED

5/8 THRU 7/8.....BROKEN

8/8.....OVERCAST

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS," HOWEVER, ARE INCLUDED.



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 55.1                        | 55.6    | 56.2    | 56.3    | 56.6    | 56.6        | 56.7    | 56.7        | 56.7        | 56.7    | 56.8      | 56.9      | 56.9      | 56.9      | 57.0      | 57.2    |
| GE 20000              | 58.1                        | 58.7    | 59.4    | 59.5    | 59.7    | 59.7        | 59.8    | 59.8        | 59.8        | 59.8    | 59.9      | 60.0      | 60.0      | 60.0      | 60.1      | 60.3    |
| GE 18000              | 58.1                        | 58.7    | 59.4    | 59.5    | 59.7    | 59.7        | 59.8    | 59.8        | 59.8        | 59.8    | 59.9      | 60.0      | 60.0      | 60.0      | 60.1      | 60.3    |
| GE 16000              | 58.1                        | 58.7    | 59.4    | 59.5    | 59.7    | 59.7        | 59.8    | 59.8        | 59.8        | 59.8    | 59.9      | 60.0      | 60.0      | 60.0      | 60.1      | 60.3    |
| GE 14000              | 58.1                        | 58.7    | 59.4    | 59.5    | 59.7    | 59.7        | 59.8    | 59.8        | 59.8        | 59.8    | 59.9      | 60.0      | 60.0      | 60.0      | 60.1      | 60.3    |
| GE 12000              | 58.3                        | 58.9    | 59.6    | 59.7    | 59.9    | 59.9        | 60.0    | 60.0        | 60.0        | 60.0    | 60.1      | 60.2      | 60.2      | 60.2      | 60.3      | 60.5    |
| GE 10000              | 62.3                        | 63.0    | 63.7    | 63.9    | 64.3    | 64.3        | 64.4    | 64.4        | 64.4        | 64.4    | 64.5      | 64.6      | 64.6      | 64.6      | 64.7      | 64.9    |
| GE 9000               | 62.7                        | 63.4    | 64.1    | 64.3    | 64.7    | 64.7        | 64.8    | 64.8        | 64.8        | 64.8    | 64.9      | 65.1      | 65.1      | 65.1      | 65.2      | 65.4    |
| GE 8000               | 64.7                        | 65.7    | 66.3    | 66.8    | 67.4    | 67.4        | 67.5    | 67.6        | 67.6        | 67.6    | 67.7      | 67.8      | 67.8      | 67.8      | 68.0      | 68.2    |
| GE 7000               | 65.5                        | 66.5    | 67.4    | 67.8    | 68.5    | 68.5        | 68.6    | 68.7        | 68.7        | 68.7    | 68.8      | 68.9      | 68.9      | 68.9      | 69.0      | 69.2    |
| GE 6000               | 66.6                        | 67.5    | 68.8    | 69.2    | 69.9    | 69.9        | 70.0    | 70.1        | 70.1        | 70.1    | 70.2      | 70.3      | 70.3      | 70.3      | 70.4      | 70.6    |
| GE 5000               | 69.2                        | 0.2     | 71.5    | 71.9    | 72.6    | 72.6        | 72.7    | 72.8        | 72.8        | 72.8    | 72.9      | 73.0      | 73.0      | 73.0      | 73.1      | 73.3    |
| GE 4500               | 69.4                        | 70.3    | 71.8    | 72.3    | 73.0    | 73.0        | 73.1    | 73.2        | 73.2        | 73.2    | 73.3      | 73.4      | 73.4      | 73.4      | 73.5      | 73.8    |
| GE 4000               | 70.6                        | 71.6    | 73.2    | 73.8    | 74.6    | 74.6        | 74.7    | 74.8        | 74.8        | 74.8    | 74.9      | 75.2      | 75.2      | 75.2      | 75.3      | 75.5    |
| GE 3500               | 71.3                        | 72.3    | 74.3    | 74.8    | 75.7    | 75.7        | 75.8    | 75.9        | 75.9        | 75.9    | 76.0      | 76.2      | 76.2      | 76.2      | 76.3      | 76.6    |
| GE 3000               | 73.1                        | 74.1    | 76.2    | 77.0    | 77.8    | 77.8        | 78.0    | 78.1        | 78.1        | 78.1    | 78.2      | 78.4      | 78.4      | 78.4      | 78.5      | 78.7    |
| GE 2500               | 73.2                        | 74.2    | 76.3    | 77.1    | 78.1    | 78.2        | 78.3    | 78.4        | 78.4        | 78.4    | 78.5      | 78.7      | 78.7      | 78.7      | 78.8      | 79.0    |
| GE 2000               | 74.9                        | 76.0    | 78.2    | 78.9    | 80.2    | 80.3        | 80.4    | 80.5        | 80.5        | 80.5    | 80.6      | 80.9      | 80.9      | 80.9      | 81.0      | 81.2    |
| GE 1800               | 75.2                        | 76.2    | 78.4    | 79.2    | 80.6    | 80.9        | 81.0    | 81.1        | 81.1        | 81.1    | 81.2      | 81.4      | 81.4      | 81.4      | 81.5      | 81.7    |
| GE 1500               | 75.5                        | 76.7    | 78.8    | 79.7    | 81.1    | 81.3        | 81.4    | 81.5        | 81.5        | 81.5    | 81.6      | 81.8      | 81.8      | 81.8      | 81.9      | 82.2    |
| GE 1200               | 76.3                        | 77.5    | 80.0    | 81.3    | 82.8    | 83.0        | 83.1    | 83.2        | 83.2        | 83.2    | 83.3      | 83.5      | 83.5      | 83.5      | 83.7      | 83.9    |
| GE 1000               | 76.7                        | 77.8    | 80.4    | 81.7    | 83.2    | 83.4        | 83.7    | 83.8        | 83.8        | 83.8    | 83.9      | 84.1      | 84.1      | 84.1      | 84.2      | 84.4    |
| GE 900                | 76.7                        | 77.8    | 80.5    | 81.8    | 83.3    | 83.5        | 84.0    | 84.1        | 84.1        | 84.1    | 84.2      | 84.4      | 84.4      | 84.4      | 84.5      | 84.7    |
| GE 800                | 77.1                        | 78.3    | 81.0    | 82.5    | 84.1    | 84.3        | 84.8    | 84.9        | 84.9        | 84.9    | 85.1      | 85.3      | 85.3      | 85.3      | 85.4      | 85.6    |
| GE 700                | 77.3                        | 78.5    | 81.5    | 83.2    | 85.3    | 85.5        | 86.2    | 86.3        | 86.3        | 86.3    | 86.5      | 86.7      | 86.7      | 86.7      | 86.8      | 87.0    |
| GE 600                | 77.3                        | 78.5    | 81.6    | 83.5    | 86.5    | 87.0        | 87.7    | 87.8        | 87.8        | 87.8    | 88.0      | 88.2      | 88.2      | 88.2      | 88.3      | 88.5    |
| GE 500                | 77.3                        | 78.5    | 82.0    | 84.6    | 88.0    | 88.7        | 89.7    | 89.9        | 89.9        | 89.9    | 90.0      | 90.2      | 90.2      | 90.2      | 90.3      | 90.5    |
| GE 400                | 77.3                        | 78.5    | 82.0    | 84.7    | 88.8    | 89.9        | 90.9    | 91.4        | 91.5        | 91.7    | 91.9      | 92.2      | 92.2      | 92.2      | 92.3      | 92.5    |
| GE 300                | 77.3                        | 78.5    | 82.3    | 84.9    | 89.6    | 90.8        | 92.9    | 93.8        | 94.1        | 94.4    | 94.9      | 95.2      | 95.2      | 95.2      | 95.3      | 95.5    |
| GE 200                | 77.3                        | 78.5    | 82.3    | 84.9    | 89.9    | 91.1        | 93.2    | 94.1        | 94.5        | 94.8    | 95.4      | 95.6      | 95.6      | 95.6      | 96.2      | 97.0    |
| GE 100                | 77.3                        | 78.5    | 82.3    | 84.9    | 89.9    | 91.1        | 93.2    | 94.1        | 94.6        | 94.9    | 95.5      | 95.7      | 95.8      | 95.8      | 96.8      | 98.7    |
| GE 000                | 77.3                        | 78.5    | 82.3    | 84.9    | 89.9    | 91.1        | 93.2    | 94.1        | 94.6        | 94.9    | 95.5      | 95.7      | 95.8      | 95.8      | 96.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.8                        | 54.1    | 54.3    | 54.4    | 54.5    | 54.5        | 54.6    | 54.9        | 54.9        | 54.9    | 54.9      | 54.9      | 55.2      | 55.2      | 55.2      | 55.5    |
| GE 20000              | 56.9                        | 57.3    | 57.5    | 57.7    | 58.2    | 58.3        | 58.4    | 58.7        | 58.7        | 58.7    | 58.7      | 58.7      | 59.2      | 59.2      | 59.2      | 59.6    |
| GE 18000              | 56.9                        | 57.3    | 57.5    | 57.7    | 58.2    | 58.3        | 58.4    | 58.7        | 58.7        | 58.7    | 58.7      | 58.7      | 59.2      | 59.2      | 59.2      | 59.6    |
| GE 16000              | 56.9                        | 57.3    | 57.5    | 57.7    | 58.2    | 58.3        | 58.4    | 58.7        | 58.7        | 58.7    | 58.7      | 58.7      | 59.2      | 59.2      | 59.2      | 59.6    |
| GE 14000              | 56.9                        | 57.3    | 57.5    | 57.7    | 58.2    | 58.3        | 58.4    | 58.7        | 58.7        | 58.7    | 58.7      | 58.7      | 59.2      | 59.2      | 59.2      | 59.6    |
| GE 12000              | 56.9                        | 57.3    | 57.5    | 57.7    | 58.2    | 58.3        | 58.4    | 58.7        | 58.7        | 58.7    | 58.7      | 58.7      | 59.2      | 59.2      | 59.2      | 59.6    |
| GE 10000              | 60.2                        | 61.0    | 61.3    | 61.8    | 62.3    | 62.4        | 62.5    | 62.8        | 62.8        | 62.8    | 62.8      | 62.8      | 63.3      | 63.3      | 63.3      | 63.7    |
| GE 9000               | 60.3                        | 61.1    | 61.4    | 61.9    | 62.4    | 62.5        | 62.6    | 62.9        | 62.9        | 62.9    | 62.9      | 62.9      | 63.4      | 63.4      | 63.4      | 63.8    |
| GE 8000               | 63.3                        | 64.1    | 64.4    | 65.1    | 65.6    | 65.7        | 65.8    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.7      | 66.7      | 66.7      | 67.1    |
| GE 7000               | 63.5                        | 64.3    | 64.8    | 65.6    | 66.1    | 66.2        | 66.3    | 66.7        | 66.7        | 66.7    | 66.7      | 66.7      | 67.2      | 67.2      | 67.2      | 67.6    |
| GE 6000               | 64.3                        | 65.1    | 65.6    | 66.7    | 67.2    | 67.3        | 67.4    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 68.3      | 68.3      | 68.3      | 68.7    |
| GE 5000               | 67.0                        | 68.0    | 68.5    | 69.7    | 70.2    | 70.3        | 70.4    | 70.8        | 70.8        | 70.8    | 70.8      | 70.8      | 71.3      | 71.3      | 71.3      | 71.7    |
| GE 4500               | 67.3                        | 68.3    | 68.8    | 70.0    | 70.5    | 70.8        | 70.9    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.7      | 71.7      | 71.7      | 72.2    |
| GE 4000               | 68.5                        | 69.5    | 70.2    | 71.5    | 72.3    | 72.5        | 72.6    | 72.9        | 72.9        | 72.9    | 72.9      | 72.9      | 73.4      | 73.4      | 73.4      | 73.9    |
| GE 3500               | 69.1                        | 70.1    | 71.0    | 72.5    | 73.2    | 73.4        | 73.5    | 73.9        | 73.9        | 73.9    | 73.9      | 73.9      | 74.4      | 74.4      | 74.4      | 74.8    |
| GE 3000               | 70.1                        | 71.1    | 72.2    | 73.7    | 74.7    | 74.9        | 75.1    | 75.4        | 75.4        | 75.4    | 75.4      | 75.4      | 75.9      | 75.9      | 75.9      | 76.3    |
| GE 2500               | 70.2                        | 71.2    | 72.3    | 73.8    | 75.1    | 75.3        | 75.4    | 75.7        | 75.7        | 75.7    | 75.7      | 75.7      | 76.2      | 76.2      | 76.2      | 76.7    |
| GE 2000               | 71.8                        | 72.8    | 73.9    | 75.5    | 76.9    | 77.1        | 77.2    | 77.5        | 77.5        | 77.5    | 77.5      | 77.5      | 78.2      | 78.2      | 78.2      | 78.6    |
| GE 1800               | 72.2                        | 73.1    | 74.2    | 75.8    | 77.2    | 77.4        | 77.5    | 77.8        | 77.8        | 77.8    | 77.8      | 77.8      | 78.5      | 78.5      | 78.5      | 78.9    |
| GE 1500               | 73.3                        | 74.5    | 75.7    | 77.3    | 78.8    | 79.2        | 79.4    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 80.3      | 80.3      | 80.3      | 80.8    |
| GE 1200               | 73.8                        | 74.9    | 76.1    | 78.3    | 79.8    | 80.2        | 80.4    | 80.8        | 80.8        | 80.8    | 80.9      | 80.9      | 81.5      | 81.5      | 81.5      | 81.9    |
| GE 1000               | 74.0                        | 75.4    | 76.7    | 78.8    | 80.3    | 80.8        | 81.0    | 81.3        | 81.3        | 81.3    | 81.4      | 81.4      | 82.0      | 82.0      | 82.0      | 82.5    |
| GE 900                | 74.0                        | 75.4    | 77.0    | 79.2    | 80.8    | 81.2        | 81.1    | 81.8        | 81.8        | 81.8    | 81.9      | 81.9      | 82.6      | 82.6      | 82.6      | 83.0    |
| GE 800                | 74.1                        | 75.7    | 77.4    | 80.0    | 81.5    | 81.9        | 82.5    | 82.8        | 82.8        | 82.8    | 82.9      | 82.9      | 83.5      | 83.5      | 83.5      | 84.0    |
| GE 700                | 74.1                        | 75.8    | 77.5    | 80.1    | 81.8    | 82.3        | 83.0    | 83.4        | 83.4        | 83.4    | 83.5      | 83.5      | 84.2      | 84.2      | 84.2      | 84.6    |
| GE 600                | 74.4                        | 76.1    | 78.2    | 81.0    | 83.5    | 84.5        | 85.3    | 85.9        | 85.9        | 86.1    | 86.2      | 86.2      | 86.9      | 86.9      | 86.9      | 87.3    |
| GE 500                | 74.4                        | 76.5    | 78.6    | 81.7    | 85.7    | 86.9        | 87.8    | 88.7        | 88.7        | 89.1    | 89.4      | 89.4      | 90.0      | 90.0      | 90.0      | 90.4    |
| GE 400                | 74.4                        | 76.5    | 78.8    | 81.9    | 86.7    | 88.1        | 90.2    | 91.6        | 91.6        | 92.2    | 92.5      | 92.5      | 93.2      | 93.2      | 93.2      | 93.7    |
| GE 300                | 74.4                        | 76.5    | 78.9    | 82.3    | 87.5    | 89.1        | 91.9    | 93.3        | 93.3        | 94.2    | 94.6      | 94.6      | 95.5      | 95.5      | 95.5      | 95.9    |
| GE 200                | 74.4                        | 76.5    | 78.9    | 82.3    | 87.5    | 89.1        | 92.0    | 93.8        | 93.9        | 94.9    | 96.0      | 96.0      | 96.9      | 96.9      | 97.1      | 98.0    |
| GE 100                | 74.4                        | 76.5    | 78.9    | 82.3    | 87.5    | 89.1        | 92.0    | 93.8        | 93.9        | 95.1    | 96.2      | 96.2      | 97.2      | 97.2      | 97.7      | 99.7    |
| GE 000                | 74.4                        | 76.5    | 78.9    | 82.3    | 87.5    | 89.1        | 92.0    | 93.8        | 93.9        | 95.1    | 96.2      | 96.2      | 97.2      | 97.2      | 97.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 44.7                        | 46.2    | 48.5    | 49.1    | 49.6    | 49.6        | 49.7    | 49.9        | 49.9        | 49.9    | 50.0      | 50.0      | 50.1      | 50.1      | 50.2      | 50.4    |
| GE 20000              | 49.6                        | 51.5    | 53.9    | 54.6    | 55.2    | 55.2        | 55.3    | 55.5        | 55.5        | 55.5    | 55.6      | 55.6      | 55.7      | 55.7      | 55.8      | 56.0    |
| GE 18000              | 49.6                        | 51.6    | 54.0    | 54.7    | 55.3    | 55.3        | 55.4    | 55.6        | 55.6        | 55.6    | 55.7      | 55.7      | 55.8      | 55.8      | 55.9      | 56.1    |
| GE 16000              | 49.6                        | 51.6    | 54.0    | 54.7    | 55.3    | 55.3        | 55.4    | 55.6        | 55.6        | 55.6    | 55.7      | 55.7      | 55.8      | 55.8      | 55.9      | 56.1    |
| GE 14000              | 49.7                        | 51.7    | 54.2    | 54.9    | 55.5    | 55.5        | 55.6    | 55.8        | 55.8        | 55.8    | 55.9      | 55.9      | 56.0      | 56.0      | 56.1      | 56.3    |
| GE 12000              | 50.6                        | 52.8    | 55.3    | 56.0    | 56.7    | 56.7        | 56.8    | 57.0        | 57.0        | 57.0    | 57.1      | 57.1      | 57.2      | 57.2      | 57.3      | 57.5    |
| GE 10000              | 53.5                        | 55.8    | 58.4    | 59.4    | 60.3    | 60.3        | 60.4    | 60.6        | 60.6        | 60.6    | 60.8      | 60.8      | 60.9      | 61.0      | 61.0      | 61.2    |
| GE 9000               | 53.9                        | 56.1    | 58.7    | 59.7    | 60.6    | 60.6        | 60.8    | 61.0        | 61.0        | 61.0    | 61.1      | 61.1      | 61.2      | 61.2      | 61.3      | 61.5    |
| GE 8000               | 56.6                        | 58.8    | 61.5    | 62.7    | 63.8    | 63.8        | 63.9    | 64.1        | 64.1        | 64.1    | 64.2      | 64.2      | 64.3      | 64.3      | 64.4      | 64.6    |
| GE 7000               | 56.7                        | 58.9    | 61.6    | 62.9    | 64.0    | 64.0        | 64.1    | 64.3        | 64.3        | 64.3    | 64.4      | 64.4      | 64.5      | 64.5      | 64.6      | 64.8    |
| GE 6000               | 57.3                        | 59.6    | 62.4    | 63.7    | 64.8    | 64.8        | 64.9    | 65.2        | 65.2        | 65.2    | 65.3      | 65.3      | 65.4      | 65.4      | 65.5      | 65.7    |
| GE 5000               | 59.7                        | 62.2    | 65.1    | 66.6    | 67.8    | 67.8        | 68.1    | 68.4        | 68.4        | 68.4    | 68.5      | 68.5      | 68.6      | 68.6      | 68.7      | 68.9    |
| GE 4500               | 59.9                        | 62.4    | 65.5    | 67.0    | 68.3    | 68.3        | 68.5    | 68.8        | 68.8        | 68.8    | 68.9      | 68.9      | 69.0      | 69.0      | 69.1      | 69.4    |
| GE 4000               | 61.3                        | 64.0    | 67.4    | 69.4    | 70.9    | 70.9        | 71.1    | 71.4        | 71.4        | 71.4    | 71.5      | 71.5      | 71.6      | 71.6      | 71.7      | 71.9    |
| GE 3500               | 61.5                        | 64.2    | 67.6    | 69.6    | 71.1    | 71.1        | 71.3    | 71.6        | 71.6        | 71.6    | 71.7      | 71.7      | 71.8      | 71.8      | 71.9      | 72.2    |
| GE 3000               | 62.4                        | 65.1    | 68.7    | 70.6    | 72.5    | 72.5        | 72.7    | 73.0        | 73.0        | 73.0    | 73.1      | 73.1      | 73.2      | 73.2      | 73.3      | 73.5    |
| GE 2500               | 62.9                        | 65.7    | 69.4    | 71.3    | 73.2    | 73.2        | 73.4    | 73.8        | 74.1        | 74.1    | 74.1      | 74.2      | 74.2      | 74.3      | 74.3      | 74.7    |
| GE 2000               | 64.3                        | 67.3    | 71.0    | 73.2    | 75.5    | 75.5        | 75.8    | 76.1        | 76.6        | 76.6    | 76.6      | 76.7      | 76.7      | 76.8      | 76.8      | 77.2    |
| GE 1800               | 64.4                        | 67.4    | 71.1    | 73.4    | 75.7    | 75.7        | 76.0    | 76.3        | 76.8        | 76.8    | 76.8      | 76.9      | 76.9      | 77.0      | 77.0      | 77.4    |
| GE 1500               | 65.5                        | 68.6    | 72.4    | 74.8    | 77.3    | 77.3        | 77.6    | 78.1        | 78.5        | 78.5    | 78.5      | 78.6      | 78.6      | 78.7      | 78.9      | 79.1    |
| GE 1200               | 65.9                        | 69.1    | 73.2    | 75.8    | 78.4    | 78.4        | 78.7    | 79.2        | 79.8        | 79.8    | 79.8      | 79.9      | 79.9      | 80.0      | 80.0      | 80.4    |
| GE 1000               | 66.5                        | 69.8    | 74.5    | 77.1    | 79.8    | 79.8        | 80.2    | 80.9        | 81.4        | 81.4    | 81.4      | 81.5      | 81.5      | 81.6      | 81.6      | 82.0    |
| GE 900                | 66.5                        | 69.8    | 74.5    | 77.3    | 80.2    | 80.2        | 80.8    | 81.4        | 81.9        | 81.9    | 81.9      | 82.0      | 82.0      | 82.2      | 82.2      | 82.6    |
| GE 800                | 67.0                        | 70.4    | 75.6    | 78.9    | 82.6    | 82.6        | 83.1    | 83.9        | 84.4        | 84.4    | 84.4      | 84.5      | 84.5      | 84.6      | 84.6      | 85.1    |
| GE 700                | 67.1                        | 70.5    | 75.7    | 79.1    | 83.1    | 83.1        | 84.1    | 84.9        | 85.6        | 85.6    | 85.7      | 85.8      | 85.8      | 86.0      | 86.0      | 86.5    |
| GE 600                | 67.3                        | 70.8    | 76.1    | 79.8    | 84.5    | 84.5        | 85.7    | 86.6        | 87.5        | 87.5    | 87.6      | 87.7      | 87.7      | 88.0      | 88.0      | 88.4    |
| GE 500                | 67.4                        | 71.2    | 77.1    | 81.5    | 87.0    | 87.0        | 88.3    | 89.9        | 91.1        | 91.1    | 91.3      | 91.4      | 91.5      | 91.5      | 91.7      | 92.2    |
| GE 400                | 67.5                        | 71.3    | 77.2    | 82.0    | 88.0    | 88.0        | 89.6    | 91.5        | 92.9        | 92.9    | 93.1      | 93.3      | 93.7      | 93.7      | 93.9      | 94.5    |
| GE 300                | 67.5                        | 71.3    | 77.3    | 82.2    | 88.6    | 88.6        | 90.2    | 92.3        | 94.0        | 94.0    | 94.2      | 94.4      | 94.9      | 94.9      | 95.4      | 96.1    |
| GE 200                | 67.5                        | 71.3    | 77.3    | 82.2    | 88.6    | 88.6        | 90.4    | 92.5        | 94.3        | 94.3    | 94.7      | 95.2      | 96.1      | 96.1      | 97.1      | 97.6    |
| GE 100                | 67.5                        | 71.3    | 77.3    | 82.2    | 88.6    | 88.6        | 90.4    | 92.7        | 94.5        | 94.5    | 94.9      | 95.4      | 96.7      | 96.7      | 97.6      | 98.1    |
| GE 000                | 67.5                        | 71.3    | 77.3    | 82.2    | 88.6    | 88.6        | 90.4    | 92.7        | 94.5        | 94.5    | 94.9      | 95.4      | 96.7      | 96.7      | 97.6      | 98.1    |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 39.2                        | 43.1    | 46.1    | 46.9    | 47.2    | 47.3        | 47.3    | 47.3        | 47.3        | 47.4    | 47.4      | 47.4      | 47.4      | 47.4      | 47.4      | 47.4    |
| GE 20000              | 44.7                        | 48.9    | 52.2    | 53.1    | 53.5    | 53.7        | 53.8    | 53.8        | 53.8        | 53.9    | 53.9      | 53.9      | 53.9      | 53.9      | 54.0      | 54.0    |
| GE 18000              | 44.8                        | 49.0    | 52.3    | 53.2    | 53.7    | 53.8        | 53.9    | 53.9        | 53.9        | 54.0    | 54.0      | 54.0      | 54.0      | 54.0      | 54.1      | 54.1    |
| GE 16000              | 44.8                        | 49.0    | 52.3    | 53.2    | 53.7    | 53.8        | 53.9    | 53.9        | 53.9        | 54.0    | 54.0      | 54.0      | 54.0      | 54.0      | 54.1      | 54.1    |
| GE 14000              | 45.6                        | 49.8    | 53.0    | 54.0    | 54.4    | 54.5        | 54.6    | 54.6        | 54.6        | 54.7    | 54.7      | 54.7      | 54.7      | 54.7      | 54.8      | 54.8    |
| GE 12000              | 47.4                        | 51.7    | 54.9    | 55.9    | 56.3    | 56.5        | 56.6    | 56.6        | 56.6        | 56.7    | 56.7      | 56.7      | 56.7      | 56.7      | 56.8      | 56.8    |
| GE 10000              | 49.8                        | 54.2    | 57.5    | 58.6    | 59.5    | 59.6        | 59.7    | 59.7        | 59.7        | 59.8    | 59.8      | 59.8      | 59.8      | 59.8      | 59.9      | 59.9    |
| GE 9000               | 50.1                        | 54.5    | 57.8    | 58.9    | 59.9    | 60.0        | 60.1    | 60.1        | 60.1        | 60.2    | 60.2      | 60.2      | 60.2      | 60.2      | 60.3      | 60.3    |
| GE 8000               | 53.1                        | 57.6    | 61.5    | 63.2    | 64.2    | 64.3        | 64.4    | 64.4        | 64.4        | 64.5    | 64.5      | 64.5      | 64.5      | 64.5      | 64.6      | 64.6    |
| GE 7000               | 53.2                        | 57.7    | 61.6    | 63.3    | 64.3    | 64.4        | 64.5    | 64.5        | 64.5        | 64.6    | 64.6      | 64.6      | 64.6      | 64.6      | 64.7      | 64.7    |
| GE 6000               | 53.3                        | 57.8    | 61.7    | 63.7    | 64.6    | 64.7        | 64.8    | 64.8        | 64.8        | 64.9    | 64.9      | 64.9      | 64.9      | 64.9      | 65.1      | 65.1    |
| GE 5000               | 55.1                        | 59.7    | 63.8    | 66.0    | 67.1    | 67.2        | 67.4    | 67.5        | 67.5        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.7      | 67.7    |
| GE 4500               | 55.7                        | 60.3    | 64.4    | 66.7    | 68.0    | 68.1        | 68.3    | 68.4        | 68.4        | 68.5    | 68.5      | 68.5      | 68.5      | 68.5      | 68.6      | 68.6    |
| GE 4000               | 57.5                        | 62.7    | 67.0    | 69.6    | 71.5    | 71.6        | 71.8    | 71.9        | 71.9        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.2      | 72.2    |
| GE 3500               | 58.3                        | 63.5    | 67.8    | 70.6    | 72.6    | 72.7        | 72.9    | 73.0        | 73.0        | 73.1    | 73.1      | 73.1      | 73.1      | 73.1      | 73.2      | 73.2    |
| GE 3000               | 58.7                        | 64.0    | 68.4    | 71.3    | 73.2    | 73.4        | 73.7    | 73.8        | 73.8        | 73.9    | 73.9      | 73.9      | 73.9      | 73.9      | 74.0      | 74.0    |
| GE 2500               | 59.1                        | 64.6    | 69.1    | 72.0    | 74.2    | 74.4        | 74.8    | 75.1        | 75.1        | 75.2    | 75.2      | 75.2      | 75.2      | 75.2      | 75.3      | 75.3    |
| GE 2000               | 60.1                        | 65.8    | 70.3    | 73.2    | 75.7    | 75.9        | 76.3    | 76.6        | 76.6        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.8      | 76.8    |
| GE 1800               | 60.4                        | 66.1    | 70.6    | 73.7    | 76.3    | 76.6        | 77.0    | 77.2        | 77.2        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.4      | 77.4    |
| GE 1500               | 60.8                        | 66.6    | 71.1    | 74.4    | 77.4    | 77.7        | 78.2    | 78.4        | 78.4        | 78.5    | 78.5      | 78.5      | 78.5      | 78.5      | 78.6      | 78.6    |
| GE 1200               | 61.2                        | 67.0    | 72.2    | 75.9    | 78.9    | 79.5        | 79.9    | 80.2        | 80.2        | 80.3    | 80.3      | 80.3      | 80.3      | 80.3      | 80.4      | 80.4    |
| GE 1000               | 61.5                        | 67.7    | 73.1    | 77.0    | 80.5    | 81.2        | 81.7    | 82.2        | 82.2        | 82.3    | 82.3      | 82.3      | 82.3      | 82.3      | 82.4      | 82.4    |
| GE 900                | 61.8                        | 68.1    | 73.5    | 77.4    | 81.0    | 81.6        | 82.2    | 82.6        | 82.6        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.8      | 82.8    |
| GE 800                | 62.3                        | 68.5    | 74.5    | 79.0    | 83.9    | 84.5        | 85.3    | 85.7        | 85.7        | 85.8    | 85.8      | 85.8      | 85.8      | 85.8      | 85.9      | 85.9    |
| GE 700                | 62.4                        | 68.8    | 75.3    | 80.6    | 86.3    | 87.4        | 88.2    | 88.7        | 88.7        | 88.8    | 88.8      | 88.8      | 88.8      | 88.8      | 88.9      | 89.0    |
| GE 600                | 62.5                        | 68.9    | 75.6    | 81.2    | 87.4    | 88.9        | 89.9    | 90.5        | 90.5        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.9      | 91.0    |
| GE 500                | 62.6                        | 69.1    | 76.0    | 82.4    | 89.5    | 91.2        | 92.6    | 93.3        | 93.7        | 94.1    | 94.1      | 94.1      | 94.1      | 94.1      | 94.2      | 94.3    |
| GE 400                | 62.6                        | 69.1    | 76.0    | 82.7    | 89.9    | 91.8        | 93.9    | 94.6        | 94.9        | 95.5    | 95.6      | 95.6      | 95.6      | 95.6      | 95.7      | 95.8    |
| GE 300                | 62.6                        | 69.1    | 76.0    | 82.7    | 89.9    | 91.8        | 94.0    | 94.7        | 95.4        | 96.2    | 96.6      | 96.6      | 97.0      | 97.0      | 97.3      | 97.4    |
| GE 200                | 62.6                        | 69.1    | 76.0    | 82.7    | 89.9    | 91.8        | 94.1    | 94.8        | 95.5        | 96.7    | 97.1      | 97.2      | 97.7      | 97.7      | 98.5      | 98.7    |
| GE 100                | 62.6                        | 69.1    | 76.0    | 82.7    | 89.9    | 91.8        | 94.1    | 94.9        | 95.6        | 96.8    | 97.2      | 97.3      | 98.0      | 98.1      | 99.1      | 100.0   |
| GE 000                | 62.6                        | 69.1    | 76.0    | 82.7    | 89.9    | 91.8        | 94.1    | 94.9        | 95.6        | 96.8    | 97.2      | 97.3      | 98.0      | 98.1      | 99.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION: "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 46.6                        | 47.4    | 47.5    | 47.8    | 47.8    | 47.8        | 47.8    | 47.8        | 47.8        | 47.8    | 47.8      | 47.8      | 47.8      | 47.8      | 47.8      | 47.8    |
| GE 20000              | 54.2                        | 55.6    | 55.7    | 56.1    | 56.1    | 56.1        | 56.1    | 56.1        | 56.1        | 56.1    | 56.1      | 56.1      | 56.1      | 56.1      | 56.1      | 56.1    |
| GE 18000              | 54.2                        | 55.6    | 55.7    | 56.1    | 56.1    | 56.1        | 56.1    | 56.1        | 56.1        | 56.1    | 56.1      | 56.1      | 56.1      | 56.1      | 56.1      | 56.1    |
| GE 16000              | 54.2                        | 55.6    | 55.7    | 56.1    | 56.1    | 56.1        | 56.1    | 56.1        | 56.1        | 56.1    | 56.1      | 56.1      | 56.1      | 56.1      | 56.1      | 56.1    |
| GE 14000              | 54.7                        | 56.1    | 56.2    | 56.7    | 56.7    | 56.7        | 56.7    | 56.7        | 56.7        | 56.7    | 56.7      | 56.7      | 56.7      | 56.7      | 56.7      | 56.7    |
| GE 12000              | 55.6                        | 57.0    | 57.1    | 57.5    | 57.5    | 57.5        | 57.5    | 57.5        | 57.5        | 57.5    | 57.5      | 57.5      | 57.5      | 57.5      | 57.5      | 57.5    |
| GE 10000              | 57.7                        | 59.4    | 60.0    | 60.4    | 60.4    | 60.4        | 60.4    | 60.4        | 60.4        | 60.4    | 60.4      | 60.4      | 60.4      | 60.4      | 60.4      | 60.4    |
| GE 9000               | 58.6                        | 60.2    | 60.9    | 61.3    | 61.3    | 61.3        | 61.3    | 61.3        | 61.3        | 61.3    | 61.3      | 61.3      | 61.3      | 61.3      | 61.3      | 61.3    |
| GE 8000               | 62.8                        | 64.7    | 65.9    | 66.3    | 66.3    | 66.3        | 66.3    | 66.3        | 66.3        | 66.3    | 66.3      | 66.3      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 7000               | 63.1                        | 65.1    | 66.3    | 66.9    | 66.9    | 66.9        | 66.9    | 66.9        | 66.9        | 66.9    | 66.9      | 66.9      | 66.9      | 66.9      | 66.9      | 66.9    |
| GE 6000               | 63.4                        | 65.4    | 66.7    | 67.3    | 67.6    | 67.6        | 67.6    | 67.6        | 67.6        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.6      | 67.6    |
| GE 5000               | 64.2                        | 66.3    | 67.8    | 68.5    | 68.9    | 69.0        | 69.0    | 69.0        | 69.0        | 69.0    | 69.0      | 69.0      | 69.0      | 69.0      | 69.0      | 69.0    |
| GE 4500               | 64.9                        | 67.2    | 68.7    | 69.4    | 69.9    | 70.0        | 70.0    | 70.0        | 70.0        | 70.0    | 70.0      | 70.0      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 4000               | 66.5                        | 68.8    | 71.0    | 71.7    | 72.4    | 72.5        | 72.5    | 72.5        | 72.5        | 72.5    | 72.5      | 72.5      | 72.5      | 72.5      | 72.5      | 72.5    |
| GE 3500               | 67.6                        | 70.1    | 72.3    | 73.0    | 73.7    | 73.8        | 73.8    | 73.8        | 73.8        | 73.8    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 3000               | 68.6                        | 71.1    | 73.4    | 74.2    | 74.9    | 75.1        | 75.1    | 75.1        | 75.1        | 75.1    | 75.1      | 75.1      | 75.1      | 75.1      | 75.1      | 75.1    |
| GE 2500               | 69.8                        | 72.3    | 75.1    | 76.0    | 76.8    | 76.9        | 76.9    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 2000               | 70.9                        | 73.3    | 76.5    | 77.6    | 78.6    | 78.7        | 78.7    | 78.7        | 78.7        | 78.7    | 78.7      | 78.7      | 78.7      | 78.7      | 78.7      | 78.7    |
| GE 1800               | 71.1                        | 73.5    | 76.7    | 77.8    | 78.8    | 78.9        | 78.9    | 78.9        | 78.9        | 78.9    | 78.9      | 78.9      | 78.9      | 78.9      | 78.9      | 78.9    |
| GE 1500               | 71.8                        | 74.3    | 77.8    | 79.0    | 80.2    | 80.3        | 80.3    | 80.3        | 80.3        | 80.3    | 80.3      | 80.3      | 80.3      | 80.3      | 80.3      | 80.3    |
| GE 1200               | 73.0                        | 75.9    | 79.6    | 81.6    | 83.0    | 83.1        | 83.1    | 83.1        | 83.1        | 83.1    | 83.1      | 83.1      | 83.1      | 83.1      | 83.1      | 83.1    |
| GE 1000               | 73.2                        | 76.5    | 80.3    | 82.7    | 84.6    | 84.8        | 84.8    | 84.9        | 84.9        | 84.9    | 85.2      | 85.2      | 85.2      | 85.2      | 85.2      | 85.2    |
| GE 900                | 73.2                        | 76.7    | 80.5    | 82.9    | 85.2    | 85.4        | 85.4    | 85.5        | 85.5        | 85.5    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 800                | 73.4                        | 76.9    | 81.4    | 84.2    | 87.2    | 87.5        | 87.7    | 87.8        | 87.8        | 87.8    | 88.1      | 88.1      | 88.1      | 88.1      | 88.1      | 88.1    |
| GE 700                | 73.7                        | 77.2    | 81.9    | 85.4    | 88.9    | 89.4        | 89.8    | 89.9        | 90.0        | 90.0    | 90.2      | 90.2      | 90.2      | 90.2      | 90.2      | 90.2    |
| GE 600                | 73.8                        | 77.4    | 82.2    | 86.0    | 90.0    | 90.5        | 91.1    | 91.2        | 91.3        | 91.7    | 91.9      | 91.9      | 91.9      | 91.9      | 91.9      | 91.9    |
| GE 500                | 74.1                        | 77.7    | 82.5    | 87.3    | 92.4    | 93.2        | 94.5    | 94.9        | 95.3        | 95.7    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 400                | 74.1                        | 77.7    | 82.5    | 87.5    | 93.3    | 94.3        | 95.7    | 96.6        | 96.9        | 97.3    | 97.6      | 97.6      | 97.6      | 97.6      | 97.6      | 97.6    |
| GE 300                | 74.1                        | 77.7    | 82.5    | 87.5    | 93.4    | 94.5        | 96.2    | 97.2        | 97.6        | 98.2    | 98.6      | 98.6      | 98.7      | 98.8      | 98.8      | 98.8    |
| GE 200                | 74.1                        | 77.7    | 82.5    | 87.5    | 93.4    | 94.5        | 96.3    | 97.3        | 97.8        | 98.4    | 99.0      | 99.0      | 99.5      | 99.6      | 99.7      | 99.8    |
| GE 100                | 74.1                        | 77.7    | 82.5    | 87.5    | 93.4    | 94.5        | 96.3    | 97.3        | 97.8        | 98.4    | 99.0      | 99.0      | 99.5      | 99.6      | 99.8      | 99.9    |
| GE 000                | 74.1                        | 77.7    | 82.5    | 87.5    | 93.4    | 94.5        | 96.3    | 97.3        | 97.8        | 98.4    | 99.0      | 99.0      | 99.5      | 99.6      | 99.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 48.9                        | 49.1    | 49.1    | 49.2    | 49.2    | 49.2        | 49.2    | 49.2        | 49.2        | 49.2    | 49.2      | 49.2      | 49.2      | 49.2      | 49.2      | 49.2    |
| GE 20000              | 57.1                        | 58.0    | 58.0    | 58.1    | 58.1    | 58.1        | 58.1    | 58.1        | 58.1        | 58.1    | 58.1      | 58.1      | 58.1      | 58.1      | 58.1      | 58.1    |
| GE 18000              | 57.3                        | 58.2    | 58.2    | 58.3    | 58.3    | 58.3        | 58.3    | 58.3        | 58.3        | 58.3    | 58.3      | 58.3      | 58.3      | 58.3      | 58.3      | 58.3    |
| GE 16000              | 57.3                        | 58.2    | 58.2    | 58.3    | 58.3    | 58.3        | 58.3    | 58.3        | 58.3        | 58.3    | 58.3      | 58.3      | 58.3      | 58.3      | 58.3      | 58.3    |
| GE 14000              | 58.2                        | 59.0    | 59.0    | 59.1    | 59.1    | 59.1        | 59.1    | 59.1        | 59.1        | 59.1    | 59.1      | 59.1      | 59.1      | 59.1      | 59.1      | 59.1    |
| GE 12000              | 59.4                        | 60.2    | 60.3    | 60.4    | 60.4    | 60.4        | 60.4    | 60.4        | 60.4        | 60.4    | 60.4      | 60.4      | 60.4      | 60.4      | 60.4      | 60.4    |
| GE 10000              | 61.1                        | 62.0    | 62.2    | 62.4    | 62.4    | 62.4        | 62.4    | 62.4        | 62.4        | 62.4    | 62.4      | 62.4      | 62.4      | 62.4      | 62.4      | 62.4    |
| GE 9000               | 61.5                        | 62.6    | 62.7    | 62.9    | 62.9    | 62.9        | 62.9    | 62.9        | 62.9        | 62.9    | 62.9      | 62.9      | 62.9      | 62.9      | 62.9      | 62.9    |
| GE 8000               | 64.8                        | 66.5    | 66.9    | 67.4    | 67.4    | 67.4        | 67.4    | 67.4        | 67.4        | 67.4    | 67.4      | 67.4      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 7000               | 65.7                        | 67.3    | 67.7    | 68.4    | 68.4    | 68.4        | 68.4    | 68.4        | 68.4        | 68.4    | 68.4      | 68.4      | 68.4      | 68.4      | 68.4      | 68.4    |
| GE 6000               | 66.5                        | 68.1    | 68.5    | 69.1    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 5000               | 67.3                        | 69.0    | 69.5    | 70.2    | 70.5    | 70.6        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 4500               | 67.6                        | 69.5    | 69.9    | 70.8    | 71.1    | 71.2        | 71.2    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.2      | 71.2      | 71.2      | 71.2    |
| GE 4000               | 69.7                        | 71.5    | 72.5    | 73.8    | 74.1    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 3500               | 71.0                        | 72.8    | 73.8    | 75.1    | 75.4    | 75.5        | 75.5    | 75.5        | 75.5        | 75.5    | 75.5      | 75.5      | 75.5      | 75.5      | 75.5      | 75.5    |
| GE 3000               | 72.6                        | 74.6    | 76.0    | 77.6    | 78.0    | 78.1        | 78.1    | 78.1        | 78.1        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 2500               | 73.5                        | 75.7    | 77.5    | 79.2    | 79.6    | 79.7        | 79.7    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.7      | 79.7    |
| GE 2000               | 74.6                        | 77.0    | 79.4    | 81.3    | 81.7    | 81.8        | 81.8    | 81.8        | 81.8        | 81.8    | 81.8      | 81.8      | 81.8      | 81.8      | 81.8      | 81.8    |
| GE 1800               | 74.8                        | 77.4    | 79.8    | 81.7    | 82.2    | 82.4        | 82.4    | 82.4        | 82.4        | 82.4    | 82.4      | 82.4      | 82.4      | 82.4      | 82.4      | 82.4    |
| GE 1500               | 74.9                        | 77.7    | 80.6    | 83.0    | 83.5    | 83.8        | 83.9    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 83.9    |
| GE 1200               | 75.4                        | 78.3    | 81.3    | 84.0    | 84.5    | 84.7        | 84.8    | 84.9        | 84.9        | 85.1    | 85.1      | 85.1      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 1000               | 75.5                        | 78.6    | 82.2    | 85.1    | 86.2    | 86.5        | 86.8    | 87.0        | 87.0        | 87.1    | 87.1      | 87.1      | 87.1      | 87.1      | 87.1      | 87.1    |
| GE 900                | 75.8                        | 79.2    | 82.9    | 85.8    | 87.0    | 87.3        | 87.7    | 88.1        | 88.1        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 800                | 75.9                        | 79.4    | 84.0    | 87.5    | 89.6    | 89.9        | 90.3    | 90.6        | 90.6        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 700                | 76.0                        | 79.6    | 84.4    | 88.6    | 91.0    | 91.5        | 92.5    | 92.9        | 92.9        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 600                | 76.0                        | 79.7    | 84.7    | 89.4    | 92.0    | 92.9        | 93.9    | 94.3        | 94.3        | 94.4    | 94.4      | 94.4      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 500                | 76.1                        | 79.9    | 85.1    | 89.9    | 93.3    | 94.3        | 95.9    | 96.8        | 97.0        | 97.1    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 400                | 76.1                        | 80.0    | 85.2    | 90.2    | 93.7    | 94.6        | 96.3    | 97.5        | 97.7        | 98.2    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 300                | 76.1                        | 80.0    | 85.2    | 90.2    | 93.9    | 94.9        | 96.8    | 98.3        | 98.5        | 98.9    | 99.1      | 99.1      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 200                | 76.1                        | 80.0    | 85.2    | 90.2    | 93.9    | 94.9        | 96.8    | 98.3        | 98.5        | 98.9    | 99.2      | 99.2      | 99.2      | 99.6      | 99.6      | 99.7    |
| GE 100                | 76.1                        | 80.0    | 85.2    | 90.2    | 93.9    | 94.9        | 96.8    | 98.3        | 98.5        | 98.9    | 99.2      | 99.2      | 99.6      | 99.6      | 99.9      | 100.0   |
| GE 000                | 76.1                        | 80.0    | 85.2    | 90.2    | 93.9    | 94.9        | 96.8    | 98.3        | 98.5        | 98.9    | 99.2      | 99.2      | 99.6      | 99.6      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |      |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE   | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO-CEIL               | 54.2                        | 54.7    | 55.2 | 55.3    | 55.3    | 55.3        | 55.3    | 55.3        | 55.3        | 55.3    | 55.4      | 55.4      | 55.4      | 55.4      | 55.4      | 55.4    |
| GE 20000              | 58.7                        | 59.6    | 60.0 | 60.1    | 60.1    | 60.1        | 60.1    | 60.1        | 60.1        | 60.1    | 60.2      | 60.2      | 60.2      | 60.2      | 60.2      | 60.2    |
| GE 18000              | 58.7                        | 59.6    | 60.0 | 60.1    | 60.1    | 60.1        | 60.1    | 60.1        | 60.1        | 60.1    | 60.2      | 60.2      | 60.2      | 60.2      | 60.2      | 60.2    |
| GE 16000              | 58.7                        | 59.6    | 60.0 | 60.1    | 60.1    | 60.1        | 60.1    | 60.1        | 60.1        | 60.1    | 60.2      | 60.2      | 60.2      | 60.2      | 60.2      | 60.2    |
| GE 14000              | 59.7                        | 60.5    | 61.0 | 61.1    | 61.1    | 61.1        | 61.1    | 61.1        | 61.1        | 61.1    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 12000              | 61.4                        | 62.4    | 63.1 | 63.2    | 63.2    | 63.2        | 63.2    | 63.2        | 63.2        | 63.2    | 63.3      | 63.3      | 63.3      | 63.3      | 63.3      | 63.3    |
| GE 10000              | 63.7                        | 64.6    | 65.5 | 65.6    | 65.6    | 65.6        | 65.6    | 65.6        | 65.6        | 65.6    | 65.7      | 65.7      | 65.7      | 65.7      | 65.7      | 65.7    |
| GE 9000               | 64.3                        | 65.4    | 66.2 | 66.3    | 66.3    | 66.3        | 66.3    | 66.3        | 66.3        | 66.3    | 66.5      | 66.5      | 66.5      | 66.5      | 66.5      | 66.5    |
| GE 8000               | 67.4                        | 68.8    | 69.8 | 70.0    | 70.0    | 70.0        | 70.0    | 70.0        | 70.0        | 70.0    | 70.1      | 70.1      | 70.1      | 70.1      | 70.1      | 70.1    |
| GE 7000               | 68.3                        | 69.7    | 70.8 | 71.0    | 71.0    | 71.0        | 71.0    | 71.0        | 71.0        | 71.0    | 71.1      | 71.1      | 71.1      | 71.1      | 71.1      | 71.1    |
| GE 6000               | 69.2                        | 70.6    | 71.8 | 72.0    | 72.0    | 72.2        | 72.2    | 72.2        | 72.2        | 72.2    | 72.3      | 72.3      | 72.3      | 72.3      | 72.3      | 72.3    |
| GE 5000               | 70.6                        | 72.2    | 73.5 | 73.8    | 73.9    | 74.0        | 74.0    | 74.0        | 74.0        | 74.0    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 4500               | 71.1                        | 72.6    | 74.0 | 74.2    | 74.3    | 74.4        | 74.4    | 74.4        | 74.4        | 74.4    | 74.5      | 74.5      | 74.5      | 74.5      | 74.5      | 74.5    |
| GE 4000               | 73.5                        | 75.2    | 77.3 | 77.6    | 77.7    | 77.8        | 77.8    | 77.8        | 77.8        | 77.8    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 3500               | 74.1                        | 75.8    | 78.1 | 78.4    | 78.6    | 78.7        | 78.9    | 78.9        | 78.9        | 78.9    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 3000               | 74.4                        | 76.5    | 79.1 | 79.6    | 79.8    | 79.9        | 80.1    | 80.1        | 80.1        | 80.1    | 80.2      | 80.2      | 80.2      | 80.2      | 80.2      | 80.2    |
| GE 2500               | 75.5                        | 77.7    | 80.8 | 81.4    | 81.6    | 81.7        | 81.9    | 81.9        | 81.9        | 81.9    | 82.0      | 82.0      | 82.0      | 82.0      | 82.0      | 82.0    |
| GE 2000               | 76.6                        | 78.8    | 82.2 | 82.8    | 83.1    | 83.3        | 83.5    | 83.5        | 83.5        | 83.5    | 83.7      | 83.7      | 83.7      | 83.7      | 83.7      | 83.7    |
| GE 1800               | 76.8                        | 79.2    | 82.6 | 83.2    | 83.5    | 83.8        | 84.0    | 84.0        | 84.0        | 84.0    | 84.1      | 84.2      | 84.2      | 84.2      | 84.2      | 84.2    |
| GE 1500               | 77.5                        | 80.2    | 83.8 | 84.8    | 85.2    | 85.4        | 85.6    | 85.6        | 85.6        | 85.6    | 85.7      | 85.8      | 85.8      | 85.8      | 85.8      | 85.8    |
| GE 1200               | 78.0                        | 80.8    | 84.3 | 85.4    | 85.9    | 86.1        | 86.3    | 86.5        | 86.5        | 86.5    | 86.6      | 86.7      | 86.7      | 86.9      | 86.9      | 86.9    |
| GE 1000               | 78.3                        | 81.1    | 84.7 | 85.9    | 86.6    | 86.9        | 87.1    | 87.2        | 87.2        | 87.2    | 87.3      | 87.4      | 87.4      | 87.6      | 87.6      | 87.6    |
| GE 900                | 78.5                        | 81.4    | 85.4 | 86.6    | 87.4    | 88.1        | 88.5    | 88.6        | 88.6        | 88.6    | 88.7      | 88.8      | 88.8      | 89.0      | 89.0      | 89.0    |
| GE 800                | 78.5                        | 81.4    | 85.8 | 87.1    | 88.3    | 89.0        | 89.5    | 89.6        | 89.6        | 89.7    | 89.8      | 89.8      | 89.8      | 90.0      | 90.0      | 90.0    |
| GE 700                | 78.8                        | 81.7    | 86.6 | 88.0    | 89.4    | 90.1        | 90.5    | 90.6        | 90.6        | 90.6    | 90.8      | 90.9      | 90.9      | 91.1      | 91.1      | 91.1    |
| GE 600                | 79.1                        | 82.0    | 87.1 | 88.9    | 90.8    | 92.2        | 92.9    | 93.0        | 93.0        | 93.0    | 93.2      | 93.3      | 93.3      | 93.5      | 93.5      | 93.5    |
| GE 500                | 79.1                        | 82.0    | 87.1 | 89.6    | 91.7    | 93.2        | 94.8    | 94.9        | 94.9        | 94.9    | 95.3      | 95.4      | 95.4      | 95.6      | 95.6      | 95.6    |
| GE 400                | 79.1                        | 82.0    | 87.1 | 89.8    | 92.0    | 93.7        | 95.7    | 96.0        | 96.0        | 96.0    | 96.7      | 97.0      | 97.0      | 97.2      | 97.2      | 97.2    |
| GE 300                | 79.1                        | 82.0    | 87.1 | 89.8    | 92.3    | 94.1        | 96.2    | 96.8        | 97.2        | 97.2    | 98.0      | 98.3      | 98.3      | 98.5      | 98.5      | 98.5    |
| GE 200                | 79.1                        | 82.0    | 87.1 | 89.8    | 92.3    | 94.1        | 96.3    | 97.0        | 97.4        | 97.4    | 98.5      | 98.8      | 98.8      | 99.1      | 99.1      | 99.6    |
| GE 100                | 79.1                        | 82.0    | 87.1 | 89.8    | 92.3    | 94.1        | 96.3    | 97.0        | 97.4        | 97.4    | 98.5      | 98.8      | 98.8      | 99.1      | 99.1      | 99.8    |
| GE 000                | 79.1                        | 82.0    | 87.1 | 89.8    | 92.3    | 94.1        | 96.3    | 97.0        | 97.4        | 97.4    | 98.5      | 98.8      | 98.8      | 99.1      | 99.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.0                        | 58.5    | 58.6    | 58.9    | 59.0    | 59.0        | 59.1    | 59.1        | 59.1        | 59.1    | 59.1      | 59.2      | 59.2      | 59.2      | 59.2      | 59.4    |
| GE 20000              | 61.6                        | 62.3    | 62.4    | 62.7    | 62.8    | 62.8        | 62.9    | 62.9        | 62.9        | 62.9    | 62.9      | 63.0      | 63.0      | 63.0      | 63.0      | 63.1    |
| GE 18000              | 61.6                        | 62.3    | 62.4    | 62.7    | 62.8    | 62.8        | 62.9    | 62.9        | 62.9        | 62.9    | 62.9      | 63.0      | 63.0      | 63.0      | 63.0      | 63.1    |
| GE 16000              | 61.7                        | 62.4    | 62.5    | 62.8    | 62.9    | 62.9        | 63.0    | 63.0        | 63.0        | 63.0    | 63.0      | 63.1      | 63.1      | 63.1      | 63.1      | 63.2    |
| GE 14000              | 61.8                        | 62.5    | 62.6    | 62.9    | 63.0    | 63.0        | 63.1    | 63.1        | 63.1        | 63.1    | 63.1      | 63.2      | 63.2      | 63.2      | 63.2      | 63.3    |
| GE 12000              | 63.3                        | 64.0    | 64.1    | 64.4    | 64.5    | 64.5        | 64.6    | 64.6        | 64.6        | 64.6    | 64.6      | 64.7      | 64.7      | 64.7      | 64.7      | 64.8    |
| GE 10000              | 66.6                        | 67.2    | 67.4    | 67.7    | 67.8    | 67.8        | 68.0    | 68.0        | 68.0        | 68.0    | 68.1      | 68.2      | 68.2      | 68.2      | 68.2      | 68.3    |
| GE 9000               | 67.2                        | 67.8    | 68.1    | 68.4    | 68.5    | 68.5        | 68.6    | 68.6        | 68.6        | 68.6    | 68.7      | 68.8      | 68.8      | 68.8      | 68.8      | 68.9    |
| GE 8000               | 69.6                        | 70.5    | 70.9    | 71.2    | 71.3    | 71.4        | 71.5    | 71.5        | 71.5        | 71.5    | 71.6      | 71.7      | 71.8      | 71.8      | 71.8      | 71.9    |
| GE 7000               | 70.5                        | 71.5    | 71.9    | 72.3    | 72.4    | 72.5        | 72.6    | 72.6        | 72.6        | 72.6    | 72.7      | 72.8      | 72.9      | 72.9      | 72.9      | 73.0    |
| GE 6000               | 71.8                        | 72.9    | 73.5    | 73.9    | 74.1    | 74.2        | 74.3    | 74.3        | 74.3        | 74.3    | 74.4      | 74.5      | 74.6      | 74.6      | 74.6      | 74.7    |
| GE 5000               | 74.0                        | 75.4    | 76.1    | 76.5    | 76.7    | 76.8        | 76.9    | 76.9        | 76.9        | 76.9    | 77.0      | 77.1      | 77.2      | 77.2      | 77.2      | 77.3    |
| GE 4500               | 74.7                        | 76.1    | 76.9    | 77.2    | 77.4    | 77.5        | 77.6    | 77.6        | 77.6        | 77.6    | 77.7      | 77.8      | 78.0      | 78.0      | 78.0      | 78.1    |
| GE 4000               | 75.9                        | 77.3    | 78.3    | 78.8    | 79.0    | 79.1        | 79.2    | 79.2        | 79.2        | 79.2    | 79.4      | 79.5      | 79.6      | 79.6      | 79.6      | 79.7    |
| GE 3500               | 76.5                        | 78.1    | 79.0    | 79.7    | 79.9    | 80.0        | 80.1    | 80.1        | 80.1        | 80.1    | 80.2      | 80.3      | 80.4      | 80.4      | 80.4      | 80.5    |
| GE 3000               | 76.9                        | 78.5    | 79.7    | 80.4    | 80.6    | 80.8        | 81.0    | 81.0        | 81.0        | 81.0    | 81.1      | 81.2      | 81.3      | 81.3      | 81.3      | 81.4    |
| GE 2500               | 77.5                        | 79.1    | 80.5    | 81.4    | 81.6    | 81.7        | 81.9    | 81.9        | 81.9        | 81.9    | 82.0      | 82.2      | 82.3      | 82.3      | 82.3      | 82.4    |
| GE 2000               | 79.2                        | 80.9    | 82.5    | 83.4    | 83.7    | 83.8        | 84.0    | 84.0        | 84.0        | 84.0    | 84.1      | 84.2      | 84.3      | 84.3      | 84.3      | 84.4    |
| GE 1800               | 79.7                        | 81.3    | 83.1    | 84.1    | 84.3    | 84.4        | 84.6    | 84.6        | 84.6        | 84.6    | 84.7      | 84.8      | 84.9      | 84.9      | 84.9      | 85.1    |
| GE 1500               | 80.0                        | 81.8    | 83.7    | 84.6    | 84.8    | 84.9        | 85.2    | 85.2        | 85.2        | 85.2    | 85.3      | 85.5      | 85.7      | 85.7      | 85.7      | 85.8    |
| GE 1200               | 80.4                        | 82.5    | 84.3    | 85.3    | 85.6    | 85.7        | 85.9    | 86.0        | 86.0        | 86.0    | 86.1      | 86.3      | 86.6      | 86.6      | 86.6      | 86.7    |
| GE 1000               | 80.5                        | 82.7    | 84.6    | 85.6    | 86.0    | 86.1        | 86.3    | 86.5        | 86.5        | 86.5    | 86.6      | 86.8      | 87.0      | 87.0      | 87.0      | 87.1    |
| GE 900                | 80.5                        | 82.7    | 84.9    | 86.0    | 86.8    | 86.9        | 87.3    | 87.4        | 87.4        | 87.4    | 87.5      | 87.7      | 88.0      | 88.0      | 88.0      | 88.1    |
| GE 800                | 81.0                        | 83.1    | 85.4    | 86.6    | 87.4    | 87.6        | 88.1    | 88.2        | 88.2        | 88.2    | 88.3      | 88.5      | 88.7      | 88.7      | 88.7      | 88.8    |
| GE 700                | 81.4                        | 83.8    | 86.1    | 87.3    | 88.3    | 88.5        | 89.0    | 89.1        | 89.1        | 89.1    | 89.2      | 89.5      | 89.7      | 89.7      | 89.7      | 89.8    |
| GE 600                | 81.5                        | 83.9    | 86.5    | 88.2    | 89.7    | 90.2        | 91.1    | 91.2        | 91.2        | 91.2    | 91.3      | 91.5      | 91.7      | 91.7      | 91.7      | 91.8    |
| GE 500                | 81.5                        | 83.9    | 86.5    | 88.9    | 91.1    | 91.7        | 92.9    | 93.1        | 93.1        | 93.4    | 93.5      | 93.8      | 94.0      | 94.0      | 94.0      | 94.1    |
| GE 400                | 81.5                        | 83.9    | 86.5    | 89.0    | 91.5    | 92.3        | 93.9    | 94.3        | 94.3        | 94.7    | 94.8      | 95.1      | 95.3      | 95.3      | 95.3      | 95.4    |
| GE 300                | 81.5                        | 83.9    | 86.5    | 89.1    | 91.9    | 92.8        | 94.9    | 95.6        | 95.6        | 96.2    | 96.3      | 96.6      | 96.8      | 96.8      | 96.9      | 97.0    |
| GE 200                | 81.5                        | 83.9    | 86.5    | 89.1    | 91.9    | 92.8        | 94.9    | 95.8        | 95.8        | 96.7    | 97.0      | 97.2      | 97.4      | 97.4      | 97.8      | 98.3    |
| GE 100                | 81.5                        | 83.9    | 86.5    | 89.1    | 91.9    | 92.8        | 94.9    | 96.0        | 96.0        | 97.1    | 97.5      | 97.7      | 98.0      | 98.0      | 98.5      | 99.2    |
| GE 000                | 81.5                        | 83.9    | 86.5    | 89.1    | 91.9    | 92.8        | 94.9    | 96.0        | 96.0        | 97.1    | 97.5      | 97.7      | 98.0      | 98.0      | 98.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATIONNUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 50.1                        | 51.1    | 51.9    | 52.3    | 52.4    | 52.4        | 52.5    | 52.5        | 52.5        | 52.6    | 52.6      | 52.6      | 52.7      | 52.7      | 52.7      | 52.8    |
| GE 20000              | 55.1                        | 56.5    | 57.4    | 57.7    | 58.0    | 58.0        | 58.1    | 58.1        | 58.1        | 58.1    | 58.2      | 58.2      | 58.3      | 58.3      | 58.3      | 58.4    |
| GE 18000              | 55.1                        | 56.5    | 57.4    | 57.8    | 58.0    | 58.0        | 58.1    | 58.2        | 58.2        | 58.2    | 58.2      | 58.2      | 58.3      | 58.3      | 58.3      | 58.5    |
| GE 16000              | 55.2                        | 56.5    | 57.4    | 57.8    | 58.0    | 58.1        | 58.1    | 58.2        | 58.2        | 58.2    | 58.2      | 58.3      | 58.3      | 58.3      | 58.4      | 58.5    |
| GE 14000              | 55.6                        | 57.0    | 57.9    | 58.2    | 58.5    | 58.5        | 58.5    | 58.6        | 58.6        | 58.6    | 58.7      | 58.7      | 58.8      | 58.8      | 58.8      | 58.9    |
| GE 12000              | 56.6                        | 58.0    | 59.0    | 59.4    | 59.6    | 59.6        | 59.7    | 59.8        | 59.8        | 59.8    | 59.8      | 59.8      | 59.9      | 59.9      | 60.0      | 60.1    |
| GE 10000              | 59.4                        | 60.9    | 62.0    | 62.5    | 62.8    | 62.8        | 62.9    | 63.0        | 63.0        | 63.0    | 63.1      | 63.1      | 63.2      | 63.2      | 63.2      | 63.3    |
| GE 9000               | 59.8                        | 61.4    | 62.5    | 63.0    | 63.3    | 63.4        | 63.4    | 63.5        | 63.5        | 63.5    | 63.6      | 63.6      | 63.7      | 63.7      | 63.7      | 63.8    |
| GE 8000               | 62.8                        | 64.6    | 65.9    | 66.6    | 67.0    | 67.0        | 67.1    | 67.2        | 67.2        | 67.2    | 67.3      | 67.3      | 67.4      | 67.4      | 67.4      | 67.5    |
| GE 7000               | 63.3                        | 65.1    | 66.5    | 67.3    | 67.7    | 67.7        | 67.8    | 67.9        | 67.9        | 67.9    | 67.9      | 68.0      | 68.1      | 68.1      | 68.1      | 68.2    |
| GE 6000               | 64.1                        | 65.9    | 67.4    | 68.2    | 68.7    | 68.7        | 68.8    | 68.9        | 68.9        | 68.9    | 69.0      | 69.0      | 69.1      | 69.1      | 69.1      | 69.2    |
| GE 5000               | 65.9                        | 67.9    | 69.5    | 70.4    | 71.0    | 71.0        | 71.1    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.4      | 71.4      | 71.5      | 71.6    |
| GE 4500               | 66.3                        | 68.3    | 70.0    | 70.9    | 71.6    | 71.7        | 71.7    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 72.0      | 72.0      | 72.1      | 72.2    |
| GE 4000               | 67.9                        | 70.1    | 72.1    | 73.3    | 74.1    | 74.2        | 74.2    | 74.4        | 74.4        | 74.4    | 74.4      | 74.5      | 74.6      | 74.6      | 74.6      | 74.7    |
| GE 3500               | 68.7                        | 70.9    | 73.0    | 74.2    | 75.0    | 75.1        | 75.2    | 75.3        | 75.3        | 75.3    | 75.4      | 75.4      | 75.5      | 75.5      | 75.6      | 75.7    |
| GE 3000               | 69.6                        | 71.9    | 74.2    | 75.6    | 76.5    | 76.6        | 76.7    | 76.8        | 76.8        | 76.8    | 76.9      | 76.9      | 77.0      | 77.0      | 77.0      | 77.2    |
| GE 2500               | 70.2                        | 72.6    | 75.1    | 76.5    | 77.5    | 77.7        | 77.8    | 78.0        | 78.0        | 78.0    | 78.0      | 78.1      | 78.2      | 78.2      | 78.2      | 78.3    |
| GE 2000               | 71.6                        | 74.0    | 76.7    | 78.3    | 79.4    | 79.6        | 79.8    | 79.9        | 79.9        | 79.9    | 80.0      | 80.0      | 80.1      | 80.1      | 80.2      | 80.3    |
| GE 1800               | 71.8                        | 74.3    | 77.1    | 78.6    | 79.8    | 80.0        | 80.2    | 80.3        | 80.3        | 80.4    | 80.4      | 80.5      | 80.6      | 80.6      | 80.6      | 80.8    |
| GE 1500               | 72.4                        | 75.1    | 78.0    | 79.7    | 81.0    | 81.3        | 81.5    | 81.6        | 81.6        | 81.7    | 81.7      | 81.8      | 81.9      | 81.9      | 81.9      | 82.1    |
| GE 1200               | 73.0                        | 75.8    | 78.9    | 80.9    | 82.4    | 82.6        | 82.9    | 83.1        | 83.1        | 83.1    | 83.2      | 83.2      | 83.4      | 83.4      | 83.4      | 83.5    |
| GE 1000               | 73.3                        | 76.2    | 79.6    | 81.7    | 83.4    | 83.7        | 84.0    | 84.3        | 84.3        | 84.3    | 84.4      | 84.5      | 84.6      | 84.6      | 84.7      | 84.8    |
| GE 900                | 73.4                        | 76.4    | 79.9    | 82.1    | 84.0    | 84.3        | 84.7    | 85.0        | 85.0        | 85.0    | 85.1      | 85.2      | 85.3      | 85.3      | 85.4      | 85.5    |
| GE 800                | 73.7                        | 76.7    | 80.6    | 83.2    | 85.6    | 86.0        | 86.5    | 86.8        | 86.8        | 86.8    | 86.9      | 86.9      | 87.1      | 87.1      | 87.2      | 87.3    |
| GE 700                | 73.8                        | 77.0    | 81.1    | 84.0    | 86.8    | 87.3        | 88.0    | 88.3        | 88.3        | 88.4    | 88.5      | 88.5      | 88.7      | 88.7      | 88.8      | 88.9    |
| GE 600                | 74.0                        | 77.2    | 81.5    | 84.7    | 88.1    | 89.0        | 89.8    | 90.2        | 90.2        | 90.4    | 90.5      | 90.5      | 90.7      | 90.7      | 90.7      | 90.9    |
| GE 500                | 74.1                        | 77.4    | 81.9    | 85.7    | 89.8    | 90.9        | 92.3    | 92.8        | 93.0        | 93.3    | 93.4      | 93.4      | 93.6      | 93.6      | 93.7      | 93.8    |
| GE 400                | 74.1                        | 77.4    | 81.9    | 86.0    | 90.5    | 91.8        | 93.5    | 94.4        | 94.5        | 94.9    | 95.2      | 95.2      | 95.4      | 95.4      | 95.5      | 95.6    |
| GE 300                | 74.1                        | 77.4    | 82.0    | 86.1    | 90.9    | 92.3        | 94.4    | 95.5        | 95.7        | 96.3    | 96.7      | 96.7      | 97.0      | 97.0      | 97.2      | 97.3    |
| GE 200                | 74.1                        | 77.4    | 82.0    | 86.1    | 90.9    | 92.4        | 94.5    | 95.7        | 96.0        | 96.8    | 97.3      | 97.4      | 97.9      | 97.9      | 98.3      | 98.6    |
| GE 100                | 74.1                        | 77.4    | 82.0    | 86.1    | 90.9    | 92.4        | 94.6    | 95.7        | 96.1        | 96.9    | 97.5      | 97.6      | 98.1      | 98.1      | 98.8      | 99.7    |
| GE 000                | 74.1                        | 77.4    | 82.0    | 86.1    | 90.9    | 92.4        | 94.6    | 95.7        | 96.1        | 96.9    | 97.5      | 97.6      | 98.1      | 98.1      | 98.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |          |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|----------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0' |
| NO CEIL               | 56.1                        | 57.0    | 57.7    | 57.7    | 57.8    | 57.8        | 58.2    | 58.2        | 58.2        | 58.2    | 58.2      | 58.2      | 58.2      | 58.2      | 58.2      | 58.3     |
| GE 20000              | 59.5                        | 60.4    | 61.1    | 61.1    | 61.2    | 61.2        | 61.6    | 61.6        | 61.6        | 61.6    | 61.6      | 61.6      | 61.6      | 61.6      | 61.6      | 61.7     |
| GE 18000              | 59.5                        | 60.4    | 61.1    | 61.1    | 61.2    | 61.2        | 61.6    | 61.6        | 61.6        | 61.6    | 61.6      | 61.6      | 61.6      | 61.6      | 61.6      | 61.7     |
| GE 16000              | 59.5                        | 60.4    | 61.1    | 61.1    | 61.2    | 61.2        | 61.6    | 61.6        | 61.6        | 61.6    | 61.6      | 61.6      | 61.6      | 61.6      | 61.6      | 61.7     |
| GE 14000              | 59.6                        | 60.5    | 61.2    | 61.2    | 61.4    | 61.4        | 61.7    | 61.7        | 61.7        | 61.7    | 61.7      | 61.7      | 61.7      | 61.7      | 61.7      | 61.8     |
| GE 12000              | 59.7                        | 60.7    | 61.4    | 61.4    | 61.5    | 61.5        | 61.8    | 61.8        | 61.8        | 61.8    | 61.8      | 61.8      | 61.8      | 61.8      | 61.8      | 62.0     |
| GE 10000              | 63.6                        | 64.5    | 65.3    | 65.6    | 65.7    | 65.7        | 66.1    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.1      | 66.1      | 66.1      | 66.2     |
| GE 9000               | 63.6                        | 64.5    | 65.3    | 65.6    | 65.7    | 65.7        | 66.1    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.1      | 66.1      | 66.1      | 66.2     |
| GE 8000               | 66.5                        | 67.5    | 68.2    | 68.6    | 68.7    | 68.7        | 69.0    | 69.0        | 69.0        | 69.0    | 69.0      | 69.0      | 69.0      | 69.0      | 69.0      | 69.1     |
| GE 7000               | 67.8                        | 68.8    | 69.5    | 69.8    | 70.0    | 70.0        | 70.3    | 70.3        | 70.3        | 70.3    | 70.3      | 70.3      | 70.3      | 70.3      | 70.3      | 70.4     |
| GE 6000               | 68.3                        | 69.3    | 70.0    | 70.3    | 70.4    | 70.4        | 70.8    | 70.8        | 70.8        | 70.8    | 70.8      | 70.8      | 70.8      | 70.8      | 70.8      | 70.9     |
| GE 5000               | 70.7                        | 71.6    | 72.3    | 72.7    | 72.8    | 72.8        | 73.1    | 73.1        | 73.1        | 73.1    | 73.1      | 73.1      | 73.1      | 73.1      | 73.1      | 73.3     |
| GE 4500               | 71.4                        | 72.3    | 73.1    | 73.5    | 73.6    | 73.6        | 74.0    | 74.0        | 74.0        | 74.0    | 74.0      | 74.0      | 74.0      | 74.0      | 74.0      | 74.1     |
| GE 4000               | 73.1                        | 74.2    | 75.3    | 75.7    | 75.9    | 75.9        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.3     |
| GE 3500               | 74.1                        | 75.1    | 76.2    | 76.8    | 76.9    | 76.9        | 77.3    | 77.3        | 77.3        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.3      | 77.4     |
| GE 3000               | 74.8                        | 76.0    | 77.3    | 78.0    | 78.1    | 78.1        | 78.4    | 78.4        | 78.4        | 78.4    | 78.4      | 78.4      | 78.6      | 78.6      | 78.6      | 78.7     |
| GE 2500               | 74.8                        | 76.0    | 77.3    | 78.0    | 78.4    | 78.4        | 78.8    | 78.8        | 78.8        | 78.8    | 78.8      | 78.8      | 78.9      | 78.9      | 78.9      | 79.0     |
| GE 2000               | 76.6                        | 78.0    | 79.5    | 80.4    | 81.2    | 81.2        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.9      | 81.9      | 81.9      | 82.0     |
| GE 1800               | 76.6                        | 78.0    | 79.6    | 80.7    | 81.6    | 81.6        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.3      | 82.3      | 82.3      | 82.4     |
| GE 1500               | 76.9                        | 78.3    | 80.1    | 81.2    | 82.2    | 82.2        | 82.8    | 82.8        | 82.8        | 83.0    | 83.0      | 83.0      | 83.2      | 83.2      | 83.2      | 83.3     |
| GE 1200               | 77.5                        | 78.9    | 80.8    | 82.1    | 83.6    | 83.9        | 84.5    | 84.5        | 84.5        | 84.7    | 84.7      | 84.7      | 84.8      | 84.8      | 84.8      | 84.9     |
| GE 1000               | 78.8                        | 80.2    | 82.2    | 83.5    | 85.4    | 85.6        | 86.2    | 86.2        | 86.2        | 86.5    | 86.5      | 86.5      | 86.6      | 86.6      | 86.6      | 86.7     |
| GE 900                | 79.0                        | 80.4    | 82.6    | 84.0    | 86.0    | 86.2        | 86.8    | 86.8        | 86.8        | 87.0    | 87.0      | 87.0      | 87.2      | 87.2      | 87.2      | 87.3     |
| GE 800                | 79.4                        | 80.8    | 83.2    | 84.7    | 86.9    | 87.2        | 87.9    | 87.9        | 87.9        | 88.1    | 88.1      | 88.1      | 88.2      | 88.2      | 88.2      | 88.3     |
| GE 700                | 79.4                        | 80.9    | 83.4    | 85.3    | 88.0    | 88.8        | 89.5    | 89.5        | 89.5        | 89.8    | 89.8      | 89.8      | 89.9      | 89.9      | 89.9      | 90.0     |
| GE 600                | 79.9                        | 81.5    | 84.9    | 86.9    | 90.1    | 90.9        | 91.9    | 91.9        | 91.9        | 92.2    | 92.2      | 92.2      | 92.3      | 92.3      | 92.3      | 92.5     |
| GE 500                | 80.0                        | 81.7    | 85.5    | 87.9    | 91.8    | 92.6        | 93.6    | 93.6        | 93.6        | 94.0    | 94.0      | 94.0      | 94.1      | 94.1      | 94.1      | 94.2     |
| GE 400                | 80.0                        | 81.7    | 85.9    | 88.3    | 92.2    | 93.6        | 94.7    | 94.7        | 94.7        | 95.3    | 95.3      | 95.3      | 95.4      | 95.4      | 95.4      | 95.5     |
| GE 300                | 80.0                        | 81.7    | 85.9    | 88.3    | 92.5    | 94.1        | 95.5    | 95.9        | 95.9        | 96.9    | 96.9      | 96.9      | 97.1      | 97.1      | 97.3      | 97.4     |
| GE 200                | 80.0                        | 81.7    | 85.9    | 88.3    | 92.5    | 94.1        | 96.0    | 96.7        | 96.7        | 98.0    | 98.0      | 98.0      | 98.5      | 98.5      | 98.7      | 98.8     |
| GE 100                | 80.0                        | 81.7    | 85.9    | 88.3    | 92.5    | 94.1        | 96.0    | 96.7        | 96.7        | 98.0    | 98.0      | 98.0      | 98.5      | 98.5      | 98.7      | 98.8     |
| GE 000                | 80.0                        | 8.7     | 85.9    | 88.3    | 92.5    | 94.1        | 96.0    | 96.7        | 96.7        | 98.0    | 98.0      | 98.0      | 98.5      | 98.5      | 98.9      | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 49.6                        | 50.3    | 50.4    | 51.0    | 51.6    | 51.6        | 52.1    | 52.3        | 52.3        | 52.9    | 53.0      | 53.0      | 53.1      | 53.1      | 53.2      | 53.2    |
| GE 20000              | 53.4                        | 54.3    | 54.4    | 55.0    | 55.6    | 55.6        | 56.2    | 56.4        | 56.4        | 57.0    | 57.1      | 57.1      | 57.2      | 57.2      | 57.4      | 57.4    |
| GE 18000              | 53.4                        | 54.3    | 54.4    | 55.0    | 55.6    | 55.6        | 56.2    | 56.4        | 56.4        | 57.0    | 57.1      | 57.1      | 57.2      | 57.2      | 57.4      | 57.4    |
| GE 16000              | 53.4                        | 54.3    | 54.4    | 55.0    | 55.6    | 55.6        | 56.2    | 56.4        | 56.4        | 57.0    | 57.1      | 57.1      | 57.2      | 57.2      | 57.4      | 57.4    |
| GE 14000              | 53.4                        | 54.3    | 54.4    | 55.0    | 55.6    | 55.6        | 56.2    | 56.4        | 56.4        | 57.0    | 57.1      | 57.1      | 57.2      | 57.2      | 57.4      | 57.4    |
| GE 12000              | 53.5                        | 54.4    | 54.7    | 55.2    | 55.8    | 55.8        | 56.4    | 56.7        | 56.7        | 57.2    | 57.4      | 57.4      | 57.5      | 57.5      | 57.6      | 57.6    |
| GE 10000              | 56.7                        | 57.7    | 58.0    | 58.8    | 59.4    | 59.4        | 60.0    | 60.2        | 60.2        | 60.8    | 60.9      | 60.9      | 61.0      | 61.0      | 61.1      | 61.1    |
| GE 9000               | 56.7                        | 57.7    | 58.0    | 58.8    | 59.4    | 59.4        | 60.0    | 60.2        | 60.2        | 60.8    | 60.9      | 60.9      | 61.0      | 61.0      | 61.1      | 61.1    |
| GE 8000               | 60.2                        | 61.2    | 61.7    | 62.9    | 63.5    | 63.5        | 64.1    | 64.3        | 64.3        | 64.9    | 65.0      | 65.0      | 65.1      | 65.1      | 65.3      | 65.3    |
| GE 7000               | 60.8                        | 61.8    | 62.3    | 63.5    | 64.1    | 64.1        | 64.7    | 64.9        | 64.9        | 65.5    | 65.6      | 65.6      | 65.7      | 65.7      | 65.8      | 65.8    |
| GE 6000               | 62.0                        | 63.0    | 63.6    | 64.8    | 65.4    | 65.5        | 66.1    | 66.3        | 66.3        | 66.9    | 67.0      | 67.0      | 67.1      | 67.1      | 67.3      | 67.3    |
| GE 5000               | 65.3                        | 66.3    | 66.9    | 68.1    | 68.7    | 68.8        | 69.5    | 69.7        | 69.7        | 70.3    | 70.4      | 70.4      | 70.6      | 70.6      | 70.7      | 70.7    |
| GE 4500               | 65.5                        | 66.5    | 67.1    | 68.3    | 68.9    | 69.0        | 69.7    | 70.1        | 70.1        | 70.7    | 70.8      | 70.8      | 70.9      | 70.9      | 71.0      | 71.0    |
| GE 4000               | 68.6                        | 69.7    | 70.4    | 71.8    | 72.4    | 72.6        | 73.3    | 73.6        | 73.6        | 74.2    | 74.3      | 74.3      | 74.4      | 74.4      | 74.6      | 74.6    |
| GE 3500               | 69.1                        | 70.3    | 71.1    | 72.6    | 73.1    | 73.3        | 74.0    | 74.3        | 74.3        | 74.9    | 75.0      | 75.0      | 75.1      | 75.1      | 75.3      | 75.3    |
| GE 3000               | 71.0                        | 72.2    | 73.3    | 74.9    | 75.5    | 75.6        | 76.3    | 76.7        | 76.7        | 77.3    | 77.4      | 77.4      | 77.5      | 77.5      | 77.6      | 77.6    |
| GE 2500               | 71.4                        | 72.6    | 73.7    | 75.4    | 76.1    | 76.3        | 77.0    | 77.4        | 77.4        | 78.0    | 78.1      | 78.1      | 78.2      | 78.2      | 78.3      | 78.3    |
| GE 2000               | 72.8                        | 74.0    | 75.5    | 77.1    | 77.9    | 78.3        | 79.0    | 79.4        | 79.4        | 80.0    | 80.2      | 80.2      | 80.3      | 80.3      | 80.4      | 80.4    |
| GE 1800               | 73.1                        | 74.3    | 75.9    | 77.5    | 78.2    | 78.7        | 79.4    | 79.7        | 79.7        | 80.3    | 80.6      | 80.6      | 80.7      | 80.7      | 80.8      | 80.8    |
| GE 1500               | 73.7                        | 74.9    | 76.4    | 78.1    | 78.8    | 79.4        | 80.1    | 80.6        | 80.6        | 81.2    | 81.4      | 81.4      | 81.5      | 81.5      | 81.6      | 81.6    |
| GE 1200               | 74.6                        | 75.7    | 77.3    | 78.9    | 80.2    | 80.9        | 81.6    | 82.1        | 82.1        | 82.7    | 82.9      | 82.9      | 83.0      | 83.0      | 83.2      | 83.2    |
| GE 1000               | 74.9                        | 76.1    | 77.6    | 79.4    | 81.0    | 81.9        | 82.6    | 83.0        | 83.0        | 83.6    | 83.9      | 83.9      | 84.0      | 84.0      | 84.1      | 84.1    |
| GE 900                | 75.4                        | 76.6    | 78.1    | 80.0    | 81.7    | 82.6        | 83.3    | 83.7        | 83.7        | 84.3    | 84.6      | 84.6      | 84.7      | 84.7      | 84.8      | 84.8    |
| GE 800                | 75.7                        | 76.9    | 78.7    | 80.8    | 82.6    | 83.4        | 84.1    | 84.6        | 84.6        | 85.2    | 85.4      | 85.4      | 85.5      | 85.5      | 85.6      | 85.6    |
| GE 700                | 76.3                        | 77.7    | 79.6    | 82.0    | 84.1    | 85.0        | 86.0    | 86.5        | 86.5        | 87.0    | 87.3      | 87.3      | 87.4      | 87.4      | 87.5      | 87.5    |
| GE 600                | 76.6                        | 78.2    | 80.9    | 83.6    | 86.1    | 87.2        | 88.5    | 89.2        | 89.2        | 89.9    | 90.1      | 90.1      | 90.2      | 90.2      | 90.3      | 90.3    |
| GE 500                | 76.6                        | 78.3    | 81.2    | 84.5    | 87.0    | 88.2        | 90.7    | 91.6        | 91.6        | 92.3    | 92.6      | 92.6      | 92.7      | 92.7      | 92.8      | 92.8    |
| GE 400                | 76.7                        | 78.6    | 81.5    | 84.9    | 88.0    | 89.8        | 92.8    | 93.9        | 94.0        | 94.8    | 95.1      | 95.1      | 95.2      | 95.2      | 95.3      | 95.3    |
| GE 300                | 76.7                        | 78.6    | 81.5    | 84.9    | 88.2    | 90.1        | 93.6    | 94.8        | 95.1        | 96.0    | 96.3      | 96.3      | 96.5      | 96.5      | 96.7      | 96.8    |
| GE 200                | 76.7                        | 78.6    | 81.5    | 84.9    | 88.2    | 90.1        | 94.0    | 95.2        | 95.4        | 96.8    | 97.2      | 97.2      | 97.8      | 97.8      | 98.1      | 98.2    |
| GE 100                | 76.7                        | 78.6    | 81.5    | 84.9    | 88.2    | 90.1        | 94.0    | 95.2        | 95.4        | 96.8    | 97.3      | 97.3      | 98.0      | 98.1      | 98.6      | 99.4    |
| GE 000                | 76.7                        | 78.6    | 81.5    | 84.9    | 88.2    | 90.1        | 94.0    | 95.2        | 95.4        | 96.8    | 97.3      | 97.3      | 98.0      | 98.1      | 98.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 39.3                        | 42.2    | 43.7    | 44.9    | 46.4    | 46.6        | 47.0    | 47.0        | 47.0        | 47.2    | 47.2      | 47.2      | 47.3      | 47.3      | 47.3      | 47.5    |
| GE 20000              | 43.2                        | 46.2    | 47.9    | 49.1    | 50.6    | 51.0        | 51.4    | 51.4        | 51.4        | 51.6    | 51.6      | 51.6      | 51.7      | 51.7      | 51.7      | 51.9    |
| GE 18000              | 43.2                        | 46.2    | 47.9    | 49.1    | 50.6    | 51.0        | 51.4    | 51.4        | 51.4        | 51.6    | 51.6      | 51.6      | 51.7      | 51.7      | 51.7      | 51.9    |
| GE 16000              | 43.2                        | 46.2    | 47.9    | 49.1    | 50.6    | 51.0        | 51.4    | 51.4        | 51.4        | 51.6    | 51.6      | 51.6      | 51.7      | 51.7      | 51.7      | 51.9    |
| GE 14000              | 43.2                        | 46.2    | 47.9    | 49.1    | 0.6     | 51.0        | 51.4    | 51.4        | 51.4        | 51.6    | 51.6      | 51.6      | 51.7      | 51.7      | 51.7      | 51.9    |
| GE 12000              | 44.2                        | 47.1    | 48.9    | 50.3    | 51.8    | 52.2        | 52.5    | 52.5        | 52.5        | 52.8    | 52.8      | 52.8      | 52.9      | 52.9      | 52.9      | 53.1    |
| GE 10000              | 47.3                        | 50.4    | 52.5    | 54.2    | 55.8    | 56.3        | 56.7    | 56.7        | 56.7        | 56.9    | 56.9      | 56.9      | 57.0      | 57.0      | 57.0      | 57.2    |
| GE 9000               | 47.5                        | 50.5    | 52.7    | 54.3    | 55.9    | 56.4        | 56.8    | 56.8        | 56.8        | 57.1    | 57.1      | 57.1      | 57.4      | 57.4      | 57.4      | 57.6    |
| GE 8000               | 49.6                        | 52.9    | 55.1    | 57.0    | 58.7    | 59.1        | 59.6    | 59.6        | 59.6        | 60.0    | 60.0      | 60.0      | 60.2      | 60.2      | 60.2      | 60.4    |
| GE 7000               | 50.1                        | 53.5    | 55.7    | 57.6    | 59.4    | 59.8        | 60.3    | 60.3        | 60.3        | 60.7    | 60.7      | 60.7      | 60.9      | 60.9      | 60.9      | 61.1    |
| GE 6000               | 50.2                        | 53.6    | 55.8    | 57.7    | 59.6    | 60.1        | 60.5    | 60.5        | 60.5        | 60.9    | 60.9      | 60.9      | 61.1      | 61.1      | 61.1      | 61.4    |
| GE 5000               | 52.8                        | 56.3    | 58.9    | 60.9    | 63.6    | 64.2        | 64.7    | 64.7        | 64.7        | 65.0    | 65.0      | 65.0      | 65.3      | 65.3      | 65.3      | 65.5    |
| GE 4500               | 53.7                        | 57.2    | 59.8    | 62.0    | 64.7    | 65.3        | 65.7    | 65.7        | 65.7        | 66.1    | 66.1      | 66.1      | 66.3      | 66.3      | 66.3      | 66.5    |
| GE 4000               | 56.9                        | 60.5    | 63.1    | 65.4    | 68.7    | 69.3        | 69.8    | 69.8        | 69.8        | 70.2    | 70.2      | 70.2      | 70.4      | 70.6      | 70.6      | 70.8    |
| GE 3500               | 58.2                        | 61.8    | 64.4    | 66.7    | 70.0    | 70.6        | 71.1    | 71.1        | 71.1        | 71.5    | 71.5      | 71.5      | 71.7      | 71.8      | 71.8      | 72.1    |
| GE 3000               | 60.0                        | 63.6    | 66.3    | 68.7    | 72.2    | 73.1        | 73.7    | 73.7        | 73.7        | 74.1    | 74.1      | 74.1      | 74.3      | 74.4      | 74.4      | 74.7    |
| GE 2500               | 60.9                        | 64.5    | 67.5    | 70.0    | 73.7    | 74.7        | 75.3    | 75.3        | 75.4        | 75.7    | 75.7      | 75.7      | 76.0      | 76.1      | 76.1      | 76.3    |
| GE 2000               | 61.8                        | 65.5    | 68.7    | 71.1    | 75.0    | 76.0        | 76.7    | 76.7        | 76.8        | 77.1    | 77.3      | 77.3      | 77.5      | 77.6      | 77.6      | 77.9    |
| GE 1800               | 62.0                        | 65.6    | 68.8    | 71.3    | 75.3    | 76.2        | 76.9    | 76.9        | 77.0        | 77.4    | 77.5      | 77.5      | 77.7      | 77.9      | 77.9      | 78.1    |
| GE 1500               | 62.9                        | 66.5    | 69.8    | 72.4    | 76.4    | 77.4        | 78.1    | 78.3        | 78.4        | 78.8    | 78.9      | 78.9      | 79.2      | 79.3      | 79.3      | 79.5    |
| GE 1200               | 63.4                        | 67.0    | 70.4    | 73.4    | 77.6    | 78.6        | 79.4    | 79.6        | 79.7        | 80.2    | 80.3      | 80.3      | 80.6      | 80.7      | 80.8      | 81.0    |
| GE 1000               | 64.0                        | 67.6    | 71.1    | 74.3    | 78.6    | 79.5        | 80.3    | 80.6        | 80.7        | 81.2    | 81.3      | 81.3      | 81.5      | 81.6      | 81.7      | 82.0    |
| GE 900                | 64.3                        | 68.0    | 71.5    | 74.7    | 78.9    | 80.0        | 80.8    | 81.0        | 81.2        | 81.6    | 81.7      | 81.7      | 82.0      | 82.1      | 82.2      | 82.4    |
| GE 800                | 64.4                        | 68.1    | 71.8    | 75.1    | 79.5    | 80.8        | 81.7    | 82.0        | 82.1        | 82.6    | 82.8      | 82.8      | 83.2      | 83.3      | 83.4      | 83.6    |
| GE 700                | 64.8                        | 68.7    | 72.6    | 75.9    | 80.7    | 82.0        | 83.4    | 83.6        | 83.7        | 84.2    | 84.5      | 84.5      | 84.8      | 84.9      | 85.0      | 85.3    |
| GE 600                | 65.1                        | 69.4    | 74.0    | 77.6    | 82.9    | 84.2        | 85.9    | 86.2        | 86.5        | 86.9    | 87.2      | 87.2      | 87.5      | 87.6      | 87.8      | 88.0    |
| GE 500                | 65.1                        | 69.5    | 74.3    | 78.4    | 84.6    | 86.2        | 88.5    | 88.9        | 89.2        | 89.6    | 90.0      | 90.0      | 90.3      | 90.5      | 90.6      | 90.8    |
| GE 400                | 65.1                        | 69.5    | 74.4    | 78.6    | 85.3    | 87.2        | 90.5    | 91.0        | 91.3        | 91.8    | 92.2      | 92.2      | 92.7      | 92.8      | 93.2      | 93.8    |
| GE 300                | 65.1                        | 69.5    | 74.4    | 78.6    | 85.5    | 87.5        | 91.0    | 91.8        | 92.0        | 93.2    | 94.0      | 94.0      | 94.6      | 94.8      | 95.3      | 96.1    |
| GE 200                | 65.1                        | 69.5    | 74.4    | 78.6    | 85.5    | 87.5        | 91.0    | 92.0        | 92.3        | 94.0    | 95.2      | 95.2      | 95.9      | 96.2      | 96.7      | 97.8    |
| GE 100                | 65.1                        | 69.5    | 74.4    | 78.6    | 85.5    | 87.5        | 91.0    | 92.0        | 92.3        | 94.1    | 95.4      | 95.4      | 96.3      | 96.8      | 97.5      | 99.5    |
| GE 000                | 65.1                        | 69.5    | 74.4    | 78.6    | 85.5    | 87.5        | 91.0    | 92.0        | 92.3        | 94.1    | 95.4      | 95.4      | 96.3      | 96.8      | 97.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 38.3                        | 41.1    | 43.9    | 44.9    | 45.1    | 45.2        | 45.2    | 45.2        | 45.2        | 45.3    | 45.3      | 45.3      | 45.3      | 45.3      | 45.3      | 45.3    |
| GE 20000              | 44.9                        | 48.1    | 51.2    | 52.2    | 52.4    | 52.5        | 52.5    | 52.5        | 52.5        | 52.7    | 52.7      | 52.7      | 52.7      | 52.7      | 52.8      | 52.8    |
| GE 18000              | 44.9                        | 48.1    | 51.2    | 52.2    | 52.4    | 52.5        | 52.5    | 52.5        | 52.5        | 52.7    | 52.7      | 52.7      | 52.7      | 52.7      | 52.8      | 52.8    |
| GE 16000              | 44.9                        | 48.1    | 51.2    | 52.2    | 52.4    | 52.5        | 52.5    | 52.5        | 52.5        | 52.7    | 52.7      | 52.7      | 52.7      | 52.7      | 52.8      | 52.8    |
| GE 14000              | 45.2                        | 48.4    | 51.6    | 52.5    | 52.8    | 52.9        | 52.9    | 52.9        | 52.9        | 53.0    | 53.0      | 53.0      | 53.0      | 53.0      | 53.1      | 53.1    |
| GE 12000              | 46.2                        | 49.5    | 52.7    | 53.6    | 53.8    | 53.9        | 53.9    | 53.9        | 53.9        | 54.1    | 54.1      | 54.1      | 54.1      | 54.1      | 54.2      | 54.2    |
| GE 10000              | 48.2                        | 51.8    | 55.0    | 56.3    | 56.5    | 56.7        | 56.7    | 56.7        | 56.7        | 56.8    | 56.8      | 56.8      | 56.8      | 56.8      | 56.9      | 56.9    |
| GE 9000               | 48.2                        | 51.8    | 55.0    | 56.4    | 56.7    | 56.8        | 56.8    | 56.8        | 56.8        | 56.9    | 56.9      | 56.9      | 56.9      | 56.9      | 57.0      | 57.0    |
| GE 8000               | 51.1                        | 55.4    | 59.0    | 60.4    | 60.9    | 61.0        | 61.0    | 61.0        | 61.0        | 61.1    | 61.1      | 61.1      | 61.1      | 61.1      | 61.2      | 61.2    |
| GE 7000               | 51.7                        | 56.1    | 59.8    | 61.4    | 61.8    | 62.0        | 62.0    | 62.0        | 62.0        | 62.1    | 62.1      | 62.1      | 62.1      | 62.1      | 62.2      | 62.2    |
| GE 6000               | 51.8                        | 56.2    | 60.0    | 61.5    | 62.0    | 62.1        | 62.1    | 62.1        | 62.1        | 62.2    | 62.2      | 62.2      | 62.2      | 62.2      | 62.3      | 62.3    |
| GE 5000               | 53.5                        | 58.1    | 62.0    | 63.7    | 64.2    | 64.4        | 64.4    | 64.4        | 64.4        | 64.5    | 64.5      | 64.5      | 64.5      | 64.5      | 64.7      | 64.7    |
| GE 4500               | 54.5                        | 59.2    | 63.1    | 64.9    | 65.4    | 65.6        | 65.6    | 65.7        | 65.7        | 65.8    | 65.8      | 65.8      | 65.8      | 65.8      | 66.0      | 66.0    |
| GE 4000               | 56.7                        | 62.0    | 66.3    | 68.7    | 69.4    | 69.7        | 69.8    | 70.0        | 70.0        | 70.1    | 70.1      | 70.1      | 70.1      | 70.1      | 70.2      | 70.2    |
| GE 3500               | 58.1                        | 63.6    | 68.1    | 70.4    | 71.1    | 71.5        | 71.6    | 71.7        | 71.7        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 72.0      | 72.0    |
| GE 3000               | 60.3                        | 65.8    | 70.4    | 73.0    | 73.9    | 74.2        | 74.3    | 74.4        | 74.4        | 74.6    | 74.6      | 74.6      | 74.6      | 74.6      | 74.7      | 74.7    |
| GE 2500               | 60.7                        | 66.4    | 71.1    | 73.7    | 74.6    | 74.9        | 75.0    | 75.1        | 75.1        | 75.3    | 75.3      | 75.3      | 75.3      | 75.3      | 75.4      | 75.4    |
| GE 2000               | 61.7                        | 68.1    | 73.0    | 75.9    | 76.9    | 77.6        | 78.0    | 78.2        | 78.2        | 78.3    | 78.4      | 78.4      | 78.4      | 78.4      | 78.6      | 78.6    |
| GE 1800               | 62.0                        | 68.6    | 73.5    | 76.4    | 77.6    | 78.3        | 78.7    | 78.9        | 78.9        | 79.0    | 79.2      | 79.2      | 79.2      | 79.2      | 79.3      | 79.3    |
| GE 1500               | 62.3                        | 68.9    | 74.1    | 77.3    | 78.6    | 79.4        | 79.7    | 80.0        | 80.0        | 80.1    | 80.2      | 80.2      | 80.2      | 80.2      | 80.3      | 80.3    |
| GE 1200               | 63.0                        | 69.8    | 75.3    | 78.4    | 80.3    | 81.2        | 81.6    | 81.9        | 81.9        | 82.0    | 82.1      | 82.1      | 82.1      | 82.1      | 82.2      | 82.2    |
| GE 1000               | 63.7                        | 71.0    | 76.7    | 80.0    | 82.4    | 83.3        | 83.9    | 84.1        | 84.1        | 84.2    | 84.3      | 84.3      | 84.3      | 84.3      | 84.5      | 84.5    |
| GE 900                | 64.1                        | 71.6    | 77.3    | 80.6    | 83.4    | 84.2        | 84.8    | 85.0        | 85.0        | 85.2    | 85.3      | 85.3      | 85.3      | 85.3      | 85.4      | 85.4    |
| GE 800                | 64.9                        | 72.6    | 78.6    | 81.9    | 84.7    | 85.6        | 86.2    | 86.5        | 86.5        | 86.7    | 86.8      | 86.8      | 86.9      | 86.9      | 87.0      | 87.0    |
| GE 700                | 65.3                        | 72.9    | 79.2    | 82.7    | 85.7    | 86.8        | 87.4    | 88.0        | 88.0        | 88.2    | 88.3      | 88.3      | 88.5      | 88.5      | 88.6      | 88.6    |
| GE 600                | 65.4                        | 73.3    | 79.9    | 83.4    | 87.5    | 88.9        | 89.6    | 90.6        | 90.6        | 90.9    | 91.2      | 91.2      | 91.3      | 91.3      | 91.5      | 91.5    |
| GE 500                | 65.5                        | 73.5    | 80.4    | 84.6    | 89.4    | 91.3        | 92.3    | 93.4        | 93.5        | 93.9    | 94.2      | 94.2      | 94.3      | 94.3      | 94.6      | 94.6    |
| GE 400                | 65.5                        | 73.5    | 80.6    | 84.8    | 89.9    | 92.3        | 93.5    | 94.7        | 94.8        | 95.4    | 95.8      | 95.8      | 96.0      | 96.0      | 96.3      | 96.3    |
| GE 300                | 65.5                        | 73.5    | 80.6    | 84.8    | 90.2    | 92.7        | 94.3    | 95.9        | 96.0        | 97.1    | 97.6      | 97.6      | 97.9      | 98.0      | 98.4      | 98.4    |
| GE 200                | 65.5                        | 73.5    | 80.6    | 84.8    | 90.2    | 92.7        | 94.5    | 96.0        | 96.1        | 97.3    | 98.0      | 98.2      | 98.5      | 98.6      | 99.2      | 99.4    |
| GE 100                | 65.5                        | 73.5    | 80.6    | 84.8    | 90.2    | 92.7        | 94.5    | 96.0        | 96.1        | 97.3    | 98.0      | 98.2      | 98.7      | 98.8      | 99.5      | 100.0   |
| GE 000                | 65.5                        | 73.5    | 80.6    | 84.8    | 90.2    | 92.7        | 94.5    | 96.0        | 96.1        | 97.3    | 98.0      | 98.2      | 98.7      | 98.8      | 99.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 44.5                        | 45.8    | 46.3    | 46.5    | 46.5    | 46.5        | 46.5    | 46.5        | 46.5        | 46.5    | 46.5      | 6.5       | 46.5      | 46.5      | 46.5      | 46.5    |
| GE 20000              | 53.9                        | 56.1    | 56.9    | 57.1    | 57.1    | 57.1        | 57.1    | 57.1        | 57.1        | 57.1    | 57.1      | 57.1      | 57.1      | 57.1      | 57.1      | 57.1    |
| GE 18000              | 54.5                        | 56.7    | 57.5    | 57.7    | 57.7    | 57.7        | 57.7    | 57.7        | 57.7        | 57.7    | 57.7      | 57.7      | 57.7      | 57.7      | 57.7      | 57.7    |
| GE 16000              | 54.5                        | 56.7    | 57.5    | 57.7    | 57.7    | 57.7        | 57.7    | 57.7        | 57.7        | 57.7    | 57.7      | 57.7      | 57.7      | 57.7      | 57.7      | 57.7    |
| GE 14000              | 54.9                        | 57.0    | 57.8    | 58.1    | 58.1    | 58.1        | 58.1    | 58.1        | 58.1        | 58.1    | 58.1      | 58.1      | 58.1      | 58.1      | 58.1      | 58.1    |
| GE 12000              | 56.1                        | 58.2    | 59.0    | 59.2    | 59.2    | 59.2        | 59.2    | 59.2        | 59.2        | 59.2    | 59.2      | 59.2      | 59.2      | 59.2      | 59.2      | 59.2    |
| GE 10000              | 58.8                        | 61.4    | 62.2    | 62.5    | 62.5    | 62.5        | 62.5    | 62.5        | 62.5        | 62.5    | 62.5      | 62.5      | 62.5      | 62.5      | 62.5      | 62.5    |
| GE 9000               | 58.9                        | 61.5    | 62.3    | 62.7    | 62.7    | 62.7        | 62.7    | 62.7        | 62.7        | 62.7    | 62.7      | 62.7      | 62.7      | 62.7      | 62.7      | 62.7    |
| GE 8000               | 61.8                        | 64.8    | 65.6    | 66.0    | 66.0    | 66.0        | 66.0    | 66.0        | 66.0        | 66.0    | 66.0      | 66.0      | 66.0      | 66.0      | 66.0      | 66.0    |
| GE 7000               | 63.4                        | 66.5    | 67.4    | 67.7    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 6000               | 63.7                        | 66.9    | 67.8    | 68.2    | 68.2    | 68.2        | 68.2    | 68.2        | 68.2        | 68.2    | 68.2      | 68.2      | 68.2      | 68.2      | 68.2      | 68.2    |
| GE 5000               | 64.9                        | 68.2    | 69.3    | 69.6    | 69.7    | 69.7        | 69.7    | 69.7        | 69.7        | 69.7    | 69.7      | 69.7      | 69.7      | 69.7      | 69.7      | 69.7    |
| GE 4500               | 65.6                        | 69.0    | 70.1    | 70.4    | 70.6    | 70.6        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 4000               | 69.3                        | 72.8    | 74.1    | 74.6    | 74.7    | 74.7        | 74.7    | 74.7        | 74.7        | 74.7    | 74.7      | 74.7      | 74.7      | 74.7      | 74.7      | 74.7    |
| GE 3500               | 70.4                        | 74.0    | 75.3    | 76.1    | 76.3    | 76.3        | 76.3    | 76.3        | 76.3        | 76.3    | 76.3      | 76.3      | 76.3      | 76.3      | 76.3      | 76.3    |
| GE 3000               | 72.3                        | 76.0    | 77.3    | 78.3    | 78.7    | 78.8        | 78.9    | 78.9        | 78.9        | 78.9    | 78.9      | 78.9      | 78.9      | 78.9      | 78.9      | 78.9    |
| GE 2500               | 73.4                        | 77.1    | 78.4    | 79.5    | 79.9    | 80.0        | 80.1    | 80.1        | 80.1        | 80.1    | 80.1      | 80.1      | 80.1      | 80.1      | 80.1      | 80.1    |
| GE 2000               | 74.9                        | 78.9    | 80.2    | 81.5    | 82.0    | 82.1        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 1800               | 75.0                        | 79.0    | 80.3    | 81.6    | 82.1    | 82.2        | 82.3    | 82.3        | 82.3        | 82.3    | 82.3      | 82.3      | 82.3      | 82.3      | 82.3      | 82.3    |
| GE 1500               | 75.5                        | 80.0    | 81.5    | 83.0    | 83.5    | 83.6        | 83.7    | 83.7        | 83.7        | 83.7    | 83.7      | 83.7      | 83.7      | 83.7      | 83.7      | 83.7    |
| GE 1200               | 76.7                        | 81.6    | 83.5    | 85.2    | 85.9    | 86.0        | 86.1    | 86.1        | 86.1        | 86.1    | 86.1      | 86.1      | 86.1      | 86.1      | 86.1      | 86.1    |
| GE 1000               | 77.7                        | 83.2    | 85.2    | 86.9    | 87.8    | 87.9        | 88.0    | 88.0        | 88.0        | 88.0    | 88.0      | 88.0      | 88.0      | 88.0      | 88.0      | 88.0    |
| GE 900                | 78.1                        | 83.5    | 85.5    | 87.4    | 88.2    | 88.3        | 88.5    | 88.5        | 88.5        | 88.5    | 88.5      | 88.5      | 88.5      | 88.5      | 88.5      | 88.5    |
| GE 800                | 78.4                        | 83.9    | 85.9    | 88.1    | 89.3    | 89.4        | 89.8    | 89.8        | 89.8        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.8      | 89.8    |
| GE 700                | 78.8                        | 84.3    | 86.5    | 89.3    | 91.3    | 91.8        | 92.1    | 92.2        | 92.3        | 92.3    | 92.3      | 92.3      | 92.3      | 92.3      | 92.3      | 92.3    |
| GE 600                | 78.8                        | 84.6    | 87.0    | 90.0    | 92.8    | 93.4        | 94.0    | 94.3        | 94.5        | 94.5    | 94.5      | 94.5      | 94.5      | 94.5      | 94.5      | 94.5    |
| GE 500                | 78.9                        | 84.8    | 87.8    | 90.8    | 94.6    | 95.8        | 96.3    | 96.7        | 96.8        | 96.8    | 96.8      | 96.8      | 96.8      | 96.8      | 96.8      | 96.8    |
| GE 400                | 78.9                        | 84.8    | 87.9    | 91.2    | 95.2    | 96.3        | 97.2    | 97.5        | 97.6        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 300                | 78.9                        | 84.8    | 87.9    | 91.2    | 95.3    | 96.5        | 97.3    | 97.6        | 98.0        | 98.5    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |
| GE 200                | 78.9                        | 84.8    | 87.9    | 91.2    | 95.3    | 96.5        | 97.3    | 97.6        | 98.1        | 98.7    | 99.2      | 99.3      | 99.4      | 99.6      | 99.8      | 99.8    |
| GE 100                | 78.9                        | 84.8    | 87.9    | 91.2    | 95.3    | 96.5        | 97.3    | 97.6        | 98.1        | 98.7    | 99.2      | 99.3      | 99.4      | 99.8      | 99.9      | 100.0   |
| GE 000                | 78.9                        | 84.8    | 87.9    | 91.2    | 95.3    | 96.5        | 97.3    | 97.6        | 98.1        | 98.7    | 99.2      | 99.3      | 99.4      | 99.8      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 45.3                        | 46.2    | 46.3    | 46.3    | 46.3    | 46.3        | 46.3    | 46.3        | 46.3        | 46.3    | 46.3      | 46.3      | 46.3      | 46.3      | 46.3      | 46.3    |
| GE 20000              | 57.6                        | 58.4    | 58.5    | 58.5    | 58.5    | 58.5        | 58.5    | 58.5        | 58.5        | 58.5    | 58.5      | 58.5      | 58.5      | 58.5      | 58.5      | 58.5    |
| GE 18000              | 58.2                        | 59.0    | 59.1    | 59.1    | 59.1    | 59.1        | 59.1    | 59.1        | 59.1        | 59.1    | 59.1      | 59.1      | 59.1      | 59.1      | 59.1      | 59.1    |
| GE 16000              | 58.3                        | 59.1    | 59.2    | 59.2    | 59.2    | 59.2        | 59.2    | 59.2        | 59.2        | 59.2    | 59.2      | 59.2      | 59.2      | 59.2      | 59.2      | 59.2    |
| GE 14000              | 59.2                        | 60.1    | 60.2    | 60.2    | 60.2    | 60.2        | 60.2    | 60.2        | 60.2        | 60.2    | 60.2      | 60.2      | 60.2      | 60.2      | 60.2      | 60.2    |
| GE 12000              | 59.7                        | 60.5    | 60.7    | 60.8    | 60.8    | 60.8        | 60.8    | 60.8        | 60.8        | 60.8    | 60.8      | 60.8      | 60.8      | 60.8      | 60.8      | 60.8    |
| GE 10000              | 62.5                        | 64.0    | 64.2    | 64.3    | 64.3    | 64.3        | 64.3    | 64.3        | 64.3        | 64.3    | 64.3      | 64.3      | 64.3      | 64.3      | 64.3      | 64.3    |
| GE 9000               | 62.9                        | 64.3    | 64.5    | 64.7    | 64.7    | 64.7        | 64.7    | 64.7        | 64.7        | 64.7    | 64.7      | 64.7      | 64.7      | 64.7      | 64.7      | 64.7    |
| GE 8000               | 68.0                        | 69.5    | 69.8    | 70.0    | 70.0    | 70.0        | 70.0    | 70.0        | 70.0        | 70.0    | 70.0      | 70.0      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 7000               | 69.1                        | 70.8    | 71.1    | 71.3    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 6000               | 69.3                        | 71.0    | 71.4    | 71.5    | 71.5    | 71.5        | 71.5    | 71.5        | 71.5        | 71.5    | 71.5      | 71.5      | 71.5      | 71.5      | 71.5      | 71.5    |
| GE 5000               | 70.2                        | 72.1    | 72.7    | 72.8    | 72.8    | 72.8        | 72.8    | 72.8        | 72.8        | 72.8    | 72.8      | 72.8      | 72.8      | 72.8      | 72.8      | 72.8    |
| GE 4500               | 71.0                        | 73.0    | 73.6    | 73.7    | 73.7    | 73.7        | 73.7    | 73.7        | 73.7        | 73.7    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.7    |
| GE 4000               | 74.4                        | 76.7    | 77.7    | 77.9    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 3500               | 75.6                        | 78.1    | 79.2    | 79.5    | 80.0    | 80.0        | 80.0    | 80.0        | 80.0        | 80.0    | 80.0      | 80.0      | 80.0      | 80.0      | 80.0      | 80.0    |
| GE 3000               | 77.1                        | 79.6    | 80.8    | 81.3    | 81.7    | 81.7        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 2500               | 78.3                        | 80.9    | 82.1    | 82.7    | 83.2    | 83.2        | 83.2    | 83.2        | 83.2        | 83.2    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.2    |
| GE 2000               | 79.5                        | 82.2    | 83.4    | 84.2    | 84.7    | 84.9        | 84.9    | 84.9        | 84.9        | 84.9    | 84.9      | 84.9      | 84.9      | 84.9      | 84.9      | 84.9    |
| GE 1800               | 79.6                        | 82.3    | 83.5    | 84.3    | 84.8    | 85.0        | 85.0    | 85.0        | 85.0        | 85.0    | 85.0      | 85.0      | 85.0      | 85.0      | 85.0      | 85.0    |
| GE 1500               | 80.8                        | 83.5    | 84.9    | 85.7    | 86.2    | 86.5        | 86.5    | 86.5        | 86.5        | 86.5    | 86.5      | 86.5      | 86.5      | 86.5      | 86.5      | 86.5    |
| GE 1200               | 81.6                        | 84.7    | 86.5    | 87.3    | 87.9    | 88.1        | 88.2    | 88.2        | 88.2        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 1000               | 82.0                        | 85.3    | 87.2    | 88.2    | 89.0    | 89.4        | 89.5    | 89.5        | 89.5        | 89.5    | 89.5      | 89.5      | 89.5      | 89.5      | 89.5      | 89.5    |
| GE 900                | 82.2                        | 85.5    | 87.5    | 88.9    | 89.9    | 90.2        | 90.3    | 90.3        | 90.3        | 90.3    | 90.3      | 90.3      | 90.3      | 90.3      | 90.3      | 90.3    |
| GE 800                | 82.6                        | 86.0    | 88.5    | 90.2    | 91.2    | 91.5        | 91.6    | 91.6        | 91.6        | 91.6    | 91.6      | 91.6      | 91.6      | 91.6      | 91.6      | 91.6    |
| GE 700                | 82.9                        | 86.5    | 89.2    | 91.0    | 92.6    | 92.9        | 93.3    | 93.4        | 93.4        | 93.4    | 93.4      | 93.4      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 600                | 83.0                        | 86.8    | 89.6    | 91.6    | 93.5    | 94.1        | 94.6    | 94.8        | 94.8        | 94.8    | 94.8      | 94.9      | 94.9      | 94.9      | 94.9      | 94.9    |
| GE 500                | 83.2                        | 87.2    | 90.2    | 92.2    | 94.3    | 95.3        | 96.2    | 96.6        | 96.6        | 96.6    | 96.8      | 96.8      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 400                | 83.2                        | 87.2    | 90.6    | 92.8    | 95.1    | 96.1        | 97.3    | 98.2        | 98.4        | 98.4    | 98.8      | 98.8      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 300                | 83.2                        | 87.2    | 90.6    | 92.8    | 95.1    | 96.1        | 97.4    | 98.6        | 98.7        | 98.7    | 99.3      | 99.4      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 200                | 83.2                        | 87.2    | 90.6    | 92.8    | 95.1    | 96.1        | 97.4    | 98.6        | 98.7        | 98.7    | 99.4      | 99.5      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 100                | 83.2                        | 87.2    | 90.6    | 92.8    | 95.1    | 96.1        | 97.4    | 98.6        | 98.8        | 98.8    | 99.5      | 99.6      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 000                | 83.2                        | 87.2    | 90.6    | 92.8    | 95.1    | 96.1        | 97.4    | 98.6        | 98.8        | 98.8    | 99.5      | 99.6      | 99.9      | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 51.8                        | 52.2    | 52.4    | 52.8    | 52.8    | 52.8        | 52.9    | 52.9        | 52.9        | 52.9    | 52.9      | 52.9      | 52.9      | 52.9      | 52.9      | 52.9    |
| GE 20000              | 58.7                        | 59.5    | 60.0    | 60.3    | 60.3    | 60.3        | 60.4    | 60.4        | 60.4        | 60.4    | 60.4      | 60.4      | 60.4      | 60.4      | 60.4      | 60.4    |
| GE 18000              | 58.8                        | 59.6    | 60.1    | 60.4    | 60.4    | 60.4        | 60.5    | 60.5        | 60.5        | 60.5    | 60.5      | 60.5      | 60.5      | 60.5      | 60.5      | 60.5    |
| GE 16000              | 58.8                        | 59.6    | 60.1    | 60.4    | 60.4    | 60.4        | 60.5    | 60.5        | 60.5        | 60.5    | 60.5      | 60.5      | 60.5      | 60.5      | 60.5      | 60.5    |
| GE 14000              | 59.0                        | 59.8    | 60.3    | 60.7    | 60.7    | 60.7        | 60.8    | 60.8        | 60.8        | 60.8    | 60.8      | 60.8      | 60.8      | 60.8      | 60.8      | 60.8    |
| GE 12000              | 61.5                        | 62.3    | 63.0    | 63.4    | 63.4    | 63.4        | 63.5    | 63.5        | 63.5        | 63.5    | 63.5      | 63.5      | 63.5      | 63.5      | 63.5      | 63.5    |
| GE 10000              | 64.1                        | 65.0    | 65.8    | 66.2    | 66.2    | 66.2        | 66.3    | 66.3        | 66.3        | 66.3    | 66.3      | 66.3      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 9000               | 64.5                        | 65.5    | 66.3    | 66.7    | 66.7    | 66.7        | 66.8    | 66.8        | 66.8        | 66.8    | 66.8      | 66.8      | 66.8      | 66.8      | 66.8      | 66.8    |
| GE 8000               | 69.0                        | 70.3    | 71.1    | 71.7    | 71.7    | 71.7        | 71.8    | 71.8        | 71.8        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 71.8      | 71.8    |
| GE 7000               | 70.1                        | 71.5    | 72.3    | 72.9    | 72.9    | 72.9        | 73.0    | 73.0        | 73.0        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.0      | 73.0    |
| GE 6000               | 70.2                        | 71.8    | 72.7    | 73.3    | 73.3    | 73.3        | 73.4    | 73.4        | 73.4        | 73.4    | 73.4      | 73.4      | 73.4      | 73.4      | 73.4      | 73.4    |
| GE 5000               | 72.3                        | 74.0    | 74.8    | 75.4    | 75.4    | 75.4        | 75.5    | 75.5        | 75.5        | 75.5    | 75.5      | 75.5      | 75.5      | 75.5      | 75.5      | 75.5    |
| GE 4500               | 73.0                        | 74.9    | 75.7    | 76.3    | 76.4    | 76.4        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 4000               | 74.7                        | 77.1    | 78.1    | 78.7    | 79.0    | 79.0        | 79.2    | 79.2        | 79.2        | 79.2    | 79.2      | 79.2      | 79.2      | 79.2      | 79.2      | 79.2    |
| GE 3500               | 76.1                        | 78.7    | 80.0    | 81.0    | 81.5    | 81.5        | 81.6    | 81.6        | 81.6        | 81.6    | 81.6      | 81.6      | 81.6      | 81.6      | 81.6      | 81.6    |
| GE 3000               | 76.9                        | 79.6    | 81.0    | 82.2    | 82.8    | 82.8        | 82.9    | 82.9        | 82.9        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 2500               | 77.4                        | 80.1    | 81.6    | 82.9    | 83.5    | 83.5        | 83.6    | 83.6        | 83.6        | 83.6    | 83.6      | 83.6      | 83.6      | 83.6      | 83.6      | 83.6    |
| GE 2000               | 78.8                        | 81.5    | 83.0    | 84.6    | 85.4    | 85.4        | 85.5    | 85.6        | 85.6        | 85.7    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 1800               | 78.9                        | 81.6    | 83.2    | 84.8    | 85.6    | 85.6        | 85.7    | 85.9        | 85.9        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 1500               | 79.7                        | 82.4    | 84.1    | 86.0    | 87.0    | 87.0        | 87.3    | 87.4        | 87.4        | 87.5    | 87.5      | 87.5      | 87.5      | 87.5      | 87.5      | 87.5    |
| GE 1200               | 80.2                        | 82.9    | 84.7    | 86.6    | 88.0    | 88.0        | 88.2    | 88.3        | 88.3        | 88.3    | 88.5      | 88.5      | 88.5      | 88.5      | 88.5      | 88.5    |
| GE 1000               | 80.9                        | 83.7    | 85.5    | 87.4    | 89.2    | 89.2        | 89.4    | 89.5        | 89.5        | 89.6    | 89.6      | 89.6      | 89.6      | 89.6      | 89.6      | 89.6    |
| GE 900                | 80.9                        | 83.9    | 85.7    | 87.8    | 89.5    | 89.5        | 89.9    | 90.0        | 90.0        | 90.1    | 90.1      | 90.1      | 90.1      | 90.1      | 90.1      | 90.1    |
| GE 800                | 80.9                        | 83.9    | 86.0    | 88.1    | 90.0    | 90.0        | 90.5    | 90.6        | 90.6        | 90.7    | 90.7      | 90.7      | 90.7      | 90.7      | 90.7      | 90.7    |
| GE 700                | 81.2                        | 84.2    | 86.5    | 88.7    | 91.5    | 91.8        | 92.5    | 92.6        | 92.6        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 600                | 81.4                        | 84.5    | 86.7    | 89.3    | 92.5    | 92.7        | 93.5    | 93.6        | 93.6        | 93.8    | 93.8      | 93.8      | 93.8      | 93.8      | 93.8      | 93.8    |
| GE 500                | 81.6                        | 84.7    | 86.9    | 89.5    | 93.5    | 93.9        | 95.1    | 95.6        | 95.8        | 96.0    | 96.0      | 96.0      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 400                | 81.6                        | 84.7    | 86.9    | 89.5    | 93.9    | 94.3        | 96.1    | 96.8        | 96.9        | 97.2    | 97.2      | 97.2      | 97.5      | 97.5      | 97.6      | 97.6    |
| GE 300                | 81.6                        | 84.7    | 86.9    | 89.5    | 94.0    | 94.6        | 96.6    | 97.6        | 97.9        | 98.6    | 98.6      | 98.6      | 98.9      | 99.1      | 99.2      | 99.2    |
| GE 200                | 81.6                        | 84.7    | 86.9    | 89.5    | 94.0    | 94.6        | 96.6    | 97.6        | 97.9        | 98.7    | 98.8      | 98.8      | 99.2      | 99.3      | 99.5      | 99.5    |
| GE 100                | 81.6                        | 84.7    | 86.9    | 89.5    | 94.0    | 94.6        | 96.6    | 97.6        | 97.9        | 98.7    | 98.8      | 98.8      | 99.2      | 99.4      | 99.9      | 100.0   |
| GE 000                | 81.6                        | 84.7    | 86.9    | 89.5    | 94.0    | 94.6        | 96.6    | 97.6        | 97.9        | 98.7    | 98.8      | 98.8      | 99.2      | 99.4      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 55.0                        | 55.6    | 55.7    | 55.8    | 55.9    | 55.9        | 55.9    | 55.9        | 55.9        | 56.1    | 56.1      | 56.1      | 56.2      | 56.2      | 56.2      | 56.3    |
| GE 20000              | 61.1                        | 61.7    | 61.8    | 62.2    | 62.3    | 62.3        | 62.3    | 62.3        | 62.3        | 62.4    | 62.4      | 62.4      | 62.5      | 62.5      | 62.5      | 62.7    |
| GE 18000              | 61.1                        | 61.7    | 61.8    | 62.2    | 62.3    | 62.3        | 62.3    | 62.3        | 62.3        | 62.4    | 62.4      | 62.4      | 62.5      | 62.5      | 62.5      | 62.7    |
| GE 16000              | 61.1                        | 61.7    | 61.8    | 62.2    | 62.3    | 62.3        | 62.3    | 62.3        | 62.3        | 62.4    | 62.4      | 62.4      | 62.5      | 62.5      | 62.5      | 62.7    |
| GE 14000              | 61.1                        | 61.7    | 61.8    | 62.2    | 62.3    | 62.3        | 62.3    | 62.3        | 62.3        | 62.4    | 62.4      | 62.4      | 62.5      | 62.5      | 62.5      | 62.7    |
| GE 12000              | 61.5                        | 62.1    | 62.2    | 62.5    | 62.7    | 62.7        | 62.7    | 62.7        | 62.7        | 62.8    | 62.8      | 62.8      | 62.9      | 62.9      | 62.9      | 63.0    |
| GE 10000              | 64.0                        | 64.5    | 64.7    | 65.0    | 65.1    | 65.1        | 65.1    | 65.1        | 65.1        | 65.3    | 65.3      | 65.3      | 65.4      | 65.4      | 65.4      | 65.5    |
| GE 9000               | 64.2                        | 64.8    | 64.9    | 65.3    | 65.4    | 65.4        | 65.4    | 65.4        | 65.4        | 65.5    | 65.5      | 65.5      | 65.6      | 65.6      | 65.6      | 65.7    |
| GE 8000               | 67.0                        | 67.6    | 67.7    | 68.2    | 68.3    | 68.3        | 68.3    | 68.3        | 68.3        | 68.4    | 68.4      | 68.4      | 68.6      | 68.6      | 68.6      | 68.9    |
| GE 7000               | 68.0                        | 68.7    | 68.8    | 69.3    | 69.4    | 69.4        | 69.4    | 69.4        | 69.4        | 69.5    | 69.5      | 69.5      | 69.6      | 69.6      | 69.6      | 70.0    |
| GE 6000               | 69.1                        | 70.0    | 70.1    | 70.6    | 70.7    | 70.7        | 70.7    | 70.7        | 70.7        | 70.8    | 70.8      | 70.8      | 70.9      | 70.9      | 70.9      | 71.3    |
| GE 5000               | 71.5                        | 72.3    | 72.6    | 73.0    | 73.1    | 73.1        | 73.1    | 73.1        | 73.1        | 73.3    | 73.3      | 73.3      | 73.4      | 73.4      | 73.4      | 73.7    |
| GE 4500               | 72.2                        | 73.1    | 73.5    | 74.1    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.3    | 74.3      | 74.3      | 74.4      | 74.4      | 74.4      | 74.8    |
| GE 4000               | 74.9                        | 75.9    | 76.6    | 77.6    | 77.7    | 77.7        | 77.7    | 77.7        | 77.7        | 77.9    | 77.9      | 77.9      | 78.0      | 78.0      | 78.0      | 78.3    |
| GE 3500               | 76.1                        | 77.1    | 77.9    | 79.2    | 79.3    | 79.3        | 79.3    | 79.3        | 79.3        | 79.4    | 79.4      | 79.4      | 79.5      | 79.5      | 79.5      | 79.9    |
| GE 3000               | 76.4                        | 77.6    | 78.3    | 79.6    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 80.0    | 80.0      | 80.0      | 80.1      | 80.1      | 80.1      | 80.4    |
| GE 2500               | 76.6                        | 77.7    | 78.4    | 79.7    | 80.8    | 80.8        | 80.9    | 80.9        | 80.9        | 81.0    | 81.0      | 81.0      | 81.2      | 81.2      | 81.2      | 81.5    |
| GE 2000               | 77.5                        | 79.0    | 80.1    | 81.4    | 82.8    | 82.8        | 82.9    | 83.0        | 83.0        | 83.2    | 83.2      | 83.2      | 83.3      | 83.3      | 83.3      | 83.6    |
| GE 1800               | 77.7                        | 79.3    | 80.3    | 81.6    | 83.0    | 83.0        | 83.2    | 83.3        | 83.3        | 83.4    | 83.4      | 83.4      | 83.5      | 83.5      | 83.5      | 83.9    |
| GE 1500               | 78.6                        | 80.3    | 81.4    | 82.7    | 84.1    | 84.1        | 84.2    | 84.3        | 84.3        | 84.5    | 84.5      | 84.5      | 84.6      | 84.6      | 84.6      | 84.9    |
| GE 1200               | 79.7                        | 81.7    | 82.8    | 84.3    | 86.1    | 86.1        | 86.2    | 86.3        | 86.3        | 86.5    | 86.5      | 86.5      | 86.6      | 86.6      | 86.6      | 86.9    |
| GE 1000               | 80.4                        | 82.6    | 83.9    | 85.7    | 87.6    | 87.6        | 87.8    | 87.9        | 87.9        | 88.0    | 88.0      | 88.0      | 88.1      | 88.1      | 88.1      | 88.5    |
| GE 900                | 80.7                        | 82.8    | 84.2    | 86.2    | 88.1    | 88.1        | 88.2    | 88.3        | 88.3        | 88.5    | 88.5      | 88.5      | 88.6      | 88.6      | 88.6      | 88.9    |
| GE 800                | 81.2                        | 83.3    | 84.9    | 87.0    | 89.2    | 89.2        | 89.4    | 89.5        | 89.5        | 89.6    | 89.6      | 89.6      | 89.8      | 89.8      | 89.8      | 90.1    |
| GE 700                | 81.5                        | 83.6    | 85.3    | 87.6    | 90.0    | 90.0        | 90.2    | 90.3        | 90.3        | 90.5    | 90.5      | 90.5      | 90.6      | 90.6      | 90.6      | 90.9    |
| GE 600                | 81.6                        | 83.7    | 85.7    | 88.6    | 91.4    | 91.5        | 92.1    | 92.2        | 92.2        | 92.3    | 92.3      | 92.3      | 92.5      | 92.5      | 92.5      | 92.8    |
| GE 500                | 81.9                        | 84.0    | 86.1    | 89.4    | 92.7    | 92.8        | 94.1    | 94.2        | 94.2        | 94.5    | 94.3      | 94.3      | 94.6      | 94.6      | 94.6      | 94.9    |
| GE 400                | 81.9                        | 84.0    | 86.2    | 89.6    | 93.2    | 93.9        | 95.2    | 95.6        | 95.6        | 96.0    | 96.2      | 96.2      | 96.5      | 96.5      | 96.5      | 96.8    |
| GE 300                | 81.9                        | 84.0    | 86.2    | 89.6    | 93.2    | 94.0        | 95.5    | 96.2        | 96.2        | 96.9    | 97.3      | 97.3      | 97.5      | 97.5      | 97.5      | 98.0    |
| GE 200                | 81.9                        | 84.0    | 86.2    | 89.6    | 93.2    | 94.1        | 95.6    | 96.8        | 96.8        | 97.9    | 98.2      | 98.2      | 98.7      | 98.7      | 98.7      | 99.4    |
| GE 100                | 81.9                        | 84.0    | 86.2    | 89.6    | 93.2    | 94.1        | 95.6    | 96.8        | 96.8        | 97.9    | 98.2      | 98.2      | 98.7      | 98.7      | 98.7      | 99.5    |
| GE 000                | 81.9                        | 84.0    | 86.2    | 89.6    | 93.2    | 94.1        | 95.6    | 96.8        | 96.8        | 98.0    | 98.4      | 98.4      | 98.8      | 98.8      | 98.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: FEB HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 47.5                        | 48.8    | 49.6    | 50.0    | 50.3    | 50.4        | 50.5    | 50.5        | 50.5        | 50.7    | 50.7      | 50.7      | 50.7      | 50.7      | 50.8      | 50.8    |
| GE 20000              | 54.0                        | 55.6    | 56.5    | 56.9    | 57.3    | 57.3        | 57.5    | 57.5        | 57.5        | 57.7    | 57.7      | 57.7      | 57.7      | 57.7      | 57.8      | 57.8    |
| GE 18000              | 54.2                        | 55.7    | 56.7    | 57.1    | 57.4    | 57.5        | 57.7    | 57.7        | 57.7        | 57.8    | 57.8      | 57.8      | 57.9      | 57.9      | 57.9      | 58.0    |
| GE 16000              | 54.2                        | 55.8    | 56.7    | 57.1    | 57.4    | 57.5        | 57.7    | 57.7        | 57.7        | 57.8    | 57.9      | 57.9      | 57.9      | 57.9      | 57.9      | 58.0    |
| GE 14000              | 54.5                        | 56.0    | 56.9    | 57.4    | 57.7    | 57.8        | 57.9    | 58.0        | 58.0        | 58.1    | 58.1      | 58.1      | 58.2      | 58.2      | 58.2      | 58.2    |
| GE 12000              | 55.3                        | 56.8    | 57.8    | 58.3    | 58.6    | 58.7        | 58.9    | 58.9        | 58.9        | 59.0    | 59.0      | 59.0      | 59.1      | 59.1      | 59.1      | 59.2    |
| GE 10000              | 58.1                        | 59.9    | 61.0    | 61.6    | 62.0    | 62.0        | 62.2    | 62.2        | 62.2        | 62.4    | 62.4      | 62.4      | 62.4      | 62.4      | 62.5      | 62.5    |
| GE 9000               | 58.3                        | 60.1    | 61.1    | 61.8    | 62.1    | 62.2        | 62.4    | 62.4        | 62.4        | 62.6    | 62.6      | 62.6      | 62.6      | 62.6      | 62.7      | 62.7    |
| GE 8000               | 61.7                        | 63.6    | 64.8    | 65.6    | 66.0    | 66.0        | 66.2    | 66.3        | 66.3        | 66.4    | 66.4      | 66.4      | 66.5      | 66.5      | 66.5      | 66.6    |
| GE 7000               | 62.6                        | 64.7    | 65.9    | 66.7    | 67.1    | 67.1        | 67.3    | 67.4        | 67.4        | 67.5    | 67.5      | 67.5      | 67.6      | 67.6      | 67.6      | 67.7    |
| GE 6000               | 63.1                        | 65.2    | 66.4    | 67.2    | 67.6    | 67.7        | 67.9    | 67.9        | 67.9        | 68.1    | 68.1      | 68.1      | 68.2      | 68.2      | 68.2      | 68.3    |
| GE 5000               | 65.1                        | 67.4    | 68.7    | 69.5    | 70.0    | 70.2        | 70.4    | 70.4        | 70.4        | 70.5    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.7    |
| GE 4500               | 65.9                        | 68.2    | 69.5    | 70.4    | 70.9    | 71.1        | 71.3    | 71.3        | 71.3        | 71.5    | 71.5      | 71.5      | 71.5      | 71.5      | 71.6      | 71.7    |
| GE 4000               | 68.6                        | 71.1    | 72.7    | 73.8    | 74.5    | 74.6        | 74.8    | 74.9        | 74.9        | 75.0    | 75.1      | 75.1      | 75.1      | 75.1      | 75.2      | 75.3    |
| GE 3500               | 69.7                        | 72.3    | 74.0    | 75.3    | 76.0    | 76.2        | 76.4    | 76.5        | 76.5        | 76.6    | 76.6      | 76.6      | 76.7      | 76.7      | 76.7      | 76.8    |
| GE 3000               | 71.1                        | 73.8    | 75.6    | 77.0    | 77.8    | 78.0        | 78.3    | 78.3        | 78.3        | 78.5    | 78.5      | 78.5      | 78.6      | 78.6      | 78.6      | 78.7    |
| GE 2500               | 71.7                        | 74.4    | 76.3    | 77.7    | 78.8    | 79.0        | 79.2    | 79.3        | 79.3        | 79.5    | 79.5      | 79.5      | 79.5      | 79.6      | 79.6      | 79.7    |
| GE 2000               | 73.0                        | 75.9    | 77.9    | 79.5    | 80.7    | 81.0        | 81.4    | 81.5        | 81.5        | 81.7    | 81.7      | 81.7      | 81.8      | 81.8      | 81.8      | 81.9    |
| GE 1800               | 73.1                        | 76.1    | 78.1    | 79.8    | 81.0    | 81.3        | 81.7    | 81.8        | 81.8        | 82.0    | 82.0      | 82.0      | 82.1      | 82.1      | 82.1      | 82.2    |
| GE 1500               | 73.8                        | 76.9    | 79.0    | 80.8    | 82.1    | 82.4        | 82.8    | 83.0        | 83.0        | 83.2    | 83.2      | 83.2      | 83.3      | 83.3      | 83.3      | 83.4    |
| GE 1200               | 74.6                        | 77.8    | 80.2    | 82.0    | 83.7    | 84.1        | 84.5    | 84.6        | 84.6        | 84.8    | 84.9      | 84.9      | 85.0      | 85.0      | 85.0      | 85.1    |
| GE 1000               | 75.3                        | 78.7    | 81.2    | 83.2    | 85.1    | 85.5        | 86.0    | 86.1        | 86.1        | 86.3    | 86.4      | 86.4      | 86.5      | 86.5      | 86.5      | 86.6    |
| GE 900                | 75.6                        | 79.0    | 81.6    | 83.7    | 85.7    | 86.1        | 86.6    | 86.7        | 86.7        | 86.9    | 87.0      | 87.0      | 87.1      | 87.1      | 87.1      | 87.2    |
| GE 800                | 75.9                        | 79.4    | 82.2    | 84.5    | 86.7    | 87.1        | 87.6    | 87.8        | 87.8        | 88.0    | 88.1      | 88.1      | 88.2      | 88.2      | 88.3      | 88.4    |
| GE 700                | 76.3                        | 79.9    | 82.8    | 85.3    | 88.0    | 88.6        | 89.3    | 89.5        | 89.5        | 89.8    | 89.8      | 89.8      | 89.9      | 90.0      | 90.0      | 90.1    |
| GE 600                | 76.5                        | 80.2    | 83.6    | 86.4    | 89.6    | 90.4        | 91.3    | 91.6        | 91.7        | 91.9    | 92.0      | 92.0      | 92.1      | 92.1      | 92.2      | 92.3    |
| GE 500                | 76.6                        | 80.5    | 84.1    | 87.2    | 91.0    | 92.0        | 93.4    | 93.8        | 93.9        | 94.2    | 94.3      | 94.3      | 94.5      | 94.5      | 94.6      | 94.7    |
| GE 400                | 76.6                        | 80.5    | 84.2    | 87.5    | 91.6    | 92.9        | 94.7    | 95.3        | 95.4        | 95.8    | 96.0      | 96.0      | 96.2      | 96.3      | 96.4      | 96.5    |
| GE 300                | 76.6                        | 80.5    | 84.2    | 87.5    | 91.7    | 93.2        | 95.2    | 96.1        | 96.2        | 97.0    | 97.3      | 97.3      | 97.6      | 97.6      | 97.8      | 98.0    |
| GE 200                | 76.6                        | 80.5    | 84.2    | 87.5    | 91.7    | 93.2        | 95.3    | 96.3        | 96.5        | 97.5    | 98.0      | 98.1      | 98.5      | 98.6      | 98.8      | 99.1    |
| GE 100                | 76.6                        | 80.5    | 84.2    | 87.5    | 91.7    | 93.2        | 95.3    | 96.3        | 96.5        | 97.5    | 98.1      | 98.1      | 98.6      | 98.8      | 99.1      | 99.7    |
| GE 000                | 76.6                        | 80.5    | 84.2    | 87.5    | 91.7    | 93.2        | 95.3    | 96.3        | 96.5        | 97.6    | 98.1      | 98.1      | 98.6      | 98.8      | 99.2      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 6792

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 60.1    | 61.0    | 61.9    | 62.2    | 62.2        | 62.2    | 62.2        | 62.2        | 62.2    | 62.2      | 62.2      | 62.2      | 62.2      | 62.2      | 62.4    |
| GE 20000              | 63.1                        | 64.8    | 65.9    | 67.0    | 67.2    | 67.2        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.4    |
| GE 18000              | 63.1                        | 64.8    | 65.9    | 67.0    | 67.2    | 67.2        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.4    |
| GE 16000              | 63.1                        | 64.8    | 65.9    | 67.0    | 67.2    | 67.2        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.4    |
| GE 14000              | 63.3                        | 65.3    | 66.3    | 67.4    | 67.6    | 67.6        | 67.6    | 67.6        | 67.6        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.6      | 67.8    |
| GE 12000              | 65.1                        | 67.1    | 68.2    | 69.2    | 69.5    | 69.5        | 69.5    | 69.5        | 69.5        | 69.5    | 69.5      | 69.5      | 69.5      | 69.5      | 69.5      | 69.7    |
| GE 10000              | 66.8                        | 68.8    | 69.9    | 71.0    | 71.2    | 71.2        | 71.2    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.2      | 71.2      | 71.2      | 71.4    |
| GE 9000               | 67.3                        | 69.4    | 70.4    | 71.5    | 71.7    | 71.7        | 71.7    | 71.7        | 71.7        | 71.7    | 71.7      | 71.7      | 71.7      | 71.7      | 71.7      | 71.9    |
| GE 8000               | 69.2                        | 71.6    | 72.7    | 73.9    | 74.1    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.3    |
| GE 7000               | 69.8                        | 72.2    | 73.3    | 74.5    | 74.7    | 74.7        | 74.7    | 74.7        | 74.7        | 74.7    | 74.7      | 74.7      | 74.7      | 74.7      | 74.7      | 74.9    |
| GE 6000               | 70.0                        | 72.4    | 73.5    | 74.7    | 74.9    | 74.9        | 74.9    | 74.9        | 74.9        | 74.9    | 74.9      | 74.9      | 74.9      | 74.9      | 74.9      | 75.2    |
| GE 5000               | 71.5                        | 74.1    | 75.3    | 76.6    | 77.0    | 77.0        | 77.0    | 77.0        | 77.0        | 77.0    | 77.0      | 77.0      | 77.0      | 77.0      | 77.0      | 77.2    |
| GE 4500               | 72.7                        | 75.3    | 76.5    | 77.7    | 78.2    | 78.2        | 78.2    | 78.2        | 78.2        | 78.2    | 78.2      | 78.2      | 78.2      | 78.2      | 78.2      | 78.4    |
| GE 4000               | 74.6                        | 77.3    | 78.5    | 79.8    | 80.4    | 80.4        | 80.4    | 80.4        | 80.4        | 80.4    | 80.4      | 80.4      | 80.4      | 80.4      | 80.4      | 80.6    |
| GE 3500               | 75.3                        | 78.0    | 79.4    | 80.8    | 81.4    | 81.4        | 81.4    | 81.4        | 81.4        | 81.4    | 81.4      | 81.4      | 81.4      | 81.4      | 81.4      | 81.6    |
| GE 3000               | 75.8                        | 78.6    | 80.0    | 81.4    | 82.0    | 82.0        | 82.0    | 82.0        | 82.0        | 82.0    | 82.0      | 82.0      | 82.0      | 82.0      | 82.0      | 82.4    |
| GE 2500               | 76.0                        | 78.8    | 80.3    | 81.7    | 82.6    | 82.6        | 82.6    | 82.6        | 82.6        | 82.6    | 82.6      | 82.6      | 82.7      | 82.7      | 82.7      | 82.9    |
| GE 2000               | 76.6                        | 79.6    | 81.2    | 82.6    | 83.8    | 83.8        | 83.8    | 83.8        | 83.8        | 83.8    | 83.8      | 83.8      | 83.9      | 83.9      | 83.9      | 84.1    |
| GE 1800               | 77.3                        | 80.3    | 82.4    | 83.8    | 84.9    | 84.9        | 84.9    | 84.9        | 84.9        | 84.9    | 84.9      | 84.9      | 84.9      | 85.1      | 85.1      | 85.3    |
| GE 1500               | 78.1                        | 81.1    | 83.2    | 84.6    | 86.0    | 86.1        | 86.1    | 86.1        | 86.1        | 86.1    | 86.1      | 86.1      | 86.2      | 86.2      | 86.2      | 86.5    |
| GE 1200               | 79.0                        | 82.4    | 85.2    | 86.8    | 88.6    | 88.9        | 89.2    | 89.2        | 89.2        | 89.2    | 89.2      | 89.2      | 89.4      | 89.4      | 89.4      | 89.6    |
| GE 1000               | 79.2                        | 82.9    | 86.3    | 88.2    | 90.2    | 90.5        | 90.9    | 90.9        | 90.9        | 90.9    | 90.9      | 90.9      | 91.0      | 91.0      | 91.0      | 91.2    |
| GE 900                | 79.6                        | 83.3    | 87.0    | 89.2    | 91.6    | 92.2        | 92.5    | 92.5        | 92.5        | 92.5    | 92.5      | 92.5      | 92.6      | 92.6      | 92.6      | 92.8    |
| GE 800                | 79.8                        | 83.5    | 87.3    | 89.6    | 91.9    | 92.5        | 92.8    | 92.9        | 92.9        | 92.9    | 92.9      | 92.9      | 93.0      | 93.0      | 93.0      | 93.2    |
| GE 700                | 80.0                        | 83.8    | 87.6    | 89.9    | 92.7    | 93.3        | 93.8    | 93.9        | 93.9        | 93.9    | 93.9      | 93.9      | 94.0      | 94.0      | 94.0      | 94.2    |
| GE 600                | 80.2                        | 84.0    | 88.0    | 90.4    | 93.5    | 94.2        | 94.6    | 94.7        | 94.7        | 94.7    | 94.7      | 94.7      | 94.8      | 94.8      | 94.8      | 95.1    |
| GE 500                | 80.2                        | 84.0    | 88.3    | 91.0    | 94.7    | 95.6        | 96.2    | 96.3        | 96.3        | 96.3    | 96.3      | 96.3      | 96.5      | 96.5      | 96.5      | 96.7    |
| GE 400                | 80.2                        | 84.0    | 88.4    | 91.2    | 95.2    | 96.2        | 97.3    | 97.4        | 97.4        | 97.4    | 97.4      | 97.4      | 97.7      | 97.7      | 97.7      | 98.0    |
| GE 300                | 80.2                        | 84.0    | 88.4    | 91.2    | 95.5    | 96.9        | 98.3    | 98.4        | 98.4        | 98.5    | 98.5      | 98.5      | 98.8      | 98.8      | 98.8      | 99.0    |
| GE 200                | 80.2                        | 84.0    | 88.4    | 91.2    | 95.5    | 96.9        | 98.3    | 98.5        | 98.5        | 98.7    | 98.8      | 98.8      | 99.1      | 99.1      | 99.4      | 99.6    |
| GE 100                | 80.2                        | 84.0    | 88.4    | 91.2    | 95.5    | 96.9        | 98.5    | 98.7        | 98.7        | 98.9    | 99.1      | 99.1      | 99.5      | 99.5      | 99.8      | 100.0   |
| GE 000                | 80.2                        | 84.0    | 88.4    | 91.2    | 95.5    | 96.9        | 98.5    | 98.7        | 98.7        | 98.9    | 99.1      | 99.1      | 99.5      | 99.5      | 99.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 51.2                        | 51.6    | 53.2    | 54.7    | 56.0    | 56.0        | 56.0    | 56.3        | 56.3        | 56.5    | 56.5      | 56.5      | 56.7      | 56.7      | 56.7      | 56.7    |
| GE 20000              | 56.0                        | 57.0    | 58.9    | 60.9    | 62.3    | 62.3        | 62.3    | 62.6        | 62.6        | 62.7    | 62.7      | 62.7      | 62.9      | 62.9      | 63.0      | 63.0    |
| GE 18000              | 56.0                        | 57.0    | 58.9    | 60.9    | 62.3    | 62.3        | 62.3    | 62.6        | 62.6        | 62.7    | 62.7      | 62.7      | 62.9      | 62.9      | 63.0      | 63.0    |
| GE 16000              | 56.0                        | 57.0    | 58.9    | 60.9    | 62.3    | 62.3        | 62.3    | 62.6        | 62.6        | 62.7    | 62.7      | 62.7      | 62.9      | 62.9      | 63.0      | 63.0    |
| GE 14000              | 56.2                        | 57.2    | 59.1    | 61.1    | 62.5    | 62.5        | 62.5    | 62.8        | 62.8        | 62.9    | 62.9      | 62.9      | 63.1      | 63.1      | 63.2      | 63.2    |
| GE 12000              | 57.1                        | 58.3    | 60.3    | 62.3    | 63.7    | 63.7        | 63.7    | 64.0        | 64.0        | 64.1    | 64.1      | 64.1      | 64.3      | 64.3      | 64.4      | 64.4    |
| GE 10000              | 59.9                        | 61.2    | 63.3    | 65.3    | 66.7    | 66.7        | 66.7    | 67.0        | 67.0        | 67.1    | 67.1      | 67.1      | 67.3      | 67.3      | 67.4      | 67.4    |
| GE 9000               | 60.1                        | 61.4    | 63.5    | 65.5    | 66.9    | 66.9        | 66.9    | 67.2        | 67.2        | 67.3    | 67.3      | 67.3      | 67.5      | 67.5      | 67.6      | 67.6    |
| GE 8000               | 61.7                        | 63.3    | 65.6    | 67.5    | 68.9    | 68.9        | 68.9    | 69.4        | 69.4        | 69.5    | 69.5      | 69.5      | 69.7      | 69.7      | 69.8      | 69.8    |
| GE 7000               | 62.4                        | 64.0    | 66.2    | 68.2    | 69.7    | 69.7        | 69.7    | 70.1        | 70.1        | 70.2    | 70.2      | 70.2      | 70.4      | 70.4      | 70.5      | 70.5    |
| GE 6000               | 63.3                        | 64.9    | 67.2    | 69.1    | 70.8    | 70.8        | 70.8    | 71.2        | 71.2        | 71.3    | 71.3      | 71.3      | 71.5      | 71.5      | 71.6      | 71.6    |
| GE 5000               | 64.6                        | 66.2    | 68.5    | 70.6    | 72.4    | 72.4        | 72.4    | 72.8        | 72.8        | 72.9    | 72.9      | 72.9      | 73.1      | 73.1      | 73.2      | 73.2    |
| GE 4500               | 64.7                        | 66.3    | 68.6    | 70.8    | 72.5    | 72.5        | 72.5    | 72.9        | 72.9        | 73.0    | 73.0      | 73.0      | 73.2      | 73.2      | 73.3      | 73.3    |
| GE 4000               | 66.7                        | 68.4    | 71.0    | 73.2    | 75.1    | 75.1        | 75.1    | 75.5        | 75.5        | 75.6    | 75.6      | 75.6      | 75.8      | 75.8      | 75.9      | 75.9    |
| GE 3500               | 67.4                        | 69.1    | 71.8    | 74.1    | 76.0    | 76.0        | 76.0    | 76.5        | 76.5        | 76.6    | 76.6      | 76.6      | 76.8      | 76.8      | 76.9      | 76.9    |
| GE 3000               | 68.4                        | 70.2    | 72.9    | 75.4    | 77.4    | 77.4        | 77.4    | 77.8        | 77.8        | 78.0    | 78.0      | 78.0      | 78.2      | 78.2      | 78.3      | 78.3    |
| GE 2500               | 69.4                        | 71.4    | 74.1    | 76.7    | 78.8    | 78.8        | 78.8    | 79.2        | 79.2        | 79.4    | 79.4      | 79.4      | 79.6      | 79.6      | 79.7      | 79.7    |
| GE 2000               | 70.9                        | 72.9    | 75.7    | 78.5    | 80.8    | 80.8        | 80.8    | 81.2        | 81.2        | 81.3    | 81.3      | 81.3      | 81.5      | 81.5      | 81.6      | 81.6    |
| GE 1800               | 71.2                        | 73.2    | 76.1    | 78.9    | 81.2    | 81.2        | 81.2    | 81.6        | 81.6        | 81.7    | 81.7      | 81.7      | 81.9      | 81.9      | 82.0      | 82.0    |
| GE 1500               | 72.2                        | 74.2    | 77.1    | 80.0    | 82.4    | 82.4        | 82.4    | 82.8        | 82.8        | 82.9    | 82.9      | 82.9      | 83.1      | 83.1      | 83.2      | 83.2    |
| GE 1200               | 73.1                        | 75.2    | 78.6    | 81.9    | 84.5    | 84.5        | 84.5    | 84.6        | 85.1        | 85.1    | 85.2      | 85.2      | 85.2      | 85.4      | 85.5      | 85.5    |
| GE 1000               | 73.5                        | 75.7    | 79.7    | 83.1    | 85.8    | 85.8        | 85.8    | 86.2        | 86.7        | 86.7    | 86.8      | 86.8      | 87.0      | 87.0      | 87.2      | 87.2    |
| GE 900                | 74.0                        | 76.5    | 80.6    | 84.2    | 87.1    | 87.3        | 87.3    | 87.7        | 88.2        | 88.2    | 88.3      | 88.3      | 88.3      | 88.5      | 88.7      | 88.7    |
| GE 800                | 74.2                        | 76.7    | 81.0    | 84.5    | 87.6    | 87.8        | 88.6    | 89.0        | 89.0        | 89.1    | 89.1      | 89.1      | 89.4      | 89.4      | 89.6      | 89.6    |
| GE 700                | 74.3                        | 76.8    | 81.5    | 85.4    | 88.8    | 89.0        | 89.9    | 90.3        | 90.3        | 90.5    | 90.5      | 90.5      | 90.8      | 90.8      | 91.0      | 91.0    |
| GE 600                | 74.4                        | 76.9    | 81.8    | 85.7    | 89.7    | 89.9        | 91.0    | 91.4        | 91.4        | 91.6    | 91.6      | 91.6      | 91.8      | 91.8      | 92.0      | 92.0    |
| GE 500                | 74.5                        | 77.0    | 82.5    | 86.9    | 91.6    | 91.9        | 93.7    | 94.2        | 94.2        | 94.4    | 94.4      | 94.4      | 94.6      | 94.6      | 94.8      | 94.8    |
| GE 400                | 74.7                        | 77.2    | 82.8    | 87.3    | 92.4    | 92.7        | 94.8    | 95.5        | 95.5        | 95.7    | 95.7      | 95.7      | 95.9      | 95.9      | 96.1      | 96.1    |
| GE 300                | 74.7                        | 77.2    | 82.8    | 87.5    | 92.8    | 93.2        | 95.4    | 96.5        | 96.5        | 96.9    | 97.0      | 97.0      | 97.2      | 97.2      | 97.4      | 97.4    |
| GE 200                | 74.7                        | 77.2    | 82.8    | 87.5    | 92.8    | 93.3        | 95.6    | 96.9        | 97.1        | 97.6    | 97.7      | 97.7      | 98.1      | 98.1      | 98.5      | 98.7    |
| GE 100                | 74.7                        | 77.2    | 82.8    | 87.5    | 92.8    | 93.3        | 95.6    | 96.9        | 97.1        | 97.7    | 98.2      | 98.2      | 98.6      | 98.6      | 99.4      | 99.9    |
| GE 000                | 74.7                        | 77.2    | 82.8    | 87.5    | 92.8    | 93.3        | 95.6    | 96.9        | 97.1        | 97.7    | 98.2      | 98.2      | 98.6      | 98.6      | 99.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 41.1                        | 43.8    | 45.9    | 47.2    | 49.2    | 49.7        | 50.3    | 50.3        | 50.4        | 50.6    | 51.1      | 51.1      | 51.4      | 51.4      | 51.9      | 52.3    |
| GE 20000              | 43.9                        | 46.9    | 49.8    | 51.7    | 54.0    | 54.7        | 55.4    | 55.5        | 55.6        | 55.8    | 56.2      | 56.2      | 56.6      | 56.6      | 57.1      | 57.4    |
| GE 18000              | 43.9                        | 46.9    | 49.8    | 51.8    | 54.1    | 54.8        | 55.5    | 55.6        | 55.7        | 55.9    | 56.3      | 56.3      | 56.7      | 56.7      | 57.2      | 57.5    |
| GE 16000              | 43.9                        | 46.9    | 49.8    | 51.8    | 54.1    | 54.8        | 55.5    | 55.6        | 55.7        | 55.9    | 56.3      | 56.3      | 56.7      | 56.7      | 57.2      | 57.5    |
| GE 14000              | 44.0                        | 47.0    | 49.9    | 51.9    | 54.2    | 55.1        | 55.7    | 55.8        | 55.9        | 56.1    | 56.6      | 56.6      | 56.9      | 56.9      | 57.4      | 57.7    |
| GE 12000              | 44.8                        | 48.0    | 51.1    | 53.2    | 55.5    | 56.3        | 57.0    | 57.1        | 57.2        | 57.4    | 57.8      | 57.8      | 58.2      | 58.2      | 58.7      | 59.0    |
| GE 10000              | 47.4                        | 50.9    | 54.4    | 57.1    | 59.7    | 60.5        | 61.2    | 61.3        | 61.4        | 61.6    | 62.0      | 62.0      | 62.4      | 62.4      | 62.9      | 63.2    |
| GE 9000               | 48.0                        | 51.4    | 54.9    | 57.6    | 60.2    | 61.1        | 61.7    | 61.8        | 61.9        | 62.2    | 62.6      | 62.6      | 62.9      | 62.9      | 63.4      | 63.8    |
| GE 8000               | 49.9                        | 53.5    | 57.3    | 60.2    | 62.9    | 63.8        | 64.5    | 64.6        | 64.7        | 64.9    | 65.4      | 65.4      | 65.7      | 65.7      | 66.2      | 66.6    |
| GE 7000               | 50.2                        | 54.0    | 57.8    | 60.9    | 63.5    | 64.4        | 65.2    | 65.3        | 65.4        | 65.6    | 66.0      | 66.0      | 66.3      | 66.3      | 66.9      | 67.2    |
| GE 6000               | 51.3                        | 55.1    | 59.0    | 62.2    | 64.8    | 65.7        | 66.6    | 66.7        | 66.8        | 67.0    | 67.4      | 67.4      | 67.7      | 67.7      | 68.3      | 68.6    |
| GE 5000               | 53.2                        | 57.2    | 61.5    | 65.4    | 68.1    | 68.9        | 69.8    | 69.9        | 70.0        | 70.2    | 70.6      | 70.6      | 71.0      | 71.0      | 71.5      | 71.8    |
| GE 4500               | 53.2                        | 57.2    | 61.5    | 65.4    | 68.1    | 68.9        | 69.8    | 69.9        | 70.0        | 70.2    | 70.6      | 70.6      | 71.0      | 71.0      | 71.5      | 71.8    |
| GE 4000               | 54.6                        | 58.7    | 63.2    | 67.2    | 70.0    | 70.9        | 71.7    | 71.8        | 71.9        | 72.2    | 72.6      | 72.6      | 72.9      | 72.9      | 73.4      | 73.8    |
| GE 3500               | 54.8                        | 59.0    | 63.8    | 68.1    | 70.9    | 71.8        | 72.8    | 72.9        | 73.0        | 73.2    | 73.7      | 73.7      | 74.0      | 74.0      | 74.5      | 74.8    |
| GE 3000               | 56.0                        | 60.2    | 65.2    | 69.7    | 72.8    | 73.8        | 74.7    | 74.8        | 74.9        | 75.2    | 75.7      | 75.7      | 76.0      | 76.0      | 76.6      | 76.9    |
| GE 2500               | 57.0                        | 61.3    | 66.2    | 70.8    | 73.9    | 74.8        | 75.8    | 75.9        | 76.0        | 76.2    | 76.8      | 76.8      | 77.1      | 77.1      | 77.6      | 78.0    |
| GE 2000               | 59.1                        | 63.5    | 68.7    | 73.4    | 76.8    | 77.7        | 78.8    | 78.9        | 79.0        | 79.2    | 79.8      | 79.8      | 80.1      | 80.1      | 80.6      | 81.0    |
| GE 1800               | 59.2                        | 63.7    | 68.8    | 73.7    | 77.1    | 78.1        | 79.1    | 79.2        | 79.4        | 79.6    | 80.1      | 80.1      | 80.4      | 80.4      | 81.0      | 81.3    |
| GE 1500               | 59.7                        | 64.1    | 69.2    | 74.4    | 78.0    | 78.9        | 80.0    | 80.1        | 80.2        | 80.4    | 81.1      | 81.1      | 81.4      | 81.4      | 81.9      | 82.3    |
| GE 1200               | 60.4                        | 65.1    | 70.8    | 76.2    | 80.0    | 81.0        | 82.0    | 82.3        | 82.4        | 82.6    | 83.2      | 83.2      | 83.5      | 83.5      | 84.1      | 84.4    |
| GE 1000               | 60.6                        | 65.4    | 71.1    | 76.7    | 80.5    | 81.5        | 82.6    | 82.8        | 82.9        | 83.2    | 83.9      | 83.9      | 84.2      | 84.2      | 84.7      | 85.1    |
| GE 900                | 61.1                        | 65.9    | 71.8    | 77.4    | 81.8    | 83.0        | 84.2    | 84.4        | 84.5        | 84.8    | 85.5      | 85.5      | 85.8      | 85.8      | 86.3      | 86.7    |
| GE 800                | 61.1                        | 66.0    | 72.0    | 77.8    | 82.9    | 84.1        | 85.4    | 85.6        | 85.7        | 86.0    | 86.7      | 86.7      | 87.0      | 87.0      | 87.5      | 87.8    |
| GE 700                | 61.1                        | 66.2    | 72.5    | 78.6    | 83.9    | 85.3        | 86.7    | 86.9        | 87.0        | 87.3    | 88.1      | 88.1      | 88.4      | 88.4      | 88.9      | 89.2    |
| GE 600                | 61.2                        | 66.3    | 72.7    | 79.2    | 84.9    | 86.6        | 88.4    | 88.6        | 88.7        | 89.0    | 89.8      | 89.8      | 90.1      | 90.1      | 90.6      | 91.0    |
| GE 500                | 61.3                        | 66.5    | 72.8    | 79.7    | 86.2    | 88.1        | 90.4    | 90.9        | 91.0        | 91.3    | 92.0      | 92.0      | 92.4      | 92.4      | 92.9      | 93.2    |
| GE 400                | 61.3                        | 66.5    | 72.9    | 79.9    | 87.2    | 89.4        | 91.8    | 92.4        | 92.5        | 92.8    | 93.5      | 93.5      | 93.9      | 93.9      | 94.4      | 94.7    |
| GE 300                | 61.3                        | 66.5    | 72.9    | 79.9    | 87.5    | 89.7        | 92.3    | 92.9        | 93.1        | 93.5    | 94.4      | 94.4      | 94.9      | 94.9      | 95.8      | 96.3    |
| GE 200                | 61.3                        | 66.5    | 72.9    | 79.9    | 87.5    | 89.7        | 92.3    | 93.2        | 93.4        | 94.3    | 95.3      | 95.3      | 96.2      | 96.2      | 97.1      | 97.6    |
| GE 100                | 61.3                        | 66.5    | 72.9    | 79.9    | 87.5    | 89.7        | 92.3    | 93.2        | 93.4        | 94.3    | 95.4      | 95.4      | 96.6      | 96.6      | 98.3      | 99.4    |
| GE 000                | 61.3                        | 66.5    | 72.9    | 79.9    | 87.5    | 89.7        | 92.3    | 93.2        | 93.4        | 94.3    | 95.4      | 95.4      | 96.6      | 96.6      | 98.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION: "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO-CEIL               | 44.1                        | 48.5    | 50.2    | 50.6    | 51.5    | 51.5        | 51.5    | 51.5        | 51.5        | 51.5    | 51.5      | 51.5      | 51.5      | 51.5      | 51.5      | 51.6    |
| GE 20000              | 48.8                        | 54.2    | 56.6    | 57.1    | 58.3    | 58.3        | 58.3    | 58.3        | 58.3        | 58.3    | 58.3      | 58.3      | 58.3      | 58.3      | 58.3      | 58.4    |
| GE 18000              | 48.8                        | 54.2    | 56.6    | 57.1    | 58.3    | 58.3        | 58.3    | 58.3        | 58.3        | 58.3    | 58.3      | 58.3      | 58.3      | 58.3      | 58.3      | 58.4    |
| GE 16000              | 48.8                        | 54.2    | 56.6    | 57.1    | 58.3    | 58.3        | 58.3    | 58.3        | 58.3        | 58.3    | 58.3      | 58.3      | 58.3      | 58.3      | 58.3      | 58.4    |
| GE 14000              | 48.8                        | 54.3    | 56.7    | 57.2    | 58.4    | 58.4        | 58.4    | 58.4        | 58.4        | 58.4    | 58.4      | 58.4      | 58.4      | 58.4      | 58.4      | 58.5    |
| GE 12000              | 50.3                        | 55.8    | 58.7    | 59.2    | 60.4    | 60.4        | 60.4    | 60.4        | 60.4        | 60.4    | 60.4      | 60.4      | 60.4      | 60.4      | 60.4      | 60.5    |
| GE 10000              | 52.8                        | 59.1    | 62.4    | 63.3    | 64.6    | 64.6        | 64.6    | 64.6        | 64.6        | 64.6    | 64.6      | 64.6      | 64.6      | 64.6      | 64.6      | 64.7    |
| GE 9000               | 52.8                        | 59.1    | 62.7    | 63.7    | 64.9    | 64.9        | 64.9    | 64.9        | 64.9        | 64.9    | 64.9      | 64.9      | 64.9      | 64.9      | 64.9      | 65.1    |
| GE 8000               | 54.8                        | 61.5    | 65.3    | 66.7    | 68.1    | 68.1        | 68.2    | 68.2        | 68.2        | 68.2    | 68.2      | 68.2      | 68.2      | 68.2      | 68.2      | 68.3    |
| GE 7000               | 55.1                        | 61.7    | 65.7    | 67.2    | 68.7    | 69.1        | 69.2    | 69.2        | 69.2        | 69.2    | 69.2      | 69.2      | 69.2      | 69.2      | 69.2      | 69.5    |
| GE 6000               | 55.4                        | 62.3    | 66.2    | 67.7    | 69.2    | 69.7        | 69.8    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 69.9      | 69.9      | 69.9      | 70.0    |
| GE 5000               | 57.0                        | 64.3    | 69.1    | 70.6    | 72.3    | 72.7        | 72.8    | 72.9        | 72.9        | 72.9    | 72.9      | 72.9      | 72.9      | 72.9      | 72.9      | 73.0    |
| GE 4500               | 57.5                        | 64.8    | 69.7    | 71.2    | 72.8    | 73.2        | 73.3    | 73.4        | 73.4        | 73.4    | 73.4      | 73.4      | 73.4      | 73.4      | 73.4      | 73.5    |
| GE 4000               | 59.1                        | 66.5    | 71.6    | 73.3    | 75.1    | 75.5        | 75.6    | 75.7        | 75.7        | 75.7    | 75.7      | 75.7      | 75.7      | 75.7      | 75.7      | 75.8    |
| GE 3500               | 59.7                        | 67.1    | 72.4    | 74.3    | 76.0    | 76.5        | 76.6    | 76.7        | 76.7        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.7      | 76.8    |
| GE 3000               | 61.6                        | 69.4    | 74.6    | 76.8    | 78.6    | 79.0        | 79.1    | 79.2        | 79.2        | 79.2    | 79.2      | 79.2      | 79.2      | 79.2      | 79.2      | 79.4    |
| GE 2500               | 61.9                        | 69.8    | 75.1    | 77.2    | 79.1    | 79.6        | 79.7    | 79.8        | 79.8        | 79.8    | 79.8      | 79.8      | 79.8      | 79.8      | 79.8      | 79.9    |
| GE 2000               | 64.2                        | 72.2    | 77.5    | 79.7    | 81.7    | 82.3        | 82.4    | 82.5        | 82.5        | 82.5    | 82.5      | 82.5      | 82.5      | 82.5      | 82.5      | 82.6    |
| GE 1800               | 64.2                        | 72.2    | 77.6    | 80.0    | 82.0    | 82.6        | 82.7    | 82.8        | 82.8        | 82.8    | 82.8      | 82.8      | 82.8      | 82.8      | 82.8      | 82.9    |
| GE 1500               | 64.7                        | 72.7    | 78.3    | 80.8    | 82.8    | 83.4        | 83.5    | 83.7        | 83.7        | 83.7    | 83.7      | 83.7      | 83.7      | 83.7      | 83.7      | 83.8    |
| GE 1200               | 65.8                        | 74.1    | 80.2    | 82.9    | 85.2    | 85.9        | 86.0    | 86.1        | 86.1        | 86.1    | 86.1      | 86.1      | 86.1      | 86.1      | 86.1      | 86.2    |
| GE 1000               | 66.0                        | 74.4    | 81.2    | 84.2    | 87.0    | 87.7        | 87.8    | 88.0        | 88.0        | 88.0    | 88.0      | 88.0      | 88.0      | 88.0      | 88.0      | 88.1    |
| GE 900                | 66.1                        | 74.6    | 81.9    | 85.2    | 88.1    | 88.8        | 88.9    | 89.0        | 89.0        | 89.0    | 89.0      | 89.0      | 89.0      | 89.0      | 89.0      | 89.1    |
| GE 800                | 66.5                        | 74.9    | 82.4    | 86.1    | 89.6    | 90.4        | 90.6    | 90.8        | 90.8        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.9    |
| GE 700                | 67.0                        | 76.1    | 83.5    | 87.5    | 91.5    | 92.4        | 92.7    | 92.9        | 92.9        | 92.9    | 92.9      | 92.9      | 92.9      | 93.2      | 93.2      | 93.3    |
| GE 600                | 67.1                        | 76.3    | 84.3    | 89.0    | 93.1    | 94.1        | 94.8    | 95.1        | 95.1        | 95.3    | 95.3      | 95.3      | 95.3      | 95.6      | 95.6      | 95.7    |
| GE 500                | 67.1                        | 76.3    | 84.7    | 89.8    | 94.4    | 95.5        | 96.2    | 96.6        | 96.7        | 96.9    | 96.9      | 96.9      | 97.2      | 97.2      | 97.2      | 97.3    |
| GE 400                | 67.1                        | 76.3    | 84.7    | 89.9    | 94.6    | 95.9        | 97.1    | 97.5        | 97.7        | 98.1    | 98.2      | 98.2      | 98.5      | 98.5      | 98.5      | 98.6    |
| GE 300                | 67.1                        | 76.3    | 84.7    | 90.0    | 94.8    | 96.2        | 97.4    | 97.8        | 98.1        | 98.5    | 98.6      | 98.6      | 98.9      | 98.9      | 98.9      | 99.0    |
| GE 200                | 67.1                        | 76.3    | 84.7    | 90.0    | 94.8    | 96.2        | 97.4    | 97.8        | 98.1        | 98.5    | 98.8      | 98.8      | 99.1      | 99.1      | 99.1      | 99.2    |
| GE 100                | 67.1                        | 76.3    | 84.7    | 90.0    | 94.8    | 96.2        | 97.4    | 97.8        | 98.1        | 98.5    | 98.8      | 98.8      | 99.1      | 99.1      | 99.1      | 99.2    |
| GE 000                | 67.1                        | 76.3    | 84.7    | 90.0    | 94.8    | 96.2        | 97.4    | 97.8        | 98.1        | 98.5    | 98.8      | 98.8      | 99.1      | 99.1      | 99.1      | 99.2    |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 50.2                        | 52.4    | 52.4    | 52.4    | 52.4    | 52.4        | 52.4    | 52.4        | 52.4        | 52.4    | 52.4      | 52.4      | 52.4      | 52.4      | 52.4      | 52.4    |
| GE 20000              | 58.6                        | 60.9    | 61.2    | 61.2    | 61.2    | 61.2        | 61.2    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 18000              | 58.6                        | 60.9    | 61.2    | 61.2    | 61.2    | 61.2        | 61.2    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 16000              | 58.6                        | 60.9    | 61.2    | 61.2    | 61.2    | 61.2        | 61.2    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 14000              | 58.7                        | 61.0    | 61.3    | 61.3    | 61.3    | 61.3        | 61.3    | 61.3        | 61.3        | 61.3    | 61.3      | 61.3      | 61.3      | 61.3      | 61.3      | 61.3    |
| GE 12000              | 59.5                        | 62.0    | 62.7    | 62.7    | 62.7    | 62.7        | 62.7    | 62.7        | 62.7        | 62.7    | 62.7      | 62.7      | 62.7      | 62.7      | 62.7      | 62.7    |
| GE 10000              | 62.2                        | 65.3    | 66.5    | 66.5    | 66.5    | 66.5        | 66.5    | 66.5        | 66.5        | 66.5    | 66.5      | 66.5      | 66.5      | 66.5      | 66.5      | 66.5    |
| GE 9000               | 62.4                        | 65.5    | 66.7    | 66.7    | 66.7    | 66.7        | 66.7    | 66.7        | 66.7        | 66.7    | 66.7      | 66.7      | 66.7      | 66.7      | 66.7      | 66.7    |
| GE 8000               | 64.9                        | 68.2    | 69.6    | 69.9    | 69.9    | 70.0        | 70.0    | 70.0        | 70.0        | 70.0    | 70.0      | 70.0      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 7000               | 65.2                        | 68.5    | 70.2    | 70.8    | 71.0    | 71.2        | 71.2    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.2      | 71.2      | 71.2      | 71.2    |
| GE 6000               | 65.4                        | 68.8    | 70.6    | 71.2    | 71.6    | 71.8        | 71.8    | 71.8        | 71.8        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 71.8      | 71.8    |
| GE 5000               | 66.6                        | 70.2    | 72.4    | 72.9    | 73.3    | 73.5        | 73.5    | 73.5        | 73.5        | 73.5    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.5    |
| GE 4500               | 67.0                        | 70.6    | 72.8    | 73.4    | 73.9    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 4000               | 69.9                        | 73.5    | 76.0    | 76.7    | 77.1    | 77.3        | 77.3    | 77.3        | 77.3        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 3500               | 71.4                        | 75.2    | 77.7    | 78.5    | 78.9    | 79.1        | 79.1    | 79.1        | 79.1        | 79.1    | 79.1      | 79.1      | 79.1      | 79.1      | 79.1      | 79.1    |
| GE 3000               | 74.4                        | 78.3    | 81.2    | 82.2    | 82.6    | 82.8        | 82.8    | 82.8        | 82.8        | 82.8    | 82.8      | 82.8      | 82.8      | 82.8      | 82.8      | 82.8    |
| GE 2500               | 75.4                        | 79.4    | 82.3    | 83.2    | 83.8    | 84.0        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 2000               | 77.6                        | 81.8    | 84.8    | 86.3    | 87.0    | 87.2        | 87.2    | 87.2        | 87.2        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 1800               | 77.7                        | 82.0    | 85.3    | 86.8    | 87.4    | 87.7        | 87.7    | 87.7        | 87.7        | 87.7    | 87.7      | 87.7      | 87.7      | 87.7      | 87.7      | 87.7    |
| GE 1500               | 78.1                        | 82.6    | 86.1    | 87.6    | 88.5    | 88.8        | 88.8    | 88.8        | 88.8        | 88.8    | 88.8      | 88.8      | 88.8      | 88.8      | 88.8      | 88.8    |
| GE 1200               | 78.7                        | 83.7    | 87.8    | 89.8    | 90.6    | 91.0        | 91.0    | 91.0        | 91.0        | 91.0    | 91.0      | 91.0      | 91.0      | 91.0      | 91.0      | 91.0    |
| GE 1000               | 79.2                        | 84.6    | 89.0    | 91.5    | 92.5    | 92.8        | 92.9    | 93.0        | 93.0        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 900                | 79.5                        | 84.9    | 89.4    | 92.4    | 93.3    | 93.7        | 93.8    | 94.0        | 94.0        | 94.0    | 94.0      | 94.0      | 94.0      | 94.0      | 94.0      | 94.0    |
| GE 800                | 80.0                        | 85.8    | 90.4    | 93.8    | 94.9    | 95.3        | 95.4    | 95.6        | 95.6        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 700                | 80.4                        | 86.3    | 91.3    | 95.5    | 6.8     | 97.1        | 97.4    | 97.6        | 97.6        | 97.7    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 600                | 80.4                        | 86.6    | 91.5    | 95.9    | 97.5    | 98.1        | 98.4    | 98.7        | 98.7        | 98.8    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 500                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.6    | 98.2        | 98.5    | 99.0        | 99.0        | 99.1    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 400                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.7    | 98.3        | 98.9    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.7    | 98.3        | 98.9    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.7    | 98.3        | 98.9    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.7    | 98.3        | 98.9    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 80.5                        | 86.7    | 91.6    | 96.0    | 97.7    | 98.3        | 98.9    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 48.9                        | 49.9    | 50.9    | 50.9    | 50.9    | 50.9        | 50.9    | 50.9        | 50.9        | 50.9    | 50.9      | 50.9      | 50.9      | 50.9      | 50.9      | 50.9    |
| GE 20000              | 59.2                        | 60.8    | 62.0    | 62.0    | 62.0    | 62.0        | 62.0    | 62.0        | 62.0        | 62.0    | 62.0      | 62.0      | 62.0      | 62.0      | 62.0      | 62.0    |
| GE 18000              | 59.2                        | 60.8    | 62.0    | 62.0    | 62.0    | 62.0        | 62.0    | 62.0        | 62.0        | 62.0    | 62.0      | 62.0      | 62.0      | 62.0      | 62.0      | 62.0    |
| GE 16000              | 59.2                        | 60.8    | 62.0    | 62.0    | 62.0    | 62.0        | 62.0    | 62.0        | 62.0        | 62.0    | 62.0      | 62.0      | 62.0      | 62.0      | 62.0      | 62.0    |
| GE 14000              | 59.6                        | 61.1    | 62.4    | 62.4    | 62.4    | 62.4        | 62.4    | 62.4        | 62.4        | 62.4    | 62.4      | 62.4      | 62.4      | 62.4      | 62.4      | 62.4    |
| GE 12000              | 61.6                        | 63.1    | 64.8    | 64.8    | 64.8    | 64.8        | 64.8    | 64.8        | 64.8        | 64.8    | 64.8      | 64.8      | 64.8      | 64.8      | 64.8      | 64.8    |
| GE 10000              | 64.5                        | 66.1    | 67.8    | 67.8    | 67.8    | 67.8        | 67.8    | 67.8        | 67.8        | 67.8    | 67.8      | 67.8      | 67.8      | 67.8      | 67.8      | 67.8    |
| GE 9000               | 65.2                        | 66.8    | 68.5    | 68.5    | 68.5    | 68.5        | 68.5    | 68.5        | 68.5        | 68.5    | 68.5      | 68.5      | 68.5      | 68.5      | 68.5      | 68.5    |
| GE 8000               | 66.8                        | 68.5    | 70.3    | 70.3    | 70.3    | 70.3        | 70.3    | 70.3        | 70.3        | 70.3    | 70.3      | 70.3      | 70.3      | 70.3      | 70.3      | 70.3    |
| GE 7000               | 67.4                        | 69.4    | 71.4    | 71.6    | 71.7    | 71.7        | 71.7    | 71.7        | 71.7        | 71.7    | 71.7      | 71.7      | 71.7      | 71.7      | 71.7      | 71.7    |
| GE 6000               | 67.4                        | 69.5    | 71.5    | 71.7    | 71.8    | 71.8        | 71.8    | 71.8        | 71.8        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 71.8      | 71.8    |
| GE 5000               | 69.6                        | 71.8    | 74.0    | 74.3    | 74.4    | 74.4        | 74.4    | 74.4        | 74.4        | 74.4    | 74.4      | 74.4      | 74.4      | 74.4      | 74.4      | 74.4    |
| GE 4500               | 70.6                        | 73.1    | 75.3    | 75.6    | 75.7    | 75.7        | 75.7    | 75.7        | 75.7        | 75.7    | 75.7      | 75.7      | 75.7      | 75.7      | 75.7      | 75.7    |
| GE 4000               | 75.6                        | 78.2    | 80.3    | 80.8    | 81.1    | 81.1        | 81.1    | 81.1        | 81.1        | 81.1    | 81.1      | 81.1      | 81.1      | 81.1      | 81.1      | 81.1    |
| GE 3500               | 77.2                        | 79.9    | 82.2    | 82.6    | 82.9    | 82.9        | 82.9    | 82.9        | 82.9        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 3000               | 79.9                        | 82.7    | 84.9    | 85.4    | 85.8    | 85.9        | 85.9    | 86.0        | 86.0        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 2500               | 81.3                        | 84.1    | 86.8    | 87.4    | 88.1    | 88.3        | 88.3    | 88.4        | 88.4        | 88.4    | 88.4      | 88.4      | 88.4      | 88.4      | 88.4      | 88.4    |
| GE 2000               | 82.7                        | 86.1    | 89.6    | 90.3    | 91.0    | 91.2        | 91.2    | 91.3        | 91.3        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 1800               | 82.7                        | 86.1    | 89.6    | 90.3    | 91.0    | 91.2        | 91.2    | 91.3        | 91.3        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 1500               | 83.4                        | 87.2    | 90.8    | 91.6    | 92.4    | 92.7        | 92.7    | 92.8        | 92.8        | 92.8    | 92.8      | 92.8      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 1200               | 84.3                        | 88.2    | 91.7    | 92.8    | 94.0    | 94.3        | 94.3    | 94.4        | 94.4        | 94.4    | 94.4      | 94.4      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 1000               | 84.4                        | 88.6    | 92.5    | 93.9    | 95.1    | 95.4        | 95.4    | 95.5        | 95.5        | 95.5    | 95.5      | 95.5      | 95.5      | 95.5      | 95.5      | 95.5    |
| GE 900                | 84.7                        | 88.9    | 92.9    | 94.8    | 96.1    | 96.5        | 96.5    | 96.6        | 96.6        | 96.6    | 96.6      | 96.6      | 96.6      | 96.9      | 96.9      | 96.9    |
| GE 800                | 85.1                        | 89.4    | 93.3    | 95.5    | 97.3    | 97.6        | 97.6    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 98.2      | 98.2      | 98.2    |
| GE 700                | 85.2                        | 89.7    | 93.7    | 95.9    | 97.8    | 98.2        | 98.2    | 98.4        | 98.4        | 98.4    | 98.4      | 98.4      | 98.4      | 98.7      | 98.7      | 98.7    |
| GE 600                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.4    | 98.7        | 98.7    | 98.9        | 98.9        | 98.9    | 98.9      | 98.9      | 98.9      | 99.2      | 99.2      | 99.2    |
| GE 500                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 98.8    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.4      | 99.4      | 99.4    |
| GE 400                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 99.5    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 100.0     | 100.0     | 100.0   |
| GE 300                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 99.5    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 100.0     | 100.0     | 100.0   |
| GE 200                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 99.5    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 100.0     | 100.0     | 100.0   |
| GE 100                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 99.5    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 100.0     | 100.0     | 100.0   |
| GE 000                | 85.3                        | 89.8    | 94.1    | 96.5    | 98.5    | 98.8        | 99.5    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 54.5                        | 55.9    | 56.9    | 57.4    | 57.4    | 57.4        | 57.4    | 57.4        | 57.4        | 57.4    | 57.4      | 57.4      | 57.4      | 57.4      | 57.4      | 57.4    |
| GE 20000              | 61.3                        | 63.4    | 64.5    | 65.3    | 65.3    | 65.3        | 65.3    | 65.3        | 65.3        | 65.3    | 65.3      | 65.3      | 65.3      | 65.3      | 65.3      | 65.3    |
| GE 18000              | 61.3                        | 63.4    | 64.5    | 65.3    | 65.3    | 65.3        | 65.3    | 65.3        | 65.3        | 65.3    | 65.3      | 65.3      | 65.3      | 65.3      | 65.3      | 65.3    |
| GE 16000              | 61.3                        | 63.4    | 64.5    | 65.3    | 65.3    | 65.3        | 65.3    | 65.3        | 65.3        | 65.3    | 65.3      | 65.3      | 65.3      | 65.3      | 65.3      | 65.3    |
| GE 14000              | 61.4                        | 63.5    | 64.7    | 65.4    | 65.4    | 65.4        | 65.4    | 65.4        | 65.4        | 65.4    | 65.4      | 65.4      | 65.4      | 65.4      | 65.4      | 65.4    |
| GE 12000              | 62.2                        | 64.2    | 65.8    | 66.6    | 66.6    | 66.6        | 66.6    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 10000              | 65.7                        | 68.0    | 69.7    | 70.5    | 70.5    | 70.5        | 70.5    | 70.5        | 70.5        | 70.5    | 70.5      | 70.5      | 70.5      | 70.5      | 70.5      | 70.5    |
| GE 9000               | 66.6                        | 68.9    | 70.6    | 71.3    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 8000               | 70.0                        | 72.3    | 74.0    | 74.8    | 74.8    | 74.8        | 74.8    | 74.8        | 74.8        | 74.8    | 74.8      | 74.8      | 74.8      | 74.8      | 74.8      | 74.8    |
| GE 7000               | 71.1                        | 73.4    | 75.2    | 76.0    | 76.0    | 76.0        | 76.0    | 76.0        | 76.0        | 76.0    | 76.0      | 76.0      | 76.0      | 76.0      | 76.0      | 76.0    |
| GE 6000               | 71.3                        | 73.6    | 75.4    | 76.3    | 76.3    | 76.3        | 76.3    | 76.3        | 76.3        | 76.3    | 76.3      | 76.3      | 76.3      | 76.3      | 76.3      | 76.3    |
| GE 5000               | 74.0                        | 76.3    | 78.2    | 79.1    | 79.1    | 79.1        | 79.1    | 79.1        | 79.1        | 79.1    | 79.1      | 79.1      | 79.1      | 79.1      | 79.1      | 79.1    |
| GE 4500               | 74.7                        | 76.9    | 78.9    | 79.7    | 79.7    | 79.7        | 79.7    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.7      | 79.7    |
| GE 4000               | 76.6                        | 79.2    | 81.5    | 82.3    | 82.4    | 82.4        | 82.4    | 82.4        | 82.4        | 82.4    | 82.4      | 82.4      | 82.4      | 82.4      | 82.4      | 82.4    |
| GE 3500               | 78.4                        | 81.1    | 83.5    | 84.7    | 84.8    | 84.8        | 84.8    | 84.8        | 84.8        | 84.8    | 84.8      | 84.8      | 84.8      | 84.8      | 84.8      | 84.8    |
| GE 3000               | 80.0                        | 82.9    | 85.6    | 86.9    | 87.0    | 87.0        | 87.0    | 87.0        | 87.0        | 87.0    | 87.0      | 87.0      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 2500               | 81.5                        | 84.4    | 87.3    | 88.6    | 89.1    | 89.4        | 89.4    | 89.4        | 89.4        | 89.4    | 89.4      | 89.4      | 89.4      | 89.4      | 89.4      | 89.4    |
| GE 2000               | 82.3                        | 85.7    | 88.8    | 90.3    | 90.9    | 91.3        | 91.3    | 91.3        | 91.3        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 1800               | 82.5                        | 86.1    | 89.2    | 90.7    | 91.4    | 91.7        | 91.7    | 91.7        | 91.7        | 91.7    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 1500               | 82.9                        | 86.5    | 89.8    | 91.4    | 92.5    | 92.8        | 92.8    | 92.8        | 92.8        | 92.8    | 92.8      | 92.8      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 1200               | 83.3                        | 87.1    | 90.5    | 92.3    | 93.6    | 94.0        | 94.0    | 94.0        | 94.0        | 94.0    | 94.0      | 94.0      | 94.0      | 94.0      | 94.1      | 94.1    |
| GE 1000               | 83.4                        | 87.3    | 90.8    | 92.9    | 94.6    | 94.9        | 94.9    | 94.9        | 94.9        | 94.9    | 94.9      | 94.9      | 94.9      | 94.9      | 95.0      | 95.0    |
| GE 900                | 83.7                        | 87.6    | 91.3    | 93.3    | 95.4    | 95.7        | 95.9    | 95.9        | 95.9        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.1      | 96.1    |
| GE 800                | 83.8                        | 87.8    | 91.5    | 93.9    | 95.9    | 96.2        | 96.7    | 96.7        | 96.7        | 96.8    | 96.8      | 96.8      | 96.8      | 96.8      | 97.0      | 97.0    |
| GE 700                | 83.9                        | 88.1    | 91.8    | 94.2    | 96.8    | 97.2        | 97.6    | 97.6        | 97.6        | 97.7    | 97.7      | 97.7      | 97.7      | 97.7      | 98.0      | 98.0    |
| GE 600                | 83.9                        | 88.3    | 92.1    | 94.7    | 97.4    | 97.8        | 98.3    | 98.4        | 98.4        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.8      | 98.8    |
| GE 500                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.6    | 98.1        | 98.6    | 98.7        | 98.7        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 99.1      | 99.1    |
| GE 400                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.7    | 98.4        | 99.2    | 99.5        | 99.5        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.9      | 99.9    |
| GE 300                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.7    | 98.4        | 99.2    | 99.5        | 99.5        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.9      | 99.9    |
| GE 200                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.7    | 98.4        | 99.2    | 99.5        | 99.6        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 100.0     | 100.0   |
| GE 100                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.7    | 98.4        | 99.2    | 99.5        | 99.6        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 100.0     | 100.0   |
| GE 000                | 83.9                        | 88.3    | 92.2    | 94.9    | 97.7    | 98.4        | 99.2    | 99.5        | 99.6        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 928

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 61.1                        | 62.1    | 63.2    | 63.9    | 63.9    | 63.9        | 63.9    | 63.9        | 63.9        | 63.9    | 63.9      | 63.9      | 63.9      | 63.9      | 63.9      | 63.9    |
| GE 20000              | 67.4                        | 68.7    | 69.9    | 70.7    | 70.7    | 70.7        | 70.7    | 70.7        | 70.7        | 70.7    | 70.7      | 70.7      | 70.7      | 70.7      | 70.7      | 70.7    |
| GE 18000              | 67.4                        | 68.7    | 69.9    | 70.7    | 70.7    | 70.7        | 70.7    | 70.7        | 70.7        | 70.7    | 70.7      | 70.7      | 70.7      | 70.7      | 70.7      | 70.7    |
| GE 16000              | 67.4                        | 68.7    | 69.9    | 70.7    | 70.7    | 70.7        | 70.7    | 70.7        | 70.7        | 70.7    | 70.7      | 70.7      | 70.7      | 70.7      | 70.7      | 70.7    |
| GE 14000              | 67.9                        | 69.1    | 70.3    | 71.1    | 71.1    | 71.1        | 71.1    | 71.1        | 71.1        | 71.1    | 71.1      | 71.1      | 71.1      | 71.1      | 71.1      | 71.1    |
| GE 12000              | 68.5                        | 69.8    | 71.0    | 71.7    | 71.7    | 71.7        | 71.7    | 71.7        | 71.7        | 71.7    | 71.7      | 71.7      | 71.7      | 71.7      | 71.7      | 71.7    |
| GE 10000              | 70.8                        | 72.1    | 73.2    | 74.1    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 9000               | 71.3                        | 72.6    | 73.8    | 74.6    | 74.8    | 74.8        | 74.8    | 74.8        | 74.8        | 74.8    | 74.8      | 74.8      | 74.8      | 74.8      | 74.8      | 74.8    |
| GE 8000               | 74.8                        | 76.1    | 77.2    | 78.2    | 78.3    | 78.3        | 78.3    | 78.3        | 78.3        | 78.3    | 78.3      | 78.3      | 78.3      | 78.3      | 78.3      | 78.3    |
| GE 7000               | 75.2                        | 76.5    | 77.7    | 78.6    | 79.0    | 79.0        | 79.0    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 6000               | 75.6                        | 76.9    | 78.1    | 79.1    | 79.4    | 79.4        | 79.4    | 79.4        | 79.4        | 79.4    | 79.4      | 79.4      | 79.4      | 79.4      | 79.4      | 79.4    |
| GE 5000               | 77.5                        | 78.9    | 80.2    | 81.2    | 81.6    | 81.6        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 4500               | 78.0                        | 79.4    | 80.7    | 81.8    | 82.1    | 82.1        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 4000               | 81.2                        | 82.6    | 84.7    | 86.1    | 86.4    | 86.4        | 86.5    | 86.5        | 86.5        | 86.5    | 86.5      | 86.5      | 86.5      | 86.5      | 86.5      | 86.5    |
| GE 3500               | 82.0                        | 83.4    | 85.4    | 86.9    | 87.3    | 87.3        | 87.4    | 87.4        | 87.4        | 87.4    | 87.4      | 87.4      | 87.4      | 87.4      | 87.4      | 87.4    |
| GE 3000               | 82.6                        | 84.0    | 86.2    | 87.7    | 88.2    | 88.2        | 88.3    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.3      | 88.3      | 88.3      | 88.3    |
| GE 2500               | 83.3                        | 84.7    | 86.9    | 88.5    | 89.1    | 89.1        | 89.2    | 89.2        | 89.2        | 89.2    | 89.2      | 89.2      | 89.2      | 89.2      | 89.2      | 89.2    |
| GE 2000               | 83.9                        | 85.4    | 87.9    | 89.5    | 90.3    | 90.4        | 90.6    | 90.6        | 90.6        | 90.6    | 90.6      | 90.6      | 90.6      | 90.6      | 90.6      | 90.6    |
| GE 1800               | 83.9                        | 85.4    | 87.9    | 89.5    | 90.3    | 90.4        | 90.6    | 90.6        | 90.6        | 90.6    | 90.6      | 90.6      | 90.6      | 90.6      | 90.6      | 90.6    |
| GE 1500               | 84.3                        | 85.8    | 88.6    | 90.2    | 91.0    | 91.2        | 91.5    | 91.5        | 91.5        | 91.5    | 91.5      | 91.5      | 91.5      | 91.5      | 91.5      | 91.5    |
| GE 1200               | 84.5                        | 86.0    | 89.5    | 91.2    | 92.2    | 92.4        | 92.8    | 92.8        | 92.8        | 92.8    | 92.8      | 92.8      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 1000               | 84.7                        | 86.4    | 90.1    | 91.7    | 93.1    | 93.3        | 93.9    | 93.9        | 93.9        | 93.9    | 93.9      | 93.9      | 93.9      | 93.9      | 93.9      | 93.9    |
| GE 900                | 84.9                        | 86.8    | 90.7    | 92.4    | 93.9    | 94.1        | 94.7    | 94.7        | 94.7        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 800                | 85.0                        | 87.4    | 91.3    | 93.2    | 94.6    | 95.0        | 95.7    | 95.7        | 95.7        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 700                | 85.0                        | 87.6    | 91.6    | 93.6    | 95.4    | 95.8        | 96.5    | 96.5        | 96.5        | 96.5    | 96.5      | 96.5      | 96.5      | 96.5      | 96.5      | 96.5    |
| GE 600                | 85.0                        | 87.7    | 91.7    | 94.2    | 96.1    | 96.5        | 97.3    | 97.3        | 97.3        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 500                | 85.0                        | 87.8    | 91.8    | 94.4    | 96.9    | 97.3        | 98.3    | 98.3        | 98.4        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.5    |
| GE 400                | 85.0                        | 87.8    | 91.8    | 94.4    | 97.0    | 97.4        | 98.8    | 98.8        | 98.9        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 99.0    |
| GE 300                | 85.0                        | 87.8    | 91.8    | 94.4    | 97.1    | 97.6        | 99.2    | 99.4        | 99.5        | 99.6    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.8    |
| GE 200                | 85.0                        | 87.8    | 91.8    | 94.4    | 97.1    | 97.6        | 99.2    | 99.4        | 99.6        | 99.8    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 100.0   |
| GE 100                | 85.0                        | 87.8    | 91.8    | 94.4    | 97.1    | 97.6        | 99.2    | 99.4        | 99.6        | 99.8    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 100.0   |
| GE 000                | 85.0                        | 87.8    | 91.8    | 94.4    | 97.1    | 97.6        | 99.2    | 99.4        | 99.6        | 99.8    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 927

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO UTC: + 5

\*PERIOD OF RECORD: APR 79 - MAR '89  
MONTH: MAR HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2-1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO. CEIL              | 51.2                        | 53.0    | 54.2    | 54.9    | 55.4    | 55.5        | 55.6    | 55.6        | 55.6        | 55.7    | 55.7      | 55.7      | 55.8      | 55.8      | 55.8      | 55.9    |
| GE 20000              | 57.3                        | 59.6    | 61.1    | 62.0    | 62.6    | 62.7        | 62.8    | 62.8        | 62.9        | 62.9    | 62.9      | 62.9      | 63.0      | 63.0      | 63.1      | 63.2    |
| GE 18000              | 57.3                        | 59.6    | 61.1    | 62.0    | 62.6    | 62.7        | 62.8    | 62.9        | 62.9        | 62.9    | 63.0      | 63.0      | 63.0      | 63.0      | 63.1      | 63.2    |
| GE 16000              | 57.3                        | 59.6    | 61.1    | 62.0    | 62.6    | 62.7        | 62.8    | 62.9        | 62.9        | 62.9    | 63.0      | 63.0      | 63.0      | 63.0      | 63.1      | 63.2    |
| GE 14000              | 57.5                        | 59.8    | 61.3    | 62.2    | 62.9    | 63.0        | 63.0    | 63.1        | 63.1        | 63.1    | 63.2      | 63.2      | 63.3      | 63.3      | 63.3      | 63.4    |
| GE 12000              | 58.6                        | 61.0    | 62.8    | 63.7    | 64.4    | 64.5        | 64.5    | 64.6        | 64.6        | 64.7    | 64.7      | 64.7      | 64.8      | 64.8      | 64.9      | 64.9    |
| GE 10000              | 61.3                        | 63.9    | 65.9    | 66.9    | 67.6    | 67.7        | 67.8    | 67.9        | 67.9        | 67.9    | 68.0      | 68.0      | 68.1      | 68.1      | 68.1      | 68.2    |
| GE 9000               | 61.7                        | 64.4    | 66.4    | 67.4    | 68.1    | 68.2        | 68.3    | 68.4        | 68.4        | 68.4    | 68.5      | 68.5      | 68.5      | 68.5      | 68.6      | 68.7    |
| GE 8000               | 64.0                        | 66.9    | 69.0    | 70.2    | 70.9    | 71.0        | 71.1    | 71.2        | 71.2        | 71.3    | 71.3      | 71.3      | 71.4      | 71.4      | 71.5      | 71.5    |
| GE 7000               | 64.5                        | 67.4    | 69.7    | 71.0    | 71.8    | 72.0        | 72.1    | 72.2        | 72.2        | 72.2    | 72.3      | 72.3      | 72.3      | 72.3      | 72.4      | 72.5    |
| GE 6000               | 65.0                        | 67.9    | 70.2    | 71.5    | 72.4    | 72.5        | 72.7    | 72.8        | 72.8        | 72.8    | 72.9      | 72.9      | 72.9      | 72.9      | 73.0      | 73.1    |
| GE 5000               | 66.7                        | 69.9    | 72.4    | 73.8    | 74.8    | 74.9        | 75.1    | 75.2        | 75.2        | 75.2    | 75.3      | 75.3      | 75.3      | 75.3      | 75.4      | 75.5    |
| GE 4500               | 67.3                        | 70.5    | 73.0    | 74.4    | 75.4    | 75.5        | 75.7    | 75.8        | 75.8        | 75.8    | 75.9      | 75.9      | 75.9      | 75.9      | 76.0      | 76.1    |
| GE 4000               | 69.8                        | 73.0    | 75.8    | 77.4    | 78.4    | 78.6        | 78.8    | 78.8        | 78.9        | 78.9    | 79.0      | 79.0      | 79.0      | 79.0      | 79.1      | 79.2    |
| GE 3500               | 70.8                        | 74.1    | 77.0    | 78.7    | 79.8    | 80.0        | 80.1    | 80.2        | 80.3        | 80.3    | 80.3      | 80.3      | 80.4      | 80.4      | 80.5      | 80.5    |
| GE 3000               | 72.3                        | 75.8    | 78.8    | 80.7    | 81.8    | 82.0        | 82.2    | 82.3        | 82.3        | 82.3    | 82.4      | 82.4      | 82.5      | 82.5      | 82.5      | 82.6    |
| GE 2500               | 73.2                        | 76.7    | 79.9    | 81.7    | 83.1    | 83.3        | 83.5    | 83.6        | 83.6        | 83.6    | 83.7      | 83.7      | 83.8      | 83.8      | 83.8      | 83.9    |
| E 2000                | 74.7                        | 78.4    | 81.8    | 83.8    | 85.3    | 85.6        | 85.7    | 85.8        | 85.9        | 85.9    | 86.0      | 86.0      | 86.0      | 86.0      | 86.1      | 86.2    |
| GE 1800               | 74.8                        | 78.6    | 82.1    | 84.2    | 85.7    | 86.0        | 86.1    | 86.2        | 86.3        | 86.3    | 86.4      | 86.4      | 86.4      | 86.4      | 86.5      | 86.6    |
| GE 1500               | 75.4                        | 79.3    | 82.9    | 85.1    | 86.7    | 87.0        | 87.2    | 87.3        | 87.3        | 87.4    | 87.5      | 87.5      | 87.5      | 87.5      | 87.6      | 87.7    |
| GE 1200               | 76.1                        | 80.2    | 84.3    | 86.7    | 88.6    | 89.0        | 89.2    | 89.3        | 89.4        | 89.4    | 89.5      | 89.5      | 89.6      | 89.6      | 89.7      | 89.7    |
| GE 1000               | 76.4                        | 80.7    | 85.1    | 87.8    | 89.8    | 90.2        | 90.6    | 90.7        | 90.7        | 90.8    | 90.8      | 90.8      | 90.9      | 90.9      | 91.0      | 91.1    |
| GE 900                | 76.7                        | 81.1    | 85.7    | 88.6    | 90.9    | 91.4        | 91.8    | 91.9        | 91.9        | 92.0    | 92.1      | 92.1      | 92.2      | 92.2      | 92.3      | 92.4    |
| GE 800                | 76.9                        | 81.4    | 86.1    | 89.3    | 91.8    | 92.4        | 92.8    | 93.0        | 93.0        | 93.1    | 93.2      | 93.2      | 93.3      | 93.3      | 93.4      | 93.5    |
| GE 700                | 77.1                        | 81.8    | 86.7    | 90.1    | 93.0    | 93.5        | 94.1    | 94.3        | 94.3        | 94.4    | 94.5      | 94.5      | 94.6      | 94.6      | 94.8      | 94.8    |
| GE 600                | 77.2                        | 82.0    | 87.0    | 90.7    | 93.8    | 94.5        | 95.2    | 95.4        | 95.4        | 95.5    | 95.6      | 95.6      | 95.8      | 95.8      | 95.9      | 96.0    |
| GE 500                | 77.2                        | 82.0    | 87.2    | 91.1    | 94.7    | 95.4        | 96.3    | 96.6        | 96.7        | 96.8    | 96.9      | 96.9      | 97.1      | 97.1      | 97.2      | 97.3    |
| GE 400                | 77.3                        | 82.1    | 87.3    | 91.3    | 95.0    | 95.9        | 97.2    | 97.6        | 97.6        | 97.8    | 97.9      | 97.9      | 98.1      | 98.1      | 98.2      | 98.3    |
| GE 300                | 77.3                        | 82.1    | 87.3    | 91.3    | 95.2    | 96.1        | 97.5    | 98.0        | 98.0        | 98.3    | 98.4      | 98.4      | 98.7      | 98.7      | 98.8      | 98.9    |
| GE 200                | 77.3                        | 82.1    | 87.3    | 91.3    | 95.2    | 96.2        | 97.6    | 98.1        | 98.2        | 98.5    | 98.7      | 98.7      | 99.0      | 99.1      | 99.3      | 99.5    |
| GE 100                | 77.3                        | 82.1    | 87.3    | 91.3    | 95.2    | 96.2        | 97.6    | 98.1        | 98.2        | 98.6    | 98.9      | 98.9      | 99.2      | 99.2      | 99.6      | 99.9    |
| GE 000                | 77.3                        | 82.1    | 87.3    | 91.3    | 95.2    | 96.2        | 97.6    | 98.1        | 98.2        | 98.6    | 98.9      | 98.9      | 99.2      | 99.2      | 99.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7435

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 67.7                        | 68.4    | 69.3    | 69.6    | 69.8    | 69.9        | 69.9    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 20000              | 72.3                        | 73.3    | 74.3    | 74.7    | 74.9    | 75.0        | 75.0    | 75.0        | 75.0        | 75.0    | 75.0      | 75.0      | 75.1      | 75.1      | 75.1      | 75.1    |
| GE 18000              | 72.3                        | 73.3    | 74.3    | 74.7    | 74.9    | 75.0        | 75.0    | 75.0        | 75.0        | 75.0    | 75.0      | 75.0      | 75.1      | 75.1      | 75.1      | 75.1    |
| GE 16000              | 72.3                        | 73.3    | 74.3    | 74.7    | 74.9    | 75.0        | 75.0    | 75.0        | 75.0        | 75.0    | 75.0      | 75.0      | 75.1      | 75.1      | 75.1      | 75.1    |
| GE 14000              | 72.9                        | 74.0    | 75.0    | 75.3    | 75.6    | 75.7        | 75.7    | 75.7        | 75.7        | 75.7    | 75.7      | 75.7      | 75.8      | 75.8      | 75.8      | 75.8    |
| GE 12000              | 74.8                        | 75.9    | 76.9    | 77.2    | 77.4    | 77.6        | 77.6    | 77.6        | 77.6        | 77.6    | 77.6      | 77.6      | 77.7      | 77.7      | 77.7      | 77.7    |
| GE 10000              | 78.0                        | 79.6    | 80.6    | 81.0    | 81.2    | 81.3        | 81.3    | 81.3        | 81.3        | 81.3    | 81.3      | 81.3      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 9000               | 78.3                        | 79.9    | 80.9    | 81.3    | 81.6    | 81.7        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.8      | 81.8      | 81.8      | 81.8    |
| GE 8000               | 80.4                        | 82.0    | 83.1    | 83.6    | 83.9    | 84.0        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.1      | 84.1      | 84.1      | 84.1    |
| GE 7000               | 80.9                        | 82.4    | 83.6    | 84.0    | 84.3    | 84.4        | 84.4    | 84.4        | 84.4        | 84.4    | 84.4      | 84.4      | 84.6      | 84.6      | 84.6      | 84.6    |
| GE 6000               | 81.3                        | 82.9    | 84.0    | 84.4    | 84.8    | 84.9        | 84.9    | 84.9        | 84.9        | 84.9    | 84.9      | 84.9      | 85.0      | 85.0      | 85.0      | 85.0    |
| GE 5000               | 83.1                        | 84.7    | 85.9    | 86.3    | 86.7    | 86.8        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.9      | 86.9      | 86.9      | 86.9    |
| GE 4500               | 83.3                        | 84.9    | 86.1    | 86.7    | 87.0    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 4000               | 85.0                        | 86.6    | 88.0    | 88.6    | 88.9    | 89.0        | 89.0    | 89.0        | 89.0        | 89.0    | 89.0      | 89.0      | 89.1      | 89.1      | 89.1      | 89.1    |
| GE 3500               | 85.4                        | 87.0    | 88.4    | 89.0    | 89.3    | 89.6        | 89.6    | 89.6        | 89.6        | 89.6    | 89.6      | 89.6      | 89.7      | 89.7      | 89.7      | 89.7    |
| GE 3000               | 86.6                        | 88.2    | 90.0    | 90.6    | 90.9    | 91.2        | 91.2    | 91.2        | 91.2        | 91.2    | 91.2      | 91.2      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 2500               | 87.0                        | 88.7    | 90.8    | 91.3    | 91.7    | 92.0        | 92.0    | 92.0        | 92.0        | 92.0    | 92.0      | 92.0      | 92.1      | 92.1      | 92.1      | 92.1    |
| GE 2000               | 87.9                        | 89.9    | 92.1    | 92.7    | 93.0    | 93.3        | 93.3    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 1800               | 87.9                        | 89.9    | 92.1    | 92.7    | 93.0    | 93.3        | 93.3    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 1500               | 88.2                        | 90.2    | 92.4    | 93.1    | 93.4    | 93.8        | 93.8    | 93.8        | 93.8        | 93.8    | 93.8      | 93.8      | 93.9      | 93.9      | 93.9      | 93.9    |
| GE 1200               | 88.4                        | 90.4    | 92.7    | 93.3    | 93.7    | 94.1        | 94.1    | 94.1        | 94.1        | 94.1    | 94.1      | 94.1      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 1000               | 88.8                        | 90.8    | 93.2    | 94.2    | 94.6    | 95.0        | 95.0    | 95.0        | 95.0        | 95.0    | 95.0      | 95.0      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 900                | 88.9                        | 91.0    | 93.6    | 94.6    | 94.9    | 95.3        | 95.3    | 95.3        | 95.3        | 95.3    | 95.3      | 95.3      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 800                | 89.1                        | 91.3    | 94.1    | 95.4    | 95.8    | 96.2        | 96.2    | 96.2        | 96.2        | 96.2    | 96.2      | 96.2      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 700                | 89.2                        | 91.6    | 94.6    | 96.0    | 96.6    | 97.0        | 97.0    | 97.0        | 97.0        | 97.0    | 97.0      | 97.0      | 97.1      | 97.1      | 97.1      | 97.1    |
| GE 600                | 89.2                        | 91.7    | 94.8    | 96.7    | 97.3    | 97.9        | 97.9    | 97.9        | 97.9        | 97.9    | 97.9      | 97.9      | 98.0      | 98.0      | 98.0      | 98.0    |
| GE 500                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.0    | 98.6        | 98.6    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 400                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.3    | 98.9        | 98.9    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 300                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.4    | 99.1        | 99.2    | 99.4        | 99.4        | 99.4    | 99.4      | 99.4      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 200                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.4    | 99.1        | 99.2    | 99.4        | 99.4        | 99.4    | 99.4      | 99.4      | 99.6      | 99.7      | 99.7      | 99.7    |
| GE 100                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.4    | 99.1        | 99.2    | 99.4        | 99.4        | 99.4    | 99.4      | 99.4      | 99.6      | 99.7      | 99.7      | 99.7    |
| GE 000                | 89.2                        | 91.7    | 95.1    | 97.2    | 98.4    | 99.1        | 99.2    | 99.4        | 99.4        | 99.4    | 99.4      | 99.4      | 99.6      | 99.7      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 61.7                        | 62.9    | 64.0    | 64.8    | 65.3    | 65.7        | 65.9    | 65.9        | 65.9        | 65.9    | 65.9      | 65.9      | 65.9      | 65.9      | 66.0      | 66.0    |
| GE 20000              | 66.6                        | 67.8    | 69.1    | 70.1    | 70.7    | 71.0        | 71.2    | 71.2        | 71.2        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.4      | 71.4    |
| GE 18000              | 66.6                        | 67.8    | 69.1    | 70.1    | 70.7    | 71.0        | 71.2    | 71.2        | 71.2        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.4      | 71.4    |
| GE 16000              | 66.7                        | 67.9    | 69.2    | 70.2    | 70.8    | 71.1        | 71.3    | 71.3        | 71.3        | 71.4    | 71.4      | 71.4      | 71.4      | 71.4      | 71.6      | 71.6    |
| GE 14000              | 67.1                        | 68.4    | 69.8    | 70.8    | 71.3    | 71.7        | 71.9    | 71.9        | 71.9        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.1      | 72.1    |
| GE 12000              | 68.1                        | 69.4    | 70.8    | 71.8    | 72.3    | 72.7        | 72.9    | 72.9        | 72.9        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.1      | 73.1    |
| GE 10000              | 70.7                        | 72.0    | 73.4    | 74.6    | 75.2    | 75.6        | 75.8    | 75.8        | 75.8        | 75.9    | 75.9      | 75.9      | 75.9      | 75.9      | 76.0      | 76.0    |
| GE 9000               | 70.8                        | 72.1    | 73.6    | 74.7    | 75.3    | 75.7        | 75.9    | 75.9        | 75.9        | 76.0    | 76.0      | 76.0      | 76.0      | 76.0      | 76.1      | 76.1    |
| GE 8000               | 73.2                        | 74.8    | 76.2    | 77.3    | 78.1    | 78.4        | 78.7    | 78.7        | 78.7        | 78.8    | 78.8      | 78.8      | 78.8      | 78.8      | 78.9      | 78.9    |
| GE 7000               | 73.8                        | 75.3    | 76.8    | 77.9    | 78.7    | 79.0        | 79.2    | 79.2        | 79.2        | 79.3    | 79.3      | 79.3      | 79.3      | 79.3      | 79.4      | 79.4    |
| GE 6000               | 74.2                        | 75.8    | 77.2    | 78.3    | 79.1    | 79.4        | 79.7    | 79.7        | 79.7        | 79.8    | 79.8      | 79.8      | 79.8      | 79.8      | 79.9      | 79.9    |
| GE 5000               | 76.4                        | 78.1    | 80.1    | 81.2    | 82.1    | 82.4        | 82.8    | 82.8        | 82.8        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 83.0      | 83.0    |
| GE 4500               | 77.1                        | 78.8    | 80.8    | 81.9    | 82.8    | 83.1        | 83.6    | 83.6        | 83.6        | 83.7    | 83.7      | 83.7      | 83.7      | 83.7      | 83.8      | 83.8    |
| GE 4000               | 78.3                        | 80.2    | 82.2    | 83.3    | 84.3    | 84.8        | 85.1    | 85.1        | 85.1        | 85.2    | 85.2      | 85.2      | 85.2      | 85.2      | 85.3      | 85.3    |
| GE 3500               | 78.8                        | 80.7    | 82.8    | 83.9    | 84.9    | 85.2        | 85.7    | 85.7        | 85.7        | 85.8    | 85.8      | 85.8      | 85.8      | 85.8      | 85.9      | 85.9    |
| GE 3000               | 79.6                        | 81.6    | 83.7    | 85.0    | 86.1    | 86.6        | 87.0    | 87.0        | 87.0        | 87.1    | 87.1      | 87.1      | 87.1      | 87.1      | 87.2      | 87.2    |
| GE 2500               | 80.0                        | 82.1    | 84.2    | 85.6    | 86.7    | 87.1        | 87.6    | 87.6        | 87.6        | 87.7    | 87.7      | 87.7      | 87.7      | 87.7      | 87.8      | 87.8    |
| GE 2000               | 80.8                        | 82.9    | 85.0    | 86.4    | 87.7    | 88.1        | 88.8    | 88.8        | 88.8        | 88.9    | 88.9      | 88.9      | 89.0      | 89.0      | 89.1      | 89.1    |
| GE 1800               | 80.9                        | 83.0    | 85.1    | 86.6    | 87.8    | 88.2        | 88.9    | 88.9        | 88.9        | 89.0    | 89.0      | 89.0      | 89.1      | 89.1      | 89.2      | 89.2    |
| GE 1500               | 81.2                        | 83.3    | 85.4    | 86.9    | 88.2    | 88.7        | 89.3    | 89.3        | 89.3        | 89.4    | 89.4      | 89.4      | 89.6      | 89.6      | 89.7      | 89.7    |
| GE 1200               | 82.3                        | 84.4    | 86.7    | 88.2    | 89.7    | 90.1        | 90.8    | 90.8        | 90.8        | 90.9    | 90.9      | 90.9      | 91.0      | 91.0      | 91.1      | 91.1    |
| GE 1000               | 82.6                        | 84.7    | 86.9    | 88.9    | 90.6    | 91.0        | 91.7    | 91.7        | 91.7        | 91.8    | 91.8      | 91.8      | 91.9      | 91.9      | 92.0      | 92.0    |
| GE 900                | 82.8                        | 84.9    | 87.1    | 89.1    | 90.8    | 91.2        | 91.9    | 91.9        | 91.9        | 92.0    | 92.0      | 92.0      | 92.1      | 92.1      | 92.2      | 92.2    |
| GE 800                | 83.0                        | 85.3    | 87.9    | 89.9    | 92.1    | 92.6        | 93.2    | 93.2        | 93.2        | 93.3    | 93.3      | 93.3      | 93.4      | 93.4      | 93.6      | 93.6    |
| GE 700                | 83.2                        | 85.6    | 88.1    | 90.2    | 92.8    | 93.2        | 94.0    | 94.0        | 94.0        | 94.1    | 94.1      | 94.1      | 94.2      | 94.2      | 94.3      | 94.3    |
| GE 600                | 83.4                        | 85.8    | 88.3    | 90.8    | 93.4    | 93.9        | 94.7    | 94.7        | 94.7        | 94.8    | 94.8      | 94.8      | 94.9      | 94.9      | 95.0      | 95.0    |
| GE 500                | 83.4                        | 85.8    | 88.4    | 91.1    | 94.1    | 94.7        | 95.7    | 95.8        | 95.8        | 95.9    | 95.9      | 95.9      | 96.0      | 96.0      | 96.1      | 96.1    |
| GE 400                | 83.4                        | 85.8    | 88.7    | 91.9    | 95.6    | 96.1        | 97.1    | 97.2        | 97.3        | 97.6    | 97.6      | 97.6      | 97.7      | 97.7      | 97.8      | 97.8    |
| GE 300                | 83.4                        | 85.8    | 88.7    | 92.0    | 96.0    | 96.8        | 97.8    | 97.9        | 98.0        | 98.2    | 98.2      | 98.2      | 98.3      | 98.3      | 98.4      | 98.7    |
| GE 200                | 83.4                        | 85.8    | 88.7    | 92.0    | 96.1    | 97.1        | 98.3    | 98.4        | 98.6        | 98.8    | 98.8      | 98.8      | 99.0      | 99.0      | 99.1      | 99.3    |
| GE 100                | 83.4                        | 85.8    | 88.7    | 92.0    | 96.1    | 97.1        | 98.3    | 98.4        | 98.6        | 98.8    | 98.8      | 98.8      | 99.0      | 99.0      | 99.1      | 99.3    |
| GE 000                | 83.4                        | 85.8    | 88.7    | 92.0    | 96.1    | 97.1        | 98.3    | 98.4        | 98.6        | 98.8    | 98.8      | 98.8      | 99.0      | 99.0      | 99.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 45.2                        | 50.3    | 55.6    | 57.7    | 59.7    | 60.1        | 60.2    | 60.3        | 60.4        | 60.6    | 60.6      | 60.6      | 60.7      | 60.7      | 60.7      | 60.7    |
| GE 20000              | 49.7                        | 55.2    | 61.4    | 63.9    | 66.3    | 66.9        | 67.0    | 67.1        | 67.2        | 67.3    | 67.3      | 67.3      | 67.7      | 67.8      | 67.8      | 67.8    |
| GE 18000              | 49.7                        | 55.2    | 61.4    | 63.9    | 66.3    | 66.9        | 67.0    | 67.1        | 67.2        | 67.3    | 67.3      | 67.3      | 67.7      | 67.8      | 67.8      | 67.8    |
| GE 16000              | 49.7                        | 55.2    | 61.4    | 63.9    | 66.3    | 66.9        | 67.0    | 67.1        | 67.2        | 67.3    | 67.3      | 67.3      | 67.7      | 67.8      | 67.8      | 67.8    |
| GE 14000              | 50.8                        | 56.3    | 62.6    | 65.0    | 67.4    | 68.0        | 68.1    | 68.2        | 68.3        | 68.4    | 68.4      | 68.4      | 68.8      | 68.9      | 68.9      | 68.9    |
| GE 12000              | 51.7                        | 57.3    | 64.0    | 66.4    | 69.1    | 69.7        | 69.8    | 69.9        | 70.0        | 70.1    | 70.1      | 70.1      | 70.6      | 70.7      | 70.8      | 70.8    |
| GE 10000              | 53.8                        | 59.6    | 66.4    | 69.2    | 72.1    | 72.7        | 72.8    | 72.9        | 73.0        | 73.2    | 73.2      | 73.2      | 73.7      | 73.8      | 73.9      | 73.9    |
| GE 9000               | 54.1                        | 59.9    | 66.8    | 69.6    | 72.4    | 73.0        | 73.1    | 73.2        | 73.3        | 73.6    | 73.6      | 73.6      | 74.0      | 74.1      | 74.2      | 74.2    |
| GE 8000               | 56.6                        | 62.7    | 69.9    | 72.8    | 75.8    | 76.3        | 76.4    | 76.7        | 76.8        | 77.0    | 77.0      | 77.0      | 77.4      | 77.6      | 77.7      | 77.7    |
| GE 7000               | 56.8                        | 62.9    | 70.4    | 73.3    | 76.3    | 76.9        | 77.0    | 77.2        | 77.3        | 77.6    | 77.6      | 77.6      | 78.0      | 78.1      | 78.2      | 78.2    |
| GE 6000               | 57.1                        | 63.3    | 71.0    | 73.9    | 76.9    | 77.4        | 77.6    | 77.8        | 77.9        | 78.1    | 78.1      | 78.1      | 78.6      | 78.7      | 78.8      | 78.8    |
| GE 5000               | 58.9                        | 65.6    | 73.7    | 76.6    | 79.7    | 80.2        | 80.6    | 80.8        | 80.9        | 81.1    | 81.1      | 81.1      | 81.6      | 81.7      | 81.8      | 81.8    |
| GE 4500               | 59.2                        | 66.1    | 74.2    | 77.2    | 80.4    | 81.0        | 81.3    | 81.6        | 81.7        | 81.9    | 81.9      | 81.9      | 82.3      | 82.4      | 82.6      | 82.6    |
| GE 4000               | 59.7                        | 66.7    | 74.9    | 78.1    | 81.6    | 82.1        | 82.4    | 82.7        | 82.8        | 83.0    | 83.0      | 83.0      | 83.4      | 83.6      | 83.7      | 83.7    |
| GE 3500               | 60.0                        | 67.0    | 75.2    | 78.4    | 81.9    | 82.4        | 82.8    | 83.0        | 83.1        | 83.3    | 83.3      | 83.3      | 83.8      | 83.9      | 84.0      | 84.0    |
| GE 3000               | 60.4                        | 67.6    | 75.8    | 79.3    | 83.0    | 83.6        | 83.9    | 84.1        | 84.3        | 84.6    | 84.6      | 84.6      | 85.1      | 85.2      | 85.3      | 85.3    |
| GE 2500               | 60.9                        | 68.0    | 76.2    | 79.9    | 83.6    | 84.1        | 84.4    | 84.7        | 84.9        | 85.1    | 85.1      | 85.1      | 85.7      | 85.8      | 85.9      | 85.9    |
| GE 2000               | 62.1                        | 69.4    | 77.7    | 81.6    | 85.6    | 86.2        | 86.6    | 86.8        | 87.0        | 87.2    | 87.2      | 87.2      | 87.8      | 87.9      | 88.0      | 88.0    |
| GE 1800               | 62.2                        | 69.6    | 77.8    | 81.7    | 85.7    | 86.3        | 86.7    | 86.9        | 87.1        | 87.3    | 87.3      | 87.3      | 87.9      | 88.0      | 88.1      | 88.1    |
| GE 1500               | 62.4                        | 69.9    | 78.2    | 82.1    | 86.6    | 87.3        | 87.7    | 87.9        | 88.1        | 88.3    | 88.3      | 88.3      | 88.9      | 89.0      | 89.1      | 89.1    |
| GE 1200               | 62.8                        | 70.3    | 79.0    | 83.0    | 87.4    | 88.4        | 88.8    | 89.0        | 89.2        | 89.4    | 89.4      | 89.4      | 90.0      | 90.1      | 90.2      | 90.2    |
| GE 1000               | 63.0                        | 70.6    | 79.4    | 83.7    | 88.2    | 89.2        | 89.6    | 89.8        | 90.0        | 90.2    | 90.2      | 90.2      | 90.8      | 90.9      | 91.0      | 91.0    |
| GE 900                | 63.0                        | 70.6    | 80.1    | 84.6    | 89.2    | 90.3        | 90.8    | 91.0        | 91.2        | 91.4    | 91.4      | 91.4      | 92.0      | 92.1      | 92.2      | 92.2    |
| GE 800                | 63.2                        | 70.8    | 80.7    | 85.4    | 90.1    | 91.2        | 92.0    | 92.2        | 92.4        | 92.7    | 92.7      | 92.7      | 93.2      | 93.3      | 93.4      | 93.4    |
| GE 700                | 63.2                        | 70.8    | 80.8    | 85.7    | 90.3    | 91.6        | 92.4    | 92.9        | 93.1        | 93.3    | 93.3      | 93.3      | 93.9      | 94.0      | 94.1      | 94.1    |
| GE 600                | 63.2                        | 70.8    | 81.0    | 86.1    | 91.1    | 92.4        | 93.7    | 94.1        | 94.3        | 94.6    | 94.6      | 94.6      | 95.1      | 95.2      | 95.3      | 95.3    |
| GE 500                | 63.2                        | 70.9    | 81.1    | 86.3    | 91.7    | 93.2        | 94.4    | 95.0        | 95.2        | 95.4    | 95.4      | 95.4      | 96.0      | 96.1      | 96.2      | 96.2    |
| GE 400                | 63.2                        | 71.1    | 81.3    | 86.8    | 92.6    | 94.2        | 95.7    | 96.3        | 96.6        | 96.8    | 96.8      | 96.8      | 97.3      | 97.4      | 97.6      | 97.6    |
| GE 300                | 63.2                        | 71.1    | 81.3    | 86.9    | 92.7    | 94.3        | 96.0    | 96.7        | 96.9        | 97.2    | 97.4      | 97.4      | 98.0      | 98.1      | 98.2      | 98.2    |
| GE 200                | 63.2                        | 71.1    | 81.3    | 86.9    | 92.7    | 94.4        | 96.3    | 97.0        | 97.2        | 97.7    | 98.0      | 98.0      | 98.6      | 98.7      | 98.9      | 99.1    |
| GE 100                | 63.2                        | 71.1    | 81.3    | 86.9    | 92.7    | 94.4        | 96.3    | 97.0        | 97.2        | 97.7    | 98.0      | 98.0      | 98.7      | 98.8      | 99.1      | 99.6    |
| GE 000                | 63.2                        | 71.1    | 81.3    | 86.9    | 92.7    | 94.4        | 96.3    | 97.0        | 97.2        | 97.7    | 98.0      | 98.0      | 98.7      | 98.8      | 99.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN-STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 56.6                        | 58.8    | 61.0    | 61.1    | 61.1    | 61.1        | 61.1    | 61.1        | 61.1        | 61.1    | 61.1      | 61.1      | 61.1      | 61.1      | 61.1      | 61.1    |
| GE 20000              | 63.3                        | 66.6    | 69.0    | 69.1    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 18000              | 63.3                        | 66.6    | 69.0    | 69.1    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 16000              | 63.3                        | 66.6    | 69.0    | 69.1    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 14000              | 64.2                        | 67.4    | 69.9    | 70.0    | 70.0    | 70.0        | 70.0    | 70.0        | 70.0        | 70.0    | 70.0      | 70.0      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 12000              | 65.8                        | 69.3    | 72.2    | 72.3    | 72.3    | 72.3        | 72.3    | 72.3        | 72.3        | 72.3    | 72.3      | 72.3      | 72.3      | 72.3      | 72.3      | 72.3    |
| GE 10000              | 68.4                        | 72.1    | 75.3    | 75.4    | 75.4    | 75.4        | 75.4    | 75.4        | 75.4        | 75.4    | 75.4      | 75.4      | 75.4      | 75.4      | 75.4      | 75.4    |
| GE 9000               | 68.8                        | 72.4    | 75.7    | 75.8    | 75.8    | 75.8        | 75.8    | 75.8        | 75.8        | 75.8    | 75.8      | 75.8      | 75.8      | 75.8      | 75.8      | 75.8    |
| GE 8000               | 70.7                        | 75.0    | 78.4    | 78.9    | 78.9    | 79.0        | 79.0    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 7000               | 70.9                        | 75.3    | 78.8    | 79.3    | 79.4    | 79.6        | 79.6    | 79.6        | 79.6        | 79.6    | 79.6      | 79.6      | 79.6      | 79.6      | 79.6      | 79.6    |
| GE 6000               | 71.2                        | 75.7    | 79.2    | 79.9    | 80.1    | 80.2        | 80.3    | 80.3        | 80.3        | 80.3    | 80.3      | 80.3      | 80.3      | 80.3      | 80.3      | 80.3    |
| GE 5000               | 71.7                        | 76.1    | 80.0    | 80.8    | 81.2    | 81.3        | 81.4    | 81.4        | 81.4        | 81.4    | 81.4      | 81.4      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 4500               | 72.4                        | 76.9    | 80.9    | 81.9    | 82.3    | 82.4        | 82.6    | 82.6        | 82.6        | 82.6    | 82.6      | 82.6      | 82.6      | 82.6      | 82.6      | 82.6    |
| GE 4000               | 74.0                        | 78.7    | 82.9    | 84.1    | 84.8    | 84.9        | 85.0    | 85.0        | 85.0        | 85.0    | 85.0      | 85.0      | 85.0      | 85.0      | 85.0      | 85.0    |
| GE 3500               | 74.9                        | 79.6    | 83.8    | 85.0    | 85.8    | 85.9        | 86.0    | 86.0        | 86.0        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 3000               | 76.7                        | 81.3    | 85.7    | 87.0    | 87.9    | 88.2        | 88.3    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.3      | 88.3      | 88.3      | 88.3    |
| GE 2500               | 77.6                        | 82.3    | 86.7    | 88.1    | 89.1    | 89.4        | 89.7    | 89.7        | 89.7        | 89.7    | 89.7      | 89.7      | 89.7      | 89.7      | 89.7      | 89.7    |
| GE 2000               | 78.4                        | 83.3    | 87.7    | 89.1    | 90.2    | 90.6        | 90.8    | 90.8        | 90.8        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 1800               | 79.0                        | 83.9    | 88.3    | 89.8    | 90.9    | 91.2        | 91.4    | 91.4        | 91.4        | 91.4    | 91.4      | 91.4      | 91.4      | 91.4      | 91.4      | 91.4    |
| GE 1500               | 79.6                        | 84.6    | 89.1    | 90.7    | 91.8    | 92.1        | 92.3    | 92.3        | 92.3        | 92.3    | 92.3      | 92.3      | 92.3      | 92.3      | 92.3      | 92.3    |
| GE 1200               | 80.1                        | 85.4    | 90.2    | 92.4    | 93.8    | 94.1        | 94.4    | 94.4        | 94.4        | 94.4    | 94.4      | 94.4      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 1000               | 80.6                        | 86.1    | 90.9    | 93.2    | 94.6    | 94.9        | 95.2    | 95.2        | 95.2        | 95.2    | 95.2      | 95.2      | 95.2      | 95.2      | 95.2      | 95.2    |
| GE 900                | 80.6                        | 86.3    | 91.1    | 93.4    | 95.0    | 95.4        | 95.8    | 95.8        | 95.8        | 95.8    | 95.8      | 95.8      | 95.8      | 95.8      | 95.8      | 95.8    |
| GE 800                | 80.9                        | 86.8    | 91.6    | 94.0    | 95.7    | 96.1        | 96.4    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 700                | 80.9                        | 86.8    | 91.7    | 94.3    | 96.3    | 96.8        | 97.1    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 600                | 1.1                         | 87.0    | 91.9    | 94.7    | 96.9    | 97.3        | 97.8    | 97.9        | 97.9        | 97.9    | 97.9      | 97.9      | 97.9      | 97.9      | 97.9      | 97.9    |
| GE 500                | 81.1                        | 87.0    | 91.9    | 94.9    | 97.2    | 97.7        | 98.3    | 98.4        | 98.4        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 400                | 81.1                        | 87.0    | 91.9    | 95.1    | 97.4    | 98.0        | 98.7    | 98.8        | 98.8        | 99.0    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 300                | 81.1                        | 87.0    | 91.9    | 95.3    | 97.8    | 98.3        | 99.1    | 99.2        | 99.2        | 99.7    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                | 81.1                        | 87.0    | 91.9    | 95.3    | 97.8    | 98.3        | 99.1    | 99.2        | 99.2        | 99.7    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 100                | 81.1                        | 87.0    | 91.9    | 95.3    | 97.8    | 98.3        | 99.1    | 99.2        | 99.2        | 99.7    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 100.0   |
| GE 000                | 81.1                        | 87.0    | 91.9    | 95.3    | 97.8    | 98.3        | 99.1    | 99.2        | 99.2        | 99.7    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 56.9                        | 57.8    | 58.4    | 59.0    | 59.0    | 59.0        | 59.0    | 59.0        | 59.0        | 59.0    | 59.0      | 59.0      | 59.0      | 59.0      | 59.0      | 59.0    |
| GE 20000              | 65.2                        | 66.2    | 67.1    | 67.8    | 67.8    | 67.8        | 67.8    | 67.8        | 67.8        | 67.8    | 67.8      | 67.8      | 67.8      | 67.8      | 67.8      | 67.8    |
| GE 18000              | 65.4                        | 66.4    | 67.3    | 68.0    | 68.0    | 68.0        | 68.0    | 68.0        | 68.0        | 68.0    | 68.0      | 68.0      | 68.0      | 68.0      | 68.0      | 68.0    |
| GE 16000              | 65.4                        | 66.4    | 67.3    | 68.0    | 68.0    | 68.0        | 68.0    | 68.0        | 68.0        | 68.0    | 68.0      | 68.0      | 68.0      | 68.0      | 68.0      | 68.0    |
| GE 14000              | 66.1                        | 67.1    | 68.0    | 68.7    | 68.7    | 68.7        | 68.7    | 68.7        | 68.7        | 68.7    | 68.7      | 68.7      | 68.7      | 68.7      | 68.7      | 68.7    |
| GE 12000              | 67.9                        | 69.2    | 70.1    | 70.8    | 70.8    | 70.8        | 70.8    | 70.8        | 70.8        | 70.8    | 70.8      | 70.8      | 70.8      | 70.8      | 70.8      | 70.8    |
| GE 10000              | 70.7                        | 72.1    | 73.0    | 73.7    | 73.7    | 73.7        | 73.7    | 73.7        | 73.7        | 73.7    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.7    |
| GE 9000               | 71.2                        | 72.7    | 73.6    | 74.2    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 8000               | 74.3                        | 76.1    | 77.0    | 78.0    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 7000               | 74.7                        | 76.4    | 77.3    | 78.4    | 78.4    | 78.4        | 78.4    | 78.4        | 78.4        | 78.4    | 78.4      | 78.4      | 78.4      | 78.4      | 78.4      | 78.4    |
| GE 6000               | 75.2                        | 77.0    | 77.9    | 79.2    | 79.2    | 79.2        | 79.2    | 79.2        | 79.2        | 79.2    | 79.2      | 79.2      | 79.2      | 79.2      | 79.2      | 79.2    |
| GE 5000               | 76.3                        | 78.1    | 79.0    | 80.4    | 80.4    | 80.4        | 80.4    | 80.4        | 80.4        | 80.4    | 80.4      | 80.4      | 80.4      | 80.4      | 80.4      | 80.4    |
| GE 4500               | 77.3                        | 79.1    | 80.0    | 81.4    | 81.4    | 81.4        | 81.4    | 81.4        | 81.4        | 81.4    | 81.4      | 81.4      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 4000               | 80.6                        | 82.6    | 83.7    | 85.4    | 85.6    | 85.6        | 85.6    | 85.6        | 85.6        | 85.6    | 85.6      | 85.6      | 85.6      | 85.6      | 85.6      | 85.6    |
| GE 3500               | 82.7                        | 85.2    | 86.6    | 88.3    | 88.4    | 88.4        | 88.4    | 88.4        | 88.4        | 88.4    | 88.4      | 88.4      | 88.4      | 88.4      | 88.4      | 88.4    |
| GE 3000               | 85.1                        | 87.9    | 89.2    | 91.0    | 91.1    | 91.1        | 91.1    | 91.1        | 91.1        | 91.1    | 91.1      | 91.1      | 91.1      | 91.1      | 91.1      | 91.1    |
| GE 2500               | 86.1                        | 89.1    | 90.9    | 92.9    | 93.0    | 93.0        | 93.0    | 93.0        | 93.0        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 2000               | 87.7                        | 90.7    | 92.9    | 94.9    | 95.1    | 95.1        | 95.1    | 95.1        | 95.1        | 95.1    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 1800               | 87.9                        | 90.9    | 93.2    | 95.3    | 95.6    | 95.6        | 95.6    | 95.6        | 95.6        | 95.6    | 95.6      | 95.6      | 95.6      | 95.6      | 95.6      | 95.6    |
| GE 1500               | 88.1                        | 91.2    | 93.8    | 96.2    | 96.4    | 96.4        | 96.4    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 1200               | 88.3                        | 91.8    | 94.4    | 96.9    | 97.2    | 97.2        | 97.2    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 1000               | 88.7                        | 92.1    | 95.0    | 97.6    | 97.9    | 97.9        | 97.9    | 97.9        | 97.9        | 97.9    | 97.9      | 97.9      | 97.9      | 97.9      | 97.9      | 97.9    |
| GE 900                | 88.8                        | 92.2    | 95.1    | 97.7    | 98.2    | 98.2        | 98.2    | 98.2        | 98.2        | 98.2    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 800                | 88.8                        | 92.2    | 95.2    | 98.0    | 98.7    | 98.7        | 98.7    | 98.7        | 98.7        | 98.7    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 700                | 88.8                        | 92.2    | 95.2    | 98.0    | 98.8    | 98.8        | 98.8    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 600                | 88.8                        | 92.2    | 95.2    | 98.0    | 99.0    | 99.1        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 500                | 88.8                        | 92.2    | 95.2    | 98.1    | 99.3    | 99.6        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 400                | 88.8                        | 92.2    | 95.2    | 98.2    | 99.6    | 99.8        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 88.8                        | 92.2    | 95.2    | 98.2    | 99.7    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 200                | 88.8                        | 92.2    | 95.2    | 98.2    | 99.7    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 100                | 88.8                        | 92.2    | 95.2    | 98.2    | 99.7    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 000                | 88.8                        | 92.2    | 95.2    | 98.2    | 99.7    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 56.3                        | 56.9    | 57.7    | 58.0    | 58.0    | 58.0        | 58.0    | 58.0        | 58.0        | 58.0    | 58.0      | 58.0      | 58.0      | 58.0      | 58.0      | 58.0    |
| GE 20000              | 66.1                        | 67.1    | 68.0    | 68.4    | 68.4    | 68.4        | 68.4    | 68.4        | 68.4        | 68.4    | 68.4      | 68.4      | 68.4      | 68.4      | 68.4      | 68.4    |
| GE 18000              | 66.2                        | 67.2    | 68.1    | 68.6    | 68.6    | 68.6        | 68.6    | 68.6        | 68.6        | 68.6    | 68.6      | 68.6      | 68.6      | 68.6      | 68.6      | 68.6    |
| GE 16000              | 66.2                        | 67.2    | 68.1    | 68.6    | 68.6    | 68.6        | 68.6    | 68.6        | 68.6        | 68.6    | 68.6      | 68.6      | 68.6      | 68.6      | 68.6      | 68.6    |
| GE 14000              | 67.1                        | 68.1    | 69.0    | 69.4    | 69.4    | 69.4        | 69.4    | 69.4        | 69.4        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.4      | 69.4    |
| GE 12000              | 68.2                        | 69.4    | 70.3    | 70.8    | 70.8    | 70.8        | 70.8    | 70.8        | 70.8        | 70.8    | 70.8      | 70.8      | 70.8      | 70.8      | 70.8      | 70.8    |
| GE 10000              | 71.4                        | 72.8    | 73.8    | 74.2    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 9000               | 72.1                        | 73.4    | 74.4    | 74.9    | 74.9    | 74.9        | 74.9    | 74.9        | 74.9        | 74.9    | 74.9      | 74.9      | 74.9      | 74.9      | 74.9      | 74.9    |
| GE 8000               | 75.4                        | 77.0    | 78.0    | 78.4    | 78.4    | 78.4        | 78.4    | 78.4        | 78.4        | 78.4    | 78.4      | 78.4      | 78.4      | 78.4      | 78.4      | 78.4    |
| GE 7000               | 76.0                        | 77.6    | 78.6    | 79.0    | 79.0    | 79.0        | 79.0    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 6000               | 77.6                        | 79.2    | 80.2    | 80.7    | 80.7    | 80.7        | 80.7    | 80.7        | 80.7        | 80.7    | 80.7      | 80.7      | 80.7      | 80.7      | 80.7      | 80.7    |
| GE 5000               | 79.4                        | 81.4    | 82.6    | 83.0    | 83.2    | 83.2        | 83.2    | 83.2        | 83.2        | 83.2    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.2    |
| GE 4500               | 80.8                        | 82.8    | 84.0    | 84.4    | 84.7    | 84.7        | 84.7    | 84.7        | 84.7        | 84.7    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.7    |
| GE 4000               | 82.9                        | 85.1    | 86.7    | 87.4    | 88.2    | 88.2        | 88.2    | 88.2        | 88.2        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 3500               | 84.4                        | 87.0    | 88.7    | 89.4    | 90.4    | 90.4        | 90.4    | 90.4        | 90.4        | 90.4    | 90.4      | 90.4      | 90.4      | 90.4      | 90.4      | 90.4    |
| GE 3000               | 86.3                        | 89.0    | 90.8    | 91.9    | 93.0    | 93.1        | 93.1    | 93.1        | 93.1        | 93.1    | 93.1      | 93.1      | 93.1      | 93.1      | 93.1      | 93.1    |
| GE 2500               | 87.7                        | 90.3    | 92.6    | 93.7    | 94.8    | 94.9        | 94.9    | 94.9        | 94.9        | 95.1    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 2000               | 89.0                        | 91.7    | 93.9    | 95.2    | 96.4    | 96.8        | 96.9    | 96.9        | 96.9        | 97.1    | 97.1      | 97.1      | 97.1      | 97.1      | 97.1      | 97.1    |
| GE 1800               | 89.0                        | 91.7    | 93.9    | 95.2    | 96.4    | 96.8        | 96.9    | 96.9        | 96.9        | 97.1    | 97.1      | 97.1      | 97.1      | 97.1      | 97.1      | 97.1    |
| GE 1500               | 89.1                        | 91.8    | 94.1    | 95.4    | 96.7    | 97.0        | 97.1    | 97.1        | 97.1        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 1200               | 89.4                        | 92.1    | 94.7    | 96.0    | 97.3    | 97.8        | 97.9    | 97.9        | 97.9        | 98.1    | 98.1      | 98.1      | 98.1      | 98.1      | 98.1      | 98.1    |
| GE 1000               | 89.6                        | 92.2    | 94.9    | 96.2    | 97.6    | 98.1        | 98.2    | 98.2        | 98.2        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 900                | 89.6                        | 92.2    | 94.9    | 96.2    | 98.0    | 98.6        | 98.7    | 98.7        | 98.7        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 800                | 89.6                        | 92.2    | 94.9    | 96.3    | 98.1    | 98.7        | 98.8    | 98.8        | 98.8        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 700                | 89.6                        | 92.2    | 94.9    | 96.4    | 98.3    | 99.0        | 99.2    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 600                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.4    | 99.4        | 99.4        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 500                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 400                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 300                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 200                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 100                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |
| GE 000                | 89.6                        | 92.2    | 94.9    | 96.7    | 98.6    | 99.2        | 99.6    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 99.9      | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 59.8                        | 60.6    | 61.8    | 62.0    | 62.0    | 62.0        | 62.0    | 62.0        | 62.0        | 62.0    | 62.0      | 62.0      | 62.0      | 62.0      | 62.0      | 62.0    |
| GE 20000              | 69.1                        | 70.2    | 71.6    | 71.9    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 18000              | 69.2                        | 70.3    | 71.7    | 72.0    | 72.0    | 72.0        | 72.0    | 72.0        | 72.0        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.0      | 72.0    |
| GE 16000              | 69.2                        | 70.3    | 71.7    | 72.0    | 72.0    | 72.0        | 72.0    | 72.0        | 72.0        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.0      | 72.0    |
| GE 14000              | 69.9                        | 71.0    | 72.3    | 72.7    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 12000              | 71.1                        | 72.3    | 73.7    | 74.0    | 74.0    | 74.0        | 74.0    | 74.0        | 74.0        | 74.0    | 74.0      | 74.0      | 74.0      | 74.0      | 74.0      | 74.0    |
| GE 10000              | 73.8                        | 75.1    | 76.4    | 76.9    | 76.9    | 76.9        | 76.9    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 9000               | 74.3                        | 75.8    | 77.1    | 77.6    | 77.6    | 77.6        | 77.6    | 77.6        | 77.6        | 77.6    | 77.6      | 77.6      | 77.6      | 77.6      | 77.6      | 77.6    |
| GE 8000               | 77.6                        | 79.2    | 81.1    | 81.7    | 81.7    | 81.7        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 7000               | 78.2                        | 80.0    | 82.0    | 82.6    | 82.6    | 82.6        | 82.6    | 82.6        | 82.6        | 82.6    | 82.6      | 82.6      | 82.6      | 82.6      | 82.6      | 82.6    |
| GE 6000               | 78.9                        | 81.2    | 83.3    | 83.9    | 83.9    | 83.9        | 83.9    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 83.9    |
| GE 5000               | 81.0                        | 83.4    | 85.9    | 86.6    | 86.7    | 86.7        | 86.7    | 86.7        | 86.7        | 86.7    | 86.7      | 86.7      | 86.7      | 86.7      | 86.7      | 86.7    |
| GE 4500               | 82.1                        | 84.6    | 87.0    | 87.7    | 87.8    | 87.8        | 87.8    | 87.8        | 87.8        | 87.8    | 87.8      | 87.8      | 87.8      | 87.8      | 87.8      | 87.8    |
| GE 4000               | 84.0                        | 86.4    | 89.1    | 90.0    | 90.3    | 90.3        | 90.3    | 90.3        | 90.3        | 90.3    | 90.3      | 90.3      | 90.3      | 90.3      | 90.3      | 90.3    |
| GE 3500               | 84.6                        | 87.0    | 89.8    | 90.8    | 91.2    | 91.2        | 91.2    | 91.2        | 91.2        | 91.2    | 91.2      | 91.2      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 3000               | 85.4                        | 88.3    | 91.8    | 93.0    | 93.7    | 93.7        | 93.7    | 93.7        | 93.7        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 2500               | 85.9                        | 88.8    | 92.2    | 93.6    | 94.3    | 94.3        | 94.3    | 94.3        | 94.3        | 94.3    | 94.3      | 94.3      | 94.3      | 94.3      | 94.3      | 94.3    |
| GE 2000               | 86.7                        | 89.7    | 93.2    | 94.7    | 95.4    | 95.6        | 95.8    | 95.8        | 95.8        | 95.8    | 95.8      | 95.8      | 95.8      | 95.8      | 95.8      | 95.8    |
| GE 1800               | 86.7                        | 89.7    | 93.2    | 94.7    | 95.4    | 95.6        | 95.8    | 95.8        | 95.8        | 95.8    | 95.8      | 95.8      | 95.8      | 95.8      | 95.8      | 95.8    |
| GE 1500               | 86.9                        | 89.9    | 93.6    | 95.1    | 95.9    | 96.1        | 96.4    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 1200               | 87.4                        | 90.4    | 94.1    | 95.8    | 96.7    | 97.2        | 97.6    | 97.6        | 97.6        | 97.6    | 97.6      | 97.6      | 97.6      | 97.6      | 97.6      | 97.6    |
| GE 1000               | 87.6                        | 90.6    | 94.2    | 96.1    | 97.1    | 97.7        | 98.0    | 98.0        | 98.0        | 98.0    | 98.0      | 98.0      | 98.0      | 98.0      | 98.0      | 98.0    |
| GE 900                | 87.7                        | 90.7    | 94.4    | 96.4    | 97.4    | 98.0        | 98.3    | 98.3        | 98.3        | 98.3    | 98.3      | 98.3      | 98.3      | 98.3      | 98.3      | 98.3    |
| GE 800                | 87.8                        | 90.8    | 94.6    | 96.7    | 97.7    | 98.2        | 98.6    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 700                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.0    | 98.6        | 99.0    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 600                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.2    | 98.8        | 99.3    | 99.3        | 99.3        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 500                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.2    | 99.2        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 400                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.3    | 99.3        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.3    | 99.3        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.3    | 99.3        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.3    | 99.3        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 87.8                        | 90.8    | 94.6    | 96.9    | 98.3    | 99.3        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: 21-23

| CEILING<br>IN<br>FEET. | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|------------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                        | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL                | 66.3                        | 67.0    | 67.4    | 67.6    | 67.6    | 67.6        | 67.6    | 67.6        | 67.6        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.6      | 67.6    |
| GE 20000               | 72.9                        | 73.6    | 74.1    | 74.2    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 18000               | 72.9                        | 73.6    | 74.1    | 74.2    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 16000               | 72.9                        | 73.6    | 74.1    | 74.2    | 74.2    | 74.2        | 74.2    | 74.2        | 74.2        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.2    |
| GE 14000               | 73.8                        | 74.4    | 75.0    | 75.1    | 75.1    | 75.1        | 75.1    | 75.1        | 75.1        | 75.1    | 75.1      | 75.1      | 75.1      | 75.1      | 75.1      | 75.1    |
| GE 12000               | 74.8                        | 75.4    | 76.0    | 76.1    | 76.1    | 76.1        | 76.1    | 76.1        | 76.1        | 76.1    | 76.1      | 76.1      | 76.1      | 76.1      | 76.1      | 76.1    |
| GE 10000               | 78.9                        | 79.7    | 80.7    | 80.8    | 80.8    | 80.8        | 80.8    | 80.8        | 80.8        | 80.8    | 80.8      | 80.8      | 80.8      | 80.8      | 80.8      | 80.8    |
| GE 9000                | 79.4                        | 80.2    | 81.2    | 81.3    | 81.3    | 81.3        | 81.3    | 81.3        | 81.3        | 81.3    | 81.3      | 81.3      | 81.3      | 81.3      | 81.3      | 81.3    |
| GE 8000                | 83.0                        | 83.9    | 85.1    | 85.3    | 85.4    | 85.4        | 85.4    | 85.4        | 85.4        | 85.4    | 85.4      | 85.4      | 85.4      | 85.4      | 85.4      | 85.4    |
| GE 7000                | 83.9                        | 84.8    | 86.0    | 86.2    | 86.3    | 86.3        | 86.3    | 86.3        | 86.3        | 86.3    | 86.3      | 86.3      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 6000                | 84.4                        | 85.3    | 86.7    | 86.9    | 87.0    | 87.0        | 87.0    | 87.0        | 87.0        | 87.0    | 87.0      | 87.0      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 5000                | 85.9                        | 86.8    | 88.1    | 88.3    | 88.4    | 88.4        | 88.4    | 88.4        | 88.4        | 88.4    | 88.4      | 88.4      | 88.4      | 88.4      | 88.4      | 88.4    |
| GE 4500                | 86.7                        | 87.6    | 88.9    | 89.1    | 89.2    | 89.2        | 89.2    | 89.2        | 89.2        | 89.2    | 89.2      | 89.2      | 89.2      | 89.2      | 89.2      | 89.2    |
| GE 4000                | 88.2                        | 89.3    | 90.7    | 90.9    | 91.0    | 91.0        | 91.0    | 91.0        | 91.0        | 91.0    | 91.0      | 91.0      | 91.0      | 91.0      | 91.0      | 91.0    |
| GE 3500                | 88.9                        | 90.0    | 91.3    | 91.6    | 91.7    | 91.7        | 91.7    | 91.7        | 91.7        | 91.7    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 3000                | 89.6                        | 90.8    | 92.2    | 92.4    | 92.6    | 92.6        | 92.6    | 92.6        | 92.6        | 92.6    | 92.6      | 92.6      | 92.6      | 92.6      | 92.6      | 92.6    |
| GE 2500                | 90.2                        | 91.6    | 93.0    | 93.2    | 93.4    | 93.4        | 93.4    | 93.4        | 93.4        | 93.4    | 93.4      | 93.4      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 2000                | 90.9                        | 92.2    | 93.8    | 94.0    | 94.2    | 94.2        | 94.2    | 94.2        | 94.2        | 94.2    | 94.2      | 94.2      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 1800                | 91.0                        | 92.6    | 94.1    | 94.6    | 94.8    | 94.8        | 94.8    | 94.8        | 94.8        | 94.8    | 94.8      | 94.8      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 1500                | 91.0                        | 92.6    | 94.1    | 94.7    | 94.9    | 94.9        | 94.9    | 94.9        | 94.9        | 94.9    | 94.9      | 94.9      | 94.9      | 94.9      | 94.9      | 94.9    |
| GE 1200                | 91.2                        | 92.8    | 94.4    | 95.0    | 95.4    | 95.4        | 95.4    | 95.4        | 95.4        | 95.4    | 95.4      | 95.4      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 1000                | 91.2                        | 92.8    | 94.4    | 95.1    | 95.7    | 95.7        | 95.7    | 95.7        | 95.7        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 900                 | 91.2                        | 92.8    | 94.7    | 95.3    | 95.9    | 95.9        | 95.9    | 95.9        | 95.9        | 95.9    | 95.9      | 95.9      | 95.9      | 95.9      | 95.9      | 95.9    |
| GE 800                 | 91.7                        | 93.2    | 95.3    | 96.1    | 97.0    | 97.0        | 97.0    | 97.0        | 97.0        | 97.0    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 700                 | 91.7                        | 93.3    | 95.6    | 96.6    | 97.7    | 97.7        | 97.7    | 97.7        | 97.7        | 97.7    | 97.7      | 97.7      | 97.7      | 97.7      | 97.7      | 97.7    |
| GE 600                 | 91.7                        | 93.3    | 95.6    | 96.9    | 98.2    | 98.3        | 98.3    | 98.3        | 98.3        | 98.3    | 98.3      | 98.3      | 98.3      | 98.3      | 98.3      | 98.3    |
| GE 500                 | 91.8                        | 93.4    | 95.7    | 97.3    | 98.8    | 99.0        | 99.0    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 400                 | 91.8                        | 93.4    | 95.7    | 97.3    | 98.8    | 99.2        | 99.4    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 300                 | 91.8                        | 93.4    | 95.9    | 97.6    | 99.0    | 99.4        | 99.8    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                 | 91.8                        | 93.4    | 95.9    | 97.6    | 99.0    | 99.4        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                 | 91.8                        | 93.4    | 95.9    | 97.6    | 99.0    | 99.4        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                 | 91.8                        | 93.4    | 95.9    | 97.6    | 99.0    | 99.4        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 60.3    | 61.9    | 62.5    | 62.8    | 62.9        | 63.0    | 63.0        | 63.0        | 63.0    | 63.0      | 63.0      | 63.0      | 63.0      | 63.0      | 63.0    |
| GE 20000              | 65.7                        | 67.5    | 69.3    | 70.0    | 70.4    | 70.5        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.7      | 70.7      | 70.7      | 70.7    |
| GE 18000              | 65.7                        | 67.6    | 69.4    | 70.1    | 70.5    | 70.6        | 70.6    | 70.7        | 70.7        | 70.7    | 70.7      | 70.7      | 70.8      | 70.8      | 70.8      | 70.8    |
| GE 16000              | 65.7                        | 67.6    | 69.4    | 70.1    | 70.5    | 70.6        | 70.7    | 70.7        | 70.7        | 70.7    | 70.7      | 70.7      | 70.8      | 70.8      | 70.8      | 70.8    |
| GE 14000              | 66.5                        | 68.4    | 70.2    | 70.9    | 71.3    | 71.4        | 71.4    | 71.5        | 71.5        | 71.5    | 71.5      | 71.5      | 71.6      | 71.6      | 71.6      | 71.6    |
| GE 12000              | 67.8                        | 69.8    | 71.8    | 72.4    | 72.9    | 73.0        | 73.0    | 73.0        | 73.1        | 73.1    | 73.1      | 73.1      | 73.2      | 73.2      | 73.2      | 73.2    |
| GE 10000              | 70.7                        | 72.9    | 75.0    | 75.7    | 76.2    | 76.3        | 76.4    | 76.4        | 76.4        | 76.4    | 76.4      | 76.4      | 76.5      | 76.5      | 76.5      | 76.5    |
| GE 9000               | 71.1                        | 73.3    | 75.4    | 76.2    | 76.6    | 76.8        | 76.8    | 76.8        | 76.8        | 76.9    | 76.9      | 76.9      | 76.9      | 77.0      | 77.0      | 77.0    |
| GE 8000               | 73.9                        | 76.3    | 78.6    | 79.5    | 80.0    | 80.2        | 80.2    | 80.2        | 80.3        | 80.3    | 80.3      | 80.3      | 80.4      | 80.4      | 80.4      | 80.4    |
| GE 7000               | 74.4                        | 76.8    | 79.2    | 80.1    | 80.6    | 80.8        | 80.8    | 80.8        | 80.9        | 80.9    | 80.9      | 80.9      | 81.0      | 81.0      | 81.0      | 81.0    |
| GE 6000               | 75.0                        | 77.6    | 79.9    | 80.9    | 81.5    | 81.6        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.8      | 81.8      | 81.8      | 81.8    |
| GE 5000               | 76.6                        | 79.3    | 81.9    | 82.9    | 83.6    | 83.7        | 83.8    | 83.8        | 83.8        | 83.9    | 83.9      | 83.9      | 83.9      | 84.0      | 84.0      | 84.0    |
| GE 4500               | 77.4                        | 80.1    | 82.7    | 83.8    | 84.5    | 84.6        | 84.7    | 84.7        | 84.8        | 84.8    | 84.8      | 84.8      | 84.9      | 84.9      | 84.9      | 84.9    |
| GE 4000               | 79.1                        | 81.9    | 84.8    | 86.0    | 86.8    | 87.0        | 87.1    | 87.1        | 87.1        | 87.2    | 87.2      | 87.2      | 87.2      | 87.3      | 87.3      | 87.3    |
| GE 3500               | 80.0                        | 82.9    | 85.8    | 87.1    | 88.0    | 88.1        | 88.2    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.4      | 88.4      | 88.4      | 88.4    |
| GE 3000               | 81.2                        | 84.3    | 87.4    | 88.8    | 89.8    | 90.0        | 90.1    | 90.1        | 90.2        | 90.2    | 90.2      | 90.2      | 90.3      | 90.3      | 90.3      | 90.3    |
| GE 2500               | 81.9                        | 85.1    | 88.3    | 89.8    | 90.8    | 91.0        | 91.2    | 91.2        | 91.2        | 91.3    | 91.3      | 91.3      | 91.4      | 91.4      | 91.4      | 91.4    |
| GE 2000               | 82.9                        | 86.2    | 89.5    | 91.1    | 92.2    | 92.5        | 92.7    | 92.7        | 92.7        | 92.8    | 92.8      | 92.8      | 92.9      | 92.9      | 92.9      | 92.9    |
| GE 1800               | 83.1                        | 86.4    | 89.7    | 91.3    | 92.4    | 92.7        | 92.9    | 92.9        | 93.0        | 93.0    | 93.0      | 93.0      | 93.1      | 93.2      | 93.2      | 93.2    |
| GE 1500               | 83.3                        | 86.7    | 90.1    | 91.8    | 93.0    | 93.3        | 93.5    | 93.5        | 93.6        | 93.6    | 93.6      | 93.6      | 93.7      | 93.7      | 93.8      | 93.8    |
| GE 1200               | 83.8                        | 87.2    | 90.8    | 92.6    | 93.9    | 94.3        | 94.5    | 94.6        | 94.6        | 94.7    | 94.7      | 94.7      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 1000               | 84.0                        | 87.5    | 91.1    | 93.1    | 94.5    | 94.9        | 95.2    | 95.2        | 95.2        | 95.3    | 95.3      | 95.3      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 900                | 84.1                        | 87.6    | 91.4    | 93.4    | 94.9    | 95.4        | 95.6    | 95.6        | 95.7        | 95.7    | 95.7      | 95.7      | 95.8      | 95.8      | 95.9      | 95.9    |
| GE 800                | 84.3                        | 87.8    | 91.8    | 94.0    | 95.6    | 96.1        | 96.4    | 96.4        | 96.4        | 96.5    | 96.5      | 96.5      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 700                | 84.3                        | 87.9    | 91.9    | 94.3    | 96.1    | 96.6        | 96.9    | 97.0        | 97.0        | 97.1    | 97.1      | 97.1      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 600                | 84.3                        | 88.0    | 92.0    | 94.6    | 96.6    | 97.1        | 97.5    | 97.6        | 97.6        | 97.7    | 97.7      | 97.7      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 500                | 84.4                        | 88.0    | 92.1    | 94.8    | 97.0    | 97.6        | 98.1    | 98.2        | 98.3        | 98.4    | 98.4      | 98.4      | 98.5      | 98.5      | 98.5      | 98.5    |
| GE 400                | 84.4                        | 88.0    | 92.2    | 95.0    | 97.4    | 98.1        | 98.6    | 98.8        | 98.8        | 98.9    | 99.0      | 99.0      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 300                | 84.4                        | 88.0    | 92.2    | 95.1    | 97.6    | 98.3        | 98.9    | 99.1        | 99.1        | 99.3    | 99.3      | 99.3      | 99.4      | 99.5      | 99.5      | 99.5    |
| GE 200                | 84.4                        | 88.0    | 92.2    | 95.1    | 97.6    | 98.4        | 99.0    | 99.2        | 99.2        | 99.4    | 99.5      | 99.5      | 99.6      | 99.7      | 99.7      | 99.8    |
| GE 100                | 84.4                        | 88.0    | 92.2    | 95.1    | 97.6    | 98.4        | 99.0    | 99.2        | 99.2        | 99.4    | 99.5      | 99.5      | 99.6      | 99.7      | 99.7      | 99.8    |
| GE 000                | 84.4                        | 88.0    | 92.2    | 95.1    | 97.6    | 98.4        | 99.0    | 99.2        | 99.2        | 99.4    | 99.5      | 99.5      | 99.6      | 99.7      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 63.3                        | 64.1    | 64.9    | 65.1    | 65.7    | 65.7        | 65.9    | 65.9        | 65.9        | 66.0    | 66.0      | 66.0      | 66.0      | 66.0      | 66.0      | 66.0    |
| GE 20000              | 67.1                        | 68.0    | 69.0    | 69.2    | 70.0    | 70.0        | 70.2    | 70.2        | 70.2        | 70.3    | 70.3      | 70.3      | 70.3      | 70.3      | 70.3      | 70.3    |
| GE 18000              | 67.1                        | 68.0    | 69.0    | 69.2    | 70.0    | 70.0        | 70.2    | 70.2        | 70.2        | 70.3    | 70.3      | 70.3      | 70.3      | 70.3      | 70.3      | 70.3    |
| GE 16000              | 67.4                        | 68.3    | 69.4    | 69.6    | 70.3    | 70.3        | 70.5    | 70.5        | 70.5        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 14000              | 68.1                        | 68.9    | 70.1    | 70.3    | 71.1    | 71.1        | 71.3    | 71.3        | 71.3        | 71.4    | 71.4      | 71.4      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 12000              | 68.8                        | 69.7    | 70.9    | 71.1    | 71.8    | 71.8        | 72.0    | 72.0        | 72.0        | 72.2    | 72.2      | 72.2      | 72.2      | 72.2      | 72.2      | 72.2    |
| GE 10000              | 72.4                        | 73.4    | 74.6    | 74.9    | 76.2    | 76.2        | 76.5    | 76.5        | 76.5        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 9000               | 73.8                        | 74.8    | 76.0    | 76.3    | 77.6    | 77.6        | 78.0    | 78.0        | 78.0        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 8000               | 77.2                        | 78.3    | 79.7    | 80.2    | 81.7    | 81.7        | 82.0    | 82.0        | 82.0        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 7000               | 78.3                        | 79.4    | 80.8    | 81.3    | 82.8    | 82.8        | 83.1    | 83.1        | 83.1        | 83.2    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.2    |
| GE 6000               | 78.9                        | 80.0    | 81.5    | 82.2    | 83.7    | 83.7        | 84.0    | 84.0        | 84.0        | 84.1    | 84.1      | 84.1      | 84.1      | 84.1      | 84.1      | 84.1    |
| GE 5000               | 80.8                        | 81.8    | 83.4    | 84.1    | 85.6    | 85.6        | 85.9    | 85.9        | 85.9        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 4500               | 81.3                        | 82.4    | 84.0    | 84.6    | 86.1    | 86.1        | 86.5    | 86.5        | 86.5        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 4000               | 82.5                        | 83.5    | 85.3    | 86.1    | 87.7    | 87.7        | 88.1    | 88.1        | 88.1        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 3500               | 83.2                        | 84.3    | 86.0    | 86.9    | 88.6    | 88.6        | 88.9    | 88.9        | 88.9        | 89.0    | 89.0      | 89.0      | 89.0      | 89.0      | 89.0      | 89.0    |
| GE 3000               | 84.2                        | 85.3    | 87.1    | 88.0    | 89.7    | 89.7        | 90.0    | 90.0        | 90.0        | 90.1    | 90.1      | 90.1      | 90.1      | 90.1      | 90.1      | 90.1    |
| GE 2500               | 84.8                        | 85.9    | 87.7    | 88.6    | 90.3    | 90.3        | 90.6    | 90.6        | 90.6        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 2000               | 85.7                        | 86.9    | 88.7    | 89.6    | 91.3    | 91.3        | 91.6    | 91.6        | 91.6        | 91.7    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 1800               | 85.8                        | 87.1    | 88.9    | 89.8    | 91.6    | 91.6        | 91.9    | 91.9        | 91.9        | 92.0    | 92.0      | 92.0      | 92.0      | 92.0      | 92.0      | 92.0    |
| GE 1500               | 86.5                        | 87.8    | 89.7    | 90.6    | 92.5    | 92.6        | 92.9    | 92.9        | 92.9        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 1200               | 86.9                        | 88.3    | 90.2    | 91.3    | 93.1    | 93.2        | 93.5    | 93.5        | 93.5        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 1000               | 87.4                        | 88.8    | 90.9    | 92.3    | 94.5    | 94.6        | 94.9    | 94.9        | 94.9        | 95.1    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 900                | 87.6                        | 89.0    | 91.2    | 92.6    | 94.9    | 95.2        | 95.5    | 95.5        | 95.5        | 95.6    | 95.6      | 95.6      | 95.6      | 95.6      | 95.6      | 95.6    |
| GE 800                | 87.8                        | 89.4    | 91.6    | 93.3    | 95.8    | 96.0        | 96.3    | 96.3        | 96.3        | 96.5    | 96.5      | 96.5      | 96.5      | 96.5      | 96.5      | 96.5    |
| GE 700                | 87.8                        | 89.4    | 91.8    | 93.8    | 96.7    | 96.9        | 97.2    | 97.2        | 97.2        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 600                | 88.3                        | 89.8    | 92.3    | 94.2    | 97.2    | 97.4        | 97.7    | 97.7        | 97.7        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 500                | 88.3                        | 89.8    | 92.4    | 94.4    | 97.5    | 97.7        | 98.1    | 98.1        | 98.1        | 98.2    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 400                | 88.3                        | 89.8    | 92.4    | 94.6    | 97.7    | 98.0        | 98.7    | 98.7        | 98.7        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 300                | 88.3                        | 89.8    | 92.4    | 94.6    | 98.3    | 98.5        | 99.2    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 200                | 88.3                        | 89.8    | 92.4    | 94.6    | 98.5    | 98.7        | 99.5    | 99.5        | 99.5        | 99.6    | 99.6      | 99.6      | 99.6      | 99.7      | 99.7      | 99.7    |
| GE 100                | 88.3                        | 89.8    | 92.4    | 94.6    | 98.5    | 98.7        | 99.5    | 99.5        | 99.5        | 99.6    | 99.7      | 99.7      | 99.7      | 99.8      | 99.9      | 100.0   |
| GE 000                | 88.3                        | 89.8    | 92.4    | 94.6    | 98.5    | 98.7        | 99.5    | 99.5        | 99.5        | 99.6    | 99.7      | 99.7      | 99.7      | 99.8      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.0                        | 55.4    | 59.0    | 61.1    | 62.8    | 62.8        | 63.0    | 63.1        | 63.1        | 63.2    | 63.2      | 63.2      | 63.3      | 63.3      | 63.3      | 63.3    |
| GE 20000              | 57.8                        | 60.5    | 64.8    | 67.1    | 68.8    | 68.8        | 69.0    | 69.1        | 69.2        | 69.4    | 69.4      | 69.4      | 69.5      | 69.5      | 69.5      | 69.5    |
| GE 18000              | 57.8                        | 60.5    | 64.8    | 67.1    | 68.8    | 68.8        | 69.0    | 69.1        | 69.2        | 69.4    | 69.4      | 69.4      | 69.5      | 69.5      | 69.5      | 69.5    |
| GE 16000              | 58.1                        | 60.8    | 65.1    | 67.3    | 69.0    | 69.0        | 69.2    | 69.4        | 69.5        | 69.6    | 69.6      | 69.6      | 69.7      | 69.7      | 69.7      | 69.7    |
| GE 14000              | 58.2                        | 60.9    | 65.3    | 67.5    | 69.2    | 69.2        | 69.6    | 69.7        | 69.8        | 69.9    | 69.9      | 69.9      | 70.0      | 70.0      | 70.0      | 70.0    |
| GE 12000              | 59.8                        | 62.5    | 66.9    | 69.1    | 70.9    | 70.9        | 71.2    | 71.3        | 71.4        | 71.5    | 71.5      | 71.5      | 71.6      | 71.6      | 71.6      | 71.6    |
| GE 10000              | 62.7                        | 65.7    | 70.2    | 72.7    | 74.6    | 74.6        | 74.9    | 75.1        | 75.2        | 75.3    | 75.3      | 75.3      | 75.4      | 75.4      | 75.4      | 75.4    |
| GE 9000               | 63.1                        | 66.2    | 70.8    | 73.3    | 75.3    | 75.3        | 75.6    | 75.7        | 75.8        | 75.9    | 75.9      | 75.9      | 76.0      | 76.0      | 76.0      | 76.0    |
| GE 8000               | 65.1                        | 68.2    | 72.8    | 75.6    | 77.6    | 77.6        | 78.0    | 78.1        | 78.2        | 78.3    | 78.3      | 78.3      | 78.4      | 78.4      | 78.4      | 78.4    |
| GE 7000               | 65.7                        | 68.8    | 73.7    | 76.5    | 78.7    | 78.7        | 79.0    | 79.1        | 79.2        | 79.4    | 79.4      | 79.4      | 79.5      | 79.5      | 79.5      | 79.5    |
| GE 6000               | 66.2                        | 69.4    | 74.3    | 77.2    | 79.5    | 79.5        | 79.8    | 79.9        | 80.0        | 80.1    | 80.1      | 80.1      | 80.2      | 80.2      | 80.2      | 80.2    |
| GE 5000               | 67.5                        | 71.0    | 76.2    | 79.1    | 81.4    | 81.4        | 81.7    | 81.8        | 81.9        | 82.0    | 82.0      | 82.0      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 4500               | 67.8                        | 71.3    | 76.6    | 79.5    | 81.7    | 81.7        | 82.0    | 82.2        | 82.3        | 82.4    | 82.4      | 82.4      | 82.5      | 82.5      | 82.5      | 82.5    |
| GE 4000               | 68.7                        | 72.2    | 77.8    | 80.8    | 83.2    | 83.2        | 83.5    | 83.7        | 83.8        | 83.9    | 83.9      | 83.9      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 3500               | 68.9                        | 72.4    | 78.1    | 81.0    | 83.4    | 83.4        | 83.8    | 83.9        | 84.0        | 84.1    | 84.1      | 84.1      | 84.2      | 84.2      | 84.2      | 84.2    |
| GE 3000               | 69.4                        | 72.9    | 78.6    | 81.5    | 84.3    | 84.3        | 84.6    | 84.7        | 84.8        | 84.9    | 84.9      | 84.9      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 2500               | 69.9                        | 73.4    | 79.2    | 82.2    | 84.9    | 84.9        | 85.3    | 85.4        | 85.5        | 85.6    | 85.6      | 85.6      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 2000               | 70.2                        | 73.8    | 79.8    | 82.8    | 85.6    | 85.6        | 85.9    | 86.0        | 86.1        | 86.2    | 86.2      | 86.2      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 1800               | 70.3                        | 74.0    | 80.0    | 83.0    | 85.8    | 85.8        | 86.1    | 86.2        | 86.3        | 86.5    | 86.5      | 86.5      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 1500               | 71.3                        | 75.1    | 81.3    | 84.3    | 87.2    | 87.2        | 87.5    | 87.6        | 87.7        | 88.0    | 88.0      | 88.0      | 88.1      | 88.1      | 88.1      | 88.1    |
| GE 1200               | 71.8                        | 75.7    | 82.0    | 85.4    | 88.4    | 88.4        | 88.8    | 88.9        | 89.0        | 89.2    | 89.2      | 89.2      | 89.4      | 89.4      | 89.4      | 89.4    |
| GE 1000               | 72.3                        | 76.2    | 83.1    | 86.8    | 89.8    | 89.8        | 90.2    | 90.3        | 90.4        | 90.6    | 90.6      | 90.6      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 900                | 72.6                        | 76.6    | 83.5    | 87.2    | 90.5    | 90.5        | 91.0    | 91.1        | 91.2        | 91.4    | 91.4      | 91.4      | 91.5      | 91.5      | 91.5      | 91.5    |
| GE 800                | 72.8                        | 76.9    | 84.2    | 88.2    | 91.7    | 91.7        | 92.2    | 92.3        | 92.4        | 92.6    | 92.6      | 92.6      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 700                | 73.0                        | 77.2    | 84.6    | 88.8    | 92.5    | 92.5        | 92.9    | 93.0        | 93.1        | 93.3    | 93.3      | 93.3      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 600                | 73.2                        | 77.4    | 84.8    | 89.0    | 92.7    | 92.8        | 93.2    | 93.4        | 93.5        | 93.8    | 93.8      | 93.8      | 93.9      | 93.9      | 93.9      | 93.9    |
| GE 500                | 73.2                        | 77.4    | 85.1    | 89.4    | 93.2    | 93.3        | 94.2    | 94.4        | 94.5        | 94.7    | 94.7      | 94.7      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 400                | 73.2                        | 77.4    | 85.2    | 89.8    | 94.1    | 94.3        | 95.4    | 95.6        | 95.7        | 95.9    | 95.9      | 95.9      | 96.0      | 96.0      | 96.0      | 96.3    |
| GE 300                | 73.2                        | 77.4    | 85.2    | 89.8    | 94.6    | 94.8        | 96.0    | 96.2        | 96.3        | 96.6    | 96.6      | 96.6      | 96.7      | 96.7      | 96.8      | 97.1    |
| GE 200                | 73.2                        | 77.4    | 85.2    | 90.0    | 95.1    | 95.4        | 96.6    | 97.1        | 97.2        | 97.6    | 97.7      | 97.7      | 98.0      | 98.0      | 98.1      | 98.5    |
| GE 100                | 73.2                        | 77.4    | 85.2    | 90.0    | 95.1    | 95.4        | 96.6    | 97.1        | 97.2        | 97.6    | 97.7      | 97.7      | 98.0      | 98.0      | 98.2      | 98.8    |
| GE 000                | 73.2                        | 77.4    | 85.2    | 90.0    | 95.1    | 95.4        | 96.7    | 97.2        | 97.3        | 97.7    | 97.8      | 97.8      | 98.1      | 98.1      | 98.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 31.6                        | 38.6    | 45.1    | 50.2    | 52.5    | 52.8        | 53.7    | 53.8        | 53.8        | 54.2    | 54.2      | 54.2      | 54.3      | 54.3      | 54.3      | 54.4    |
| GE 20000              | 34.5                        | 42.3    | 49.8    | 56.3    | 59.7    | 60.0        | 61.3    | 61.6        | 61.6        | 62.0    | 62.0      | 62.0      | 62.3      | 62.3      | 62.5      | 62.6    |
| GE 18000              | 34.8                        | 42.6    | 50.1    | 56.7    | 60.0    | 60.3        | 61.6    | 61.9        | 61.9        | 62.4    | 62.4      | 62.4      | 62.6      | 62.6      | 62.8      | 62.9    |
| GE 16000              | 34.8                        | 42.7    | 50.2    | 56.9    | 60.5    | 60.9        | 62.2    | 62.5        | 62.5        | 62.9    | 62.9      | 62.9      | 63.1      | 63.1      | 63.3      | 63.4    |
| GE 14000              | 35.1                        | 43.0    | 50.6    | 57.4    | 61.1    | 61.6        | 62.9    | 63.2        | 63.2        | 63.7    | 63.7      | 63.7      | 63.9      | 63.9      | 64.1      | 64.2    |
| GE 12000              | 36.5                        | 44.5    | 52.5    | 59.4    | 63.0    | 63.5        | 64.8    | 65.2        | 65.2        | 65.6    | 65.6      | 65.6      | 65.8      | 65.8      | 66.0      | 66.1    |
| GE 10000              | 38.3                        | 46.9    | 55.7    | 62.9    | 66.9    | 67.5        | 68.8    | 69.1        | 69.1        | 69.6    | 69.6      | 69.6      | 69.8      | 69.8      | 70.0      | 70.1    |
| GE 9000               | 38.8                        | 47.5    | 56.3    | 63.5    | 67.6    | 68.3        | 69.6    | 69.9        | 69.9        | 0.3     | 70.3      | 70.3      | 70.5      | 70.5      | 70.8      | 70.9    |
| GE 8000               | 40.2                        | 49.4    | 59.1    | 67.2    | 71.4    | 72.0        | 73.3    | 73.7        | 73.7        | 74.1    | 74.1      | 74.1      | 74.4      | 74.4      | 74.6      | 74.7    |
| GE 7000               | 41.2                        | 50.5    | 60.4    | 68.6    | 72.8    | 73.4        | 74.7    | 75.1        | 75.1        | 75.5    | 75.5      | 75.5      | 75.8      | 75.8      | 76.0      | 76.1    |
| GE 6000               | 41.9                        | 51.4    | 61.4    | 69.6    | 73.8    | 74.4        | 75.7    | 76.0        | 76.0        | 76.5    | 76.5      | 76.5      | 76.8      | 76.8      | 77.0      | 77.1    |
| GE 5000               | 43.0                        | 52.9    | 63.0    | 71.3    | 75.5    | 76.1        | 77.4    | 77.7        | 77.7        | 78.2    | 78.2      | 78.2      | 78.5      | 78.5      | 78.7      | 78.8    |
| GE 4500               | 43.0                        | 52.9    | 63.0    | 71.3    | 75.5    | 76.1        | 77.4    | 77.7        | 77.7        | 78.2    | 78.2      | 78.2      | 78.5      | 78.5      | 78.7      | 78.8    |
| GE 4000               | 43.4                        | 53.3    | 63.5    | 72.0    | 76.2    | 76.9        | 78.3    | 78.6        | 78.6        | 79.0    | 79.0      | 79.0      | 79.4      | 79.4      | 79.6      | 79.7    |
| GE 3500               | 43.5                        | 53.4    | 63.8    | 72.3    | 76.5    | 77.1        | 78.5    | 78.8        | 78.8        | 79.2    | 79.2      | 79.2      | 79.6      | 79.6      | 79.8      | 79.9    |
| GE 3000               | 43.9                        | 53.8    | 64.1    | 72.6    | 76.8    | 77.4        | 78.8    | 79.1        | 79.1        | 79.6    | 79.6      | 79.6      | 79.9      | 79.9      | 80.1      | 80.2    |
| GE 2500               | 44.0                        | 53.9    | 64.7    | 73.2    | 77.4    | 78.1        | 79.5    | 79.8        | 79.8        | 80.2    | 80.2      | 80.2      | 80.5      | 80.5      | 80.8      | 80.9    |
| GE 2000               | 45.1                        | 55.1    | 66.1    | 74.7    | 78.9    | 79.6        | 81.0    | 81.3        | 81.3        | 81.7    | 81.7      | 81.7      | 82.0      | 82.0      | 82.3      | 82.4    |
| GE 1800               | 45.1                        | 55.1    | 66.1    | 74.7    | 78.9    | 79.6        | 81.0    | 81.3        | 81.3        | 81.7    | 81.7      | 81.7      | 82.0      | 82.0      | 82.3      | 82.4    |
| GE 1500               | 45.5                        | 55.6    | 67.0    | 75.6    | 79.9    | 80.6        | 82.0    | 82.4        | 82.4        | 82.8    | 82.8      | 82.8      | 83.1      | 83.1      | 83.3      | 83.4    |
| GE 1200               | 45.6                        | 56.0    | 68.1    | 76.9    | 81.5    | 82.3        | 83.7    | 84.0        | 84.0        | 84.5    | 84.5      | 84.5      | 84.8      | 84.8      | 85.1      | 85.2    |
| GE 1000               | 46.1                        | 57.0    | 69.4    | 78.9    | 83.9    | 84.6        | 86.0    | 86.3        | 86.3        | 86.9    | 86.9      | 86.9      | 87.2      | 87.2      | 87.4      | 87.5    |
| GE 900                | 46.3                        | 57.2    | 69.8    | 79.9    | 85.2    | 86.0        | 87.4    | 87.7        | 87.7        | 88.3    | 88.3      | 88.3      | 88.6      | 88.6      | 88.8      | 88.9    |
| GE 800                | 46.3                        | 57.2    | 69.8    | 80.5    | 86.3    | 87.2        | 88.6    | 88.9        | 88.9        | 89.5    | 89.5      | 89.5      | 89.8      | 89.8      | 90.0      | 90.1    |
| GE 700                | 46.5                        | 57.4    | 70.4    | 81.5    | 88.0    | 88.9        | 90.4    | 90.8        | 90.8        | 91.3    | 91.3      | 91.3      | 91.6      | 91.6      | 91.8      | 91.9    |
| GE 600                | 46.5                        | 57.5    | 70.9    | 82.0    | 88.9    | 90.0        | 91.7    | 92.0        | 92.0        | 92.6    | 92.6      | 92.6      | 92.9      | 92.9      | 93.1      | 93.2    |
| GE 500                | 46.6                        | 57.6    | 71.0    | 82.6    | 90.3    | 91.5        | 93.5    | 94.0        | 94.2        | 94.7    | 94.7      | 94.7      | 95.2      | 95.2      | 95.4      | 95.5    |
| GE 400                | 46.6                        | 57.6    | 71.0    | 82.8    | 90.8    | 92.0        | 94.4    | 94.9        | 95.3        | 95.9    | 95.9      | 95.9      | 96.5      | 96.5      | 96.8      | 97.1    |
| GE 300                | 46.6                        | 57.6    | 71.0    | 82.9    | 91.0    | 92.5        | 94.9    | 95.5        | 95.9        | 96.6    | 96.6      | 96.6      | 97.2      | 97.2      | 97.6      | 98.0    |
| GE 200                | 46.6                        | 57.6    | 71.0    | 82.9    | 91.1    | 92.6        | 95.1    | 95.7        | 96.1        | 96.8    | 96.9      | 96.9      | 97.6      | 97.7      | 98.6      | 99.0    |
| GE 100                | 46.6                        | 57.6    | 71.0    | 82.9    | 91.1    | 92.6        | 95.1    | 95.7        | 96.1        | 96.8    | 97.1      | 97.2      | 98.1      | 98.2      | 99.4      | 100.0   |
| GE 000                | 46.6                        | 57.6    | 71.0    | 82.9    | 91.1    | 92.6        | 95.1    | 95.7        | 96.1        | 96.8    | 97.1      | 97.2      | 98.1      | 98.2      | 99.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 49.4                        | 54.5    | 56.9    | 57.3    | 57.3    | 57.3        | 57.3    | 57.3        | 57.3        | 57.3    | 57.3      | 57.3      | 57.3      | 57.3      | 57.3      | 57.3    |
| GE 20000              | 56.6                        | 63.1    | 66.2    | 67.1    | 67.1    | 67.1        | 67.1    | 67.1        | 67.1        | 67.1    | 67.1      | 67.1      | 67.1      | 67.1      | 67.1      | 67.1    |
| GE 18000              | 56.7                        | 63.2    | 66.5    | 67.3    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.3    | 67.3      | 67.3      | 67.3      | 67.3      | 67.3      | 67.3    |
| GE 16000              | 56.7                        | 63.2    | 66.6    | 67.4    | 67.5    | 67.5        | 67.5    | 67.5        | 67.5        | 67.5    | 67.5      | 67.5      | 67.5      | 67.5      | 67.5      | 67.5    |
| GE 14000              | 57.6                        | 64.3    | 67.6    | 68.5    | 68.6    | 68.6        | 68.6    | 68.6        | 68.6        | 68.6    | 68.6      | 68.6      | 68.6      | 68.6      | 68.6      | 68.6    |
| GE 12000              | 58.8                        | 65.6    | 68.9    | 69.8    | 69.9    | 69.9        | 69.9    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 69.9      | 69.9      | 69.9      | 69.9    |
| GE 10000              | 60.8                        | 68.1    | 71.8    | 72.9    | 73.0    | 73.0        | 73.0    | 73.0        | 73.0        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.0      | 73.0    |
| GE 9000               | 61.1                        | 68.4    | 72.4    | 73.4    | 73.5    | 73.5        | 73.5    | 73.5        | 73.5        | 73.5    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.5    |
| GE 8000               | 63.9                        | 71.4    | 75.7    | 76.9    | 77.1    | 77.1        | 77.1    | 77.1        | 77.1        | 77.1    | 77.1      | 77.1      | 77.1      | 77.1      | 77.1      | 77.1    |
| GE 7000               | 64.6                        | 72.2    | 76.6    | 77.7    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 6000               | 65.1                        | 72.8    | 77.3    | 78.5    | 78.7    | 78.7        | 78.7    | 78.7        | 78.7        | 78.7    | 78.7      | 78.7      | 78.7      | 78.7      | 78.7      | 78.7    |
| GE 5000               | 66.1                        | 74.0    | 78.5    | 79.7    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |
| GE 4500               | 66.9                        | 74.9    | 79.5    | 80.6    | 80.9    | 80.9        | 80.9    | 80.9        | 80.9        | 80.9    | 80.9      | 80.9      | 80.9      | 80.9      | 80.9      | 80.9    |
| GE 4000               | 68.0                        | 76.5    | 81.3    | 82.7    | 82.9    | 82.9        | 82.9    | 82.9        | 82.9        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 3500               | 69.1                        | 77.7    | 82.6    | 84.1    | 84.3    | 84.3        | 84.3    | 84.3        | 84.3        | 84.3    | 84.3      | 84.3      | 84.3      | 84.3      | 84.3      | 84.3    |
| GE 3000               | 71.3                        | 80.1    | 85.1    | 86.7    | 87.0    | 87.0        | 87.0    | 87.0        | 87.0        | 87.0    | 87.0      | 87.0      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 2500               | 72.3                        | 81.2    | 86.3    | 88.0    | 88.3    | 88.3        | 88.3    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.3      | 88.3      | 88.3      | 88.3    |
| GE 2000               | 74.0                        | 83.0    | 88.5    | 90.2    | 90.6    | 90.6        | 90.6    | 90.6        | 90.6        | 90.6    | 90.6      | 90.6      | 90.6      | 90.6      | 90.6      | 90.6    |
| GE 1800               | 74.3                        | 83.4    | 88.9    | 90.6    | 91.1    | 91.1        | 91.1    | 91.1        | 91.1        | 91.1    | 91.1      | 91.1      | 91.1      | 91.1      | 91.1      | 91.1    |
| GE 1500               | 74.9                        | 84.3    | 90.0    | 91.8    | 92.3    | 92.4        | 92.4    | 92.4        | 92.4        | 92.4    | 92.4      | 92.4      | 92.4      | 92.4      | 92.4      | 92.4    |
| GE 1200               | 75.7                        | 85.6    | 92.0    | 94.0    | 94.7    | 94.8        | 94.8    | 94.8        | 94.8        | 94.8    | 94.8      | 94.8      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 1000               | 76.0                        | 86.1    | 93.0    | 95.1    | 96.0    | 96.1        | 96.1    | 96.2        | 96.2        | 96.2    | 96.2      | 96.2      | 96.2      | 96.2      | 96.2      | 96.2    |
| GE 900                | 76.1                        | 86.2    | 93.2    | 95.4    | 96.3    | 96.5        | 96.5    | 96.6        | 96.6        | 96.6    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 800                | 76.1                        | 86.3    | 93.5    | 95.7    | 97.0    | 97.1        | 97.1    | 97.3        | 97.3        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 700                | 76.1                        | 86.3    | 93.5    | 96.0    | 98.1    | 98.2        | 98.4    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 600                | 76.2                        | 86.5    | 93.7    | 96.2    | 98.4    | 98.5        | 98.7    | 98.9        | 98.9        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 500                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.6    | 99.0        | 99.4    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 400                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.7    | 99.1        | 99.5    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.9    | 99.4        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.9    | 99.4        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.9    | 99.4        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 76.2                        | 86.5    | 93.7    | 96.3    | 98.9    | 99.4        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 52.2                        | 53.8    | 54.7    | 54.7    | 54.7    | 54.7        | 54.7    | 54.7        | 54.7        | 54.7    | 54.7      | 54.7      | 54.7      | 54.7      | 54.7      | 54.7    |
| GE 20000              | 64.5                        | 66.8    | 68.0    | 68.0    | 68.0    | 68.0        | 68.0    | 68.0        | 68.0        | 68.0    | 68.0      | 68.0      | 68.0      | 68.0      | 68.0      | 68.0    |
| GE 18000              | 64.6                        | 66.9    | 68.1    | 68.1    | 68.1    | 68.1        | 68.1    | 68.1        | 68.1        | 68.1    | 68.1      | 68.1      | 68.1      | 68.1      | 68.1      | 68.1    |
| GE 16000              | 64.7                        | 67.0    | 68.2    | 68.2    | 68.2    | 68.2        | 68.2    | 68.2        | 68.2        | 68.2    | 68.2      | 68.2      | 68.2      | 68.2      | 68.2      | 68.2    |
| GE 14000              | 65.7                        | 68.1    | 69.2    | 69.2    | 69.2    | 69.2        | 69.2    | 69.2        | 69.2        | 69.2    | 69.2      | 69.2      | 69.2      | 69.2      | 69.2      | 69.2    |
| GE 12000              | 67.1                        | 69.5    | 70.6    | 70.6    | 70.6    | 70.6        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 10000              | 69.2                        | 72.3    | 74.1    | 74.1    | 74.1    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 9000               | 69.6                        | 72.6    | 74.4    | 74.4    | 74.4    | 74.4        | 74.4    | 74.4        | 74.4        | 74.4    | 74.4      | 74.4      | 74.4      | 74.4      | 74.4      | 74.4    |
| GE 8000               | 71.8                        | 75.1    | 76.9    | 77.2    | 77.2    | 77.2        | 77.2    | 77.2        | 77.2        | 77.2    | 77.2      | 77.2      | 77.2      | 77.2      | 77.2      | 77.2    |
| GE 7000               | 72.9                        | 76.2    | 78.3    | 78.6    | 78.6    | 78.6        | 78.6    | 78.6        | 78.6        | 78.6    | 78.6      | 78.6      | 78.6      | 78.6      | 78.6      | 78.6    |
| GE 6000               | 73.2                        | 77.4    | 79.5    | 79.9    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |
| GE 5000               | 74.5                        | 78.8    | 81.0    | 81.4    | 81.4    | 81.4        | 81.5    | 81.5        | 81.5        | 81.5    | 81.5      | 81.5      | 81.5      | 81.5      | 81.5      | 81.5    |
| GE 4500               | 75.4                        | 79.8    | 81.9    | 82.4    | 82.4    | 82.4        | 82.5    | 82.5        | 82.5        | 82.5    | 82.5      | 82.5      | 82.5      | 82.5      | 82.5      | 82.5    |
| GE 4000               | 78.6                        | 83.4    | 86.0    | 86.7    | 86.7    | 86.7        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 3500               | 81.7                        | 86.7    | 89.6    | 90.4    | 90.5    | 90.6        | 90.8    | 90.8        | 90.8        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 3000               | 85.1                        | 90.2    | 93.2    | 94.3    | 94.4    | 94.5        | 94.6    | 94.6        | 94.6        | 94.6    | 94.6      | 94.6      | 94.6      | 94.8      | 94.8      | 94.8    |
| GE 2500               | 85.8                        | 91.0    | 94.1    | 95.2    | 95.3    | 95.4        | 95.5    | 95.5        | 95.5        | 95.5    | 95.5      | 95.5      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 2000               | 86.5                        | 91.6    | 94.8    | 96.0    | 96.1    | 96.2        | 96.3    | 96.3        | 96.3        | 96.3    | 96.3      | 96.3      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 1800               | 86.6                        | 91.7    | 94.9    | 96.1    | 96.2    | 96.3        | 96.5    | 96.5        | 96.5        | 96.5    | 96.5      | 96.5      | 96.7      | 96.7      | 96.7      | 96.7    |
| GE 1500               | 86.7                        | 91.8    | 95.2    | 96.6    | 96.7    | 96.8        | 96.9    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 97.1      | 97.1      | 97.1      | 97.1    |
| GE 1200               | 86.9                        | 92.2    | 95.9    | 97.3    | 97.6    | 97.7        | 97.8    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 98.1      | 98.1      | 98.1      | 98.1    |
| GE 1000               | 86.9                        | 92.4    | 96.3    | 98.0    | 98.3    | 98.4        | 98.5    | 98.5        | 98.5        | 98.5    | 98.5      | 98.5      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 900                | 86.9                        | 92.6    | 96.6    | 98.3    | 98.8    | 98.9        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 800                | 86.9                        | 92.6    | 96.6    | 98.3    | 98.8    | 98.9        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 700                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.1    | 99.2        | 99.5    | 99.5        | 99.5        | 99.5    | 99.5      | 99.5      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 600                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.1    | 99.4        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 500                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.5        | 99.7    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 400                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.6        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.6        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.6        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.6        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 86.9                        | 92.6    | 96.6    | 98.4    | 99.2    | 99.6        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.0                        | 54.9    | 55.9    | 55.9    | 55.9    | 55.9        | 55.9    | 55.9        | 55.9        | 55.9    | 55.9      | 55.9      | 55.9      | 55.9      | 55.9      | 55.9    |
| GE 20000              | 64.4                        | 66.8    | 67.8    | 67.8    | 68.0    | 68.0        | 68.0    | 68.0        | 68.0        | 68.0    | 68.0      | 68.0      | 68.0      | 68.0      | 68.0      | 68.0    |
| GE 18000              | 64.4                        | 66.8    | 67.8    | 67.8    | 68.0    | 68.0        | 68.0    | 68.0        | 68.0        | 68.0    | 68.0      | 68.0      | 68.0      | 68.0      | 68.0      | 68.0    |
| GE 16000              | 64.7                        | 67.1    | 68.2    | 68.2    | 68.3    | 68.3        | 68.3    | 68.3        | 68.3        | 68.3    | 68.3      | 68.3      | 68.3      | 68.3      | 68.3      | 68.3    |
| GE 14000              | 65.5                        | 67.8    | 69.0    | 69.0    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 12000              | 67.0                        | 69.4    | 70.8    | 70.8    | 70.9    | 70.9        | 70.9    | 70.9        | 70.9        | 70.9    | 70.9      | 70.9      | 70.9      | 70.9      | 70.9      | 70.9    |
| GE 10000              | 71.9                        | 74.8    | 76.7    | 77.0    | 77.1    | 77.1        | 77.1    | 77.1        | 77.1        | 77.1    | 77.1      | 77.1      | 77.1      | 77.1      | 77.1      | 77.1    |
| GE 9000               | 72.9                        | 75.8    | 77.6    | 78.0    | 78.1    | 78.1        | 78.1    | 78.1        | 78.1        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 8000               | 75.5                        | 78.6    | 80.4    | 81.0    | 81.1    | 81.1        | 81.1    | 81.1        | 81.1        | 81.1    | 81.1      | 81.1      | 81.1      | 81.1      | 81.1      | 81.1    |
| GE 7000               | 77.1                        | 80.6    | 82.5    | 83.1    | 83.2    | 83.2        | 83.2    | 83.2        | 83.2        | 83.2    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.2    |
| GE 6000               | 77.8                        | 81.7    | 83.5    | 84.2    | 84.3    | 84.3        | 84.3    | 84.3        | 84.3        | 84.3    | 84.3      | 84.3      | 84.3      | 84.3      | 84.3      | 84.3    |
| GE 5000               | 78.7                        | 82.7    | 84.9    | 85.7    | 85.8    | 85.8        | 85.8    | 85.8        | 85.8        | 85.8    | 85.8      | 85.8      | 85.8      | 85.8      | 85.8      | 85.8    |
| GE 4500               | 79.8                        | 83.9    | 86.2    | 87.0    | 87.1    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.1      | 87.1      | 87.1      | 87.1    |
| GE 4000               | 82.5                        | 86.9    | 89.9    | 90.8    | 91.1    | 91.2        | 91.2    | 91.2        | 91.2        | 91.2    | 91.2      | 91.2      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 3500               | 85.3                        | 89.8    | 93.1    | 94.2    | 94.7    | 94.8        | 94.8    | 94.8        | 94.8        | 94.8    | 94.8      | 94.8      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 3000               | 87.0                        | 91.7    | 95.2    | 96.2    | 97.0    | 97.1        | 97.2    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 2500               | 87.1                        | 91.8    | 95.3    | 96.5    | 97.2    | 97.3        | 97.4    | 97.4        | 97.4        | 97.4    | 97.4      | 97.4      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 2000               | 87.4                        | 92.2    | 95.6    | 96.8    | 97.6    | 97.7        | 97.8    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 98.0    |
| GE 1800               | 87.4                        | 92.4    | 95.8    | 97.0    | 97.8    | 98.0        | 98.1    | 98.1        | 98.1        | 98.1    | 98.1      | 98.1      | 98.1      | 98.1      | 98.2      | 98.2    |
| GE 1500               | 87.5                        | 92.5    | 95.9    | 97.1    | 98.0    | 98.1        | 98.2    | 98.2        | 98.2        | 98.2    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.3    |
| GE 1200               | 87.5                        | 92.6    | 96.0    | 97.4    | 98.4    | 98.5        | 98.6    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.7      | 98.7    |
| GE 1000               | 87.6                        | 93.0    | 96.6    | 98.0    | 98.9    | 99.0        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.2      | 99.2    |
| GE 900                | 87.6                        | 93.0    | 96.7    | 98.3    | 99.2    | 99.4        | 99.5    | 99.5        | 99.5        | 99.5    | 99.5      | 99.5      | 99.5      | 99.5      | 99.6      | 99.6    |
| GE 800                | 87.6                        | 93.0    | 96.8    | 98.4    | 99.4    | 99.5        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.7      | 99.7    |
| GE 700                | 87.6                        | 93.0    | 96.8    | 98.4    | 99.4    | 99.7        | 99.8    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.9      | 99.9    |
| GE 600                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 500                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 400                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 300                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 200                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 100                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 000                | 87.6                        | 93.0    | 96.8    | 98.5    | 99.5    | 99.8        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.5                        | 54.5    | 55.6    | 55.6    | 55.6    | 55.6        | 55.6    | 55.6        | 55.6        | 55.6    | 55.6      | 55.6      | 55.6      | 55.6      | 55.6      | 55.6    |
| GE 20000              | 65.3                        | 66.5    | 67.6    | 67.7    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 18000              | 65.3                        | 66.5    | 67.6    | 67.7    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 16000              | 65.3                        | 66.5    | 67.6    | 67.7    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 14000              | 66.8                        | 68.0    | 69.5    | 69.6    | 69.6    | 69.6        | 69.6    | 69.6        | 69.6        | 69.6    | 69.6      | 69.6      | 69.6      | 69.6      | 69.6      | 69.6    |
| GE 12000              | 68.1                        | 69.4    | 71.1    | 71.3    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 10000              | 72.9                        | 74.7    | 77.0    | 77.5    | 77.6    | 77.6        | 77.6    | 77.6        | 77.6        | 77.6    | 77.6      | 77.6      | 77.6      | 77.6      | 77.6      | 77.6    |
| GE 9000               | 73.8                        | 75.6    | 78.0    | 78.5    | 78.6    | 78.6        | 78.6    | 78.6        | 78.6        | 78.6    | 78.6      | 78.6      | 78.6      | 78.6      | 78.6      | 78.6    |
| GE 8000               | 77.4                        | 79.7    | 82.2    | 82.7    | 82.8    | 82.8        | 82.8    | 82.8        | 82.8        | 82.8    | 82.8      | 82.8      | 82.8      | 82.8      | 82.8      | 82.8    |
| GE 7000               | 78.1                        | 80.4    | 83.2    | 83.9    | 84.0    | 84.0        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 6000               | 78.7                        | 81.2    | 84.1    | 84.7    | 85.1    | 85.1        | 85.1    | 85.1        | 85.1        | 85.1    | 85.1      | 85.1      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 5000               | 80.3                        | 83.2    | 86.1    | 86.9    | 87.2    | 87.2        | 87.2    | 87.2        | 87.2        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 4500               | 81.2                        | 84.3    | 87.2    | 88.0    | 88.3    | 88.3        | 88.3    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.3      | 88.3      | 88.3      | 88.3    |
| GE 4000               | 82.8                        | 86.0    | 89.6    | 90.8    | 91.2    | 91.4        | 91.6    | 91.6        | 91.6        | 91.6    | 91.6      | 91.6      | 91.6      | 91.6      | 91.6      | 91.6    |
| GE 3500               | 83.9                        | 87.5    | 91.6    | 92.9    | 93.3    | 93.5        | 93.8    | 93.8        | 93.8        | 93.8    | 93.8      | 93.8      | 93.8      | 93.8      | 93.8      | 93.8    |
| GE 3000               | 85.2                        | 88.9    | 93.3    | 95.2    | 95.9    | 96.1        | 96.5    | 96.5        | 96.5        | 96.5    | 96.5      | 96.5      | 96.5      | 96.5      | 96.5      | 96.5    |
| GE 2500               | 85.6                        | 89.4    | 93.8    | 95.6    | 96.6    | 96.8        | 97.1    | 97.1        | 97.1        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 2000               | 85.7                        | 89.5    | 93.9    | 95.7    | 96.7    | 96.9        | 97.2    | 97.2        | 97.2        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 1800               | 85.7                        | 89.5    | 93.9    | 95.7    | 96.7    | 96.9        | 97.2    | 97.2        | 97.2        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 1500               | 86.0                        | 89.8    | 94.4    | 96.2    | 97.2    | 97.4        | 97.8    | 97.8        | 97.8        | 98.0    | 98.0      | 98.0      | 98.0      | 98.0      | 98.0      | 98.0    |
| GE 1200               | 86.1                        | 89.9    | 94.6    | 96.6    | 97.5    | 97.7        | 98.2    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 1000               | 86.6                        | 90.3    | 95.1    | 97.0    | 98.0    | 98.2        | 98.6    | 98.7        | 98.7        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 900                | 86.7                        | 90.4    | 95.2    | 97.3    | 98.3    | 98.5        | 98.9    | 99.0        | 99.0        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 800                | 86.7                        | 90.4    | 95.2    | 97.6    | 98.6    | 98.8        | 99.4    | 99.5        | 99.5        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 700                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 600                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 500                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 400                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 300                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 100                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 000                | 86.7                        | 90.4    | 95.2    | 97.7    | 98.8    | 99.0        | 99.7    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 62.2                        | 63.0    | 64.2    | 64.4    | 64.7    | 64.7        | 64.7    | 64.7        | 64.7        | 64.7    | 64.7      | 64.7      | 64.7      | 64.7      | 64.7      | 64.7    |
| GE 20000              | 69.2                        | 70.3    | 71.5    | 71.9    | 72.3    | 72.3        | 72.3    | 72.3        | 72.3        | 72.3    | 72.3      | 72.3      | 72.3      | 72.3      | 72.3      | 72.3    |
| GE 18000              | 69.4                        | 70.4    | 71.6    | 72.0    | 72.4    | 72.4        | 72.4    | 72.4        | 72.4        | 72.4    | 72.4      | 72.4      | 72.4      | 72.4      | 72.4      | 72.4    |
| GE 16000              | 69.6                        | 70.6    | 71.8    | 72.3    | 72.6    | 72.6        | 72.6    | 72.6        | 72.6        | 72.6    | 72.6      | 72.6      | 72.6      | 72.6      | 72.6      | 72.6    |
| GE 14000              | 70.6                        | 71.8    | 73.0    | 73.4    | 73.8    | 73.8        | 73.8    | 73.8        | 73.8        | 73.8    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 12000              | 71.2                        | 72.4    | 73.5    | 74.0    | 74.3    | 74.3        | 74.3    | 74.3        | 74.3        | 74.3    | 74.3      | 74.3      | 74.3      | 74.3      | 74.3      | 74.3    |
| GE 10000              | 75.1                        | 76.2    | 78.0    | 78.4    | 79.0    | 79.0        | 79.0    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 9000               | 76.2                        | 77.4    | 79.4    | 79.8    | 80.4    | 80.4        | 80.4    | 80.4        | 80.4        | 80.4    | 80.4      | 80.4      | 80.4      | 80.4      | 80.4      | 80.4    |
| GE 8000               | 79.9                        | 81.2    | 83.2    | 84.0    | 84.6    | 84.7        | 84.7    | 84.7        | 84.7        | 84.7    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.7    |
| GE 7000               | 81.4                        | 82.7    | 84.8    | 85.6    | 86.2    | 86.3        | 86.3    | 86.3        | 86.3        | 86.3    | 86.3      | 86.3      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 6000               | 81.5                        | 82.8    | 84.9    | 85.7    | 86.3    | 86.5        | 86.5    | 86.5        | 86.5        | 86.5    | 86.5      | 86.5      | 86.5      | 86.5      | 86.5      | 86.5    |
| GE 5000               | 82.6                        | 84.0    | 86.5    | 87.2    | 87.8    | 88.0        | 88.0    | 88.0        | 88.0        | 88.0    | 88.0      | 88.0      | 88.0      | 88.0      | 88.0      | 88.0    |
| GE 4500               | 83.0                        | 84.4    | 87.0    | 87.7    | 88.4    | 88.5        | 88.5    | 88.5        | 88.5        | 88.5    | 88.5      | 88.5      | 88.5      | 88.5      | 88.5      | 88.5    |
| GE 4000               | 84.7                        | 86.1    | 88.8    | 89.9    | 90.6    | 90.8        | 90.8    | 90.8        | 90.8        | 90.8    | 90.8      | 90.8      | 90.8      | 90.9      | 90.9      | 90.9    |
| GE 3500               | 85.9                        | 87.3    | 90.2    | 91.3    | 92.0    | 92.2        | 92.2    | 92.2        | 92.2        | 92.2    | 92.2      | 92.2      | 92.2      | 92.3      | 92.3      | 92.3    |
| GE 3000               | 86.9                        | 88.3    | 91.2    | 92.3    | 93.1    | 93.2        | 93.3    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.3      | 93.4      | 93.4      | 93.4    |
| GE 2500               | 87.4                        | 88.8    | 91.8    | 92.9    | 93.9    | 94.0        | 94.1    | 94.1        | 94.1        | 94.2    | 94.2      | 94.2      | 94.3      | 94.3      | 94.3      | 94.3    |
| GE 2000               | 88.2                        | 89.6    | 92.6    | 93.9    | 94.8    | 94.9        | 95.1    | 95.1        | 95.1        | 95.2    | 95.2      | 95.2      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 1800               | 88.3                        | 89.7    | 92.7    | 94.0    | 94.9    | 95.1        | 95.2    | 95.2        | 95.2        | 95.3    | 95.3      | 95.3      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 1500               | 88.5                        | 90.0    | 93.2    | 94.6    | 95.7    | 95.8        | 95.9    | 95.9        | 95.9        | 96.0    | 96.0      | 96.0      | 96.1      | 96.1      | 96.1      | 96.1    |
| GE 1200               | 88.9                        | 90.4    | 93.9    | 95.6    | 96.7    | 96.8        | 96.9    | 96.9        | 96.9        | 97.0    | 97.0      | 97.0      | 97.1      | 97.1      | 97.1      | 97.1    |
| GE 1000               | 89.0                        | 90.5    | 94.1    | 96.0    | 97.3    | 97.4        | 97.5    | 97.5        | 97.5        | 97.6    | 97.6      | 97.6      | 97.7      | 97.7      | 97.7      | 97.7    |
| GE 900                | 89.6                        | 91.1    | 94.6    | 96.6    | 98.0    | 98.1        | 98.2    | 98.2        | 98.2        | 98.3    | 98.3      | 98.3      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 800                | 89.9                        | 91.4    | 94.9    | 97.1    | 98.6    | 98.7        | 98.8    | 98.8        | 98.8        | 98.9    | 98.9      | 98.9      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 700                | 90.0                        | 91.5    | 95.1    | 97.3    | 99.0    | 99.1        | 99.2    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.5      | 99.5      | 99.5      | 99.5    |
| GE 600                | 90.0                        | 91.5    | 95.1    | 97.3    | 99.0    | 99.1        | 99.2    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.5      | 99.5      | 99.5      | 99.5    |
| GE 500                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.2    | 99.4        | 99.5    | 99.5        | 99.5        | 99.6    | 99.6      | 99.6      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 400                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.4    | 99.5        | 99.6    | 99.6        | 99.6        | 99.7    | 99.7      | 99.7      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.5    | 99.6        | 99.7    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.5    | 99.6        | 99.7    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 100                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.5    | 99.6        | 99.7    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 000                | 90.1                        | 91.6    | 95.2    | 97.4    | 99.5    | 99.6        | 99.7    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC

PERIOD OF RECORD: APR 79 - MAR 89

LST TO UTC: + 5

MONTH: MAY HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 52.3                        | 54.9    | 57.0    | 58.0    | 58.7    | 58.7        | 58.9    | 58.9        | 58.9        | 59.0    | 59.0      | 59.0      | 59.0      | 59.0      | 59.0      | 59.0    |
| GE 20000              | 59.9                        | 63.0    | 65.6    | 66.9    | 67.7    | 67.7        | 67.9    | 68.0        | 68.0        | 68.1    | 68.1      | 68.1      | 68.1      | 68.1      | 68.2      | 68.2    |
| GE 18000              | 60.0                        | 63.1    | 65.7    | 67.0    | 67.8    | 67.8        | 68.0    | 68.1        | 68.1        | 68.2    | 68.2      | 68.2      | 68.2      | 68.2      | 68.3      | 68.3    |
| GE 16000              | 60.2                        | 63.3    | 65.9    | 67.2    | 68.0    | 68.1        | 68.3    | 68.3        | 68.3        | 68.4    | 68.4      | 68.4      | 68.5      | 68.5      | 68.5      | 68.5    |
| GE 14000              | 60.9                        | 64.1    | 66.8    | 68.1    | 69.0    | 69.0        | 69.3    | 69.3        | 69.3        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.5      | 69.5    |
| GE 12000              | 62.2                        | 65.3    | 68.1    | 69.5    | 70.3    | 70.4        | 70.6    | 70.7        | 70.7        | 70.8    | 70.8      | 70.8      | 70.8      | 70.8      | 70.8      | 70.9    |
| GE 10000              | 65.4                        | 69.0    | 72.3    | 73.8    | 74.8    | 74.9        | 75.1    | 75.2        | 75.2        | 75.3    | 75.3      | 75.3      | 75.3      | 75.3      | 75.3      | 75.4    |
| GE 9000               | 66.2                        | 69.8    | 73.1    | 74.7    | 75.7    | 75.8        | 76.0    | 76.1        | 76.1        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.3    |
| GE 8000               | 68.9                        | 72.7    | 76.3    | 78.1    | 79.2    | 79.3        | 79.5    | 79.6        | 79.6        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.8      | 79.8    |
| GE 7000               | 69.9                        | 73.9    | 77.5    | 79.4    | 80.5    | 80.6        | 80.9    | 80.9        | 80.9        | 81.0    | 81.0      | 81.0      | 81.0      | 81.1      | 81.1      | 81.1    |
| GE 6000               | 70.4                        | 74.6    | 78.3    | 80.2    | 81.4    | 81.5        | 81.7    | 81.8        | 81.8        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 82.0      | 82.0    |
| GE 5000               | 71.7                        | 76.0    | 80.0    | 81.9    | 83.1    | 83.2        | 83.4    | 83.5        | 83.5        | 83.6    | 83.6      | 83.6      | 83.6      | 83.6      | 83.7      | 83.7    |
| GE 4500               | 72.3                        | 76.7    | 80.7    | 82.6    | 83.8    | 83.9        | 84.1    | 84.2        | 84.2        | 84.3    | 84.3      | 84.3      | 84.3      | 84.3      | 84.4      | 84.4    |
| GE 4000               | 73.9                        | 78.5    | 82.8    | 85.0    | 86.2    | 86.3        | 86.6    | 86.7        | 86.7        | 86.8    | 86.8      | 86.8      | 86.9      | 86.9      | 86.9      | 86.9    |
| GE 3500               | 75.2                        | 79.9    | 84.4    | 86.6    | 87.9    | 88.1        | 88.4    | 88.4        | 88.4        | 88.5    | 88.5      | 88.5      | 88.6      | 88.6      | 88.6      | 88.6    |
| GE 3000               | 76.6                        | 81.4    | 86.0    | 88.3    | 89.8    | 89.9        | 90.3    | 90.3        | 90.3        | 90.4    | 90.4      | 90.4      | 90.5      | 90.5      | 90.5      | 90.5    |
| GE 2500               | 77.1                        | 81.9    | 86.6    | 89.0    | 90.5    | 90.6        | 91.0    | 91.0        | 91.0        | 91.1    | 91.1      | 91.1      | 91.2      | 91.2      | 91.3      | 91.3    |
| GE 2000               | 77.8                        | 82.7    | 87.5    | 90.0    | 91.5    | 91.6        | 91.9    | 92.0        | 92.0        | 92.1    | 92.1      | 92.1      | 92.2      | 92.2      | 92.3      | 92.3    |
| GE 1800               | 77.9                        | 82.8    | 87.7    | 90.1    | 91.6    | 91.8        | 92.1    | 92.2        | 92.2        | 92.3    | 92.3      | 92.3      | 92.4      | 92.4      | 92.4      | 92.4    |
| GE 1500               | 78.4                        | 83.4    | 88.3    | 90.9    | 92.4    | 92.6        | 93.0    | 93.0        | 93.0        | 93.1    | 93.1      | 93.1      | 93.2      | 93.2      | 93.3      | 93.3    |
| GE 1200               | 78.7                        | 83.8    | 89.1    | 91.8    | 93.5    | 93.7        | 94.0    | 94.1        | 94.1        | 94.3    | 94.3      | 94.3      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 1000               | 79.0                        | 84.3    | 89.8    | 92.7    | 94.6    | 94.8        | 95.1    | 95.2        | 95.2        | 95.4    | 95.4      | 95.4      | 95.5      | 95.5      | 95.5      | 95.5    |
| GE 900                | 79.2                        | 84.5    | 90.1    | 93.2    | 95.2    | 95.4        | 95.8    | 95.8        | 95.8        | 96.0    | 96.0      | 96.0      | 96.1      | 96.1      | 96.1      | 96.1    |
| GE 800                | 79.3                        | 84.7    | 90.3    | 93.6    | 95.8    | 96.0        | 96.4    | 96.5        | 96.5        | 96.6    | 96.6      | 96.6      | 96.7      | 96.7      | 96.8      | 96.8    |
| GE 700                | 79.3                        | 84.7    | 90.5    | 94.0    | 96.4    | 96.7        | 97.1    | 97.2        | 97.2        | 97.4    | 97.4      | 97.4      | 97.5      | 97.5      | 97.5      | 97.5    |
| GE 600                | 79.4                        | 84.8    | 90.6    | 94.2    | 96.7    | 97.0        | 97.5    | 97.6        | 97.6        | 97.7    | 97.7      | 97.7      | 97.8      | 97.8      | 97.9      | 97.9    |
| GE 500                | 79.4                        | 84.9    | 90.7    | 94.3    | 97.1    | 97.4        | 98.0    | 98.1        | 98.1        | 98.3    | 98.3      | 98.3      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 400                | 79.4                        | 84.9    | 90.7    | 94.4    | 97.3    | 97.7        | 98.4    | 98.5        | 98.6        | 98.7    | 98.7      | 98.7      | 98.8      | 98.8      | 98.9      | 99.0    |
| GE 300                | 79.4                        | 84.9    | 90.7    | 94.5    | 97.5    | 97.9        | 98.6    | 98.8        | 98.8        | 99.0    | 99.0      | 99.0      | 99.1      | 99.1      | 99.2      | 99.3    |
| GE 200                | 79.4                        | 84.9    | 90.7    | 94.5    | 97.6    | 98.0        | 98.7    | 98.9        | 99.0        | 99.2    | 99.2      | 99.2      | 99.4      | 99.4      | 99.5      | 99.6    |
| GE 100                | 79.4                        | 84.9    | 90.7    | 94.5    | 97.6    | 98.0        | 98.7    | 98.9        | 99.0        | 99.2    | 99.2      | 99.2      | 99.4      | 99.4      | 99.7      | 99.8    |
| GE 000                | 79.4                        | 84.9    | 90.7    | 94.5    | 97.6    | 98.0        | 98.7    | 98.9        | 99.0        | 99.2    | 99.3      | 99.3      | 99.4      | 99.5      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFD SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO-CEIL               | 59.0                        | 62.2    | 66.9    | 68.3    | 69.2    | 69.2        | 69.2    | 69.4        | 69.4        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.4      | 69.4    |
| GE 20000              | 64.4                        | 68.0    | 73.6    | 75.6    | 76.7    | 76.7        | 76.7    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 18000              | 64.4                        | 68.0    | 73.6    | 75.6    | 76.7    | 76.7        | 76.7    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 16000              | 64.4                        | 68.0    | 73.6    | 75.6    | 76.7    | 76.7        | 76.7    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 14000              | 64.4                        | 68.0    | 73.6    | 75.6    | 76.7    | 76.7        | 76.7    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 12000              | 64.9                        | 68.4    | 74.0    | 76.2    | 77.3    | 77.3        | 77.3    | 77.6        | 77.6        | 77.6    | 77.6      | 77.6      | 77.6      | 77.6      | 77.6      | 77.6    |
| GE 10000              | 69.6                        | 73.2    | 78.8    | 81.3    | 82.4    | 82.4        | 82.4    | 82.7        | 82.7        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 9000               | 69.8                        | 73.4    | 79.0    | 81.6    | 82.7    | 82.7        | 82.7    | 82.9        | 82.9        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 8000               | 72.0                        | 75.8    | 81.3    | 83.9    | 85.0    | 85.0        | 85.0    | 85.2        | 85.2        | 85.2    | 85.2      | 85.2      | 85.2      | 85.2      | 85.2      | 85.2    |
| GE 7000               | 72.6                        | 76.3    | 82.0    | 84.6    | 85.7    | 85.7        | 85.7    | 85.9        | 85.9        | 85.9    | 85.9      | 85.9      | 85.9      | 85.9      | 85.9      | 85.9    |
| GE 6000               | 72.8                        | 77.0    | 82.7    | 85.2    | 86.3    | 86.3        | 86.3    | 86.6        | 86.6        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 5000               | 73.3                        | 77.8    | 83.6    | 86.1    | 87.3    | 87.3        | 87.3    | 87.6        | 87.6        | 87.6    | 87.6      | 87.6      | 87.6      | 87.6      | 87.6      | 87.6    |
| GE 4500               | 73.6                        | 78.0    | 83.8    | 86.3    | 87.6    | 87.6        | 87.6    | 87.8        | 87.8        | 87.8    | 87.8      | 87.8      | 87.8      | 87.8      | 87.8      | 87.8    |
| GE 4000               | 75.3                        | 79.8    | 86.3    | 89.4    | 91.0    | 91.0        | 91.0    | 91.2        | 91.2        | 91.2    | 91.2      | 91.2      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 3500               | 75.7                        | 80.1    | 86.7    | 89.9    | 91.4    | 91.4        | 91.4    | 91.7        | 91.7        | 91.7    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 3000               | 76.4                        | 80.9    | 87.7    | 90.9    | 92.6    | 92.6        | 92.7    | 92.9        | 92.9        | 92.9    | 92.9      | 92.9      | 92.9      | 92.9      | 92.9      | 92.9    |
| GE 2500               | 76.8                        | 81.2    | 88.1    | 91.3    | 93.0    | 93.0        | 93.1    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.3      | 93.3      | 93.3      | 93.3    |
| GE 2000               | 77.0                        | 81.4    | 88.6    | 91.8    | 93.6    | 93.6        | 93.7    | 93.9        | 93.9        | 93.9    | 93.9      | 93.9      | 93.9      | 93.9      | 93.9      | 93.9    |
| GE 1800               | 77.0                        | 81.4    | 88.6    | 91.9    | 93.7    | 93.7        | 93.8    | 94.0        | 94.0        | 94.0    | 94.0      | 94.0      | 94.0      | 94.0      | 94.0      | 94.0    |
| GE 1500               | 77.4                        | 81.9    | 89.0    | 92.4    | 94.2    | 94.2        | 94.3    | 94.6        | 94.6        | 94.6    | 94.6      | 94.6      | 94.6      | 94.6      | 94.6      | 94.6    |
| GE 1200               | 77.6                        | 82.0    | 89.1    | 92.7    | 94.7    | 94.7        | 94.8    | 95.0        | 95.0        | 95.0    | 95.0      | 95.0      | 95.0      | 95.0      | 95.0      | 95.0    |
| GE 1000               | 77.7                        | 82.1    | 89.7    | 93.3    | 95.6    | 95.6        | 95.8    | 96.0        | 96.0        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 900                | 77.7                        | 82.1    | 89.7    | 93.3    | 95.9    | 95.9        | 96.1    | 96.3        | 96.3        | 96.3    | 96.3      | 96.3      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 800                | 77.7                        | 82.1    | 89.8    | 93.8    | 96.6    | 96.6        | 96.8    | 97.0        | 97.0        | 97.0    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 700                | 77.7                        | 82.2    | 89.9    | 93.9    | 97.1    | 97.1        | 97.3    | 97.6        | 97.6        | 97.6    | 97.6      | 97.6      | 97.6      | 97.6      | 97.7      | 97.7    |
| GE 600                | 77.7                        | 82.2    | 89.9    | 94.0    | 97.2    | 97.2        | 97.4    | 97.7        | 97.7        | 97.7    | 97.7      | 97.7      | 97.7      | 97.7      | 97.8      | 97.8    |
| GE 500                | 77.7                        | 82.3    | 90.2    | 94.4    | 98.4    | 98.4        | 98.7    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.1      | 99.1      | 99.1    |
| GE 400                | 77.7                        | 82.3    | 90.2    | 94.6    | 98.7    | 98.7        | 98.9    | 99.2        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.3      | 99.3      | 99.3    |
| GE 300                | 77.7                        | 82.3    | 90.2    | 94.7    | 98.9    | 98.9        | 99.2    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.7      | 99.7      | 99.7    |
| GE 200                | 77.7                        | 82.3    | 90.2    | 94.7    | 99.0    | 99.0        | 99.6    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 100                | 77.7                        | 82.3    | 90.2    | 94.7    | 99.0    | 99.0        | 99.6    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 000                | 77.7                        | 82.3    | 90.2    | 94.7    | 99.0    | 99.0        | 99.6    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETYAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 46.0                        | 49.9    | 55.7    | 59.7    | 62.0    | 62.7        | 63.1    | 63.1        | 63.1        | 63.1    | 63.1      | 63.1      | 63.2      | 63.2      | 63.2      | 63.2    |
| GE 20000              | 50.9                        | 55.2    | 61.9    | 67.0    | 69.8    | 70.7        | 71.2    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 18000              | 50.9                        | 55.2    | 61.9    | 67.0    | 69.8    | 70.7        | 71.2    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 16000              | 50.9                        | 55.2    | 61.9    | 67.0    | 69.8    | 70.7        | 71.2    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 14000              | 51.0                        | 55.3    | 62.0    | 67.1    | 69.9    | 70.8        | 71.3    | 71.4        | 71.4        | 71.4    | 71.4      | 71.4      | 71.6      | 71.6      | 71.6      | 71.6    |
| GE 12000              | 51.3                        | 55.8    | 62.4    | 67.7    | 70.6    | 71.4        | 72.0    | 72.1        | 72.1        | 72.1    | 72.1      | 72.1      | 72.2      | 72.2      | 72.2      | 72.2    |
| GE 10000              | 55.2                        | 59.9    | 67.0    | 72.6    | 75.6    | 76.4        | 77.0    | 77.1        | 77.1        | 77.1    | 77.1      | 77.1      | 77.2      | 77.2      | 77.2      | 77.2    |
| GE 9000               | 55.3                        | 60.0    | 67.1    | 72.7    | 75.7    | 76.6        | 77.1    | 77.2        | 77.2        | 77.2    | 77.2      | 77.2      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 8000               | 57.3                        | 62.1    | 69.3    | 75.1    | 78.3    | 79.2        | 79.8    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 80.0      | 80.0      | 80.0      | 80.0    |
| GE 7000               | 57.8                        | 62.6    | 69.8    | 75.7    | 78.9    | 79.9        | 80.4    | 80.6        | 80.6        | 80.6    | 80.6      | 80.6      | 80.7      | 80.7      | 80.7      | 80.7    |
| GE 6000               | 58.0                        | 62.8    | 70.0    | 75.9    | 79.1    | 80.1        | 80.7    | 80.8        | 80.8        | 80.8    | 80.8      | 80.8      | 80.9      | 80.9      | 80.9      | 80.9    |
| GE 5000               | 58.6                        | 63.4    | 70.7    | 76.7    | 80.1    | 81.1        | 81.7    | 81.8        | 81.8        | 81.8    | 81.8      | 81.8      | 81.9      | 81.9      | 81.9      | 81.9    |
| GE 4500               | 58.9                        | 63.8    | 71.0    | 77.0    | 80.4    | 81.4        | 82.0    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 4000               | 59.3                        | 64.3    | 71.9    | 78.3    | 82.0    | 83.0        | 83.6    | 83.7        | 83.7        | 83.7    | 83.7      | 83.7      | 83.8      | 83.8      | 83.8      | 83.8    |
| GE 3500               | 59.6                        | 64.6    | 72.1    | 78.6    | 82.3    | 83.3        | 83.9    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.1      | 84.1      | 84.1      | 84.1    |
| GE 3000               | 60.4                        | 65.4    | 73.3    | 79.9    | 83.8    | 84.8        | 85.3    | 85.4        | 85.4        | 85.4    | 85.4      | 85.4      | 85.6      | 85.6      | 85.6      | 85.6    |
| GE 2500               | 60.6                        | 65.6    | 73.4    | 80.1    | 84.1    | 85.1        | 85.7    | 85.8        | 85.8        | 85.8    | 85.8      | 85.8      | 85.9      | 85.9      | 85.9      | 85.9    |
| GE 2000               | 60.8                        | 65.9    | 73.9    | 80.8    | 85.0    | 86.2        | 86.8    | 86.9        | 86.9        | 86.9    | 86.9      | 86.9      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 1800               | 60.9                        | 66.0    | 74.0    | 80.9    | 85.2    | 86.4        | 87.0    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 1500               | 61.2                        | 66.3    | 74.3    | 81.3    | 85.7    | 87.0        | 87.6    | 87.7        | 87.7        | 87.7    | 87.7      | 87.7      | 87.8      | 87.8      | 87.8      | 87.8    |
| GE 1200               | 61.6                        | 66.7    | 74.9    | 82.2    | 86.8    | 88.1        | 88.8    | 88.9        | 88.9        | 88.9    | 88.9      | 88.9      | 89.0      | 89.0      | 89.0      | 89.0    |
| GE 1000               | 61.9                        | 67.0    | 75.6    | 83.0    | 87.7    | 89.2        | 89.9    | 90.0        | 90.0        | 90.0    | 90.0      | 90.0      | 90.1      | 90.1      | 90.1      | 90.1    |
| GE 900                | 62.1                        | 67.3    | 76.1    | 83.6    | 88.7    | 90.3        | 91.0    | 91.1        | 91.1        | 91.1    | 91.1      | 91.1      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 800                | 62.3                        | 67.6    | 76.6    | 84.0    | 89.1    | 90.8        | 91.4    | 91.6        | 91.6        | 91.6    | 91.6      | 91.6      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 700                | 62.3                        | 67.7    | 76.7    | 84.2    | 89.6    | 91.3        | 92.1    | 92.2        | 92.2        | 92.2    | 92.2      | 92.2      | 92.3      | 92.3      | 92.3      | 92.3    |
| GE 600                | 62.3                        | 67.8    | 76.8    | 85.0    | 90.6    | 92.6        | 93.3    | 93.4        | 93.4        | 93.4    | 93.4      | 93.4      | 93.6      | 93.6      | 93.6      | 93.6    |
| GE 500                | 62.3                        | 67.8    | 76.9    | 85.4    | 92.3    | 94.3        | 95.1    | 95.4        | 95.4        | 95.4    | 95.4      | 95.4      | 95.6      | 95.6      | 95.6      | 95.6    |
| GE 400                | 62.3                        | 67.8    | 76.9    | 85.6    | 93.4    | 95.6        | 96.6    | 96.9        | 96.9        | 97.0    | 97.0      | 97.0      | 97.1      | 97.2      | 97.3      | 97.3    |
| GE 300                | 62.3                        | 67.8    | 77.1    | 85.8    | 93.8    | 95.9        | 97.1    | 97.7        | 97.7        | 97.8    | 97.8      | 97.8      | 97.9      | 98.0      | 98.1      | 98.1    |
| GE 200                | 62.3                        | 67.8    | 77.1    | 85.9    | 94.2    | 96.4        | 97.8    | 98.4        | 98.4        | 98.6    | 98.7      | 98.7      | 99.1      | 99.2      | 99.6      | 99.6    |
| GE 100                | 62.3                        | 67.8    | 77.1    | 85.9    | 94.2    | 96.4        | 97.9    | 98.6        | 98.6        | 98.7    | 98.8      | 98.8      | 99.2      | 99.3      | 99.8      | 99.8    |
| GE 000                | 62.3                        | 67.8    | 77.1    | 85.9    | 94.2    | 96.4        | 97.9    | 98.6        | 98.6        | 98.8    | 98.9      | 98.9      | 99.3      | 99.4      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 25.0                        | 33.3    | 43.2    | 48.9    | 53.2    | 54.6        | 55.1    | 55.4        | 55.4        | 55.7    | 55.7      | 55.7      | 55.8      | 55.8      | 55.9      | 55.9    |
| GE 20000              | 27.2                        | 36.3    | 47.6    | 54.8    | 59.8    | 61.4        | 62.1    | 62.8        | 62.8        | 63.0    | 63.1      | 63.1      | 63.2      | 63.2      | 63.3      | 63.3    |
| GE 18000              | 27.2                        | 36.3    | 47.6    | 54.8    | 59.8    | 61.4        | 62.1    | 62.8        | 62.8        | 63.0    | 63.1      | 63.1      | 63.2      | 63.2      | 63.3      | 63.3    |
| GE 16000              | 27.2                        | 36.3    | 47.6    | 54.9    | 59.9    | 61.6        | 62.2    | 62.9        | 62.9        | 63.1    | 63.2      | 63.2      | 63.3      | 63.3      | 63.4      | 63.4    |
| GE 14000              | 27.6                        | 36.7    | 48.0    | 55.6    | 60.8    | 62.4        | 63.2    | 63.9        | 63.9        | 64.1    | 64.2      | 64.2      | 64.3      | 64.3      | 64.4      | 64.4    |
| GE 12000              | 28.2                        | 37.7    | 49.6    | 57.6    | 63.2    | 64.9        | 65.7    | 66.3        | 66.3        | 66.6    | 66.7      | 66.7      | 66.8      | 66.8      | 66.9      | 66.9    |
| GE 10000              | 30.1                        | 40.1    | 52.4    | 61.6    | 67.6    | 69.2        | 70.0    | 70.7        | 70.7        | 70.9    | 71.0      | 71.0      | 71.1      | 71.1      | 71.2      | 71.2    |
| GE 9000               | 30.2                        | 40.4    | 53.0    | 62.3    | 68.3    | 70.0        | 70.8    | 71.4        | 71.4        | 71.7    | 71.8      | 71.8      | 71.9      | 71.9      | 72.0      | 72.0    |
| GE 8000               | 31.6                        | 42.4    | 55.9    | 65.4    | 72.1    | 73.8        | 74.6    | 75.3        | 75.4        | 75.7    | 75.6      | 75.8      | 75.9      | 75.9      | 76.0      | 76.0    |
| GE 7000               | 32.4                        | 43.4    | 57.2    | 66.9    | 73.6    | 75.2        | 76.0    | 76.8        | 76.9        | 77.1    | 77.2      | 77.2      | 77.3      | 77.3      | 77.4      | 77.4    |
| GE 6000               | 32.7                        | 43.9    | 57.7    | 67.4    | 74.1    | 75.8        | 76.6    | 77.3        | 77.4        | 77.7    | 77.8      | 77.8      | 77.9      | 77.9      | 78.0      | 78.0    |
| GE 5000               | 32.8                        | 44.0    | 57.8    | 67.7    | 74.3    | 76.0        | 76.8    | 77.6        | 77.7        | 77.9    | 78.0      | 78.0      | 78.1      | 78.1      | 78.2      | 78.2    |
| GE 4500               | 33.0                        | 44.2    | 58.0    | 67.9    | 74.7    | 76.3        | 77.1    | 77.9        | 78.0        | 78.2    | 78.3      | 78.3      | 78.4      | 78.4      | 78.6      | 78.6    |
| GE 4000               | 33.3                        | 44.7    | 58.4    | 68.4    | 75.4    | 77.1        | 77.9    | 78.7        | 78.8        | 79.0    | 79.1      | 79.1      | 79.2      | 79.2      | 79.3      | 79.3    |
| GE 3500               | 33.7                        | 45.0    | 58.9    | 68.9    | 76.0    | 77.7        | 78.4    | 79.2        | 79.3        | 79.6    | 79.7      | 79.7      | 79.8      | 79.8      | 79.9      | 79.9    |
| GE 3000               | 34.2                        | 45.6    | 59.4    | 69.6    | 76.8    | 78.4        | 79.2    | 80.0        | 80.1        | 80.3    | 80.4      | 80.4      | 80.6      | 80.6      | 80.7      | 80.7    |
| GE 2500               | 34.3                        | 45.8    | 59.9    | 70.1    | 77.4    | 79.1        | 79.9    | 80.7        | 80.8        | 81.0    | 81.1      | 81.1      | 81.2      | 81.2      | 81.3      | 81.3    |
| GE 2000               | 35.3                        | 47.0    | 61.3    | 71.7    | 79.6    | 81.6        | 82.3    | 83.1        | 83.2        | 83.4    | 83.6      | 83.6      | 83.7      | 83.7      | 83.8      | 83.8    |
| GE 1800               | 35.4                        | 47.1    | 61.4    | 71.8    | 79.7    | 81.7        | 82.4    | 83.2        | 83.3        | 83.6    | 83.7      | 83.7      | 83.8      | 83.8      | 83.9      | 83.9    |
| GE 1500               | 36.1                        | 47.9    | 62.2    | 72.6    | 80.7    | 82.8        | 83.6    | 84.3        | 84.4        | 84.7    | 84.8      | 84.8      | 84.9      | 84.9      | 85.0      | 85.0    |
| GE 1200               | 36.4                        | 48.4    | 63.0    | 73.6    | 81.9    | 84.3        | 85.1    | 86.0        | 86.1        | 86.3    | 86.4      | 86.4      | 86.6      | 86.6      | 86.7      | 86.7    |
| GE 1000               | 37.2                        | 49.4    | 64.1    | 75.0    | 83.9    | 86.6        | 87.3    | 88.2        | 88.3        | 88.6    | 88.7      | 88.7      | 88.8      | 88.8      | 88.9      | 88.9    |
| GE 900                | 37.2                        | 49.6    | 64.2    | 75.1    | 84.3    | 87.1        | 87.9    | 88.8        | 88.9        | 89.1    | 89.2      | 89.2      | 89.3      | 89.3      | 89.4      | 89.4    |
| GE 800                | 37.6                        | 49.9    | 64.6    | 75.4    | 84.7    | 87.9        | 88.7    | 89.6        | 89.7        | 89.9    | 90.0      | 90.0      | 90.1      | 90.1      | 90.2      | 90.2    |
| GE 700                | 37.7                        | 50.4    | 65.4    | 76.9    | 86.3    | 89.6        | 90.4    | 91.4        | 91.6        | 91.8    | 91.9      | 91.9      | 92.0      | 92.0      | 92.1      | 92.1    |
| GE 600                | 37.7                        | 50.6    | 65.7    | 77.2    | 87.2    | 90.6        | 91.8    | 92.9        | 93.2        | 93.4    | 93.6      | 93.6      | 93.7      | 93.7      | 93.8      | 93.8    |
| GE 500                | 37.8                        | 50.8    | 65.9    | 77.6    | 87.8    | 91.3        | 92.8    | 94.1        | 94.4        | 94.8    | 94.9      | 94.9      | 95.0      | 95.1      | 95.2      | 95.2    |
| GE 400                | 37.8                        | 50.8    | 65.9    | 77.8    | 88.6    | 92.2        | 94.0    | 95.7        | 96.1        | 96.6    | 96.8      | 96.8      | 97.0      | 97.1      | 97.2      | 97.3    |
| GE 300                | 37.8                        | 50.8    | 65.9    | 77.9    | 88.7    | 92.4        | 94.3    | 96.2        | 96.7        | 97.2    | 97.6      | 97.6      | 97.8      | 97.9      | 98.1      | 98.4    |
| GE 200                | 37.8                        | 50.8    | 65.9    | 77.9    | 88.8    | 92.6        | 94.4    | 96.3        | 96.8        | 97.3    | 97.7      | 97.7      | 98.2      | 98.4      | 98.7      | 99.1    |
| GE 100                | 37.8                        | 50.8    | 65.9    | 77.9    | 88.8    | 92.6        | 94.4    | 96.3        | 96.8        | 97.3    | 97.7      | 97.7      | 98.2      | 98.4      | 99.1      | 99.7    |
| GE 000                | 37.8                        | 50.8    | 65.9    | 77.9    | 88.8    | 92.6        | 94.4    | 96.3        | 96.8        | 97.3    | 97.7      | 97.7      | 98.2      | 98.4      | 99.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 35.7                        | 46.4    | 54.2    | 58.6    | 59.2    | 59.3        | 59.6    | 59.6        | 59.6        | 59.6    | 59.6      | 59.6      | 59.6      | 59.6      | 59.6      | 59.6    |
| GE 20000              | 40.3                        | 53.0    | 61.9    | 66.7    | 67.6    | 67.7        | 67.9    | 67.9        | 67.9        | 67.9    | 67.9      | 67.9      | 67.9      | 67.9      | 67.9      | 67.9    |
| GE 18000              | 40.3                        | 53.0    | 61.9    | 66.7    | 67.6    | 67.7        | 67.9    | 67.9        | 67.9        | 67.9    | 67.9      | 67.9      | 67.9      | 67.9      | 67.9      | 67.9    |
| GE 16000              | 40.3                        | 53.0    | 61.9    | 66.7    | 67.6    | 67.7        | 67.9    | 67.9        | 67.9        | 67.9    | 67.9      | 67.9      | 67.9      | 67.9      | 67.9      | 67.9    |
| GE 14000              | 40.4                        | 53.1    | 62.3    | 67.1    | 68.0    | 68.1        | 68.3    | 68.3        | 68.3        | 68.3    | 68.3      | 68.3      | 68.3      | 68.3      | 68.3      | 68.3    |
| GE 12000              | 41.4                        | 54.2    | 64.0    | 69.3    | 70.2    | 70.3        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 10000              | 45.1                        | 59.7    | 70.1    | 75.6    | 76.4    | 76.6        | 76.8    | 76.8        | 76.8        | 76.8    | 76.8      | 76.8      | 76.8      | 76.8      | 76.8      | 76.8    |
| GE 9000               | 45.8                        | 60.3    | 70.8    | 76.2    | 77.1    | 77.2        | 77.4    | 77.4        | 77.4        | 77.4    | 77.4      | 77.4      | 77.4      | 77.4      | 77.4      | 77.4    |
| GE 8000               | 49.4                        | 64.0    | 74.6    | 80.1    | 81.0    | 81.1        | 81.3    | 81.3        | 81.3        | 81.3    | 81.3      | 81.3      | 81.3      | 81.3      | 81.3      | 81.3    |
| GE 7000               | 49.9                        | 64.7    | 75.2    | 80.8    | 81.8    | 81.9        | 82.1    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.1      | 82.1      | 82.1      | 82.1    |
| GE 6000               | 50.0                        | 64.8    | 75.3    | 80.9    | 81.9    | 82.0        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 5000               | 50.9                        | 65.7    | 76.2    | 81.8    | 82.8    | 82.9        | 83.1    | 83.1        | 83.1        | 83.1    | 83.1      | 83.1      | 83.1      | 83.1      | 83.1      | 83.1    |
| GE 4500               | 51.0                        | 65.8    | 76.3    | 82.0    | 83.0    | 83.1        | 83.3    | 83.3        | 83.3        | 83.3    | 83.3      | 83.3      | 83.3      | 83.3      | 83.3      | 83.3    |
| GE 4000               | 51.1                        | 66.0    | 76.9    | 82.7    | 83.7    | 83.8        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 3500               | 51.8                        | 67.1    | 78.2    | 84.0    | 85.0    | 85.1        | 85.3    | 85.3        | 85.3        | 85.3    | 85.3      | 85.3      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 3000               | 53.0                        | 69.0    | 80.9    | 86.8    | 87.8    | 87.9        | 88.1    | 88.1        | 88.1        | 88.1    | 88.1      | 88.1      | 88.1      | 88.1      | 88.1      | 88.1    |
| GE 2500               | 53.1                        | 69.3    | 81.4    | 87.4    | 88.4    | 88.6        | 88.8    | 88.8        | 88.8        | 88.8    | 88.8      | 88.8      | 88.8      | 88.8      | 88.8      | 88.8    |
| GE 2000               | 54.6                        | 71.7    | 83.9    | 90.0    | 91.3    | 91.4        | 91.7    | 91.7        | 91.7        | 91.7    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 1800               | 54.7                        | 71.9    | 84.2    | 90.3    | 91.7    | 91.8        | 92.0    | 92.0        | 92.0        | 92.0    | 92.0      | 92.0      | 92.0      | 92.0      | 92.0      | 92.0    |
| GE 1500               | 55.8                        | 73.6    | 86.3    | 92.7    | 94.2    | 94.3        | 94.6    | 94.6        | 94.6        | 94.6    | 94.6      | 94.6      | 94.6      | 94.6      | 94.6      | 94.6    |
| GE 1200               | 56.4                        | 74.2    | 87.7    | 94.7    | 96.4    | 96.7        | 96.9    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 1000               | 56.6                        | 74.4    | 87.9    | 95.3    | 97.1    | 97.4        | 97.8    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 900                | 56.6                        | 74.7    | 88.3    | 95.8    | 97.6    | 97.9        | 98.2    | 98.2        | 98.2        | 98.2    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 800                | 56.7                        | 74.9    | 88.7    | 96.1    | 98.3    | 98.7        | 99.0    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 700                | 56.7                        | 74.9    | 88.7    | 96.2    | 98.4    | 98.8        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 600                | 56.7                        | 74.9    | 88.8    | 96.3    | 98.8    | 99.2        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 500                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 56.7                        | 74.9    | 88.8    | 96.3    | 99.0    | 99.6        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 42.8                        | 50.7    | 56.2    | 59.2    | 59.2    | 59.2        | 59.2    | 59.2        | 59.2        | 59.2    | 59.2      | 59.2      | 59.2      | 59.2      | 59.2      | 59.2    |
| GE 20000              | 50.2                        | 60.8    | 67.3    | 71.0    | 71.0    | 71.0        | 71.0    | 71.0        | 71.0        | 71.0    | 71.0      | 71.0      | 71.0      | 71.0      | 71.0      | 71.0    |
| GE 18000              | 50.3                        | 60.9    | 67.4    | 71.2    | 71.2    | 71.2        | 71.2    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.2      | 71.2      | 71.2      | 71.2    |
| GE 16000              | 50.3                        | 60.9    | 67.4    | 71.2    | 71.2    | 71.2        | 71.2    | 71.2        | 71.2        | 71.2    | 71.2      | 71.2      | 71.2      | 71.2      | 71.2      | 71.2    |
| GE 14000              | 50.7                        | 61.6    | 68.3    | 72.1    | 72.1    | 72.1        | 72.1    | 72.1        | 72.1        | 72.1    | 72.1      | 72.1      | 72.1      | 72.1      | 72.1      | 72.1    |
| GE 12000              | 52.0                        | 63.1    | 70.0    | 74.0    | 74.1    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 10000              | 56.7                        | 68.3    | 75.4    | 79.6    | 79.7    | 79.7        | 79.7    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.7      | 79.7    |
| GE 9000               | 57.1                        | 68.8    | 75.9    | 80.2    | 80.3    | 80.3        | 80.3    | 80.3        | 80.3        | 80.3    | 80.3      | 80.3      | 80.3      | 80.3      | 80.3      | 80.3    |
| GE 8000               | 60.0                        | 72.0    | 79.6    | 84.0    | 84.1    | 84.1        | 84.1    | 84.1        | 84.1        | 84.1    | 84.1      | 84.1      | 84.1      | 84.1      | 84.1      | 84.1    |
| GE 7000               | 60.1                        | 72.2    | 79.8    | 84.2    | 84.3    | 84.3        | 84.3    | 84.3        | 84.3        | 84.3    | 84.3      | 84.3      | 84.3      | 84.3      | 84.3      | 84.3    |
| GE 6000               | 60.4                        | 72.6    | 80.2    | 84.7    | 84.8    | 84.8        | 84.8    | 84.8        | 84.8        | 84.8    | 84.8      | 84.8      | 84.8      | 84.8      | 84.8      | 84.8    |
| GE 5000               | 60.8                        | 73.2    | 80.9    | 85.4    | 85.7    | 85.7        | 85.7    | 85.7        | 85.7        | 85.7    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 4500               | 61.2                        | 73.7    | 81.3    | 85.9    | 86.1    | 86.1        | 86.1    | 86.1        | 86.1        | 86.1    | 86.1      | 86.1      | 86.1      | 86.1      | 86.1      | 86.1    |
| GE 4000               | 62.7                        | 75.8    | 83.9    | 88.7    | 89.1    | 89.2        | 89.2    | 89.2        | 89.2        | 89.2    | 89.2      | 89.2      | 89.2      | 89.2      | 89.2      | 89.2    |
| GE 3500               | 63.2                        | 77.2    | 85.8    | 90.7    | 91.2    | 91.4        | 91.4    | 91.4        | 91.4        | 91.4    | 91.4      | 91.4      | 91.4      | 91.4      | 91.4      | 91.4    |
| GE 3000               | 65.8                        | 80.3    | 89.1    | 94.3    | 95.0    | 95.3        | 95.3    | 95.3        | 95.3        | 95.3    | 95.3      | 95.3      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 2500               | 66.1                        | 81.0    | 89.8    | 95.0    | 95.7    | 96.0        | 96.0    | 96.0        | 96.0        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 2000               | 67.2                        | 82.7    | 91.8    | 97.0    | 97.8    | 98.2        | 98.2    | 98.2        | 98.2        | 98.2    | 98.2      | 98.3      | 98.3      | 98.3      | 98.3      | 98.3    |
| GE 1800               | 67.3                        | 82.8    | 91.9    | 97.1    | 97.9    | 98.3        | 98.3    | 98.3        | 98.3        | 98.3    | 98.3      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 1500               | 67.7                        | 83.2    | 92.3    | 97.8    | 98.6    | 99.0        | 99.0    | 99.0        | 99.0        | 99.0    | 99.0      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 1200               | 67.9                        | 83.4    | 92.6    | 98.0    | 98.8    | 99.4        | 99.4    | 99.4        | 99.4        | 99.4    | 99.4      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 1000               | 67.9                        | 83.4    | 92.6    | 98.0    | 98.8    | 99.4        | 99.4    | 99.4        | 99.4        | 99.4    | 99.4      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 900                | 67.9                        | 83.4    | 92.6    | 98.0    | 98.8    | 99.4        | 99.4    | 99.4        | 99.4        | 99.4    | 99.4      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 800                | 68.0                        | 83.6    | 92.7    | 98.1    | 98.9    | 99.6        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 700                | 68.0                        | 83.6    | 92.7    | 98.1    | 98.9    | 99.6        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 600                | 68.0                        | 83.6    | 92.7    | 98.1    | 98.9    | 99.6        | 99.6    | 99.6        | 99.6        | 99.6    | 99.6      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 500                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 68.0                        | 83.6    | 92.7    | 98.1    | 99.1    | 99.9        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 44.1                        | 51.1    | 55.9    | 57.9    | 58.1    | 58.1        | 58.1    | 58.1        | 58.1        | 58.1    | 58.1      | 58.1      | 58.1      | 58.1      | 58.1      | 58.1    |
| GE 20000              | 53.2                        | 63.3    | 69.7    | 72.4    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 18000              | 53.2                        | 63.3    | 69.7    | 72.4    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 16000              | 53.2                        | 63.3    | 69.7    | 72.4    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 14000              | 53.2                        | 63.3    | 69.7    | 72.4    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 12000              | 53.9                        | 64.3    | 71.0    | 73.9    | 74.1    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 10000              | 57.3                        | 68.9    | 76.4    | 79.7    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |
| GE 9000               | 57.6                        | 69.1    | 76.7    | 79.9    | 80.1    | 80.1        | 80.1    | 80.1        | 80.1        | 80.1    | 80.1      | 80.1      | 80.1      | 80.1      | 80.1      | 80.1    |
| GE 8000               | 60.2                        | 72.3    | 80.2    | 83.8    | 84.0    | 84.0        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 7000               | 60.6                        | 72.8    | 80.8    | 84.4    | 84.7    | 84.7        | 84.7    | 84.7        | 84.7        | 84.7    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.7    |
| GE 6000               | 60.7                        | 72.9    | 81.0    | 84.7    | 84.9    | 84.9        | 84.9    | 84.9        | 84.9        | 84.9    | 84.9      | 84.9      | 84.9      | 84.9      | 84.9      | 84.9    |
| GE 5000               | 61.0                        | 73.6    | 81.9    | 85.7    | 86.0    | 86.0        | 86.0    | 86.0        | 86.0        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 4500               | 61.4                        | 74.0    | 82.6    | 86.3    | 86.8    | 86.8        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 4000               | 62.8                        | 76.3    | 86.0    | 89.9    | 90.8    | 90.9        | 91.0    | 91.0        | 91.0        | 91.0    | 91.0      | 91.0      | 91.0      | 91.0      | 91.0      | 91.0    |
| GE 3500               | 64.4                        | 78.4    | 88.1    | 92.4    | 93.3    | 93.6        | 93.7    | 93.7        | 93.7        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 3000               | 65.7                        | 80.7    | 91.0    | 95.3    | 96.4    | 96.7        | 96.9    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 2500               | 66.3                        | 81.3    | 91.9    | 96.3    | 97.4    | 97.9        | 98.1    | 98.1        | 98.1        | 98.1    | 98.1      | 98.1      | 98.1      | 98.1      | 98.1      | 98.1    |
| GE 2000               | 66.8                        | 81.8    | 92.4    | 96.9    | 98.0    | 98.4        | 98.7    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 1800               | 66.8                        | 81.8    | 92.4    | 96.9    | 98.0    | 98.4        | 98.7    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 1500               | 66.9                        | 81.9    | 92.6    | 97.0    | 98.1    | 98.6        | 98.9    | 99.0        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 1200               | 66.9                        | 81.9    | 92.6    | 97.0    | 98.2    | 98.7        | 99.1    | 99.2        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 1000               | 67.0                        | 82.0    | 92.7    | 97.1    | 98.3    | 98.8        | 99.2    | 99.3        | 99.3        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 900                | 67.0                        | 82.0    | 92.7    | 97.1    | 98.3    | 98.8        | 99.2    | 99.3        | 99.3        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 800                | 67.0                        | 82.0    | 92.7    | 97.1    | 98.3    | 98.9        | 99.3    | 99.4        | 99.4        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 700                | 67.0                        | 82.0    | 92.7    | 97.2    | 98.4    | 99.0        | 99.4    | 99.6        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 600                | 67.0                        | 82.0    | 92.7    | 97.2    | 98.6    | 99.1        | 99.6    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 500                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 67.1                        | 82.1    | 92.8    | 97.3    | 98.8    | 99.3        | 99.8    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 -- MAR 89  
MONTH: JUN HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 44.7                        | 50.8    | 54.0    | 56.8    | 56.9    | 56.9        | 56.9    | 56.9        | 56.9        | 56.9    | 56.9      | 56.9      | 56.9      | 56.9      | 56.9      | 56.9    |
| GE 20000              | 53.6                        | 62.9    | 68.0    | 71.2    | 71.3    | 71.4        | 71.4    | 71.4        | 71.4        | 71.4    | 71.4      | 71.4      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 18000              | 53.8                        | 63.1    | 68.2    | 71.4    | 71.6    | 71.7        | 71.7    | 71.7        | 71.7        | 71.7    | 71.7      | 71.7      | 71.7      | 71.7      | 71.7      | 71.7    |
| GE 16000              | 53.8                        | 63.1    | 68.2    | 71.4    | 71.6    | 71.7        | 71.7    | 71.7        | 71.7        | 71.7    | 71.7      | 71.7      | 71.7      | 71.7      | 71.7      | 71.7    |
| GE 14000              | 54.0                        | 63.3    | 68.6    | 71.8    | 71.9    | 72.0        | 72.0    | 72.0        | 72.0        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.0      | 72.0    |
| GE 12000              | 54.6                        | 64.2    | 69.7    | 73.1    | 73.2    | 73.3        | 73.3    | 73.3        | 73.3        | 73.3    | 73.3      | 73.3      | 73.3      | 73.3      | 73.3      | 73.3    |
| GE 10000              | 58.2                        | 68.9    | 75.9    | 79.6    | 79.7    | 79.8        | 79.8    | 79.8        | 79.8        | 79.8    | 79.8      | 79.8      | 79.8      | 79.8      | 79.8      | 79.8    |
| GE 9000               | 58.3                        | 69.0    | 76.1    | 79.8    | 79.9    | 80.0        | 80.0    | 80.0        | 80.0        | 80.0    | 80.0      | 80.0      | 80.0      | 80.0      | 80.0      | 80.0    |
| GE 8000               | 61.4                        | 73.2    | 80.9    | 84.8    | 85.0    | 85.1        | 85.1    | 85.1        | 85.1        | 85.1    | 85.1      | 85.1      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 7000               | 62.3                        | 74.1    | 81.9    | 85.8    | 86.0    | 86.1        | 86.1    | 86.1        | 86.1        | 86.1    | 86.1      | 86.1      | 86.1      | 86.1      | 86.1      | 86.1    |
| GE 6000               | 62.7                        | 74.4    | 82.6    | 86.4    | 86.7    | 86.8        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 5000               | 62.9                        | 74.7    | 83.1    | 87.0    | 87.2    | 87.3        | 87.3    | 87.3        | 87.3        | 87.3    | 87.3      | 87.3      | 87.3      | 87.3      | 87.3      | 87.3    |
| GE 4500               | 63.1                        | 75.0    | 83.6    | 87.6    | 87.9    | 88.0        | 88.0    | 88.0        | 88.0        | 88.0    | 88.0      | 88.0      | 88.0      | 88.0      | 88.0      | 88.0    |
| GE 4000               | 64.6                        | 77.2    | 86.6    | 90.8    | 91.2    | 91.3        | 91.3    | 91.4        | 91.4        | 91.4    | 91.4      | 91.4      | 91.4      | 91.4      | 91.4      | 91.4    |
| GE 3500               | 65.9                        | 78.7    | 88.3    | 92.8    | 93.4    | 94.0        | 94.0    | 94.1        | 94.1        | 94.1    | 94.1      | 94.1      | 94.1      | 94.1      | 94.1      | 94.1    |
| GE 3000               | 66.4                        | 80.2    | 90.0    | 94.8    | 95.6    | 96.1        | 96.2    | 96.3        | 96.3        | 96.3    | 96.3      | 96.3      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 2500               | 66.7                        | 80.4    | 90.3    | 95.1    | 96.0    | 96.6        | 96.7    | 96.8        | 96.8        | 96.8    | 96.8      | 96.8      | 96.8      | 96.8      | 96.8      | 96.8    |
| GE 2000               | 67.3                        | 81.1    | 91.0    | 95.8    | 96.7    | 97.2        | 97.3    | 97.4        | 97.4        | 97.4    | 97.4      | 97.4      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 1800               | 67.4                        | 81.2    | 91.1    | 95.9    | 96.8    | 97.3        | 97.4    | 97.6        | 97.6        | 97.6    | 97.6      | 97.6      | 97.6      | 97.6      | 97.6      | 97.6    |
| GE 1500               | 67.7                        | 81.4    | 91.4    | 96.3    | 97.2    | 97.8        | 97.9    | 98.0        | 98.0        | 98.0    | 98.0      | 98.0      | 98.0      | 98.0      | 98.0      | 98.0    |
| GE 1200               | 67.8                        | 81.6    | 91.8    | 97.0    | 97.9    | 98.6        | 98.7    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 1000               | 68.0                        | 81.8    | 92.0    | 97.2    | 98.2    | 98.9        | 99.0    | 99.1        | 99.1        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 900                | 68.0                        | 81.8    | 92.0    | 97.2    | 98.2    | 98.9        | 99.0    | 99.1        | 99.1        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 800                | 68.0                        | 81.8    | 92.0    | 97.2    | 98.2    | 98.9        | 99.1    | 99.2        | 99.2        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 700                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.3    | 99.0        | 99.3    | 99.4        | 99.4        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 600                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 500                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 68.0                        | 81.8    | 92.0    | 97.3    | 98.4    | 99.1        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 61.9    | 65.4    | 66.9    | 67.2    | 67.2        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.2    |
| GE 20000              | 65.8                        | 69.6    | 74.4    | 75.9    | 76.4    | 76.4        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 18000              | 65.8                        | 69.6    | 74.4    | 75.9    | 76.4    | 76.4        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 16000              | 65.8                        | 69.6    | 74.4    | 75.9    | 76.4    | 76.4        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 14000              | 65.9                        | 69.7    | 74.6    | 76.0    | 76.6    | 76.6        | 76.7    | 76.7        | 76.7        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.7      | 76.7    |
| GE 12000              | 66.0                        | 69.9    | 74.8    | 76.6    | 77.1    | 77.1        | 77.2    | 77.2        | 77.2        | 77.2    | 77.2      | 77.2      | 77.2      | 77.2      | 77.2      | 77.2    |
| GE 10000              | 70.1                        | 74.2    | 79.4    | 81.4    | 82.1    | 82.1        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 9000               | 70.3                        | 74.4    | 79.7    | 81.7    | 82.3    | 82.3        | 82.4    | 82.4        | 82.4        | 82.4    | 82.4      | 82.4      | 82.4      | 82.4      | 82.4      | 82.4    |
| GE 8000               | 74.3                        | 78.4    | 83.7    | 86.0    | 86.7    | 86.7        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 7000               | 74.4                        | 78.6    | 83.8    | 86.1    | 86.8    | 86.8        | 86.9    | 86.9        | 86.9        | 86.9    | 86.9      | 86.9      | 86.9      | 86.9      | 86.9      | 86.9    |
| GE 6000               | 74.6                        | 79.2    | 84.4    | 86.8    | 87.4    | 87.4        | 87.6    | 87.6        | 87.6        | 87.6    | 87.6      | 87.6      | 87.6      | 87.6      | 87.6      | 87.6    |
| GE 5000               | 75.2                        | 80.2    | 85.9    | 88.3    | 89.0    | 89.0        | 89.1    | 89.1        | 89.1        | 89.1    | 89.1      | 89.1      | 89.1      | 89.1      | 89.1      | 89.1    |
| GE 4500               | 75.4                        | 80.4    | 86.1    | 88.6    | 89.2    | 89.2        | 89.3    | 89.3        | 89.3        | 89.3    | 89.3      | 89.3      | 89.3      | 89.3      | 89.3      | 89.3    |
| GE 4000               | 77.0                        | 82.0    | 87.9    | 90.3    | 91.1    | 91.4        | 91.6    | 91.6        | 91.6        | 91.6    | 91.6      | 91.6      | 91.6      | 91.6      | 91.6      | 91.6    |
| GE 3500               | 77.8                        | 82.8    | 88.8    | 91.2    | 92.0    | 92.6        | 92.7    | 92.7        | 92.7        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 3000               | 78.8                        | 84.2    | 90.6    | 93.0    | 93.8    | 94.3        | 94.4    | 94.7        | 94.7        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 2500               | 79.2                        | 84.8    | 91.4    | 93.9    | 94.7    | 95.2        | 95.3    | 95.6        | 95.6        | 95.6    | 95.6      | 95.6      | 95.6      | 95.6      | 95.6      | 95.6    |
| GE 2000               | 79.4                        | 85.0    | 91.9    | 94.3    | 95.1    | 95.7        | 95.8    | 96.0        | 96.0        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 1800               | 79.7                        | 85.2    | 92.1    | 94.6    | 95.3    | 95.9        | 96.0    | 96.2        | 96.2        | 96.2    | 96.2      | 96.2      | 96.2      | 96.2      | 96.2      | 96.2    |
| GE 1500               | 80.1                        | 85.7    | 92.6    | 95.0    | 95.8    | 96.3        | 96.4    | 96.7        | 96.7        | 96.7    | 96.7      | 96.7      | 96.7      | 96.7      | 96.7      | 96.7    |
| GE 1200               | 80.3                        | 85.9    | 92.9    | 95.3    | 96.1    | 96.7        | 96.8    | 97.0        | 97.0        | 97.0    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 1000               | 80.4                        | 86.0    | 93.0    | 95.6    | 96.6    | 97.1        | 97.2    | 97.4        | 97.4        | 97.4    | 97.4      | 97.4      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 900                | 80.4                        | 86.0    | 93.0    | 95.6    | 96.6    | 97.1        | 97.2    | 97.4        | 97.4        | 97.4    | 97.4      | 97.4      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 800                | 80.4                        | 86.0    | 93.2    | 95.9    | 97.0    | 97.6        | 97.7    | 97.9        | 97.9        | 97.9    | 97.9      | 97.9      | 97.9      | 97.9      | 97.9      | 97.9    |
| GE 700                | 80.4                        | 86.0    | 93.3    | 96.1    | 97.2    | 97.9        | 98.2    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 600                | 80.7                        | 86.2    | 93.6    | 96.3    | 97.4    | 98.1        | 98.4    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 500                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.2    | 99.0        | 99.3    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 400                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.4    | 99.2        | 99.6    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 300                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.4    | 99.2        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.4    | 99.2        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.4    | 99.2        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 80.7                        | 86.4    | 93.8    | 97.0    | 98.4    | 99.2        | 99.7    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>C |
| NO CEIL               | 44.5                        | 50.8    | 56.4    | 59.5    | 60.6    | 60.9        | 61.1    | 61.1        | 61.1        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 20000              | 50.7                        | 58.6    | 65.5    | 69.3    | 70.7    | 71.0        | 71.2    | 71.3        | 71.3        | 71.3    | 71.4      | 71.4      | 71.4      | 71.4      | 71.4      | 71.4    |
| GE 18000              | 50.8                        | 58.7    | 65.6    | 69.4    | 70.7    | 71.1        | 71.3    | 71.4        | 71.4        | 71.4    | 71.4      | 71.4      | 71.4      | 71.4      | 71.5      | 71.5    |
| GE 16000              | 50.8                        | 58.7    | 65.6    | 69.4    | 70.7    | 71.1        | 71.3    | 71.4        | 71.4        | 71.4    | 71.4      | 71.4      | 71.5      | 71.5      | 71.5      | 71.5    |
| GE 14000              | 50.9                        | 58.9    | 65.9    | 69.7    | 71.1    | 71.4        | 71.6    | 71.8        | 71.8        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 71.8      | 71.8    |
| GE 12000              | 51.5                        | 59.7    | 66.9    | 71.0    | 72.5    | 72.8        | 73.0    | 73.2        | 73.2        | 73.2    | 73.2      | 73.2      | 73.2      | 73.2      | 73.3      | 73.3    |
| GE 10000              | 55.3                        | 64.2    | 71.9    | 76.4    | 77.9    | 78.3        | 78.5    | 78.6        | 78.6        | 78.6    | 78.6      | 78.6      | 78.6      | 78.7      | 78.7      | 78.7    |
| GE 9000               | 55.6                        | 64.4    | 72.3    | 76.8    | 78.3    | 78.7        | 78.9    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.1      | 79.1      | 79.1      | 79.1    |
| GE 8000               | 58.3                        | 67.5    | 75.7    | 80.4    | 82.0    | 82.4        | 82.6    | 82.7        | 82.7        | 82.8    | 82.8      | 82.8      | 82.8      | 82.8      | 82.8      | 82.8    |
| GE 7000               | 58.8                        | 68.1    | 76.3    | 81.1    | 82.7    | 83.1        | 83.3    | 83.4        | 83.4        | 83.5    | 83.5      | 83.5      | 83.5      | 83.5      | 83.5      | 83.5    |
| GE 6000               | 59.0                        | 68.4    | 76.7    | 81.5    | 83.2    | 83.5        | 83.7    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 84.0      | 84.0    |
| GE 5000               | 59.4                        | 69.1    | 77.5    | 82.3    | 84.1    | 84.4        | 84.6    | 84.8        | 84.8        | 84.8    | 84.8      | 84.8      | 84.8      | 84.8      | 84.9      | 84.9    |
| GE 4500               | 59.7                        | 69.4    | 77.8    | 82.7    | 84.5    | 84.8        | 85.0    | 85.2        | 85.2        | 85.2    | 85.2      | 85.2      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 4000               | 60.8                        | 70.8    | 79.7    | 84.8    | 86.8    | 87.2        | 87.4    | 87.6        | 87.6        | 87.6    | 87.7      | 87.7      | 87.7      | 87.7      | 87.7      | 87.7    |
| GE 3500               | 61.5                        | 71.7    | 80.9    | 86.1    | 88.1    | 88.6        | 88.9    | 89.0        | 89.0        | 89.1    | 89.1      | 89.1      | 89.1      | 89.1      | 89.1      | 89.1    |
| GE 3000               | 62.6                        | 73.3    | 82.8    | 88.1    | 90.2    | 90.8        | 91.0    | 91.2        | 91.2        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 2500               | 62.9                        | 73.7    | 83.3    | 88.7    | 90.8    | 91.4        | 91.7    | 91.9        | 91.9        | 91.9    | 91.9      | 91.9      | 92.0      | 92.0      | 92.0      | 92.0    |
| GE 2000               | 63.6                        | 74.6    | 84.3    | 89.8    | 92.1    | 92.8        | 93.1    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.3      | 93.3      | 93.4      | 93.4    |
| GE 1800               | 63.7                        | 74.7    | 84.5    | 89.9    | 92.3    | 92.9        | 93.2    | 93.4        | 93.4        | 93.4    | 93.5      | 93.5      | 93.5      | 93.5      | 93.5      | 93.5    |
| GE 1500               | 64.1                        | 75.2    | 85.1    | 90.6    | 93.1    | 93.8        | 94.0    | 94.2        | 94.2        | 94.3    | 94.3      | 94.3      | 94.3      | 94.3      | 94.3      | 94.3    |
| GE 1200               | 64.4                        | 75.5    | 85.6    | 91.3    | 93.8    | 94.6        | 94.9    | 95.2        | 95.2        | 95.2    | 95.2      | 95.2      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 1000               | 64.6                        | 75.8    | 85.9    | 91.8    | 94.5    | 95.4        | 95.7    | 95.9        | 95.9        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 900                | 64.6                        | 75.9    | 86.1    | 92.0    | 94.8    | 95.7        | 96.0    | 96.2        | 96.2        | 96.3    | 96.3      | 96.3      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 800                | 64.7                        | 76.0    | 86.3    | 92.2    | 95.1    | 96.1        | 96.4    | 96.7        | 96.7        | 96.7    | 96.7      | 96.7      | 96.8      | 96.8      | 96.8      | 96.8    |
| GE 700                | 64.7                        | 76.1    | 86.4    | 92.5    | 95.5    | 96.5        | 96.9    | 97.2        | 97.2        | 97.2    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 600                | 64.8                        | 76.1    | 86.5    | 92.7    | 95.9    | 96.9        | 97.4    | 97.7        | 97.7        | 97.7    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 500                | 64.8                        | 76.2    | 86.6    | 92.9    | 96.5    | 97.6        | 98.1    | 98.5        | 98.5        | 98.6    | 98.6      | 98.6      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 400                | 64.8                        | 76.2    | 86.6    | 93.0    | 96.8    | 97.9        | 98.5    | 98.9        | 99.0        | 99.1    | 99.1      | 99.1      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 300                | 64.8                        | 76.2    | 86.7    | 93.1    | 96.9    | 98.0        | 98.7    | 99.1        | 99.2        | 99.3    | 99.4      | 99.4      | 99.4      | 99.4      | 99.5      | 99.5    |
| GE 200                | 64.8                        | 76.2    | 86.7    | 93.1    | 97.0    | 98.1        | 98.8    | 99.3        | 99.3        | 99.4    | 99.5      | 99.5      | 99.5      | 99.7      | 99.7      | 99.8    |
| GE 100                | 64.8                        | 76.2    | 86.7    | 93.1    | 97.0    | 98.1        | 98.8    | 99.3        | 99.4        | 99.5    | 99.5      | 99.5      | 99.7      | 99.7      | 99.9      | 99.9    |
| GE 000                | 64.8                        | 76.2    | 86.7    | 93.1    | 97.0    | 98.1        | 98.8    | 99.3        | 99.4        | 99.5    | 99.6      | 99.6      | 99.7      | 99.7      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 48.8                        | 55.6    | 61.5    | 64.9    | 66.3    | 66.3        | 66.3    | 66.3        | 66.3        | 66.3    | 66.3      | 66.3      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 20000              | 55.2                        | 62.6    | 70.3    | 74.3    | 76.1    | 76.2        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.2    |
| GE 18000              | 55.2                        | 62.6    | 70.3    | 74.3    | 76.1    | 76.2        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.2    |
| GE 16000              | 55.2                        | 62.6    | 70.3    | 74.3    | 76.1    | 76.2        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.2    |
| GE 14000              | 55.2                        | 62.6    | 70.3    | 74.3    | 76.1    | 76.2        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.2    |
| GE 12000              | 55.5                        | 62.9    | 70.6    | 74.7    | 76.6    | 76.7        | 76.7    | 76.7        | 76.7        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.7      | 76.7    |
| GE 10000              | 59.7                        | 67.3    | 75.5    | 79.8    | 81.6    | 81.7        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 9000               | 60.0                        | 67.6    | 75.8    | 80.1    | 81.9    | 82.0        | 82.0    | 82.0        | 82.0        | 82.0    | 82.0      | 82.0      | 82.0      | 82.0      | 82.0      | 82.0    |
| GE 8000               | 63.1                        | 71.0    | 79.5    | 84.0    | 85.9    | 86.0        | 86.0    | 86.0        | 86.0        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 7000               | 63.7                        | 71.5    | 80.0    | 84.5    | 86.5    | 86.6        | 86.6    | 86.6        | 86.6        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 6000               | 63.8                        | 71.6    | 80.2    | 84.7    | 86.7    | 86.8        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 5000               | 64.0                        | 71.8    | 80.5    | 85.1    | 87.0    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.1      | 87.1      | 87.1      | 87.1    |
| GE 4500               | 64.1                        | 71.9    | 80.6    | 85.2    | 87.1    | 87.2        | 87.2    | 87.2        | 87.2        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 4000               | 65.6                        | 73.4    | 82.5    | 87.3    | 89.5    | 89.6        | 89.7    | 89.7        | 89.7        | 89.7    | 89.7      | 89.7      | 89.7      | 89.7      | 89.7      | 89.7    |
| GE 3500               | 66.7                        | 74.5    | 83.5    | 88.4    | 90.5    | 90.6        | 90.8    | 90.8        | 90.8        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.8    |
| GE 3000               | 68.0                        | 75.9    | 85.7    | 90.6    | 93.1    | 93.2        | 93.3    | 93.3        | 93.3        | 93.3    | 93.3      | 93.3      | 93.3      | 93.3      | 93.3      | 93.3    |
| GE 2500               | 68.1                        | 76.0    | 86.0    | 91.0    | 93.4    | 93.5        | 93.7    | 93.7        | 93.7        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 2000               | 68.6                        | 76.8    | 87.1    | 92.0    | 94.5    | 94.6        | 94.7    | 94.7        | 94.7        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 1800               | 68.6                        | 76.8    | 87.1    | 92.0    | 94.7    | 94.8        | 94.9    | 94.9        | 94.9        | 94.9    | 94.9      | 94.9      | 94.9      | 94.9      | 94.9      | 94.9    |
| GE 1500               | 68.9                        | 77.1    | 87.4    | 92.4    | 95.2    | 95.3        | 95.4    | 95.4        | 95.4        | 95.4    | 95.4      | 95.4      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 1200               | 69.2                        | 77.4    | 87.7    | 92.7    | 95.5    | 95.6        | 95.7    | 95.7        | 95.7        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 1000               | 69.4                        | 77.5    | 88.1    | 93.0    | 95.9    | 96.0        | 96.1    | 96.1        | 96.1        | 96.1    | 96.1      | 96.1      | 96.1      | 96.1      | 96.1      | 96.1    |
| GE 900                | 69.7                        | 77.8    | 88.6    | 93.7    | 96.7    | 96.8        | 96.9    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 800                | 69.7                        | 77.8    | 88.7    | 93.8    | 96.8    | 96.9        | 97.0    | 97.0        | 97.0        | 97.0    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 700                | 69.7                        | 77.8    | 88.7    | 93.9    | 97.1    | 97.2        | 97.3    | 97.3        | 97.3        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 600                | 69.8                        | 78.0    | 88.9    | 94.1    | 97.3    | 97.4        | 97.5    | 97.5        | 97.5        | 97.5    | 97.5      | 97.5      | 97.5      | 97.5      | 97.5      | 97.5    |
| GE 500                | 70.1                        | 78.3    | 89.5    | 95.2    | 98.8    | 98.9        | 99.1    | 99.1        | 99.1        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 400                | 70.2                        | 78.4    | 89.8    | 95.6    | 99.4    | 99.5        | 99.7    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 300                | 70.2                        | 78.4    | 89.8    | 95.7    | 99.6    | 99.7        | 99.9    | 99.9        | 99.9        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                | 70.2                        | 78.4    | 89.8    | 95.7    | 99.6    | 99.8        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 70.2                        | 78.4    | 89.8    | 95.7    | 99.6    | 99.8        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 70.2                        | 78.4    | 89.8    | 95.7    | 99.6    | 99.8        | 100.0   | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 37.7                        | 42.4    | 51.3    | 55.8    | 60.4    | 61.6        | 62.2    | 62.2        | 62.2        | 62.4    | 62.6      | 62.6      | 62.6      | 62.6      | 62.6      | 62.6    |
| GE 20000              | 42.8                        | 48.1    | 59.2    | 65.3    | 71.1    | 72.5        | 73.1    | 73.1        | 73.1        | 73.3    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.7    |
| GE 18000              | 42.8                        | 48.1    | 59.2    | 65.3    | 71.1    | 72.5        | 73.1    | 73.1        | 73.1        | 73.3    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.7    |
| GE 16000              | 42.9                        | 48.2    | 59.4    | 65.4    | 71.2    | 72.6        | 73.2    | 73.2        | 73.2        | 73.4    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.8    |
| GE 14000              | 42.9                        | 48.2    | 59.4    | 65.4    | 71.2    | 72.6        | 73.2    | 73.2        | 73.2        | 73.4    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.8    |
| GE 12000              | 43.2                        | 48.6    | 59.8    | 65.9    | 71.7    | 73.1        | 73.8    | 73.8        | 73.8        | 74.0    | 74.2      | 74.2      | 74.2      | 74.2      | 74.2      | 74.3    |
| GE 10000              | 45.6                        | 51.4    | 63.0    | 69.2    | 75.3    | 76.7        | 77.3    | 77.3        | 77.3        | 77.5    | 77.7      | 77.7      | 77.7      | 77.7      | 77.7      | 77.8    |
| GE 9000               | 45.8                        | 51.6    | 63.5    | 69.9    | 76.0    | 77.4        | 78.1    | 78.1        | 78.1        | 78.3    | 78.5      | 78.5      | 78.5      | 78.5      | 78.5      | 78.6    |
| GE 8000               | 48.8                        | 54.7    | 67.0    | 73.7    | 80.0    | 81.4        | 82.0    | 82.0        | 82.0        | 82.3    | 82.5      | 82.5      | 82.5      | 82.5      | 82.5      | 82.6    |
| GE 7000               | 49.4                        | 55.3    | 67.5    | 74.3    | 80.8    | 82.2        | 82.8    | 82.8        | 82.8        | 83.0    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.3    |
| GE 6000               | 49.4                        | 55.3    | 67.5    | 74.3    | 80.8    | 82.2        | 82.8    | 82.8        | 82.8        | 83.0    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.3    |
| GE 5000               | 49.7                        | 55.6    | 68.0    | 74.8    | 81.4    | 82.8        | 83.4    | 83.4        | 83.4        | 83.7    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 84.0    |
| GE 4500               | 49.7                        | 55.6    | 68.0    | 74.8    | 81.4    | 82.8        | 83.4    | 83.4        | 83.4        | 83.7    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 84.0    |
| GE 4000               | 50.2                        | 56.1    | 68.5    | 75.5    | 82.3    | 83.7        | 84.3    | 84.3        | 84.3        | 84.5    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.8    |
| GE 3500               | 50.8                        | 56.7    | 69.1    | 76.1    | 83.0    | 84.4        | 85.1    | 85.1        | 85.1        | 85.3    | 85.5      | 85.5      | 85.5      | 85.5      | 85.5      | 85.6    |
| GE 3000               | 52.3                        | 58.2    | 70.9    | 77.8    | 84.7    | 86.1        | 86.8    | 86.8        | 86.8        | 87.0    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.3    |
| GE 2500               | 52.7                        | 58.6    | 71.4    | 78.4    | 85.4    | 86.8        | 87.4    | 87.4        | 87.4        | 87.6    | 87.8      | 87.8      | 87.8      | 87.8      | 87.8      | 88.0    |
| GE 2000               | 53.1                        | 59.1    | 72.0    | 79.1    | 86.1    | 87.5        | 88.2    | 88.2        | 88.2        | 88.4    | 88.6      | 88.6      | 88.6      | 88.6      | 88.6      | 88.7    |
| GE 1800               | 53.2                        | 59.2    | 72.2    | 79.4    | 86.3    | 87.7        | 88.4    | 88.4        | 88.4        | 88.6    | 88.8      | 88.8      | 88.8      | 88.8      | 88.8      | 88.9    |
| GE 1500               | 53.3                        | 59.4    | 72.3    | 79.7    | 86.8    | 88.2        | 88.8    | 88.8        | 88.8        | 89.0    | 89.2      | 89.2      | 89.2      | 89.2      | 89.2      | 89.4    |
| GE 1200               | 54.3                        | 60.3    | 73.4    | 80.9    | 88.3    | 89.7        | 90.3    | 90.3        | 90.3        | 90.5    | 90.8      | 90.8      | 90.8      | 90.8      | 90.8      | 90.9    |
| GE 1000               | 54.8                        | 60.9    | 74.1    | 81.5    | 89.1    | 90.5        | 91.2    | 91.2        | 91.2        | 91.4    | 91.6      | 91.6      | 91.6      | 91.6      | 91.6      | 91.7    |
| GE 900                | 54.8                        | 60.9    | 74.2    | 81.6    | 89.2    | 90.6        | 91.3    | 91.3        | 91.3        | 91.5    | 91.7      | 91.7      | 91.7      | 91.7      | 91.7      | 91.8    |
| GE 800                | 54.9                        | 61.0    | 74.3    | 81.8    | 89.5    | 90.9        | 91.5    | 91.5        | 91.5        | 91.7    | 91.9      | 91.9      | 91.9      | 91.9      | 91.9      | 92.0    |
| GE 700                | 55.2                        | 61.2    | 74.6    | 82.6    | 90.4    | 91.9        | 92.6    | 92.6        | 92.6        | 92.8    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.1    |
| GE 600                | 55.4                        | 61.4    | 74.8    | 82.9    | 91.2    | 92.8        | 93.5    | 93.5        | 93.5        | 93.8    | 94.0      | 94.0      | 94.0      | 94.0      | 94.0      | 94.1    |
| GE 500                | 55.5                        | 61.5    | 74.9    | 83.5    | 92.0    | 93.7        | 94.5    | 94.5        | 94.5        | 94.7    | 94.9      | 94.9      | 94.9      | 94.9      | 94.9      | 95.1    |
| GE 400                | 55.6                        | 61.7    | 75.3    | 84.1    | 93.4    | 95.3        | 96.3    | 96.3        | 96.3        | 96.6    | 96.8      | 96.8      | 96.8      | 96.8      | 96.8      | 96.9    |
| GE 300                | 56.0                        | 62.2    | 75.7    | 84.6    | 94.1    | 96.0        | 97.3    | 97.3        | 97.3        | 97.5    | 97.7      | 97.7      | 97.7      | 97.7      | 97.7      | 98.0    |
| GE 200                | 56.0                        | 62.2    | 75.7    | 84.6    | 94.1    | 96.1        | 97.5    | 97.5        | 97.6        | 98.1    | 98.4      | 98.4      | 98.5      | 98.5      | 98.9      | 99.1    |
| GE 100                | 56.0                        | 62.2    | 75.7    | 84.6    | 94.1    | 96.1        | 97.7    | 97.7        | 97.8        | 98.3    | 98.7      | 98.7      | 98.8      | 98.8      | 99.4      | 99.6    |
| GE 000                | 56.0                        | 62.2    | 75.7    | 84.6    | 94.1    | 96.1        | 97.7    | 97.7        | 97.8        | 98.3    | 98.7      | 98.7      | 98.8      | 98.8      | 99.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 17.0                        | 22.4    | 32.4    | 40.3    | 48.9    | 53.1        | 54.6    | 55.5        | 55.7        | 55.9    | 56.0      | 56.0      | 56.0      | 56.1      | 56.2      | 56.5    |
| GE 20000              | 20.0                        | 26.5    | 37.5    | 46.7    | 56.3    | 61.1        | 63.0    | 63.9        | 64.1        | 64.5    | 64.7      | 64.7      | 64.8      | 65.1      | 65.2      | 65.4    |
| GE 18000              | 20.0                        | 26.5    | 37.5    | 46.7    | 56.3    | 61.1        | 63.0    | 63.9        | 64.1        | 64.5    | 64.7      | 64.7      | 64.8      | 65.1      | 65.2      | 65.4    |
| GE 16000              | 20.1                        | 26.6    | 37.6    | 46.8    | 56.5    | 61.2        | 63.1    | 64.0        | 64.2        | 64.6    | 64.8      | 64.8      | 64.9      | 65.2      | 65.3      | 65.5    |
| GE 14000              | 20.2                        | 26.7    | 37.7    | 47.1    | 56.8    | 61.5        | 63.5    | 64.4        | 64.6        | 65.1    | 65.3      | 65.3      | 65.4      | 65.6      | 65.7      | 65.9    |
| GE 12000              | 20.9                        | 28.1    | 39.4    | 48.8    | 58.7    | 63.7        | 65.7    | 66.6        | 66.8        | 67.2    | 67.4      | 67.4      | 67.5      | 67.7      | 67.8      | 68.1    |
| GE 10000              | 23.3                        | 31.5    | 43.3    | 53.2    | 63.9    | 69.0        | 71.2    | 72.2        | 72.4        | 72.8    | 73.0      | 73.0      | 73.1      | 73.3      | 73.4      | 73.7    |
| GE 9000               | 23.5                        | 31.7    | 43.5    | 53.4    | 64.1    | 69.4        | 71.5    | 72.6        | 72.8        | 73.4    | 73.7      | 73.7      | 73.8      | 74.0      | 74.1      | 74.3    |
| GE 8000               | 26.9                        | 35.4    | 47.4    | 57.6    | 68.3    | 74.0        | 76.2    | 77.5        | 77.7        | 78.4    | 78.6      | 78.6      | 78.7      | 78.9      | 79.0      | 79.2    |
| GE 7000               | 27.2                        | 35.8    | 48.1    | 58.3    | 68.9    | 74.6        | 77.0    | 78.3        | 78.5        | 79.1    | 79.4      | 79.4      | 79.5      | 79.7      | 79.8      | 80.0    |
| GE 6000               | 27.6                        | 36.2    | 48.5    | 58.7    | 69.4    | 75.1        | 77.4    | 78.7        | 78.9        | 79.6    | 79.8      | 79.8      | 79.9      | 80.1      | 80.2      | 80.4    |
| GE 5000               | 28.2                        | 36.8    | 49.0    | 59.2    | 69.9    | 75.7        | 78.1    | 79.4        | 79.6        | 80.2    | 80.4      | 80.4      | 80.5      | 80.8      | 80.9      | 81.1    |
| GE 4500               | 28.3                        | 36.9    | 49.1    | 59.4    | 70.0    | 75.8        | 78.2    | 79.5        | 79.7        | 80.3    | 80.5      | 80.5      | 80.6      | 80.9      | 81.0      | 81.2    |
| GE 4000               | 28.4                        | 37.2    | 49.5    | 59.7    | 70.4    | 76.2        | 78.6    | 79.9        | 80.1        | 80.8    | 81.0      | 81.0      | 81.1      | 81.3      | 81.4      | 81.6    |
| GE 3500               | 28.4                        | 37.2    | 49.6    | 59.8    | 70.5    | 76.3        | 78.7    | 80.0        | 80.2        | 80.9    | 81.1      | 81.1      | 81.2      | 81.4      | 81.5      | 81.7    |
| GE 3000               | 28.9                        | 37.7    | 50.3    | 60.5    | 71.4    | 77.2        | 79.7    | 81.0        | 81.2        | 81.8    | 82.0      | 82.0      | 82.2      | 82.4      | 82.5      | 82.7    |
| GE 2500               | 29.0                        | 37.8    | 50.6    | 60.9    | 71.8    | 77.6        | 80.1    | 81.4        | 81.6        | 82.3    | 82.5      | 82.5      | 82.6      | 82.8      | 82.9      | 83.1    |
| GE 2000               | 29.7                        | 38.5    | 51.3    | 61.6    | 72.6    | 78.4        | 81.0    | 82.3        | 82.5        | 83.1    | 83.3      | 83.3      | 83.4      | 83.7      | 83.8      | 84.0    |
| GE 1800               | 29.7                        | 38.6    | 51.4    | 61.7    | 72.7    | 78.5        | 81.1    | 82.4        | 82.6        | 83.2    | 83.4      | 83.4      | 83.5      | 83.8      | 83.9      | 84.1    |
| GE 1500               | 29.8                        | 38.8    | 51.7    | 62.2    | 73.5    | 79.5        | 82.0    | 83.4        | 83.7        | 84.3    | 84.5      | 84.5      | 84.6      | 84.8      | 84.9      | 85.2    |
| GE 1200               | 30.2                        | 39.5    | 52.6    | 63.1    | 74.5    | 80.5        | 83.2    | 84.7        | 84.9        | 85.6    | 85.8      | 85.8      | 85.9      | 86.1      | 86.2      | 86.5    |
| GE 1000               | 31.0                        | 40.2    | 53.8    | 64.6    | 76.6    | 82.6        | 85.3    | 86.8        | 87.0        | 87.6    | 87.8      | 87.8      | 88.0      | 88.2      | 88.3      | 88.5    |
| GE 900                | 31.1                        | 40.4    | 54.1    | 64.9    | 77.0    | 83.1        | 85.9    | 87.4        | 87.6        | 88.3    | 88.5      | 88.5      | 88.6      | 88.8      | 88.9      | 89.1    |
| GE 800                | 31.2                        | 40.5    | 54.3    | 65.3    | 77.6    | 83.9        | 86.7    | 88.2        | 88.4        | 89.0    | 89.2      | 89.2      | 89.4      | 89.6      | 89.7      | 89.9    |
| GE 700                | 31.4                        | 40.9    | 54.7    | 65.9    | 78.6    | 84.9        | 87.7    | 89.2        | 89.5        | 90.1    | 90.3      | 90.3      | 90.4      | 90.6      | 90.8      | 91.0    |
| GE 600                | 31.5                        | 41.2    | 55.1    | 66.7    | 79.9    | 86.6        | 89.4    | 90.9        | 91.1        | 91.7    | 91.9      | 91.9      | 92.0      | 92.3      | 92.4      | 92.6    |
| GE 500                | 31.5                        | 41.2    | 55.1    | 66.8    | 80.8    | 87.5        | 91.0    | 92.8        | 93.1        | 93.8    | 94.0      | 94.0      | 94.1      | 94.3      | 94.4      | 94.6    |
| GE 400                | 31.5                        | 41.2    | 55.5    | 67.6    | 82.2    | 89.0        | 93.0    | 94.9        | 95.3        | 95.9    | 96.2      | 96.2      | 96.5      | 96.7      | 96.9      | 97.1    |
| GE 300                | 31.5                        | 41.2    | 55.5    | 67.8    | 82.5    | 89.5        | 93.7    | 95.8        | 96.1        | 96.9    | 97.3      | 97.3      | 97.6      | 97.8      | 98.3      | 98.5    |
| GE 200                | 31.5                        | 41.2    | 55.5    | 67.8    | 82.5    | 89.5        | 93.7    | 95.8        | 96.1        | 96.9    | 97.3      | 97.3      | 97.7      | 98.0      | 98.6      | 99.0    |
| GE 100                | 31.5                        | 41.2    | 55.5    | 67.8    | 82.5    | 89.5        | 93.7    | 95.8        | 96.1        | 96.9    | 97.3      | 97.3      | 97.8      | 98.1      | 98.8      | 99.8    |
| GE 000                | 31.5                        | 41.2    | 55.5    | 67.8    | 82.5    | 89.5        | 93.7    | 95.8        | 96.1        | 96.9    | 97.3      | 97.3      | 97.8      | 98.1      | 98.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 27.3                        | 38.1    | 50.1    | 56.1    | 60.6    | 61.0        | 61.1    | 61.1        | 61.1        | 61.1    | 61.1      | 61.1      | 61.1      | 61.1      | 61.1      | 61.1    |
| GE 20000              | 32.4                        | 43.9    | 57.0    | 64.3    | 69.2    | 69.7        | 69.9    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 69.9      | 69.9      | 69.9      | 69.9    |
| GE 18000              | 32.4                        | 43.9    | 57.0    | 64.3    | 69.2    | 69.7        | 69.9    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 69.9      | 69.9      | 69.9      | 69.9    |
| GE 16000              | 32.4                        | 43.9    | 57.0    | 64.3    | 69.2    | 69.7        | 69.9    | 69.9        | 69.9        | 69.9    | 69.9      | 69.9      | 69.9      | 69.9      | 69.9      | 69.9    |
| GE 14000              | 32.5                        | 44.0    | 57.2    | 64.5    | 69.5    | 69.9        | 70.1    | 70.1        | 70.1        | 70.1    | 70.1      | 70.1      | 70.1      | 70.1      | 70.1      | 70.1    |
| GE 12000              | 33.8                        | 45.9    | 59.9    | 67.4    | 72.4    | 72.9        | 73.1    | 73.1        | 73.1        | 73.1    | 73.1      | 73.1      | 73.1      | 73.1      | 73.1      | 73.1    |
| GE 10000              | 36.7                        | 48.9    | 63.4    | 71.1    | 76.1    | 76.7        | 76.9    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 9000               | 36.9                        | 49.1    | 63.9    | 71.6    | 76.7    | 77.2        | 77.5    | 77.5        | 77.5        | 77.5    | 77.5      | 77.5      | 77.5      | 77.5      | 77.5      | 77.5    |
| GE 8000               | 40.3                        | 53.3    | 68.7    | 76.7    | 82.2    | 82.7        | 83.0    | 83.0        | 83.0        | 83.0    | 83.0      | 83.0      | 83.0      | 83.0      | 83.0      | 83.0    |
| GE 7000               | 40.5                        | 53.5    | 68.9    | 76.9    | 82.5    | 83.0        | 83.3    | 83.3        | 83.3        | 83.3    | 83.3      | 83.3      | 83.3      | 83.3      | 83.3      | 83.3    |
| GE 6000               | 41.1                        | 54.1    | 69.5    | 77.4    | 83.0    | 83.5        | 83.9    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 83.9    |
| GE 5000               | 41.3                        | 54.3    | 69.7    | 77.6    | 83.2    | 83.8        | 84.1    | 84.1        | 84.1        | 84.1    | 84.1      | 84.1      | 84.1      | 84.1      | 84.1      | 84.1    |
| GE 4500               | 41.4                        | 54.4    | 69.8    | 77.7    | 83.3    | 83.9        | 84.2    | 84.2        | 84.2        | 84.2    | 84.2      | 84.2      | 84.2      | 84.2      | 84.2      | 84.2    |
| GE 4000               | 42.3                        | 55.4    | 70.8    | 78.7    | 84.5    | 85.1        | 85.4    | 85.4        | 85.4        | 85.4    | 85.4      | 85.4      | 85.4      | 85.4      | 85.4      | 85.4    |
| GE 3500               | 42.4                        | 55.5    | 71.0    | 79.0    | 84.8    | 85.4        | 85.7    | 85.7        | 85.7        | 85.7    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 3000               | 43.4                        | 56.8    | 72.4    | 80.5    | 86.3    | 86.9        | 87.2    | 87.2        | 87.2        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 2500               | 44.0                        | 57.4    | 73.1    | 81.3    | 87.3    | 87.8        | 88.3    | 88.3        | 88.3        | 88.3    | 88.3      | 88.3      | 88.3      | 88.3      | 88.3      | 88.3    |
| GE 2000               | 45.5                        | 59.1    | 75.1    | 83.3    | 89.6    | 90.1        | 90.5    | 90.5        | 90.5        | 90.5    | 90.5      | 90.5      | 90.5      | 90.5      | 90.5      | 90.5    |
| GE 1800               | 45.9                        | 59.6    | 75.5    | 83.8    | 90.0    | 90.5        | 91.0    | 91.0        | 91.0        | 91.0    | 91.0      | 91.0      | 91.0      | 91.0      | 91.0      | 91.0    |
| GE 1500               | 46.9                        | 60.8    | 76.8    | 85.4    | 91.7    | 92.3        | 92.7    | 92.7        | 92.7        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 1200               | 48.2                        | 62.3    | 78.5    | 87.5    | 93.9    | 94.5        | 94.9    | 95.1        | 95.1        | 95.1    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 1000               | 48.7                        | 63.2    | 79.9    | 89.0    | 95.4    | 96.0        | 96.5    | 96.6        | 96.6        | 96.6    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 900                | 49.0                        | 63.5    | 80.3    | 89.6    | 96.3    | 97.0        | 97.4    | 97.5        | 97.5        | 97.5    | 97.5      | 97.5      | 97.5      | 97.5      | 97.5      | 97.5    |
| GE 800                | 49.1                        | 63.9    | 80.6    | 90.2    | 97.0    | 97.6        | 98.3    | 98.4        | 98.4        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 700                | 49.2                        | 64.0    | 80.8    | 90.4    | 97.4    | 98.1        | 98.7    | 98.8        | 98.8        | 98.8    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 600                | 49.4                        | 64.1    | 80.9    | 90.8    | 97.7    | 98.4        | 99.1    | 99.2        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 500                | 49.5                        | 64.2    | 81.0    | 90.9    | 98.0    | 98.6        | 99.4    | 99.5        | 99.5        | 99.5    | 99.5      | 99.5      | 99.5      | 99.5      | 99.5      | 99.5    |
| GE 400                | 49.5                        | 64.2    | 81.0    | 91.0    | 98.1    | 98.7        | 99.6    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 300                | 49.5                        | 64.2    | 81.0    | 91.0    | 98.1    | 98.7        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 49.5                        | 64.2    | 81.0    | 91.0    | 98.1    | 98.7        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 49.5                        | 64.2    | 81.0    | 91.0    | 98.1    | 98.7        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 49.5                        | 64.2    | 81.0    | 91.0    | 98.1    | 98.7        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE-FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY-OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN-STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 28.1                        | 37.2    | 47.7    | 52.7    | 54.7    | 54.7        | 54.7    | 54.7        | 54.7        | 54.7    | 54.7      | 54.7      | 54.7      | 54.7      | 54.7      | 54.7    |
| GE 20000              | 37.3                        | 47.5    | 59.5    | 64.6    | 66.9    | 66.9        | 66.9    | 66.9        | 66.9        | 66.9    | 66.9      | 66.9      | 66.9      | 66.9      | 66.9      | 66.9    |
| GE 18000              | 37.3                        | 47.5    | 59.5    | 64.6    | 66.9    | 66.9        | 66.9    | 66.9        | 66.9        | 66.9    | 66.9      | 66.9      | 66.9      | 66.9      | 66.9      | 66.9    |
| GE 16000              | 37.4                        | 47.6    | 59.6    | 64.7    | 67.0    | 67.0        | 67.0    | 67.0        | 67.0        | 67.0    | 67.0      | 67.0      | 67.0      | 67.0      | 67.0      | 67.0    |
| GE 14000              | 37.6                        | 47.8    | 59.8    | 65.1    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.3    | 67.3      | 67.3      | 67.3      | 67.3      | 67.3      | 67.3    |
| GE 12000              | 38.5                        | 48.7    | 60.9    | 66.1    | 68.5    | 68.5        | 68.5    | 68.5        | 68.5        | 68.5    | 68.5      | 68.5      | 68.5      | 68.5      | 68.5      | 68.5    |
| GE 10000              | 42.2                        | 52.8    | 65.3    | 70.6    | 73.0    | 73.0        | 73.0    | 73.0        | 73.0        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.0      | 73.0    |
| GE 9000               | 43.0                        | 53.8    | 66.3    | 71.9    | 74.3    | 74.3        | 74.3    | 74.3        | 74.3        | 74.3    | 74.3      | 74.3      | 74.3      | 74.3      | 74.3      | 74.3    |
| GE 8000               | 46.3                        | 57.8    | 71.1    | 76.7    | 79.0    | 79.0        | 79.0    | 79.0        | 79.0        | 79.0    | 79.0      | 79.0      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 7000               | 47.0                        | 58.5    | 71.7    | 77.3    | 79.7    | 79.7        | 79.7    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.7      | 79.7    |
| GE 6000               | 47.3                        | 58.8    | 72.0    | 77.6    | 80.0    | 80.0        | 80.0    | 80.0        | 80.0        | 80.0    | 80.0      | 80.0      | 80.0      | 80.0      | 80.0      | 80.0    |
| GE 5000               | 48.7                        | 60.3    | 73.7    | 79.2    | 81.6    | 81.6        | 81.6    | 81.6        | 81.6        | 81.6    | 81.6      | 81.6      | 81.6      | 81.6      | 81.6      | 81.6    |
| GE 4500               | 48.8                        | 60.5    | 74.0    | 79.6    | 81.9    | 81.9        | 81.9    | 81.9        | 81.9        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 81.9      | 81.9    |
| GE 4000               | 50.2                        | 62.5    | 76.5    | 82.4    | 84.9    | 84.9        | 84.9    | 84.9        | 84.9        | 85.1    | 85.1      | 85.1      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 3500               | 52.4                        | 65.3    | 80.0    | 86.2    | 88.8    | 88.8        | 88.8    | 88.8        | 88.8        | 88.9    | 88.9      | 88.9      | 88.9      | 88.9      | 88.9      | 88.9    |
| GE 3000               | 54.8                        | 68.4    | 83.7    | 90.6    | 93.5    | 93.5        | 93.5    | 93.5        | 93.5        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 2500               | 55.1                        | 69.1    | 84.5    | 91.8    | 94.7    | 94.7        | 94.8    | 94.8        | 94.8        | 94.9    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 2000               | 55.9                        | 70.0    | 85.8    | 93.3    | 96.2    | 96.2        | 96.3    | 96.3        | 96.3        | 96.5    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 1800               | 56.0                        | 70.1    | 85.9    | 93.5    | 96.5    | 96.5        | 96.6    | 96.6        | 96.6        | 96.7    | 96.8      | 96.8      | 96.8      | 96.8      | 96.8      | 96.8    |
| GE 1500               | 56.6                        | 70.6    | 86.6    | 94.2    | 97.5    | 97.5        | 97.6    | 97.6        | 97.6        | 97.7    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 1200               | 57.0                        | 71.2    | 87.4    | 95.1    | 98.4    | 98.4        | 98.5    | 98.5        | 98.5        | 98.6    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 1000               | 57.3                        | 71.5    | 87.7    | 95.5    | 98.8    | 98.8        | 98.9    | 98.9        | 98.9        | 99.0    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 900                | 57.3                        | 71.6    | 88.0    | 95.9    | 99.2    | 99.2        | 99.4    | 99.4        | 99.4        | 99.5    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 800                | 57.3                        | 71.6    | 88.0    | 96.0    | 99.5    | 99.5        | 99.6    | 99.6        | 99.6        | 99.7    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 700                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 600                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 500                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 57.3                        | 71.6    | 88.0    | 96.2    | 99.7    | 99.7        | 99.8    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | E<br>7                      | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 27.1                        | 35.4    | 43.2    | 47.6    | 48.5    | 48.5        | 48.5    | 48.5        | 48.5        | 48.5    | 48.5      | 48.5      | 48.5      | 48.5      | 48.5      | 48.5    |
| GE 20000              | 39.2                        | 49.9    | 59.2    | 64.6    | 66.0    | 66.0        | 66.0    | 66.0        | 66.0        | 66.0    | 66.0      | 66.0      | 66.0      | 66.0      | 66.0      | 66.0    |
| GE 18000              | 39.4                        | 50.0    | 59.4    | 64.7    | 66.1    | 66.1        | 66.1    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.1      | 66.1      | 66.1      | 66.1    |
| GE 16000              | 39.4                        | 50.0    | 59.4    | 64.7    | 66.1    | 66.1        | 66.1    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.1      | 66.1      | 66.1      | 66.1    |
| GE 14000              | 39.8                        | 50.4    | 59.8    | 65.2    | 66.6    | 66.6        | 66.6    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 12000              | 41.2                        | 52.2    | 61.6    | 67.3    | 69.0    | 69.0        | 69.0    | 69.0        | 69.0        | 69.0    | 69.0      | 69.0      | 69.0      | 69.0      | 69.0      | 69.0    |
| GE 10000              | 45.6                        | 57.6    | 67.7    | 73.9    | 75.6    | 75.6        | 75.6    | 75.6        | 75.6        | 75.6    | 75.6      | 75.6      | 75.6      | 75.6      | 75.6      | 75.6    |
| GE 9000               | 45.8                        | 58.3    | 68.7    | 74.8    | 76.6    | 76.6        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 8000               | 49.5                        | 62.8    | 73.4    | 79.6    | 81.3    | 81.3        | 81.3    | 81.3        | 81.3        | 81.3    | 81.3      | 81.3      | 81.3      | 81.3      | 81.3      | 81.3    |
| GE 7000               | 50.0                        | 63.4    | 74.1    | 80.2    | 81.9    | 81.9        | 81.9    | 81.9        | 81.9        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 81.9      | 81.9    |
| GE 6000               | 50.2                        | 63.8    | 74.5    | 80.8    | 82.6    | 82.6        | 82.6    | 82.6        | 82.6        | 82.6    | 82.6      | 82.6      | 82.6      | 82.6      | 82.6      | 82.6    |
| GE 5000               | 50.5                        | 64.1    | 74.8    | 81.1    | 82.9    | 82.9        | 82.9    | 82.9        | 82.9        | 82.9    | 82.9      | 82.9      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 4500               | 50.8                        | 64.4    | 75.3    | 81.6    | 83.4    | 83.4        | 83.4    | 83.4        | 83.4        | 83.4    | 83.4      | 83.4      | 83.4      | 83.4      | 83.4      | 83.4    |
| GE 4000               | 52.6                        | 67.3    | 79.4    | 86.6    | 88.9    | 88.9        | 88.9    | 88.9        | 88.9        | 88.9    | 88.9      | 88.9      | 88.9      | 89.0      | 89.0      | 89.0    |
| GE 3500               | 53.9                        | 69.8    | 82.2    | 89.5    | 92.0    | 92.0        | 92.0    | 92.0        | 92.0        | 92.0    | 92.2      | 92.2      | 92.2      | 92.3      | 92.3      | 92.3    |
| GE 3000               | 55.4                        | 71.9    | 84.8    | 92.8    | 95.7    | 95.8        | 95.8    | 95.8        | 95.8        | 95.9    | 95.9      | 95.9      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 2500               | 55.8                        | 72.6    | 85.6    | 93.5    | 96.7    | 96.8        | 96.8    | 96.8        | 96.8        | 96.9    | 96.9      | 96.9      | 97.0      | 97.0      | 97.1      | 97.1    |
| GE 2000               | 56.2                        | 73.2    | 86.2    | 94.4    | 97.5    | 97.6        | 97.6    | 97.7        | 97.7        | 97.8    | 97.8      | 97.8      | 98.0      | 98.0      | 98.1      | 98.1    |
| GE 1800               | 56.2                        | 73.2    | 86.2    | 94.4    | 97.5    | 97.6        | 97.6    | 97.7        | 97.7        | 97.8    | 97.8      | 97.8      | 98.0      | 98.0      | 98.1      | 98.1    |
| GE 1500               | 56.3                        | 73.3    | 86.3    | 94.5    | 97.7    | 97.8        | 97.8    | 98.0        | 98.0        | 98.1    | 98.1      | 98.1      | 98.2      | 98.2      | 98.3      | 98.3    |
| GE 1200               | 56.3                        | 73.3    | 86.3    | 94.7    | 98.1    | 98.2        | 98.2    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.6      | 98.6    |
| GE 1000               | 56.7                        | 73.7    | 86.7    | 95.1    | 98.6    | 98.7        | 98.9    | 99.0        | 99.0        | 99.1    | 99.1      | 99.1      | 99.2      | 99.2      | 99.4      | 99.4    |
| GE 900                | 56.7                        | 73.7    | 86.8    | 95.2    | 98.7    | 98.8        | 99.0    | 99.1        | 99.1        | 99.2    | 99.2      | 99.2      | 99.4      | 99.4      | 99.5      | 99.5    |
| GE 800                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 700                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 600                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 500                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 400                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 300                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 200                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 100                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 000                | 57.0                        | 74.0    | 87.1    | 95.5    | 99.1    | 99.2        | 99.6    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.9      | 99.9      | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 25.7                        | 33.0    | 40.0    | 43.0    | 44.0    | 44.0        | 44.1    | 44.1        | 44.1        | 44.1    | 44.1      | 44.1      | 44.1      | 44.1      | 44.1      | 44.1    |
| GE 20000              | 40.2                        | 50.6    | 60.2    | 65.4    | 66.9    | 66.9        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.2    |
| GE 18000              | 40.4                        | 50.9    | 60.4    | 65.6    | 67.1    | 67.1        | 67.4    | 67.4        | 67.4        | 67.4    | 67.4      | 67.4      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 16000              | 40.4                        | 50.9    | 60.4    | 65.6    | 67.1    | 67.1        | 67.4    | 67.4        | 67.4        | 67.4    | 67.4      | 67.4      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 14000              | 40.8                        | 51.2    | 60.8    | 65.9    | 67.4    | 67.4        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 12000              | 41.5                        | 52.0    | 61.8    | 67.4    | 69.2    | 69.2        | 69.6    | 69.6        | 69.6        | 69.6    | 69.6      | 69.6      | 69.6      | 69.6      | 69.6      | 69.6    |
| GE 10000              | 47.5                        | 58.7    | 69.1    | 75.1    | 77.3    | 77.3        | 77.6    | 77.6        | 77.6        | 77.6    | 77.6      | 77.6      | 77.6      | 77.6      | 77.6      | 77.6    |
| GE 9000               | 47.8                        | 59.1    | 69.7    | 75.6    | 77.8    | 77.8        | 78.2    | 78.2        | 78.2        | 78.2    | 78.2      | 78.2      | 78.2      | 78.2      | 78.2      | 78.2    |
| GE 8000               | 52.5                        | 65.1    | 75.7    | 81.8    | 84.5    | 84.5        | 84.8    | 84.8        | 84.8        | 84.8    | 84.8      | 84.8      | 84.8      | 84.8      | 84.8      | 84.8    |
| GE 7000               | 53.0                        | 65.7    | 76.3    | 82.6    | 85.3    | 85.3        | 85.6    | 85.6        | 85.6        | 85.6    | 85.6      | 85.6      | 85.6      | 85.6      | 85.6      | 85.6    |
| GE 6000               | 53.4                        | 66.6    | 77.3    | 83.5    | 86.5    | 86.5        | 86.8    | 86.8        | 86.8        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 5000               | 54.2                        | 67.4    | 78.4    | 84.8    | 87.7    | 87.7        | 88.2    | 88.2        | 88.2        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 4500               | 54.3                        | 67.7    | 78.8    | 85.4    | 88.4    | 88.4        | 88.8    | 88.8        | 88.8        | 88.8    | 88.8      | 88.8      | 88.8      | 88.8      | 88.8      | 88.8    |
| GE 4000               | 56.2                        | 69.9    | 81.5    | 88.1    | 91.4    | 91.4        | 91.8    | 91.8        | 91.8        | 91.9    | 91.9      | 91.9      | 91.9      | 91.9      | 91.9      | 91.9    |
| GE 3500               | 57.1                        | 71.1    | 83.2    | 90.0    | 93.5    | 93.5        | 94.0    | 94.1        | 94.1        | 94.2    | 94.2      | 94.2      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 3000               | 58.1                        | 72.2    | 84.7    | 92.0    | 96.1    | 96.2        | 96.7    | 96.8        | 96.8        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 2500               | 58.3                        | 72.5    | 85.2    | 92.5    | 96.6    | 96.7        | 97.1    | 97.2        | 97.2        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 2000               | 58.5                        | 73.0    | 86.0    | 93.3    | 97.6    | 97.7        | 98.2    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 1800               | 58.5                        | 73.0    | 86.0    | 93.3    | 97.6    | 97.7        | 98.2    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 1500               | 58.6                        | 73.1    | 86.2    | 93.8    | 98.2    | 98.3        | 98.7    | 98.8        | 98.8        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 1200               | 58.7                        | 73.2    | 86.5    | 94.0    | 98.4    | 98.5        | 98.9    | 99.0        | 99.0        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 1000               | 58.8                        | 73.4    | 86.7    | 94.2    | 98.6    | 98.7        | 99.1    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 900                | 58.8                        | 73.4    | 86.7    | 94.2    | 98.6    | 98.7        | 99.1    | 99.2        | 99.2        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 800                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.7    | 98.8        | 99.2    | 99.4        | 99.4        | 99.5    | 99.5      | 99.5      | 99.5      | 99.5      | 99.5      | 99.5    |
| GE 700                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.5    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 600                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 500                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 400                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 99.9    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 300                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 58.8                        | 73.4    | 86.8    | 94.3    | 98.8    | 98.9        | 99.6    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |        |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|--------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | G<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 43.3                        | 51.6   | 57.6    | 60.2    | 60.6    | 60.6        | 60.6    | 60.8        | 60.8        | 60.8    | 60.8      | 60.8      | 60.8      | 60.8      | 60.8      | 60.8    |
| GE 20000              | 51.0                        | 60.3   | 68.3    | 71.4    | 72.4    | 72.4        | 72.4    | 72.5        | 72.5        | 72.5    | 72.5      | 72.5      | 72.5      | 72.5      | 72.5      | 72.5    |
| GE 18000              | 51.3                        | 60.6   | 68.6    | 71.7    | 72.7    | 72.7        | 72.7    | 72.8        | 72.8        | 72.8    | 72.8      | 72.8      | 72.8      | 72.8      | 72.8      | 72.8    |
| GE 16000              | 51.3                        | 60.6   | 68.6    | 71.7    | 72.7    | 72.7        | 72.7    | 72.8        | 72.8        | 72.8    | 72.8      | 72.8      | 72.8      | 72.8      | 72.8      | 72.8    |
| GE 14000              | 51.7                        | 61.1   | 69.0    | 72.2    | 73.1    | 73.1        | 73.1    | 73.2        | 73.2        | 73.2    | 73.2      | 73.2      | 73.2      | 73.2      | 73.2      | 73.2    |
| GE 12000              | 52.4                        | 61.8   | 70.1    | 73.4    | 74.4    | 74.4        | 74.4    | 74.5        | 74.5        | 74.5    | 74.5      | 74.5      | 74.5      | 74.5      | 74.5      | 74.5    |
| GE 10000              | 57.4                        | 67.2   | 75.7    | 79.1    | 80.1    | 80.1        | 80.1    | 80.2        | 80.2        | 80.2    | 80.2      | 80.2      | 80.2      | 80.2      | 80.2      | 80.2    |
| GE 9000               | 57.7                        | 67.5   | 76.0    | 79.5    | 80.4    | 80.4        | 80.4    | 80.5        | 80.5        | 80.5    | 80.5      | 80.5      | 80.5      | 80.5      | 80.5      | 80.5    |
| GE 8000               | 61.2                        | 71.1   | 80.0    | 83.4    | 84.4    | 84.4        | 84.4    | 84.5        | 84.5        | 84.5    | 84.5      | 84.5      | 84.5      | 84.5      | 84.5      | 84.5    |
| GE 7000               | 61.5                        | 71.4   | 80.3    | 83.8    | 84.7    | 84.7        | 84.7    | 84.8        | 84.8        | 84.8    | 84.8      | 84.8      | 84.8      | 84.8      | 84.8      | 84.8    |
| GE 6000               | 62.2                        | 72.3   | 81.2    | 84.6    | 85.6    | 85.6        | 85.6    | 85.7        | 85.7        | 85.7    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 5000               | 62.8                        | 72.9   | 81.9    | 85.5    | 86.5    | 86.5        | 86.5    | 86.6        | 86.6        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 4500               | 62.8                        | 72.9   | 82.0    | 85.6    | 86.6    | 86.6        | 86.6    | 86.7        | 86.7        | 86.7    | 86.7      | 86.7      | 86.7      | 86.7      | 86.7      | 86.7    |
| GE 4000               | 64.6                        | 75.1   | 84.6    | 88.2    | 89.5    | 89.5        | 89.5    | 89.6        | 89.6        | 89.6    | 89.6      | 89.6      | 89.6      | 89.6      | 89.6      | 89.6    |
| GE 3500               | 66.6                        | 77.3   | 87.1    | 90.6    | 91.9    | 92.0        | 92.2    | 92.5        | 92.5        | 92.5    | 92.5      | 92.5      | 92.5      | 92.5      | 92.5      | 92.5    |
| GE 3000               | 67.6                        | 78.5   | 89.5    | 93.3    | 95.3    | 95.4        | 95.5    | 95.8        | 95.8        | 95.9    | 95.9      | 95.9      | 95.9      | 95.9      | 95.9      | 95.9    |
| GE 2500               | 68.0                        | 78.8   | 89.9    | 93.9    | 95.9    | 96.0        | 96.1    | 96.5        | 96.5        | 96.6    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 2000               | 68.2                        | 79.2   | 90.4    | 94.4    | 96.6    | 96.7        | 96.8    | 97.1        | 97.1        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 1800               | 68.2                        | 79.2   | 90.4    | 94.6    | 96.8    | 96.9        | 97.0    | 97.3        | 97.3        | 97.4    | 97.4      | 97.4      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 1500               | 68.4                        | 79.5   | 90.6    | 94.9    | 97.2    | 97.3        | 97.6    | 98.0        | 98.0        | 98.1    | 98.1      | 98.1      | 98.1      | 98.1      | 98.1      | 98.1    |
| GE 1200               | 68.6                        | 79.7   | 90.9    | 95.2    | 97.4    | 97.5        | 98.0    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 1000               | 68.6                        | 79.7   | 90.9    | 95.2    | 97.4    | 97.5        | 98.0    | 98.3        | 98.3        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 900                | 68.6                        | 79.7   | 90.9    | 95.2    | 97.5    | 97.6        | 98.1    | 98.4        | 98.4        | 98.5    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |
| GE 800                | 68.9                        | 80.0   | 91.2    | 95.5    | 98.0    | 98.2        | 98.6    | 98.9        | 98.9        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 700                | 69.0                        | 80.1   | 91.4    | 95.8    | 98.5    | 98.7        | 99.1    | 99.5        | 99.5        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 600                | 69.2                        | 80.3   | 91.6    | 96.0    | 98.7    | 98.9        | 99.4    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 500                | 69.2                        | 80.3   | 91.6    | 96.0    | 98.7    | 98.9        | 99.4    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 400                | 69.4                        | 80.4   | 91.7    | 96.1    | 98.9    | 99.1        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 69.4                        | 80.4   | 91.7    | 96.1    | 98.9    | 99.1        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 69.4                        | 80.4   | 91.7    | 96.1    | 98.9    | 99.1        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 69.4                        | 80.4   | 91.7    | 96.1    | 98.9    | 99.1        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 69.4                        | 80.4   | 91.7    | 96.1    | 98.9    | 99.1        | 99.6    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1-1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 31.9                        | 39.4    | 48.0    | 52.6    | 55.5    | 56.2        | 56.5    | 56.6        | 56.7        | 56.7    | 56.8      | 56.8      | 56.8      | 56.8      | 56.8      | 56.8    |
| GE 20000              | 39.8                        | 48.7    | 58.9    | 64.6    | 68.1    | 69.0        | 69.3    | 69.5        | 69.5        | 69.6    | 69.6      | 69.6      | 69.6      | 69.7      | 69.7      | 69.7    |
| GE 18000              | 39.8                        | 48.8    | 59.0    | 64.7    | 68.2    | 69.0        | 69.4    | 69.5        | 69.6        | 69.7    | 69.7      | 69.7      | 69.7      | 69.7      | 69.8      | 69.8    |
| GE 16000              | 39.9                        | 48.8    | 59.0    | 64.7    | 68.2    | 69.1        | 69.5    | 69.6        | 69.6        | 69.7    | 69.7      | 69.7      | 69.8      | 69.8      | 69.8      | 69.8    |
| GE 14000              | 40.1                        | 49.0    | 59.2    | 64.9    | 68.5    | 69.3        | 69.7    | 69.9        | 69.9        | 70.0    | 70.0      | 70.0      | 70.0      | 70.1      | 70.1      | 70.1    |
| GE 12000              | 40.9                        | 50.0    | 60.5    | 66.4    | 70.1    | 70.9        | 71.3    | 71.5        | 71.5        | 71.6    | 71.6      | 71.6      | 71.6      | 71.7      | 71.7      | 71.7    |
| GE 10000              | 44.7                        | 54.4    | 65.4    | 71.5    | 75.4    | 76.3        | 76.7    | 76.8        | 76.8        | 76.9    | 77.0      | 77.0      | 77.0      | 77.0      | 77.0      | 77.1    |
| GE 9000               | 45.1                        | 54.9    | 65.9    | 72.1    | 76.0    | 76.9        | 77.3    | 77.5        | 77.5        | 77.6    | 77.7      | 77.7      | 77.7      | 77.7      | 77.7      | 77.8    |
| GE 8000               | 48.6                        | 58.9    | 70.3    | 76.7    | 80.7    | 81.7        | 82.1    | 82.3        | 82.3        | 82.4    | 82.5      | 82.5      | 82.5      | 82.5      | 82.5      | 82.6    |
| GE 7000               | 49.0                        | 59.4    | 70.9    | 77.2    | 81.3    | 82.2        | 82.7    | 82.9        | 82.9        | 83.0    | 83.1      | 83.1      | 83.1      | 83.1      | 83.1      | 83.2    |
| GE 6000               | 49.4                        | 59.8    | 71.3    | 77.7    | 81.8    | 82.8        | 83.2    | 83.4        | 83.4        | 83.5    | 83.6      | 83.6      | 83.6      | 83.6      | 83.6      | 83.7    |
| GE 5000               | 49.9                        | 60.4    | 72.0    | 78.4    | 82.5    | 83.5        | 84.0    | 84.2        | 84.2        | 84.3    | 84.3      | 84.3      | 84.4      | 84.4      | 84.4      | 84.4    |
| GE 4500               | 50.0                        | 60.6    | 72.2    | 78.7    | 82.8    | 83.8        | 84.2    | 84.4        | 84.4        | 84.5    | 84.6      | 84.6      | 84.6      | 84.6      | 84.6      | 84.7    |
| GE 4000               | 51.3                        | 62.1    | 74.1    | 80.8    | 85.2    | 86.2        | 86.7    | 86.9        | 86.9        | 87.0    | 87.1      | 87.1      | 87.1      | 87.1      | 87.1      | 87.2    |
| GE 3500               | 52.3                        | 63.4    | 75.7    | 82.5    | 86.9    | 87.9        | 88.4    | 88.6        | 88.6        | 88.8    | 88.8      | 88.8      | 88.9      | 88.9      | 88.9      | 89.0    |
| GE 3000               | 53.6                        | 64.9    | 77.7    | 84.8    | 89.5    | 90.6        | 91.1    | 91.3        | 91.3        | 91.5    | 91.5      | 91.5      | 91.6      | 91.6      | 91.6      | 91.7    |
| GE 2500               | 53.9                        | 65.4    | 78.3    | 85.4    | 90.2    | 91.3        | 91.8    | 92.0        | 92.0        | 92.2    | 92.3      | 92.3      | 92.3      | 92.3      | 92.3      | 92.4    |
| GE 2000               | 54.5                        | 66.1    | 79.2    | 86.5    | 91.3    | 92.4        | 92.9    | 93.1        | 93.2        | 93.3    | 93.4      | 93.4      | 93.4      | 93.5      | 93.5      | 93.5    |
| GE 1800               | 54.5                        | 66.2    | 79.3    | 86.6    | 91.5    | 92.5        | 93.1    | 93.3        | 93.3        | 93.5    | 93.6      | 93.6      | 93.6      | 93.6      | 93.7      | 93.7    |
| GE 1500               | 54.9                        | 66.6    | 79.7    | 87.1    | 92.2    | 93.3        | 93.8    | 94.1        | 94.1        | 94.3    | 94.3      | 94.3      | 94.4      | 94.4      | 94.4      | 94.5    |
| GE 1200               | 55.3                        | 67.1    | 80.4    | 87.9    | 93.1    | 94.1        | 94.7    | 95.0        | 95.0        | 95.2    | 95.2      | 95.2      | 95.3      | 95.3      | 95.3      | 95.4    |
| GE 1000               | 55.7                        | 67.5    | 81.0    | 88.5    | 93.8    | 94.9        | 95.5    | 95.8        | 95.8        | 96.0    | 96.0      | 96.0      | 96.0      | 96.1      | 96.1      | 96.1    |
| GE 900                | 55.8                        | 67.6    | 81.2    | 88.8    | 94.2    | 95.2        | 95.9    | 96.2        | 96.2        | 96.3    | 96.4      | 96.4      | 96.4      | 96.5      | 96.5      | 96.5    |
| GE 800                | 55.9                        | 67.8    | 81.4    | 89.0    | 94.5    | 95.6        | 96.3    | 96.6        | 96.6        | 96.8    | 96.8      | 96.8      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 700                | 56.0                        | 67.9    | 81.5    | 89.3    | 95.0    | 96.1        | 96.8    | 97.1        | 97.1        | 97.3    | 97.3      | 97.3      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 600                | 56.0                        | 68.0    | 81.6    | 89.6    | 95.3    | 96.5        | 97.2    | 97.5        | 97.5        | 97.7    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.9    |
| GE 500                | 56.1                        | 68.1    | 81.7    | 89.8    | 95.7    | 96.9        | 97.8    | 98.1        | 98.1        | 98.3    | 98.4      | 98.4      | 98.4      | 98.4      | 98.5      | 98.5    |
| GE 400                | 56.2                        | 68.1    | 81.9    | 90.1    | 96.2    | 97.4        | 98.4    | 98.7        | 98.8        | 99.0    | 99.0      | 99.0      | 99.1      | 99.1      | 99.1      | 99.2    |
| GE 300                | 56.2                        | 68.2    | 81.9    | 90.2    | 96.3    | 97.6        | 98.6    | 99.0        | 99.0        | 99.2    | 99.3      | 99.3      | 99.4      | 99.4      | 99.5      | 99.5    |
| GE 200                | 56.2                        | 68.2    | 81.9    | 90.2    | 96.3    | 97.6        | 98.7    | 99.0        | 99.1        | 99.3    | 99.4      | 99.4      | 99.5      | 99.5      | 99.7      | 99.8    |
| GE 100                | 56.2                        | 68.2    | 81.9    | 90.2    | 96.3    | 97.6        | 98.7    | 99.1        | 99.1        | 99.4    | 99.5      | 99.5      | 99.6      | 99.6      | 99.8      | 99.9    |
| GE 000                | 56.2                        | 68.2    | 81.9    | 90.2    | 96.3    | 97.6        | 98.7    | 99.1        | 99.1        | 99.4    | 99.5      | 99.5      | 99.6      | 99.6      | 99.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURENE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 45.6                        | 50.3    | 57.1    | 61.2    | 65.1    | 65.1        | 65.2    | 65.2        | 65.2        | 65.2    | 65.2      | 65.2      | 65.2      | 65.2      | 65.2      | 65.2    |
| GE 20000              | 50.0                        | 57.2    | 64.8    | 69.4    | 73.3    | 73.5        | 73.7    | 73.7        | 73.7        | 73.7    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 18000              | 50.0                        | 57.2    | 64.8    | 69.4    | 73.3    | 73.5        | 73.7    | 73.7        | 73.7        | 73.7    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 16000              | 50.0                        | 57.2    | 64.8    | 69.4    | 73.3    | 73.5        | 73.7    | 73.7        | 73.7        | 73.7    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 14000              | 50.2                        | 57.4    | 65.1    | 69.7    | 73.7    | 73.9        | 74.0    | 74.0        | 74.0        | 74.0    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 12000              | 51.1                        | 58.3    | 65.9    | 70.5    | 74.5    | 74.7        | 74.8    | 74.8        | 74.8        | 74.8    | 74.9      | 74.9      | 74.9      | 74.9      | 74.9      | 74.9    |
| GE 10000              | 55.3                        | 63.0    | 71.2    | 76.3    | 80.5    | 80.8        | 80.9    | 80.9        | 80.9        | 80.9    | 81.0      | 81.0      | 81.0      | 81.0      | 81.0      | 81.0    |
| GE 9000               | 55.5                        | 63.2    | 71.4    | 76.6    | 80.8    | 81.0        | 81.1    | 81.1        | 81.1        | 81.1    | 81.2      | 81.2      | 81.2      | 81.2      | 81.2      | 81.2    |
| GE 8000               | 57.0                        | 65.4    | 74.3    | 80.1    | 84.4    | 84.6        | 84.7    | 84.7        | 84.7        | 84.7    | 84.8      | 84.8      | 84.8      | 84.8      | 84.8      | 84.8    |
| GE 7000               | 57.0                        | 65.6    | 74.5    | 80.3    | 84.6    | 84.8        | 84.9    | 84.9        | 84.9        | 84.9    | 85.1      | 85.1      | 85.1      | 85.1      | 85.1      | 85.1    |
| GE 6000               | 57.2                        | 65.8    | 74.7    | 80.5    | 84.8    | 85.1        | 85.2    | 85.2        | 85.2        | 85.2    | 85.3      | 85.3      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 5000               | 58.0                        | 66.6    | 75.5    | 81.4    | 85.7    | 85.9        | 86.0    | 86.0        | 86.0        | 86.0    | 86.1      | 86.1      | 86.1      | 86.1      | 86.1      | 86.1    |
| GE 4500               | 58.0                        | 66.6    | 75.5    | 81.5    | 85.8    | 86.0        | 86.1    | 86.1        | 86.1        | 86.1    | 86.2      | 86.2      | 86.2      | 86.2      | 86.2      | 86.2    |
| GE 4000               | 60.0                        | 69.0    | 78.2    | 84.4    | 88.9    | 89.1        | 89.2    | 89.2        | 89.2        | 89.2    | 89.4      | 89.4      | 89.4      | 89.4      | 89.4      | 89.4    |
| GE 3500               | 60.6                        | 69.7    | 79.0    | 85.3    | 89.8    | 90.0        | 90.1    | 90.1        | 90.1        | 90.1    | 90.2      | 90.2      | 90.2      | 90.2      | 90.2      | 90.2    |
| GE 3000               | 61.4                        | 70.5    | 80.2    | 86.6    | 91.2    | 91.4        | 91.6    | 91.7        | 91.7        | 91.7    | 91.8      | 91.8      | 91.8      | 91.8      | 91.8      | 91.8    |
| GE 2500               | 61.6                        | 70.8    | 80.4    | 86.8    | 91.4    | 91.6        | 91.9    | 92.0        | 92.0        | 92.0    | 92.2      | 92.2      | 92.2      | 92.2      | 92.2      | 92.2    |
| GE 2000               | 62.2                        | 71.4    | 81.1    | 87.5    | 92.4    | 92.6        | 93.1    | 93.2        | 93.2        | 93.2    | 93.3      | 93.3      | 93.3      | 93.3      | 93.3      | 93.3    |
| GE 1800               | 62.2                        | 71.4    | 81.2    | 87.6    | 92.5    | 92.7        | 93.2    | 93.3        | 93.3        | 93.3    | 93.4      | 93.4      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 1500               | 62.9                        | 72.2    | 82.0    | 88.6    | 93.8    | 94.0        | 94.5    | 94.6        | 94.6        | 94.6    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 1200               | 63.1                        | 72.4    | 82.4    | 89.1    | 94.3    | 94.5        | 95.1    | 95.2        | 95.2        | 95.2    | 95.3      | 95.3      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 1000               | 63.2                        | 72.5    | 82.8    | 89.6    | 94.7    | 94.9        | 95.5    | 95.6        | 95.6        | 95.6    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 900                | 63.3                        | 72.6    | 82.9    | 89.7    | 94.8    | 95.1        | 95.6    | 95.7        | 95.7        | 95.7    | 95.8      | 95.8      | 95.8      | 95.8      | 95.8      | 95.8    |
| GE 800                | 63.4                        | 72.7    | 83.0    | 89.9    | 95.1    | 95.3        | 95.8    | 95.9        | 95.9        | 95.9    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 700                | 63.8                        | 73.0    | 83.4    | 90.4    | 95.7    | 95.9        | 96.5    | 96.6        | 96.6        | 96.6    | 96.7      | 96.7      | 96.7      | 96.7      | 96.7      | 96.7    |
| GE 600                | 63.8                        | 73.0    | 83.4    | 90.5    | 95.8    | 96.0        | 96.6    | 96.7        | 96.7        | 96.7    | 96.8      | 96.8      | 96.8      | 96.8      | 96.8      | 96.8    |
| GE 500                | 63.8                        | 73.2    | 83.8    | 91.3    | 97.1    | 97.3        | 98.0    | 98.1        | 98.1        | 98.1    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 400                | 63.8                        | 73.2    | 83.8    | 91.6    | 97.4    | 97.6        | 98.6    | 98.7        | 98.7        | 98.7    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 300                | 63.8                        | 73.3    | 83.9    | 91.8    | 98.3    | 98.5        | 99.5    | 99.7        | 99.7        | 99.7    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 200                | 63.8                        | 73.3    | 83.9    | 91.8    | 98.3    | 98.5        | 99.5    | 99.7        | 99.7        | 99.7    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |
| GE 100                | 63.8                        | 73.3    | 83.9    | 91.8    | 98.3    | 98.5        | 99.6    | 99.8        | 99.8        | 99.8    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 63.8                        | 73.3    | 83.9    | 91.8    | 98.3    | 98.5        | 99.6    | 99.8        | 99.8        | 99.8    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 36.9                        | 41.2    | 47.4    | 54.5    | 61.6    | 62.3        | 63.1    | 63.4        | 63.4        | 63.4    | 63.5      | 63.5      | 63.7      | 63.7      | 63.9      | 64.0    |
| GE 20000              | 39.4                        | 44.4    | 52.2    | 61.1    | 68.6    | 69.5        | 70.3    | 70.6        | 70.6        | 70.6    | 70.8      | 70.8      | 70.9      | 70.9      | 71.1      | 71.2    |
| GE 18000              | 39.4                        | 44.4    | 52.2    | 61.2    | 68.6    | 69.5        | 70.3    | 70.6        | 70.6        | 70.6    | 70.8      | 70.8      | 70.9      | 70.9      | 71.1      | 71.2    |
| GE 16000              | 39.4                        | 44.4    | 52.2    | 61.2    | 68.7    | 69.6        | 70.4    | 70.8        | 70.8        | 70.8    | 70.9      | 70.9      | 71.0      | 71.0      | 71.2      | 71.3    |
| GE 14000              | 39.4                        | 44.4    | 52.2    | 61.2    | 68.7    | 69.6        | 70.4    | 70.8        | 70.8        | 70.8    | 70.9      | 70.9      | 71.0      | 71.0      | 71.2      | 71.3    |
| GE 12000              | 39.9                        | 44.9    | 52.8    | 61.8    | 69.5    | 70.3        | 71.2    | 71.5        | 71.5        | 71.5    | 71.6      | 71.6      | 71.7      | 71.7      | 71.9      | 72.0    |
| GE 10000              | 42.3                        | 48.3    | 56.9    | 66.1    | 74.0    | 74.8        | 75.7    | 76.0        | 76.0        | 76.0    | 76.1      | 76.1      | 76.2      | 76.2      | 76.5      | 76.6    |
| GE 9000               | 42.4                        | 48.4    | 57.1    | 66.3    | 74.2    | 75.1        | 75.9    | 76.2        | 76.2        | 76.2    | 76.3      | 76.3      | 76.5      | 76.5      | 76.7      | 76.8    |
| GE 8000               | 43.3                        | 49.5    | 58.9    | 68.5    | 77.0    | 78.0        | 78.8    | 79.1        | 79.1        | 79.1    | 79.2      | 79.2      | 79.4      | 79.4      | 79.6      | 79.7    |
| GE 7000               | 43.5                        | 50.0    | 59.5    | 69.0    | 77.6    | 78.6        | 79.5    | 79.8        | 79.8        | 79.8    | 79.9      | 79.9      | 80.0      | 80.0      | 80.2      | 80.3    |
| GE 6000               | 43.7                        | 50.1    | 59.6    | 69.1    | 77.7    | 78.7        | 79.6    | 79.9        | 79.9        | 79.9    | 80.0      | 80.0      | 80.1      | 80.1      | 80.3      | 80.4    |
| GE 5000               | 44.3                        | 50.8    | 60.3    | 69.9    | 78.6    | 79.6        | 80.4    | 80.8        | 80.8        | 80.8    | 80.9      | 80.9      | 81.0      | 81.0      | 81.2      | 81.3    |
| GE 4500               | 44.7                        | 51.2    | 60.8    | 70.3    | 79.0    | 80.0        | 80.9    | 81.2        | 81.2        | 81.2    | 81.3      | 81.3      | 81.4      | 81.4      | 81.6      | 81.7    |
| GE 4000               | 45.2                        | 51.9    | 61.6    | 71.4    | 80.6    | 81.6        | 82.6    | 82.9        | 82.9        | 82.9    | 83.0      | 83.0      | 83.1      | 83.1      | 83.3      | 83.4    |
| GE 3500               | 45.5                        | 52.3    | 62.2    | 71.9    | 81.7    | 82.7        | 83.7    | 84.0        | 84.0        | 84.0    | 84.1      | 84.1      | 84.2      | 84.2      | 84.4      | 84.5    |
| GE 3000               | 46.3                        | 53.2    | 63.3    | 73.4    | 83.3    | 84.3        | 85.3    | 85.6        | 85.6        | 85.6    | 85.7      | 85.7      | 85.8      | 85.8      | 86.0      | 86.1    |
| GE 2500               | 46.6                        | 53.4    | 63.8    | 74.1    | 84.1    | 85.1        | 86.0    | 86.3        | 86.3        | 86.3    | 86.5      | 86.5      | 86.6      | 86.6      | 86.8      | 86.9    |
| GE 2000               | 47.1                        | 54.0    | 64.3    | 74.7    | 85.1    | 86.0        | 87.0    | 87.3        | 87.3        | 87.3    | 87.4      | 87.4      | 87.5      | 87.5      | 87.7      | 87.8    |
| GE 1800               | 47.2                        | 54.1    | 64.4    | 74.8    | 85.2    | 86.1        | 87.1    | 87.4        | 87.4        | 87.4    | 87.5      | 87.5      | 87.6      | 87.6      | 87.8      | 88.0    |
| GE 1500               | 47.7                        | 54.6    | 65.3    | 75.8    | 86.2    | 87.2        | 88.2    | 88.5        | 88.5        | 88.5    | 88.6      | 88.6      | 88.7      | 88.7      | 88.9      | 89.0    |
| GE 1200               | 48.1                        | 54.9    | 65.9    | 76.6    | 87.1    | 88.1        | 89.0    | 89.4        | 89.4        | 89.4    | 89.5      | 89.5      | 89.6      | 89.6      | 89.8      | 89.9    |
| GE 1000               | 48.1                        | 54.9    | 65.9    | 76.7    | 87.3    | 88.3        | 89.2    | 89.6        | 89.6        | 89.7    | 89.8      | 89.8      | 89.9      | 89.9      | 90.1      | 90.2    |
| GE 900                | 48.1                        | 54.9    | 66.0    | 77.0    | 87.8    | 88.8        | 89.9    | 90.2        | 90.2        | 90.3    | 90.4      | 90.4      | 90.5      | 90.5      | 90.8      | 90.9    |
| GE 800                | 48.1                        | 55.1    | 66.3    | 77.4    | 88.3    | 89.2        | 90.3    | 90.6        | 90.6        | 90.8    | 90.9      | 90.9      | 91.0      | 91.0      | 91.2      | 91.3    |
| GE 700                | 48.3                        | 55.3    | 66.7    | 77.8    | 89.0    | 90.2        | 91.4    | 91.7        | 91.7        | 91.8    | 91.9      | 91.9      | 92.0      | 92.0      | 92.3      | 92.4    |
| GE 600                | 48.3                        | 55.3    | 67.2    | 78.4    | 89.9    | 91.1        | 92.3    | 92.6        | 92.6        | 92.7    | 92.8      | 92.8      | 92.9      | 92.9      | 93.1      | 93.2    |
| GE 500                | 48.4                        | 55.5    | 67.7    | 79.1    | 90.9    | 92.0        | 93.3    | 93.7        | 93.7        | 93.8    | 93.9      | 93.9      | 94.0      | 94.0      | 94.2      | 94.4    |
| GE 400                | 48.4                        | 55.5    | 68.1    | 80.0    | 91.9    | 93.3        | 94.9    | 95.4        | 95.4        | 95.5    | 95.6      | 95.6      | 95.7      | 95.7      | 95.9      | 96.1    |
| GE 300                | 48.4                        | 55.5    | 68.1    | 80.2    | 92.5    | 94.0        | 95.9    | 96.6        | 96.7        | 96.9    | 97.0      | 97.0      | 97.2      | 97.2      | 97.4      | 97.7    |
| GE 200                | 48.5                        | 55.6    | 68.2    | 80.4    | 92.7    | 94.2        | 96.2    | 96.9        | 97.0        | 97.4    | 97.5      | 97.5      | 98.0      | 98.0      | 98.2      | 98.6    |
| GE 100                | 48.5                        | 55.7    | 68.3    | 80.5    | 92.8    | 94.3        | 96.5    | 97.2        | 97.3        | 97.7    | 97.8      | 97.8      | 98.4      | 98.5      | 98.8      | 99.8    |
| GE 000                | 48.5                        | 55.7    | 68.3    | 80.5    | 92.8    | 94.3        | 96.5    | 97.2        | 97.3        | 97.8    | 98.0      | 98.0      | 98.5      | 98.6      | 98.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 13.7                        | 18.4    | 27.2    | 36.5    | 45.7    | 51.3        | 55.3    | 56.9        | 57.3        | 57.8    | 58.2      | 58.2      | 58.3      | 58.3      | 58.7      | 59.1    |
| GE 20000              | 14.8                        | 20.0    | 29.8    | 39.8    | 50.5    | 56.5        | 60.6    | 62.3        | 62.7        | 63.2    | 63.5      | 63.5      | 63.8      | 63.8      | 64.2      | 64.6    |
| GE 18000              | 14.8                        | 20.0    | 29.8    | 39.8    | 50.5    | 56.5        | 60.6    | 62.3        | 62.7        | 63.2    | 63.5      | 63.5      | 63.8      | 63.8      | 64.2      | 64.6    |
| GE 16000              | 14.8                        | 20.0    | 29.8    | 39.8    | 50.5    | 56.5        | 60.6    | 62.3        | 62.7        | 63.2    | 63.5      | 63.5      | 63.8      | 63.8      | 64.2      | 64.6    |
| GE 14000              | 14.9                        | 20.1    | 29.9    | 40.0    | 51.0    | 56.9        | 61.1    | 62.7        | 63.1        | 63.7    | 64.0      | 64.0      | 64.2      | 64.2      | 64.6      | 65.1    |
| GE 12000              | 15.5                        | 21.3    | 31.4    | 41.6    | 52.9    | 58.8        | 63.1    | 64.8        | 65.3        | 65.8    | 66.1      | 66.1      | 66.3      | 66.3      | 66.8      | 67.2    |
| GE 10000              | 17.2                        | 23.2    | 33.7    | 44.6    | 56.5    | 62.6        | 67.0    | 68.9        | 69.4        | 69.9    | 70.2      | 70.2      | 70.5      | 70.5      | 71.0      | 71.4    |
| GE 9000               | 17.3                        | 23.4    | 33.9    | 44.8    | 56.7    | 62.8        | 67.2    | 69.1        | 69.6        | 70.1    | 70.4      | 70.4      | 70.8      | 70.8      | 71.2      | 71.6    |
| GE 8000               | 18.5                        | 25.4    | 36.2    | 47.7    | 59.9    | 66.2        | 71.0    | 72.9        | 73.3        | 73.9    | 74.2      | 74.2      | 74.5      | 74.5      | 74.9      | 75.4    |
| GE 7000               | 18.8                        | 26.0    | 36.9    | 48.4    | 60.5    | 66.9        | 71.7    | 73.7        | 74.1        | 74.6    | 74.9      | 74.9      | 75.3      | 75.3      | 75.7      | 76.1    |
| GE 6000               | 19.2                        | 26.5    | 37.3    | 48.9    | 61.1    | 67.5        | 72.4    | 74.4        | 74.8        | 75.4    | 75.7      | 75.7      | 76.0      | 76.0      | 76.5      | 76.9    |
| GE 5000               | 19.9                        | 27.1    | 38.0    | 49.6    | 62.2    | 68.6        | 73.4    | 75.5        | 75.9        | 76.5    | 76.8      | 76.8      | 77.1      | 77.1      | 77.5      | 78.0    |
| GE 4500               | 20.0                        | 27.2    | 38.2    | 49.8    | 62.4    | 69.0        | 73.9    | 75.9        | 76.3        | 76.9    | 77.2      | 77.2      | 77.5      | 77.5      | 78.0      | 78.4    |
| GE 4000               | 20.5                        | 27.7    | 38.8    | 50.6    | 63.7    | 70.6        | 75.5    | 77.5        | 78.0        | 78.5    | 78.8      | 78.8      | 79.1      | 79.1      | 79.6      | 80.0    |
| GE 3500               | 20.8                        | 28.0    | 39.0    | 50.9    | 64.0    | 71.0        | 75.8    | 77.8        | 78.3        | 78.8    | 79.1      | 79.1      | 79.5      | 79.5      | 79.9      | 80.3    |
| GE 3000               | 20.8                        | 28.2    | 39.5    | 51.3    | 64.4    | 71.4        | 76.2    | 78.3        | 78.7        | 79.2    | 79.6      | 79.6      | 79.9      | 79.9      | 80.3      | 80.9    |
| GE 2500               | 20.8                        | 28.2    | 39.5    | 51.4    | 64.6    | 71.6        | 76.5    | 78.6        | 79.1        | 79.7    | 80.0      | 80.0      | 80.3      | 80.3      | 80.8      | 81.3    |
| GE 2000               | 21.0                        | 28.4    | 39.8    | 52.0    | 65.3    | 72.3        | 77.1    | 79.2        | 79.8        | 80.3    | 80.8      | 80.8      | 81.1      | 81.1      | 81.5      | 82.0    |
| GE 1800               | 21.4                        | 28.8    | 40.2    | 52.5    | 65.8    | 72.9        | 77.7    | 79.9        | 80.4        | 81.0    | 81.4      | 81.4      | 81.7      | 81.7      | 82.2      | 82.7    |
| GE 1500               | 21.6                        | 29.0    | 40.4    | 52.7    | 66.1    | 73.2        | 78.1    | 80.2        | 80.8        | 81.3    | 81.7      | 81.7      | 82.0      | 82.0      | 82.5      | 83.0    |
| GE 1200               | 21.9                        | 29.4    | 41.1    | 53.9    | 67.3    | 74.4        | 79.4    | 81.5        | 82.0        | 82.6    | 83.0      | 83.0      | 83.3      | 83.3      | 83.8      | 84.3    |
| GE 1000               | 22.4                        | 29.9    | 41.8    | 55.2    | 68.6    | 75.9        | 80.9    | 83.0        | 83.5        | 84.1    | 84.5      | 84.5      | 84.8      | 84.8      | 85.3      | 85.9    |
| GE 900                | 22.5                        | 30.2    | 42.3    | 55.7    | 69.2    | 76.8        | 81.8    | 84.1        | 84.6        | 85.2    | 85.6      | 85.6      | 85.9      | 85.9      | 86.3      | 87.0    |
| GE 800                | 22.5                        | 30.2    | 42.5    | 56.2    | 70.1    | 77.6        | 82.8    | 85.2        | 85.7        | 86.2    | 86.7      | 86.7      | 87.0      | 87.0      | 87.4      | 88.1    |
| GE 700                | 22.6                        | 30.5    | 42.7    | 56.8    | 71.1    | 78.8        | 84.2    | 86.7        | 87.2        | 87.7    | 88.2      | 88.2      | 88.5      | 88.5      | 88.9      | 89.6    |
| GE 600                | 22.7                        | 30.4    | 43.1    | 57.4    | 72.4    | 80.1        | 85.5    | 88.2        | 88.7        | 89.4    | 89.8      | 89.8      | 90.1      | 90.1      | 90.5      | 91.2    |
| GE 500                | 22.8                        | 30.6    | 43.4    | 58.2    | 74.0    | 81.8        | 87.5    | 90.5        | 91.1        | 91.7    | 92.2      | 92.2      | 92.5      | 92.5      | 93.0      | 93.7    |
| GE 400                | 22.9                        | 30.8    | 43.5    | 58.7    | 74.9    | 83.1        | 89.0    | 92.2        | 92.8        | 93.4    | 93.9      | 93.9      | 94.3      | 94.3      | 94.8      | 95.8    |
| GE 300                | 23.0                        | 30.9    | 43.9    | 59.0    | 75.5    | 83.7        | 89.8    | 92.9        | 93.5        | 94.6    | 95.2      | 95.2      | 95.7      | 95.8      | 96.5      | 97.6    |
| GE 200                | 23.0                        | 30.9    | 43.9    | 59.0    | 75.5    | 83.7        | 89.8    | 93.0        | 93.8        | 94.8    | 95.6      | 95.6      | 96.3      | 96.5      | 97.1      | 99.2    |
| GE 100                | 23.0                        | 30.9    | 43.9    | 59.0    | 75.5    | 83.7        | 89.8    | 93.0        | 93.8        | 94.9    | 95.7      | 95.7      | 96.7      | 96.8      | 97.4      | 99.8    |
| GE 000                | 23.0                        | 30.9    | 43.9    | 59.0    | 75.5    | 83.7        | 89.8    | 93.0        | 93.8        | 94.9    | 95.7      | 95.7      | 96.7      | 96.8      | 97.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 26.2                        | 38.5    | 48.0    | 54.1    | 57.7    | 58.8        | 59.2    | 59.4        | 59.4        | 59.4    | 59.4      | 59.4      | 59.4      | 59.4      | 59.4      | 59.4    |
| GE 20000              | 29.9                        | 43.5    | 54.1    | 60.8    | 64.7    | 65.9        | 66.3    | 66.5        | 66.5        | 66.5    | 66.5      | 66.5      | 66.5      | 66.5      | 66.5      | 66.5    |
| GE 18000              | 29.9                        | 43.5    | 54.1    | 60.8    | 64.8    | 66.0        | 66.5    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 16000              | 29.9                        | 43.5    | 54.1    | 60.8    | 64.8    | 66.0        | 66.5    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 14000              | 30.3                        | 44.0    | 54.6    | 61.3    | 65.4    | 66.6        | 67.0    | 67.1        | 67.1        | 67.1    | 67.1      | 67.1      | 67.1      | 67.1      | 67.1      | 67.1    |
| GE 12000              | 31.4                        | 45.7    | 56.9    | 63.9    | 68.1    | 69.2        | 69.7    | 69.8        | 69.8        | 69.8    | 69.8      | 69.8      | 69.8      | 69.8      | 69.8      | 69.8    |
| GE 10000              | 34.1                        | 49.1    | 60.6    | 68.4    | 72.9    | 74.1        | 74.5    | 74.6        | 74.6        | 74.6    | 74.6      | 74.6      | 74.6      | 74.6      | 74.6      | 74.6    |
| GE 9000               | 34.2                        | 49.2    | 60.8    | 68.5    | 73.0    | 74.2        | 74.6    | 74.7        | 74.7        | 74.7    | 74.7      | 74.7      | 74.7      | 74.7      | 74.7      | 74.7    |
| GE 8000               | 36.6                        | 52.0    | 63.9    | 72.3    | 76.9    | 78.2        | 78.6    | 78.7        | 78.7        | 78.7    | 78.7      | 78.7      | 78.7      | 78.7      | 78.7      | 78.7    |
| GE 7000               | 36.9                        | 52.6    | 64.4    | 72.9    | 77.7    | 79.0        | 79.5    | 79.5        | 79.6        | 79.6    | 79.6      | 79.6      | 79.6      | 79.6      | 79.6      | 79.6    |
| GE 6000               | 37.4                        | 53.1    | 64.9    | 73.4    | 78.3    | 79.6        | 80.0    | 80.1        | 80.1        | 80.1    | 80.1      | 80.1      | 80.1      | 80.1      | 80.1      | 80.1    |
| GE 5000               | 38.1                        | 53.8    | 65.6    | 74.1    | 78.9    | 80.2        | 80.6    | 80.8        | 80.8        | 80.8    | 80.8      | 80.8      | 80.8      | 80.8      | 80.8      | 80.8    |
| GE 4500               | 38.1                        | 53.8    | 65.6    | 74.1    | 78.9    | 80.2        | 80.6    | 80.8        | 80.8        | 80.8    | 80.8      | 80.8      | 80.8      | 80.8      | 80.8      | 80.8    |
| GE 4000               | 38.3                        | 54.0    | 65.9    | 74.6    | 79.7    | 81.1        | 81.5    | 81.6        | 81.6        | 81.6    | 81.6      | 81.6      | 81.6      | 81.6      | 81.6      | 81.6    |
| GE 3500               | 38.6                        | 54.3    | 66.7    | 75.6    | 80.8    | 82.2        | 82.6    | 82.7        | 82.7        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 3000               | 39.4                        | 55.6    | 68.2    | 77.2    | 82.5    | 83.9        | 84.3    | 84.4        | 84.4        | 84.4    | 84.4      | 84.4      | 84.4      | 84.4      | 84.4      | 84.4    |
| GE 2500               | 40.1                        | 56.7    | 69.5    | 78.5    | 83.9    | 85.3        | 85.7    | 85.8        | 85.8        | 85.8    | 85.8      | 85.8      | 85.8      | 85.8      | 85.8      | 85.8    |
| GE 2000               | 41.0                        | 57.6    | 70.6    | 80.0    | 85.7    | 87.1        | 87.5    | 87.6        | 87.6        | 87.6    | 87.6      | 87.6      | 87.6      | 87.6      | 87.6      | 87.6    |
| GE 1800               | 41.4                        | 58.2    | 71.2    | 80.5    | 86.2    | 87.6        | 88.1    | 88.2        | 88.2        | 88.2    | 88.2      | 88.2      | 88.2      | 88.2      | 88.2      | 88.2    |
| GE 1500               | 42.5                        | 59.4    | 72.6    | 82.2    | 87.8    | 89.2        | 89.7    | 89.8        | 89.8        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.8      | 89.8    |
| GE 1200               | 43.4                        | 60.5    | 74.0    | 84.5    | 90.6    | 92.0        | 92.6    | 92.7        | 92.7        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 1000               | 44.0                        | 61.4    | 75.2    | 86.2    | 92.8    | 94.3        | 94.9    | 95.1        | 95.1        | 95.1    | 95.1      | 95.1      | 95.1      | 95.1      | 95.1      | 95.1    |
| GE 900                | 44.4                        | 61.9    | 75.9    | 87.1    | 93.9    | 95.4        | 96.0    | 96.1        | 96.1        | 96.1    | 96.1      | 96.1      | 96.1      | 96.1      | 96.1      | 96.1    |
| GE 800                | 44.4                        | 61.9    | 75.9    | 87.3    | 94.3    | 95.8        | 96.5    | 96.7        | 96.7        | 96.7    | 96.7      | 96.7      | 96.7      | 96.7      | 96.7      | 96.7    |
| GE 700                | 44.4                        | 62.0    | 76.0    | 87.6    | 95.1    | 96.7        | 97.3    | 97.5        | 97.5        | 97.5    | 97.5      | 97.5      | 97.5      | 97.5      | 97.5      | 97.5    |
| GE 600                | 44.4                        | 62.0    | 76.1    | 87.7    | 95.4    | 97.0        | 97.6    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 500                | 44.5                        | 62.2    | 76.3    | 88.5    | 96.2    | 97.8        | 98.8    | 99.2        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 400                | 44.5                        | 62.2    | 76.3    | 88.6    | 96.6    | 98.2        | 99.1    | 99.6        | 99.6        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 300                | 44.5                        | 62.2    | 76.3    | 88.6    | 96.8    | 98.4        | 99.4    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 44.5                        | 62.2    | 76.3    | 88.6    | 96.8    | 98.4        | 99.4    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 44.5                        | 62.2    | 76.3    | 88.6    | 96.8    | 98.4        | 99.4    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 44.5                        | 62.2    | 76.3    | 88.6    | 96.8    | 98.4        | 99.4    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 33.2                        | 41.1    | 48.7    | 52.9    | 55.7    | 55.9        | 55.9    | 55.9        | 55.9        | 55.9    | 55.9      | 55.9      | 55.9      | 55.9      | 55.9      | 55.9    |
| GE 20000              | 39.7                        | 48.3    | 57.4    | 62.0    | 64.8    | 65.1        | 65.1    | 65.1        | 65.1        | 65.1    | 65.1      | 65.1      | 65.1      | 65.1      | 65.1      | 65.1    |
| GE 18000              | 39.9                        | 48.5    | 57.6    | 62.3    | 65.1    | 65.3        | 65.3    | 65.3        | 65.3        | 65.3    | 65.3      | 65.3      | 65.3      | 65.3      | 65.3      | 65.3    |
| GE 16000              | 40.1                        | 48.7    | 57.8    | 62.5    | 65.3    | 65.5        | 65.5    | 65.5        | 65.5        | 65.5    | 65.5      | 65.5      | 65.5      | 65.5      | 65.5      | 65.5    |
| GE 14000              | 40.4                        | 49.1    | 58.3    | 62.9    | 65.7    | 65.9        | 65.9    | 65.9        | 65.9        | 65.9    | 65.9      | 65.9      | 65.9      | 65.9      | 65.9      | 65.9    |
| GE 12000              | 42.4                        | 51.4    | 61.1    | 66.0    | 68.8    | 69.0        | 69.0    | 69.0        | 69.0        | 69.0    | 69.0      | 69.0      | 69.0      | 69.0      | 69.0      | 69.0    |
| GE 10000              | 45.2                        | 55.1    | 65.2    | 70.5    | 73.3    | 73.5        | 73.5    | 73.5        | 73.5        | 73.5    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.5    |
| GE 9000               | 45.3                        | 55.2    | 65.3    | 70.6    | 73.4    | 73.7        | 73.7    | 73.7        | 73.7        | 73.7    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.7    |
| GE 8000               | 47.2                        | 57.6    | 68.5    | 73.9    | 76.7    | 76.9        | 76.9    | 76.9        | 76.9        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 7000               | 47.2                        | 57.6    | 68.6    | 74.0    | 76.8    | 77.0        | 77.0    | 77.0        | 77.0        | 77.0    | 77.0      | 77.0      | 77.0      | 77.0      | 77.0      | 77.0    |
| GE 6000               | 47.5                        | 58.0    | 68.9    | 74.3    | 77.1    | 77.3        | 77.3    | 77.3        | 77.3        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 5000               | 48.1                        | 58.5    | 69.5    | 74.8    | 77.6    | 77.8        | 77.8    | 77.8        | 77.8        | 77.8    | 77.8      | 77.8      | 77.8      | 77.8      | 77.8      | 77.8    |
| GE 4500               | 48.5                        | 58.9    | 69.9    | 75.3    | 78.1    | 78.3        | 78.3    | 78.3        | 78.3        | 78.3    | 78.3      | 78.3      | 78.3      | 78.3      | 78.3      | 78.3    |
| GE 4000               | 50.9                        | 61.3    | 72.7    | 78.1    | 80.9    | 81.1        | 81.1    | 81.1        | 81.1        | 81.1    | 81.1      | 81.1      | 81.1      | 81.1      | 81.1      | 81.1    |
| GE 3500               | 53.2                        | 64.9    | 76.8    | 82.2    | 84.9    | 85.2        | 85.2    | 85.2        | 85.2        | 85.2    | 85.2      | 85.2      | 85.2      | 85.2      | 85.2      | 85.2    |
| GE 3000               | 57.3                        | 69.8    | 83.1    | 89.7    | 92.5    | 92.8        | 92.8    | 92.9        | 92.9        | 92.9    | 92.9      | 92.9      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 2500               | 58.5                        | 71.1    | 84.8    | 91.8    | 94.6    | 94.9        | 94.9    | 95.1        | 95.1        | 95.2    | 95.2      | 95.2      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 2000               | 59.4                        | 72.0    | 86.0    | 93.4    | 96.3    | 96.7        | 96.7    | 96.8        | 96.8        | 96.9    | 96.9      | 96.9      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 1800               | 59.7                        | 72.5    | 86.5    | 93.9    | 96.8    | 97.1        | 97.1    | 97.2        | 97.2        | 97.3    | 97.3      | 97.3      | 97.4      | 97.4      | 97.4      | 97.4    |
| GE 1500               | 60.1                        | 73.1    | 87.1    | 94.5    | 97.4    | 97.7        | 97.7    | 97.8        | 97.8        | 98.0    | 98.0      | 98.0      | 98.1      | 98.1      | 98.1      | 98.1    |
| GE 1200               | 60.2                        | 73.2    | 87.2    | 94.9    | 98.0    | 98.3        | 98.3    | 98.4        | 98.4        | 98.5    | 98.5      | 98.5      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 1000               | 60.2                        | 73.3    | 87.5    | 95.3    | 98.3    | 98.6        | 98.6    | 98.7        | 98.7        | 98.8    | 98.8      | 98.8      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 900                | 60.2                        | 73.3    | 87.5    | 95.3    | 98.4    | 98.7        | 98.7    | 98.8        | 98.8        | 98.9    | 98.9      | 98.9      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 800                | 60.2                        | 73.3    | 87.5    | 95.3    | 98.5    | 98.8        | 98.8    | 98.9        | 98.9        | 99.0    | 99.0      | 99.0      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 700                | 60.2                        | 73.3    | 87.7    | 95.5    | 98.7    | 99.0        | 99.2    | 99.4        | 99.4        | 99.5    | 99.5      | 99.5      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 600                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.4    | 99.5        | 99.5        | 99.6    | 99.6      | 99.6      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 500                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.7    | 99.7      | 99.7      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 400                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 60.2                        | 73.3    | 87.7    | 95.6    | 98.8    | 99.1        | 99.5    | 99.6        | 99.6        | 99.9    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |  |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|--|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |  |
| NO CEIL               | 30.6                        | 37.1    | 44.5    | 49.2    | 50.3    | 50.6        | 50.6    | 50.6        | 50.6        | 50.6    | 50.6      | 50.6      | 50.6      | 50.6      | 50.6      | 50.6    |  |
| GE 20000              | 41.3                        | 49.7    | 58.9    | 64.6    | 65.8    | 66.1        | 66.1    | 66.1        | 66.1        | 66.1    | 66.1      | 66.1      | 66.1      | 66.1      | 66.1      | 66.1    |  |
| GE 18000              | 41.4                        | 49.8    | 59.0    | 64.7    | 65.9    | 66.2        | 66.2    | 66.2        | 66.2        | 66.2    | 66.2      | 66.2      | 66.2      | 66.2      | 66.2      | 66.2    |  |
| GE 16000              | 41.5                        | 49.9    | 59.1    | 64.8    | 66.0    | 66.3        | 66.3    | 66.3        | 66.3        | 66.3    | 66.3      | 66.3      | 66.3      | 66.3      | 66.3      | 66.3    |  |
| GE 14000              | 41.7                        | 50.3    | 59.6    | 65.3    | 66.5    | 66.8        | 66.8    | 66.8        | 66.8        | 66.8    | 66.8      | 66.8      | 66.8      | 66.8      | 66.8      | 66.8    |  |
| GE 12000              | 43.0                        | 52.0    | 61.3    | 67.4    | 68.6    | 68.9        | 68.9    | 68.9        | 68.9        | 68.9    | 68.9      | 68.9      | 68.9      | 68.9      | 68.9      | 68.9    |  |
| GE 10000              | 45.9                        | 55.3    | 65.4    | 72.3    | 73.5    | 73.9        | 73.9    | 73.9        | 73.9        | 73.9    | 73.9      | 73.9      | 73.9      | 73.9      | 73.9      | 73.9    |  |
| GE 9000               | 45.9                        | 55.6    | 65.9    | 72.8    | 74.1    | 74.4        | 74.4    | 74.4        | 74.4        | 74.4    | 74.4      | 74.4      | 74.4      | 74.4      | 74.4      | 74.4    |  |
| GE 8000               | 48.8                        | 58.9    | 69.5    | 76.8    | 78.2    | 78.5        | 78.5    | 78.5        | 78.5        | 78.5    | 78.5      | 78.5      | 78.5      | 78.5      | 78.5      | 78.5    |  |
| GE 7000               | 49.2                        | 59.5    | 70.1    | 77.5    | 78.9    | 79.2        | 79.2    | 79.2        | 79.2        | 79.2    | 79.2      | 79.2      | 79.2      | 79.2      | 79.2      | 79.2    |  |
| GE 6000               | 49.7                        | 59.9    | 70.5    | 78.1    | 79.6    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |  |
| GE 5000               | 50.8                        | 61.5    | 72.5    | 80.1    | 81.6    | 81.9        | 81.9    | 81.9        | 81.9        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 81.9      | 81.9    |  |
| GE 4500               | 51.1                        | 62.0    | 73.1    | 80.9    | 82.4    | 82.7        | 82.7    | 82.7        | 82.7        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |  |
| GE 4000               | 52.5                        | 63.8    | 76.1    | 84.5    | 86.1    | 86.6        | 86.6    | 86.6        | 86.6        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |  |
| GE 3500               | 53.9                        | 65.7    | 78.9    | 87.5    | 89.1    | 89.7        | 89.7    | 89.7        | 89.7        | 89.7    | 89.7      | 89.7      | 89.7      | 89.7      | 89.7      | 89.7    |  |
| GE 3000               | 57.3                        | 69.1    | 83.2    | 92.4    | 94.3    | 94.9        | 94.9    | 94.9        | 94.9        | 94.9    | 94.9      | 94.9      | 94.9      | 94.9      | 94.9      | 94.9    |  |
| GE 2500               | 58.0                        | 69.8    | 84.1    | 93.4    | 95.6    | 96.2        | 96.2    | 96.2        | 96.2        | 96.2    | 96.2      | 96.2      | 96.2      | 96.2      | 96.2      | 96.2    |  |
| GE 2000               | 58.3                        | 70.2    | 84.6    | 94.0    | 96.2    | 96.9        | 96.9    | 97.0        | 97.0        | 97.1    | 97.1      | 97.1      | 97.1      | 97.1      | 97.1      | 97.1    |  |
| GE 1800               | 58.3                        | 70.2    | 84.6    | 94.1    | 96.3    | 97.0        | 97.0    | 97.1        | 97.1        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |  |
| GE 1500               | 58.3                        | 70.2    | 84.6    | 94.2    | 96.8    | 97.4        | 97.4    | 97.5        | 97.5        | 97.6    | 97.7      | 97.7      | 97.7      | 97.7      | 97.7      | 97.7    |  |
| GE 1200               | 58.5                        | 70.4    | 84.9    | 94.7    | 97.3    | 98.1        | 98.1    | 98.2        | 98.2        | 98.3    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |  |
| GE 1000               | 58.5                        | 70.4    | 84.9    | 94.7    | 97.4    | 98.2        | 98.2    | 98.3        | 98.3        | 98.4    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |  |
| GE 900                | 58.5                        | 70.4    | 84.9    | 94.7    | 97.4    | 98.2        | 98.2    | 98.3        | 98.3        | 98.4    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |  |
| GE 800                | 58.5                        | 70.4    | 85.1    | 94.8    | 97.7    | 98.6        | 98.7    | 98.8        | 98.8        | 98.9    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |  |
| GE 700                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.1    | 98.9        | 99.2    | 99.5        | 99.5        | 99.6    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |  |
| GE 600                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.3    | 99.1        | 99.5    | 99.7        | 99.7        | 99.8    | 99.9      | 99.9      | 99.9      | 99.9      | 99.9      | 99.9    |  |
| GE 500                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |
| GE 400                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |
| GE 300                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |
| GE 200                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |
| GE 100                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |
| GE 000                | 58.5                        | 70.4    | 85.1    | 95.1    | 98.4    | 99.2        | 99.6    | 99.8        | 99.8        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |  |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 32.0                        | 37.2    | 43.5    | 48.9    | 49.5    | 49.7        | 49.7    | 49.7        | 49.7        | 49.7    | 49.7      | 49.7      | 49.7      | 49.7      | 49.7      | 49.7    |
| GE 20000              | 44.3                        | 52.2    | 60.4    | 67.2    | 68.0    | 68.3        | 68.3    | 68.3        | 68.3        | 68.3    | 68.3      | 68.3      | 68.3      | 68.3      | 68.3      | 68.3    |
| GE 18000              | 44.3                        | 52.2    | 60.5    | 67.3    | 68.1    | 68.4        | 68.4    | 68.4        | 68.4        | 68.4    | 68.4      | 68.4      | 68.4      | 68.4      | 68.4      | 68.4    |
| GE 16000              | 44.3                        | 52.2    | 60.5    | 67.3    | 68.1    | 68.4        | 68.4    | 68.4        | 68.4        | 68.4    | 68.4      | 68.4      | 68.4      | 68.4      | 68.4      | 68.4    |
| GE 14000              | 44.5                        | 52.5    | 61.0    | 67.7    | 68.5    | 68.8        | 68.8    | 68.8        | 68.8        | 68.8    | 68.8      | 68.8      | 68.8      | 68.8      | 68.8      | 68.8    |
| GE 12000              | 46.1                        | 54.3    | 62.9    | 69.8    | 70.5    | 70.9        | 70.9    | 70.9        | 70.9        | 70.9    | 70.9      | 70.9      | 70.9      | 70.9      | 70.9      | 70.9    |
| GE 10000              | 49.5                        | 58.7    | 69.1    | 76.6    | 77.4    | 77.7        | 77.8    | 77.8        | 77.8        | 77.8    | 77.8      | 77.8      | 77.8      | 77.8      | 77.8      | 77.8    |
| GE 9000               | 49.6                        | 58.8    | 69.4    | 76.8    | 77.6    | 78.0        | 78.1    | 78.1        | 78.1        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 8000               | 52.3                        | 61.7    | 72.7    | 80.3    | 81.5    | 81.8        | 81.9    | 81.9        | 81.9        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 81.9      | 81.9    |
| GE 7000               | 52.5                        | 62.0    | 73.0    | 80.8    | 81.9    | 82.3        | 82.4    | 82.4        | 82.4        | 82.4    | 82.4      | 82.4      | 82.4      | 82.4      | 82.4      | 82.4    |
| GE 6000               | 53.0                        | 62.6    | 73.7    | 81.4    | 82.6    | 82.9        | 83.0    | 83.0        | 83.0        | 83.0    | 83.0      | 83.0      | 83.0      | 83.0      | 83.0      | 83.0    |
| GE 5000               | 54.5                        | 64.5    | 75.9    | 84.0    | 85.2    | 85.6        | 85.7    | 85.7        | 85.7        | 85.7    | 85.7      | 85.7      | 85.7      | 85.7      | 85.7      | 85.7    |
| GE 4500               | 54.6                        | 64.6    | 76.1    | 84.2    | 85.4    | 85.8        | 85.9    | 85.9        | 85.9        | 85.9    | 85.9      | 85.9      | 85.9      | 85.9      | 85.9      | 85.9    |
| GE 4000               | 56.8                        | 67.1    | 79.5    | 88.0    | 89.2    | 89.7        | 89.8    | 89.8        | 89.8        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.8      | 89.8    |
| GE 3500               | 58.7                        | 69.6    | 82.2    | 90.8    | 92.2    | 92.6        | 92.8    | 92.8        | 92.8        | 92.8    | 92.8      | 92.9      | 92.9      | 92.9      | 92.9      | 92.9    |
| GE 3000               | 59.9                        | 71.0    | 84.2    | 92.9    | 94.4    | 94.8        | 95.1    | 95.1        | 95.1        | 95.1    | 95.2      | 95.2      | 95.2      | 95.2      | 95.2      | 95.2    |
| GE 2500               | 60.4                        | 71.5    | 84.9    | 93.7    | 95.2    | 95.6        | 95.8    | 95.8        | 95.8        | 95.8    | 95.9      | 95.9      | 95.9      | 95.9      | 95.9      | 95.9    |
| GE 2000               | 60.9                        | 72.0    | 85.6    | 94.3    | 96.0    | 96.5        | 96.8    | 96.9        | 96.9        | 96.9    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 1800               | 60.9                        | 72.0    | 85.6    | 94.3    | 96.0    | 96.5        | 96.8    | 96.9        | 96.9        | 96.9    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 1500               | 61.0                        | 72.3    | 85.8    | 94.8    | 96.8    | 97.3        | 97.6    | 97.7        | 97.7        | 97.7    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 1200               | 61.3                        | 72.6    | 86.1    | 95.5    | 97.4    | 98.0        | 98.6    | 98.7        | 98.7        | 98.7    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 1000               | 61.3                        | 72.6    | 86.1    | 95.5    | 97.4    | 98.0        | 98.6    | 98.7        | 98.7        | 98.7    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.8    |
| GE 900                | 61.5                        | 72.8    | 86.5    | 95.8    | 97.7    | 98.3        | 98.9    | 99.0        | 99.0        | 99.0    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 800                | 61.5                        | 72.8    | 86.5    | 95.8    | 97.7    | 98.3        | 98.9    | 99.0        | 99.0        | 99.0    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 700                | 61.5                        | 72.8    | 86.5    | 96.0    | 98.0    | 98.5        | 99.5    | 99.6        | 99.6        | 99.6    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 600                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.3    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 500                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 61.5                        | 72.8    | 86.8    | 96.3    | 98.3    | 98.8        | 99.8    | 99.9        | 99.9        | 99.9    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 43.9                        | 48.4    | 55.6    | 59.0    | 60.0    | 60.0        | 60.0    | 60.0        | 60.0        | 60.0    | 60.0      | 60.0      | 60.0      | 60.0      | 60.0      | 60.0    |
| GE 20000              | 52.9                        | 58.6    | 67.3    | 71.0    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 18000              | 52.9                        | 58.6    | 67.3    | 71.0    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 16000              | 53.0                        | 58.7    | 67.4    | 71.1    | 72.0    | 72.0        | 72.0    | 72.0        | 72.0        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.0      | 72.0    |
| GE 14000              | 53.0                        | 58.7    | 67.4    | 71.1    | 72.0    | 72.0        | 72.0    | 72.0        | 72.0        | 72.0    | 72.0      | 72.0      | 72.0      | 72.0      | 72.0      | 72.0    |
| GE 12000              | 54.6                        | 60.4    | 69.4    | 73.0    | 74.0    | 74.0        | 74.0    | 74.0        | 74.0        | 74.0    | 74.0      | 74.0      | 74.0      | 74.0      | 74.0      | 74.0    |
| GE 10000              | 58.6                        | 65.2    | 74.8    | 78.8    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |
| GE 9000               | 58.7                        | 65.3    | 74.9    | 78.9    | 80.0    | 80.0        | 80.0    | 80.0        | 80.0        | 80.0    | 80.0      | 80.0      | 80.0      | 80.0      | 80.0      | 80.0    |
| GE 8000               | 61.9                        | 68.5    | 78.9    | 83.0    | 84.2    | 84.2        | 84.2    | 84.2        | 84.2        | 84.2    | 84.2      | 84.2      | 84.2      | 84.2      | 84.2      | 84.2    |
| GE 7000               | 61.9                        | 68.5    | 78.9    | 83.1    | 84.3    | 84.3        | 84.3    | 84.3        | 84.3        | 84.3    | 84.3      | 84.3      | 84.3      | 84.3      | 84.3      | 84.3    |
| GE 6000               | 62.2                        | 68.9    | 79.4    | 83.5    | 84.7    | 84.7        | 84.7    | 84.7        | 84.7        | 84.7    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.7    |
| GE 5000               | 63.8                        | 70.8    | 81.5    | 85.8    | 87.0    | 87.0        | 87.0    | 87.0        | 87.0        | 87.0    | 87.0      | 87.0      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 4500               | 63.9                        | 70.9    | 81.7    | 86.0    | 87.2    | 87.2        | 87.2    | 87.2        | 87.2        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 4000               | 65.5                        | 72.8    | 84.3    | 89.1    | 90.3    | 90.4        | 90.5    | 90.5        | 90.5        | 90.5    | 90.5      | 90.5      | 90.5      | 90.5      | 90.5      | 90.5    |
| GE 3500               | 66.2                        | 73.9    | 85.4    | 90.2    | 91.5    | 91.6        | 91.7    | 91.8        | 91.8        | 91.9    | 91.9      | 91.9      | 91.9      | 91.9      | 91.9      | 91.9    |
| GE 3000               | 67.3                        | 74.9    | 86.6    | 91.6    | 93.0    | 93.1        | 93.2    | 93.4        | 93.4        | 93.5    | 93.5      | 93.5      | 93.5      | 93.5      | 93.5      | 93.5    |
| GE 2500               | 68.0                        | 75.7    | 87.4    | 92.6    | 94.1    | 94.3        | 94.4    | 94.6        | 94.6        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 2000               | 68.5                        | 76.2    | 88.0    | 93.2    | 94.8    | 95.1        | 95.2    | 95.4        | 95.4        | 95.5    | 95.5      | 95.5      | 95.5      | 95.5      | 95.5      | 95.5    |
| GE 1800               | 68.5                        | 76.2    | 88.0    | 93.2    | 94.8    | 95.1        | 95.2    | 95.4        | 95.4        | 95.5    | 95.5      | 95.5      | 95.5      | 95.5      | 95.5      | 95.5    |
| GE 1500               | 69.0                        | 77.0    | 89.1    | 94.6    | 96.2    | 96.5        | 96.6    | 96.8        | 96.8        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 1200               | 69.2                        | 77.4    | 89.8    | 95.4    | 97.1    | 97.4        | 97.5    | 97.7        | 97.7        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 1000               | 69.4                        | 77.6    | 90.0    | 95.6    | 97.7    | 98.1        | 98.2    | 98.4        | 98.4        | 98.5    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |
| GE 900                | 69.4                        | 77.6    | 90.0    | 95.6    | 97.7    | 98.1        | 98.4    | 98.6        | 98.6        | 98.7    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 800                | 69.6                        | 77.8    | 90.2    | 95.8    | 98.0    | 98.3        | 98.6    | 98.8        | 98.8        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 700                | 69.8                        | 78.1    | 90.5    | 96.1    | 98.3    | 98.6        | 98.9    | 99.1        | 99.1        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 600                | 69.9                        | 78.2    | 90.9    | 96.5    | 98.7    | 99.0        | 99.4    | 99.6        | 99.6        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 500                | 69.9                        | 78.2    | 90.9    | 96.6    | 98.8    | 99.1        | 99.5    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 400                | 69.9                        | 78.2    | 90.9    | 96.6    | 98.8    | 99.1        | 99.5    | 99.7        | 99.7        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 69.9                        | 78.2    | 90.9    | 96.6    | 99.0    | 99.4        | 99.7    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 69.9                        | 78.2    | 90.9    | 96.6    | 99.0    | 99.4        | 99.7    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 69.9                        | 78.2    | 90.9    | 96.6    | 99.0    | 99.4        | 99.7    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 69.9                        | 78.2    | 90.9    | 96.6    | 99.0    | 99.4        | 99.7    | 99.9        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 32.8                        | 39.0    | 46.5    | 52.0    | 55.7    | 56.7        | 57.4    | 57.6        | 57.7        | 57.8    | 57.8      | 57.8      | 57.8      | 57.8      | 57.9      | 58.0    |
| GE 20000              | 39.0                        | 46.7    | 55.6    | 62.0    | 66.0    | 67.1        | 67.8    | 68.1        | 68.1        | 68.2    | 68.2      | 68.2      | 68.3      | 68.3      | 68.4      | 68.4    |
| GE 18000              | 39.1                        | 46.8    | 55.7    | 62.0    | 66.0    | 67.2        | 67.9    | 68.1        | 68.2        | 68.2    | 68.3      | 68.3      | 68.3      | 68.3      | 68.4      | 68.5    |
| GE 16000              | 39.1                        | 46.8    | 55.7    | 62.1    | 66.1    | 67.2        | 67.9    | 68.2        | 68.2        | 68.3    | 68.4      | 68.4      | 68.4      | 68.4      | 68.5      | 68.6    |
| GE 14000              | 39.3                        | 47.1    | 56.0    | 62.4    | 66.4    | 67.6        | 68.3    | 68.5        | 68.6        | 68.6    | 68.7      | 68.7      | 68.7      | 68.7      | 68.8      | 68.9    |
| GE 12000              | 40.5                        | 48.5    | 57.7    | 64.3    | 68.4    | 69.5        | 70.2    | 70.5        | 70.5        | 70.6    | 70.7      | 70.7      | 70.7      | 70.7      | 70.8      | 70.8    |
| GE 10000              | 43.5                        | 52.2    | 62.1    | 69.2    | 73.5    | 74.7        | 75.4    | 75.7        | 75.8        | 75.8    | 75.9      | 75.9      | 75.9      | 75.9      | 76.0      | 76.1    |
| GE 9000               | 43.6                        | 52.4    | 62.3    | 69.4    | 73.7    | 74.9        | 75.6    | 75.9        | 76.0        | 76.0    | 76.1      | 76.1      | 76.2      | 76.2      | 76.2      | 76.3    |
| GE 8000               | 45.7                        | 54.9    | 65.4    | 72.8    | 77.3    | 78.5        | 79.3    | 79.6        | 79.7        | 79.7    | 79.8      | 79.8      | 79.9      | 79.9      | 79.9      | 80.0    |
| GE 7000               | 45.9                        | 55.2    | 65.7    | 73.3    | 77.8    | 79.0        | 79.8    | 80.1        | 80.2        | 80.2    | 80.3      | 80.3      | 80.3      | 80.3      | 80.4      | 80.5    |
| GE 6000               | 46.2                        | 55.6    | 66.1    | 73.7    | 78.2    | 79.5        | 80.3    | 80.6        | 80.6        | 80.7    | 80.8      | 80.8      | 80.8      | 80.8      | 80.9      | 81.0    |
| GE 5000               | 47.2                        | 56.7    | 67.3    | 75.0    | 79.6    | 80.8        | 81.6    | 81.9        | 82.0        | 82.1    | 82.1      | 82.1      | 82.2      | 82.2      | 82.3      | 82.3    |
| GE 4500               | 47.4                        | 56.9    | 67.6    | 75.3    | 79.9    | 81.2        | 81.9    | 82.3        | 82.3        | 82.4    | 82.4      | 82.4      | 82.5      | 82.5      | 82.6      | 82.6    |
| GE 4000               | 48.7                        | 58.5    | 69.6    | 77.6    | 82.4    | 83.8        | 84.6    | 84.9        | 85.0        | 85.0    | 85.1      | 85.1      | 85.1      | 85.1      | 85.2      | 85.3    |
| GE 3500               | 49.7                        | 59.8    | 71.3    | 79.3    | 84.2    | 85.6        | 86.4    | 86.8        | 86.8        | 86.9    | 87.0      | 87.0      | 87.0      | 87.0      | 87.1      | 87.2    |
| GE 3000               | 51.2                        | 61.5    | 73.5    | 81.9    | 86.9    | 88.3        | 89.2    | 89.5        | 89.6        | 89.7    | 89.8      | 89.8      | 89.8      | 89.8      | 89.9      | 90.0    |
| GE 2500               | 51.7                        | 62.1    | 74.3    | 82.8    | 87.9    | 89.3        | 90.2    | 90.6        | 90.6        | 90.7    | 90.8      | 90.8      | 90.9      | 90.9      | 91.0      | 91.0    |
| GE 2000               | 52.3                        | 62.7    | 75.0    | 83.7    | 89.0    | 90.4        | 91.3    | 91.7        | 91.7        | 91.9    | 91.9      | 91.9      | 92.0      | 92.0      | 92.1      | 92.2    |
| GE 1800               | 52.4                        | 62.9    | 75.2    | 83.9    | 89.2    | 90.6        | 91.5    | 91.9        | 92.0        | 92.1    | 92.2      | 92.2      | 92.3      | 92.3      | 92.3      | 92.4    |
| GE 1500               | 52.9                        | 63.5    | 75.9    | 84.7    | 90.1    | 91.6        | 92.5    | 92.9        | 92.9        | 93.1    | 93.2      | 93.2      | 93.2      | 93.2      | 93.3      | 93.4    |
| GE 1200               | 53.2                        | 63.9    | 76.4    | 85.6    | 91.1    | 92.6        | 93.6    | 94.0        | 94.0        | 94.1    | 94.2      | 94.2      | 94.3      | 94.3      | 94.4      | 94.5    |
| GE 1000               | 53.4                        | 64.1    | 76.8    | 86.1    | 91.8    | 93.3        | 94.3    | 94.7        | 94.7        | 94.9    | 95.0      | 95.0      | 95.0      | 95.0      | 95.1      | 95.2    |
| GE 900                | 53.5                        | 64.2    | 77.0    | 86.4    | 92.1    | 93.7        | 94.7    | 95.1        | 95.2        | 95.3    | 95.4      | 95.4      | 95.5      | 95.5      | 95.6      | 95.6    |
| GE 800                | 53.5                        | 64.3    | 77.1    | 86.6    | 92.5    | 94.0        | 95.1    | 95.5        | 95.6        | 95.7    | 95.8      | 95.8      | 95.9      | 95.9      | 95.9      | 96.0    |
| GE 700                | 53.6                        | 64.4    | 77.3    | 86.9    | 93.0    | 94.6        | 95.8    | 96.3        | 96.3        | 96.4    | 96.5      | 96.5      | 96.6      | 96.6      | 96.7      | 96.8    |
| GE 600                | 53.7                        | 64.4    | 77.5    | 87.2    | 93.4    | 95.0        | 96.2    | 96.7        | 96.8        | 96.9    | 97.0      | 97.0      | 97.1      | 97.1      | 97.2      | 97.3    |
| GE 500                | 53.7                        | 64.5    | 77.7    | 87.6    | 94.1    | 95.7        | 97.0    | 97.6        | 97.6        | 97.8    | 97.9      | 97.9      | 97.9      | 97.9      | 98.0      | 98.1    |
| GE 400                | 53.7                        | 64.5    | 77.8    | 87.8    | 94.4    | 96.1        | 97.5    | 98.1        | 98.2        | 98.3    | 98.5      | 98.5      | 98.5      | 98.5      | 98.6      | 98.8    |
| GE 300                | 53.7                        | 64.6    | 77.8    | 87.9    | 94.7    | 96.4        | 97.9    | 98.5        | 98.6        | 98.8    | 99.0      | 99.0      | 99.1      | 99.1      | 99.2      | 99.4    |
| GE 200                | 53.7                        | 64.6    | 77.8    | 87.9    | 94.7    | 96.4        | 97.9    | 98.6        | 98.7        | 98.9    | 99.1      | 99.1      | 99.3      | 99.3      | 99.4      | 99.7    |
| GE 100                | 53.7                        | 64.6    | 77.8    | 87.9    | 94.7    | 96.4        | 98.0    | 98.6        | 98.7        | 99.0    | 99.2      | 99.2      | 99.4      | 99.4      | 99.5      | 99.9    |
| GE 000                | 53.7                        | 64.6    | 77.8    | 87.9    | 94.7    | 96.4        | 98.0    | 98.6        | 98.7        | 99.0    | 99.2      | 99.2      | 99.4      | 99.4      | 99.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.3                        | 55.4    | 60.2    | 61.4    | 63.3    | 63.3        | 63.3    | 63.3        | 63.3        | 63.4    | 63.4      | 63.4      | 63.4      | 63.4      | 63.4      | 63.4    |
| GE 20000              | 57.8                        | 60.0    | 65.1    | 66.4    | 68.7    | 68.7        | 68.7    | 68.7        | 68.7        | 68.8    | 68.8      | 68.8      | 68.8      | 68.8      | 68.8      | 68.8    |
| GE 18000              | 57.8                        | 60.0    | 65.2    | 66.6    | 68.8    | 68.8        | 68.8    | 68.8        | 68.8        | 68.9    | 68.9      | 68.9      | 68.9      | 68.9      | 68.9      | 68.9    |
| GE 16000              | 57.8                        | 60.0    | 65.2    | 66.5    | 68.8    | 68.8        | 68.8    | 68.8        | 68.8        | 68.9    | 68.9      | 68.9      | 68.9      | 68.9      | 68.9      | 68.9    |
| GE 14000              | 58.3                        | 60.6    | 65.8    | 67.1    | 69.3    | 69.3        | 69.3    | 69.3        | 69.3        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.4      | 69.4    |
| GE 12000              | 59.6                        | 61.9    | 67.2    | 68.6    | 70.8    | 70.8        | 70.8    | 70.8        | 70.8        | 70.9    | 70.9      | 70.9      | 70.9      | 70.9      | 70.9      | 70.9    |
| GE 10000              | 62.1                        | 64.7    | 70.0    | 71.3    | 73.6    | 73.6        | 73.6    | 73.7        | 73.7        | 73.8    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 9000               | 62.1                        | 64.7    | 70.0    | 71.3    | 73.6    | 73.6        | 73.6    | 73.7        | 73.7        | 73.8    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 8000               | 64.6                        | 67.2    | 72.7    | 74.3    | 76.6    | 76.7        | 76.7    | 76.8        | 76.8        | 76.9    | 76.9      | 76.9      | 76.9      | 76.9      | 76.9      | 76.9    |
| GE 7000               | 64.9                        | 67.6    | 73.1    | 75.0    | 77.2    | 77.3        | 77.3    | 77.4        | 77.4        | 77.6    | 77.6      | 77.6      | 77.6      | 77.6      | 77.6      | 77.6    |
| GE 6000               | 65.3                        | 68.1    | 73.7    | 75.6    | 77.8    | 77.9        | 77.9    | 78.0        | 78.0        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 5000               | 65.9                        | 68.7    | 74.2    | 76.1    | 78.3    | 78.4        | 78.4    | 78.6        | 78.6        | 78.7    | 78.7      | 78.7      | 78.7      | 78.7      | 78.7      | 78.7    |
| GE 4500               | 66.0                        | 68.8    | 74.3    | 76.2    | 78.6    | 78.7        | 78.7    | 78.8        | 78.8        | 78.9    | 78.9      | 78.9      | 78.9      | 78.9      | 78.9      | 78.9    |
| GE 4000               | 67.4                        | 70.4    | 76.2    | 78.1    | 80.8    | 80.9        | 80.9    | 81.0        | 81.0        | 81.1    | 81.1      | 81.1      | 81.1      | 81.1      | 81.1      | 81.1    |
| GE 3500               | 68.4                        | 71.6    | 77.4    | 79.3    | 82.3    | 82.4        | 82.4    | 82.6        | 82.6        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 3000               | 69.8                        | 73.3    | 79.3    | 81.7    | 84.8    | 85.1        | 85.1    | 85.2        | 85.2        | 85.3    | 85.3      | 85.3      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 2500               | 70.2                        | 73.9    | 79.9    | 82.3    | 85.4    | 85.8        | 85.8    | 85.9        | 85.9        | 86.0    | 86.0      | 86.0      | 86.0      | 86.0      | 86.0      | 86.0    |
| GE 2000               | 70.3                        | 74.1    | 80.2    | 82.8    | 86.2    | 86.6        | 86.6    | 86.7        | 86.7        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 1800               | 70.3                        | 74.1    | 80.2    | 82.8    | 86.2    | 86.6        | 86.6    | 86.7        | 86.7        | 86.8    | 86.8      | 86.8      | 86.8      | 86.8      | 86.8      | 86.8    |
| GE 1500               | 70.9                        | 74.9    | 81.0    | 83.6    | 87.0    | 87.3        | 87.3    | 87.4        | 87.4        | 87.6    | 87.7      | 87.7      | 87.7      | 87.7      | 87.7      | 87.7    |
| GE 1200               | 71.1                        | 75.4    | 82.1    | 85.0    | 88.4    | 88.8        | 88.8    | 88.9        | 88.9        | 89.0    | 89.1      | 89.1      | 89.1      | 89.1      | 89.1      | 89.1    |
| GE 1000               | 71.4                        | 75.8    | 82.6    | 85.8    | 89.3    | 89.9        | 89.9    | 90.1        | 90.1        | 90.2    | 90.3      | 90.3      | 90.3      | 90.3      | 90.3      | 90.3    |
| GE 900                | 71.9                        | 76.2    | 83.0    | 86.2    | 89.9    | 90.4        | 90.4    | 90.7        | 90.7        | 90.8    | 90.9      | 90.9      | 90.9      | 90.9      | 90.9      | 90.9    |
| GE 800                | 72.6                        | 76.9    | 83.8    | 87.1    | 90.8    | 91.9        | 92.2    | 92.4        | 92.4        | 92.6    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 700                | 72.9                        | 77.3    | 84.3    | 87.7    | 91.7    | 92.8        | 93.1    | 93.3        | 93.3        | 93.4    | 93.6      | 93.6      | 93.6      | 93.6      | 93.6      | 93.6    |
| GE 600                | 73.0                        | 77.4    | 84.6    | 88.2    | 92.7    | 93.8        | 94.3    | 94.6        | 94.6        | 94.7    | 94.8      | 94.8      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 500                | 73.0                        | 77.4    | 84.8    | 89.0    | 94.6    | 95.8        | 96.7    | 96.9        | 96.9        | 97.0    | 97.1      | 97.1      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 400                | 73.0                        | 77.4    | 84.8    | 89.3    | 95.3    | 96.6        | 97.4    | 97.7        | 97.7        | 97.8    | 97.9      | 97.9      | 98.0      | 98.0      | 98.0      | 98.0    |
| GE 300                | 73.0                        | 77.4    | 84.8    | 89.3    | 95.4    | 96.7        | 97.7    | 98.2        | 98.2        | 98.3    | 98.4      | 98.4      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 200                | 73.0                        | 77.4    | 84.8    | 89.3    | 95.7    | 96.9        | 98.0    | 98.7        | 98.7        | 98.9    | 99.0      | 99.0      | 99.1      | 99.1      | 99.1      | 99.2    |
| GE 100                | 73.0                        | 77.4    | 84.8    | 89.3    | 95.8    | 97.0        | 98.1    | 98.8        | 98.8        | 99.3    | 99.7      | 99.7      | 99.8      | 99.8      | 99.8      | 100.0   |
| GE 000                | 73.0                        | 77.4    | 84.8    | 89.3    | 95.8    | 97.0        | 98.1    | 98.8        | 98.8        | 99.3    | 99.7      | 99.7      | 99.8      | 99.8      | 99.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 47.4                        | 49.8    | 53.8    | 56.7    | 59.6    | 59.9        | 60.3    | 60.7        | 60.8        | 61.2    | 61.2      | 61.2      | 61.6      | 61.6      | 61.6      | 61.7    |
| GE 20000              | 49.4                        | 51.9    | 56.1    | 59.4    | 62.9    | 63.3        | 63.8    | 64.1        | 64.2        | 64.7    | 64.7      | 64.7      | 65.0      | 65.0      | 65.1      | 65.2    |
| GE 18000              | 49.4                        | 51.9    | 56.1    | 59.4    | 62.9    | 63.3        | 63.8    | 64.1        | 64.2        | 64.7    | 64.7      | 64.7      | 65.0      | 65.0      | 65.1      | 65.2    |
| GE 16000              | 49.4                        | 51.9    | 56.1    | 59.4    | 62.9    | 63.3        | 63.8    | 64.1        | 64.2        | 64.7    | 64.7      | 64.7      | 65.0      | 65.0      | 65.1      | 65.2    |
| GE 14000              | 49.7                        | 52.1    | 56.3    | 59.7    | 63.1    | 63.6        | 64.0    | 64.3        | 64.4        | 64.9    | 64.9      | 64.9      | 65.2      | 65.2      | 65.3      | 65.4    |
| GE 12000              | 50.3                        | 52.8    | 57.0    | 60.4    | 63.9    | 64.3        | 64.8    | 65.1        | 65.2        | 65.7    | 65.7      | 65.7      | 66.0      | 66.0      | 66.1      | 66.2    |
| GE 10000              | 51.8                        | 54.4    | 58.9    | 62.3    | 66.2    | 66.7        | 67.1    | 67.4        | 67.6        | 68.0    | 68.0      | 68.0      | 68.3      | 68.3      | 68.4      | 68.6    |
| GE 9000               | 52.0                        | 54.7    | 59.1    | 62.6    | 66.4    | 66.9        | 67.3    | 67.7        | 67.8        | 68.2    | 68.2      | 68.2      | 68.6      | 68.6      | 68.7      | 68.8    |
| GE 8000               | 53.8                        | 56.9    | 62.2    | 66.0    | 70.0    | 70.4        | 70.9    | 71.2        | 71.3        | 71.8    | 71.8      | 71.8      | 72.1      | 72.1      | 72.2      | 72.3    |
| GE 7000               | 54.0                        | 57.1    | 62.8    | 66.9    | 70.9    | 71.3        | 71.8    | 72.1        | 72.2        | 72.7    | 72.7      | 72.7      | 73.0      | 73.0      | 73.1      | 73.2    |
| GE 6000               | 54.6                        | 57.7    | 63.4    | 67.7    | 71.7    | 72.1        | 72.6    | 72.9        | 73.0        | 73.4    | 73.4      | 73.4      | 73.8      | 73.8      | 73.9      | 74.0    |
| GE 5000               | 55.6                        | 58.8    | 64.7    | 68.9    | 72.9    | 73.3        | 73.8    | 74.1        | 74.2        | 74.7    | 74.7      | 74.7      | 75.0      | 75.0      | 75.1      | 75.2    |
| GE 4500               | 55.9                        | 59.2    | 65.2    | 69.4    | 73.4    | 73.9        | 74.3    | 74.8        | 74.9        | 75.3    | 75.3      | 75.3      | 75.7      | 75.7      | 75.8      | 75.9    |
| GE 4000               | 57.9                        | 61.2    | 67.6    | 71.9    | 75.9    | 76.6        | 77.0    | 77.4        | 77.6        | 78.0    | 78.0      | 78.0      | 78.3      | 78.3      | 78.4      | 78.6    |
| GE 3500               | 58.3                        | 61.8    | 68.4    | 72.8    | 77.1    | 77.8        | 78.2    | 78.7        | 78.8        | 79.2    | 79.2      | 79.2      | 79.6      | 79.6      | 79.7      | 79.8    |
| GE 3000               | 58.6                        | 62.2    | 69.2    | 73.9    | 78.4    | 79.1        | 79.7    | 80.1        | 80.2        | 80.7    | 80.7      | 80.7      | 81.0      | 81.0      | 81.1      | 81.2    |
| GE 2500               | 58.7                        | 62.3    | 69.3    | 74.0    | 78.6    | 79.3        | 79.9    | 80.3        | 80.4        | 80.9    | 80.9      | 80.9      | 81.2      | 81.2      | 81.3      | 81.4    |
| GE 2000               | 59.3                        | 63.2    | 70.3    | 75.4    | 80.0    | 81.1        | 81.7    | 82.1        | 82.2        | 82.7    | 82.7      | 82.7      | 83.0      | 83.0      | 83.1      | 83.2    |
| GE 1800               | 59.4                        | 63.3    | 70.4    | 75.6    | 80.1    | 81.2        | 81.9    | 82.3        | 82.4        | 82.9    | 82.9      | 82.9      | 83.2      | 83.2      | 83.3      | 83.4    |
| GE 1500               | 59.6                        | 63.4    | 70.7    | 75.8    | 80.3    | 81.4        | 82.1    | 82.6        | 82.7        | 83.1    | 83.1      | 83.1      | 83.4      | 83.4      | 83.6      | 83.7    |
| GE 1200               | 59.9                        | 63.8    | 71.1    | 76.4    | 81.2    | 82.6        | 83.2    | 83.7        | 83.8        | 84.2    | 84.2      | 84.2      | 84.6      | 84.6      | 84.7      | 84.8    |
| GE 1000               | 60.7                        | 64.6    | 71.9    | 77.6    | 82.3    | 83.7        | 84.7    | 85.1        | 85.2        | 85.7    | 85.7      | 85.7      | 86.0      | 86.0      | 86.1      | 86.2    |
| GE 900                | 60.7                        | 64.6    | 71.9    | 77.8    | 82.7    | 84.1        | 85.1    | 85.6        | 85.7        | 86.1    | 86.1      | 86.1      | 86.4      | 86.4      | 86.6      | 86.7    |
| GE 800                | 61.0                        | 64.9    | 72.3    | 78.7    | 83.6    | 85.1        | 86.2    | 86.9        | 87.0        | 87.4    | 87.4      | 87.4      | 87.8      | 87.8      | 87.9      | 88.0    |
| GE 700                | 61.4                        | 65.3    | 72.9    | 79.4    | 84.8    | 86.3        | 87.4    | 88.1        | 88.2        | 88.7    | 88.7      | 88.7      | 89.0      | 89.0      | 89.1      | 89.2    |
| GE 600                | 61.7                        | 65.8    | 73.3    | 79.9    | 86.0    | 87.7        | 89.3    | 90.1        | 90.2        | 90.7    | 90.7      | 90.7      | 91.0      | 91.0      | 91.1      | 91.2    |
| GE 500                | 61.7                        | 65.8    | 73.3    | 80.9    | 87.4    | 89.1        | 91.0    | 91.8        | 91.9        | 92.3    | 92.3      | 92.3      | 92.8      | 92.8      | 92.9      | 93.0    |
| GE 400                | 61.7                        | 65.8    | 73.6    | 81.3    | 88.0    | 89.7        | 91.8    | 92.6        | 92.7        | 93.1    | 93.1      | 93.1      | 93.6      | 93.6      | 93.7      | 94.0    |
| GE 300                | 61.7                        | 65.8    | 73.6    | 81.7    | 88.6    | 90.4        | 92.8    | 93.8        | 93.9        | 94.3    | 94.4      | 94.4      | 95.0      | 95.0      | 95.2      | 95.7    |
| GE 200                | 61.7                        | 65.8    | 73.6    | 81.7    | 88.8    | 90.7        | 93.2    | 94.4        | 94.6        | 95.2    | 95.6      | 95.6      | 96.2      | 96.2      | 96.8      | 97.6    |
| GE 100                | 61.7                        | 65.8    | 73.6    | 81.7    | 88.9    | 90.8        | 93.4    | 94.8        | 94.9        | 95.7    | 96.3      | 96.7      | 97.6      | 97.7      | 98.4      | 99.4    |
| GE 000                | 61.7                        | 65.8    | 73.6    | 81.7    | 88.9    | 90.8        | 93.4    | 94.8        | 94.9        | 95.7    | 96.3      | 96.7      | 97.6      | 97.7      | 98.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 18.7                        | 23.1    | 30.6    | 37.2    | 45.0    | 48.2        | 50.1    | 51.2        | 51.4        | 51.6    | 52.1      | 52.2      | 52.7      | 52.9      | 53.0      | 53.2    |
| GE 20000              | 20.1                        | 25.2    | 33.1    | 39.9    | 48.0    | 51.3        | 53.4    | 54.9        | 55.1        | 55.2    | 55.9      | 56.0      | 56.8      | 57.0      | 57.1      | 57.3    |
| GE 18000              | 20.1                        | 25.2    | 33.1    | 39.9    | 48.0    | 51.3        | 53.4    | 54.9        | 55.1        | 55.2    | 55.9      | 56.0      | 56.8      | 57.0      | 57.1      | 57.3    |
| GE 16000              | 20.1                        | 25.2    | 33.1    | 40.0    | 48.1    | 51.4        | 53.6    | 55.0        | 55.2        | 55.3    | 56.0      | 56.1      | 56.9      | 57.1      | 57.2      | 57.4    |
| GE 14000              | 20.6                        | 25.8    | 33.7    | 40.6    | 48.7    | 52.1        | 54.2    | 55.7        | 55.9        | 56.0    | 56.7      | 56.8      | 57.6      | 57.8      | 57.9      | 58.1    |
| GE 12000              | 21.3                        | 26.7    | 34.6    | 41.6    | 50.0    | 53.6        | 55.7    | 57.2        | 57.4        | 57.7    | 58.3      | 58.4      | 59.2      | 59.4      | 59.6      | 59.8    |
| GE 10000              | 22.3                        | 28.1    | 37.0    | 44.1    | 53.0    | 56.6        | 58.8    | 60.4        | 60.7        | 60.9    | 61.6      | 61.7      | 62.6      | 62.8      | 62.9      | 63.1    |
| GE 9000               | 22.7                        | 28.8    | 37.8    | 45.0    | 53.9    | 57.4        | 59.7    | 61.3        | 61.6        | 61.8    | 62.4      | 62.6      | 63.4      | 63.7      | 63.8      | 64.0    |
| GE 8000               | 24.8                        | 31.8    | 41.3    | 48.8    | 58.3    | 61.9        | 64.2    | 65.9        | 66.1        | 66.3    | 67.0      | 67.1      | 68.0      | 68.2      | 68.3      | 68.7    |
| GE 7000               | 25.0                        | 32.2    | 41.9    | 49.7    | 59.2    | 62.8        | 65.1    | 66.8        | 67.0        | 67.2    | 67.9      | 68.0      | 68.9      | 69.1      | 69.2      | 69.6    |
| GE 6000               | 25.1                        | 32.3    | 42.2    | 50.1    | 59.9    | 63.4        | 65.8    | 67.4        | 67.7        | 67.9    | 68.6      | 68.7      | 69.6      | 69.8      | 69.9      | 70.2    |
| GE 5000               | 25.6                        | 33.0    | 42.9    | 50.9    | 60.7    | 64.6        | 67.0    | 68.7        | 68.9        | 69.1    | 69.8      | 69.9      | 70.8      | 71.0      | 71.1      | 71.4    |
| GE 4500               | 25.9                        | 33.3    | 43.2    | 51.2    | 61.0    | 65.0        | 67.4    | 69.1        | 69.3        | 69.6    | 70.2      | 70.3      | 71.2      | 71.4      | 71.6      | 71.9    |
| GE 4000               | 27.1                        | 34.7    | 44.6    | 52.7    | 62.6    | 66.7        | 69.2    | 70.9        | 71.1        | 71.4    | 72.1      | 72.2      | 73.1      | 73.3      | 73.4      | 73.8    |
| GE 3500               | 28.0                        | 35.6    | 45.4    | 53.6    | 63.4    | 67.6        | 70.1    | 71.8        | 72.0        | 72.3    | 73.0      | 73.1      | 74.0      | 74.2      | 74.3      | 74.7    |
| GE 3000               | 29.3                        | 36.9    | 46.8    | 55.1    | 65.1    | 69.2        | 71.8    | 73.4        | 73.7        | 74.0    | 74.7      | 74.8      | 75.7      | 75.9      | 76.0      | 76.3    |
| GE 2500               | 29.9                        | 37.6    | 47.6    | 56.2    | 66.2    | 70.6        | 73.1    | 74.8        | 75.0        | 75.3    | 76.0      | 76.1      | 77.0      | 77.2      | 77.3      | 77.7    |
| GE 2000               | 30.2                        | 37.9    | 47.9    | 57.2    | 67.4    | 71.9        | 74.4    | 76.1        | 76.3        | 76.7    | 77.3      | 77.4      | 78.3      | 78.6      | 78.7      | 79.0    |
| GE 1800               | 30.2                        | 37.9    | 48.0    | 57.4    | 67.7    | 72.1        | 74.7    | 76.3        | 76.6        | 76.9    | 77.6      | 77.7      | 78.6      | 78.8      | 78.9      | 79.2    |
| GE 1500               | 30.4                        | 38.1    | 48.3    | 57.8    | 68.0    | 72.4        | 75.0    | 76.7        | 76.9        | 77.2    | 77.9      | 78.0      | 78.9      | 79.1      | 79.2      | 79.6    |
| GE 1200               | 30.8                        | 38.8    | 49.1    | 58.8    | 69.2    | 73.9        | 76.4    | 78.1        | 78.7        | 79.1    | 79.8      | 79.9      | 80.8      | 81.0      | 81.1      | 81.4    |
| GE 1000               | 31.0                        | 39.0    | 49.3    | 59.1    | 69.6    | 74.4        | 77.1    | 78.8        | 79.3        | 79.8    | 80.4      | 80.6      | 81.6      | 81.8      | 81.9      | 82.2    |
| GE 900                | 31.4                        | 39.4    | 50.0    | 60.0    | 70.7    | 75.6        | 78.2    | 79.9        | 80.4        | 81.0    | 81.7      | 81.8      | 82.8      | 83.0      | 83.1      | 83.4    |
| GE 800                | 31.6                        | 39.6    | 50.2    | 60.3    | 71.2    | 76.2        | 79.1    | 80.8        | 81.4        | 82.0    | 82.7      | 82.8      | 83.8      | 84.0      | 84.1      | 84.4    |
| GE 700                | 31.7                        | 39.7    | 50.3    | 61.0    | 72.8    | 77.9        | 80.8    | 82.4        | 83.1        | 83.7    | 84.3      | 84.4      | 85.4      | 85.7      | 85.8      | 86.1    |
| GE 600                | 32.0                        | 40.0    | 50.9    | 61.8    | 74.0    | 79.3        | 82.3    | 84.1        | 84.8        | 85.4    | 86.1      | 86.2      | 87.2      | 87.4      | 87.6      | 87.9    |
| GE 500                | 32.1                        | 40.1    | 51.2    | 62.7    | 75.8    | 81.4        | 84.7    | 87.0        | 87.8        | 88.6    | 89.6      | 89.7      | 90.7      | 90.9      | 91.0      | 91.6    |
| GE 400                | 32.1                        | 40.1    | 51.3    | 63.3    | 77.2    | 82.9        | 86.3    | 89.3        | 90.1        | 91.0    | 92.1      | 92.2      | 93.2      | 93.4      | 93.7      | 94.3    |
| GE 300                | 32.1                        | 40.1    | 51.3    | 63.4    | 77.3    | 83.2        | 87.2    | 90.8        | 91.7        | 92.8    | 94.1      | 94.2      | 95.4      | 95.7      | 96.0      | 97.0    |
| GE 200                | 32.1                        | 40.1    | 51.3    | 63.4    | 77.4    | 83.3        | 87.3    | 90.9        | 91.9        | 93.2    | 94.8      | 94.9      | 96.6      | 96.8      | 97.3      | 98.8    |
| GE 100                | 32.1                        | 40.1    | 51.3    | 63.4    | 77.4    | 83.3        | 87.3    | 91.0        | 92.0        | 93.4    | 95.1      | 95.2      | 96.9      | 97.1      | 98.0      | 99.9    |
| GE 000                | 32.1                        | 40.1    | 51.3    | 63.4    | 77.4    | 83.3        | 87.3    | 91.0        | 92.0        | 93.4    | 95.1      | 95.2      | 96.9      | 97.1      | 98.1      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 34.0                        | 42.3    | 50.2    | 54.1    | 55.1    | 55.2        | 55.2    | 55.2        | 55.2        | 55.2    | 55.2      | 55.2      | 55.2      | 55.2      | 55.2      | 55.2    |
| GE 20000              | 37.4                        | 46.7    | 55.1    | 59.3    | 60.3    | 60.4        | 60.4    | 60.4        | 60.4        | 60.4    | 60.4      | 60.4      | 60.4      | 60.4      | 60.4      | 60.4    |
| GE 18000              | 37.4                        | 46.7    | 55.2    | 59.4    | 60.4    | 60.6        | 60.6    | 60.6        | 60.6        | 60.6    | 60.6      | 60.6      | 60.6      | 60.6      | 60.6      | 60.6    |
| GE 16000              | 37.4                        | 46.7    | 55.2    | 59.4    | 60.4    | 60.6        | 60.6    | 60.6        | 60.6        | 60.6    | 60.6      | 60.6      | 60.6      | 60.6      | 60.6      | 60.6    |
| GE 14000              | 37.8                        | 47.0    | 55.6    | 59.8    | 60.8    | 60.9        | 60.9    | 60.9        | 60.9        | 60.9    | 60.9      | 60.9      | 60.9      | 60.9      | 60.9      | 60.9    |
| GE 12000              | 39.2                        | 48.7    | 57.4    | 61.7    | 62.8    | 62.9        | 62.9    | 62.9        | 62.9        | 62.9    | 62.9      | 62.9      | 62.9      | 62.9      | 62.9      | 62.9    |
| GE 10000              | 41.3                        | 51.7    | 61.2    | 65.8    | 67.0    | 67.1        | 67.2    | 67.2        | 67.2        | 67.2    | 67.2      | 67.2      | 67.2      | 67.2      | 67.2      | 67.2    |
| GE 9000               | 41.6                        | 51.9    | 61.6    | 66.3    | 67.6    | 67.7        | 67.8    | 67.8        | 67.8        | 67.8    | 67.8      | 67.8      | 67.8      | 67.8      | 67.8      | 67.8    |
| GE 8000               | 44.2                        | 54.9    | 65.2    | 70.6    | 71.9    | 72.0        | 72.1    | 72.1        | 72.1        | 72.1    | 72.1      | 72.1      | 72.1      | 72.1      | 72.1      | 72.1    |
| GE 7000               | 44.7                        | 55.7    | 66.0    | 71.3    | 72.7    | 72.8        | 72.9    | 72.9        | 72.9        | 72.9    | 72.9      | 72.9      | 72.9      | 72.9      | 72.9      | 72.9    |
| GE 6000               | 45.0                        | 56.0    | 66.3    | 71.9    | 73.2    | 73.3        | 73.4    | 73.4        | 73.4        | 73.4    | 73.4      | 73.4      | 73.4      | 73.4      | 73.4      | 73.4    |
| GE 5000               | 45.6                        | 56.8    | 67.1    | 72.7    | 74.0    | 74.2        | 74.3    | 74.3        | 74.3        | 74.3    | 74.3      | 74.3      | 74.3      | 74.3      | 74.3      | 74.3    |
| GE 4500               | 45.9                        | 57.2    | 67.6    | 73.1    | 74.4    | 74.7        | 74.8    | 74.8        | 74.8        | 74.8    | 74.8      | 74.8      | 74.8      | 74.8      | 74.8      | 74.8    |
| GE 4000               | 46.8                        | 58.2    | 68.6    | 74.2    | 75.7    | 76.0        | 76.1    | 76.1        | 76.1        | 76.1    | 76.1      | 76.1      | 76.1      | 76.1      | 76.1      | 76.1    |
| GE 3500               | 47.0                        | 58.6    | 69.0    | 74.8    | 76.3    | 76.7        | 76.8    | 76.8        | 76.8        | 76.8    | 76.8      | 76.8      | 76.8      | 76.8      | 76.8      | 76.8    |
| GE 3000               | 48.0                        | 59.9    | 70.6    | 76.9    | 78.7    | 79.0        | 79.1    | 79.1        | 79.1        | 79.1    | 79.1      | 79.1      | 79.1      | 79.1      | 79.1      | 79.1    |
| GE 2500               | 48.9                        | 60.8    | 71.6    | 78.1    | 79.9    | 80.2        | 80.3    | 80.3        | 80.3        | 80.3    | 80.3      | 80.3      | 80.3      | 80.3      | 80.3      | 80.3    |
| GE 2000               | 49.8                        | 61.8    | 72.8    | 79.7    | 81.4    | 82.0        | 82.1    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.1      | 82.1      | 82.1      | 82.1    |
| GE 1800               | 49.8                        | 61.8    | 72.8    | 79.7    | 81.4    | 82.0        | 82.1    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.1      | 82.1      | 82.1      | 82.1    |
| GE 1500               | 50.6                        | 62.8    | 74.1    | 81.2    | 83.2    | 83.8        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 1200               | 52.0                        | 64.7    | 76.4    | 83.9    | 86.2    | 87.0        | 87.3    | 87.4        | 87.4        | 87.4    | 87.4      | 87.4      | 87.4      | 87.4      | 87.4      | 87.4    |
| GE 1000               | 52.3                        | 65.0    | 77.0    | 85.2    | 88.1    | 89.2        | 89.7    | 89.9        | 89.9        | 90.0    | 90.0      | 90.0      | 90.0      | 90.0      | 90.0      | 90.0    |
| GE 900                | 52.9                        | 65.8    | 78.0    | 86.2    | 89.3    | 90.4        | 90.9    | 91.1        | 91.1        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 800                | 53.3                        | 66.2    | 78.4    | 87.0    | 90.4    | 91.7        | 92.4    | 92.9        | 92.9        | 93.1    | 93.1      | 93.1      | 93.1      | 93.1      | 93.1      | 93.1    |
| GE 700                | 53.6                        | 66.6    | 79.0    | 87.8    | 91.6    | 93.0        | 93.8    | 94.2        | 94.2        | 94.4    | 94.4      | 94.4      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 600                | 53.6                        | 66.8    | 79.6    | 88.8    | 92.8    | 94.2        | 95.2    | 96.0        | 96.0        | 96.3    | 96.3      | 96.3      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 500                | 53.6                        | 66.9    | 79.7    | 89.3    | 94.1    | 95.7        | 97.1    | 98.0        | 98.1        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 400                | 53.6                        | 66.9    | 79.7    | 89.6    | 94.9    | 96.6        | 98.2    | 99.3        | 99.4        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 53.6                        | 66.9    | 79.7    | 89.6    | 94.9    | 96.6        | 98.2    | 99.3        | 99.6        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 53.6                        | 66.9    | 79.7    | 89.6    | 94.9    | 96.6        | 98.2    | 99.3        | 99.6        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 53.6                        | 66.9    | 79.7    | 89.6    | 94.9    | 96.6        | 98.2    | 99.3        | 99.6        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 53.6                        | 66.9    | 79.7    | 89.6    | 94.9    | 96.6        | 98.2    | 99.3        | 99.6        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 46.4                        | 52.0    | 55.1    | 55.9    | 56.2    | 56.2        | 56.2    | 56.2        | 56.2        | 56.2    | 56.2      | 56.2      | 56.2      | 56.2      | 56.2      | 56.2    |
| GE 20000              | 52.2                        | 59.3    | 62.9    | 63.8    | 64.1    | 64.1        | 64.1    | 64.1        | 64.1        | 64.1    | 64.1      | 64.1      | 64.1      | 64.1      | 64.1      | 64.1    |
| GE 18000              | 52.2                        | 59.3    | 62.9    | 63.8    | 64.1    | 64.1        | 64.1    | 64.1        | 64.1        | 64.1    | 64.1      | 64.1      | 64.1      | 64.1      | 64.1      | 64.1    |
| GE 16000              | 52.2                        | 59.3    | 62.9    | 63.8    | 64.1    | 64.1        | 64.1    | 64.1        | 64.1        | 64.1    | 64.1      | 64.1      | 64.1      | 64.1      | 64.1      | 64.1    |
| GE 4000               | 52.2                        | 59.3    | 62.9    | 63.8    | 64.1    | 64.1        | 64.1    | 64.1        | 64.1        | 64.1    | 64.1      | 64.1      | 64.1      | 64.1      | 64.1      | 64.1    |
| GE 12000              | 53.4                        | 60.9    | 64.6    | 65.4    | 65.8    | 65.8        | 65.8    | 65.8        | 65.8        | 65.8    | 65.8      | 65.8      | 65.8      | 65.8      | 65.8      | 65.8    |
| GE 10000              | 57.7                        | 65.9    | 70.0    | 71.0    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 9000               | 57.7                        | 65.9    | 70.0    | 71.0    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 8000               | 62.0                        | 70.3    | 74.9    | 76.1    | 76.6    | 76.6        | 76.6    | 76.6        | 76.6        | 76.6    | 76.6      | 76.6      | 76.6      | 76.6      | 76.6      | 76.6    |
| GE 7000               | 62.8                        | 71.1    | 75.7    | 76.9    | 77.3    | 77.3        | 77.3    | 77.3        | 77.3        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 6000               | 62.8                        | 71.1    | 75.7    | 76.9    | 77.3    | 77.3        | 77.3    | 77.3        | 77.3        | 77.3    | 77.3      | 77.3      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 5000               | 63.1                        | 71.6    | 76.2    | 77.6    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 4500               | 63.4                        | 71.9    | 76.6    | 77.9    | 78.3    | 78.3        | 78.3    | 78.3        | 78.3        | 78.3    | 78.3      | 78.3      | 78.3      | 78.3      | 78.3      | 78.3    |
| GE 4000               | 65.0                        | 73.7    | 78.6    | 80.0    | 80.4    | 80.6        | 80.6    | 80.6        | 80.6        | 80.6    | 80.6      | 80.6      | 80.6      | 80.6      | 80.6      | 80.6    |
| GE 3500               | 65.7                        | 74.8    | 79.7    | 81.2    | 81.7    | 81.8        | 81.8    | 81.8        | 81.8        | 81.8    | 81.8      | 81.8      | 81.8      | 81.8      | 81.8      | 81.8    |
| GE 3000               | 67.8                        | 77.7    | 83.0    | 85.0    | 85.7    | 85.8        | 85.8    | 85.8        | 85.8        | 85.8    | 85.8      | 85.8      | 85.8      | 85.8      | 85.8      | 85.8    |
| GE 2500               | 68.4                        | 78.4    | 84.2    | 86.3    | 87.0    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.1      | 87.1      | 87.1      | 87.1    |
| GE 2000               | 69.1                        | 79.6    | 86.8    | 88.9    | 89.7    | 89.9        | 89.9    | 89.9        | 89.9        | 89.9    | 89.9      | 89.9      | 89.9      | 89.9      | 89.9      | 89.9    |
| GE 1800               | 69.4                        | 79.9    | 87.3    | 89.4    | 90.2    | 90.4        | 90.4    | 90.4        | 90.4        | 90.4    | 90.4      | 90.4      | 90.4      | 90.4      | 90.4      | 90.4    |
| GE 1500               | 70.8                        | 81.3    | 88.9    | 91.2    | 92.2    | 92.4        | 92.4    | 92.4        | 92.4        | 92.4    | 92.4      | 92.4      | 92.4      | 92.4      | 92.4      | 92.4    |
| GE 1200               | 71.7                        | 82.6    | 90.4    | 93.1    | 94.1    | 94.9        | 95.2    | 95.2        | 95.2        | 95.2    | 95.2      | 95.2      | 95.2      | 95.2      | 95.2      | 95.2    |
| GE 1000               | 71.9                        | 82.8    | 90.9    | 94.2    | 95.3    | 96.4        | 96.9    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 900                | 72.4                        | 83.3    | 91.6    | 95.1    | 96.2    | 97.3        | 97.9    | 97.9        | 97.9        | 97.9    | 97.9      | 97.9      | 97.9      | 97.9      | 97.9      | 97.9    |
| GE 800                | 72.7                        | 83.6    | 91.8    | 95.4    | 96.9    | 98.0        | 98.6    | 98.7        | 98.7        | 98.7    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 700                | 72.9                        | 83.8    | 92.0    | 95.9    | 97.6    | 98.7        | 99.2    | 99.3        | 99.3        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 600                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.7    | 99.8        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 500                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 72.9                        | 83.8    | 92.0    | 96.0    | 97.7    | 98.8        | 99.9    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE-FREQUENCY-OF OCCURRENCE OF CEILING-VERSUS-VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC  
LST TO-UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO-CEIL               | 45.4                        | 50.6    | 53.0    | 53.9    | 54.0    | 54.0        | 54.0    | 54.0        | 54.0        | 54.0    | 54.0      | 54.0      | 54.0      | 54.0      | 54.0      | 54.0    |
| GE 20000              | 54.8                        | 61.6    | 65.0    | 66.4    | 66.6    | 66.6        | 66.6    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 18000              | 54.9                        | 61.7    | 65.1    | 66.6    | 66.7    | 66.7        | 66.7    | 66.7        | 66.7        | 66.7    | 66.7      | 66.7      | 66.7      | 66.7      | 66.7      | 66.7    |
| GE 16000              | 55.0                        | 61.8    | 65.2    | 66.7    | 66.8    | 66.8        | 66.8    | 66.8        | 66.8        | 66.8    | 66.8      | 66.8      | 66.8      | 66.8      | 66.8      | 66.8    |
| GE 14000              | 55.1                        | 61.9    | 65.3    | 66.8    | 66.9    | 66.9        | 66.9    | 66.9        | 66.9        | 66.9    | 66.9      | 66.9      | 66.9      | 66.9      | 66.9      | 66.9    |
| GE 12000              | 56.0                        | 62.9    | 66.3    | 67.8    | 67.9    | 67.9        | 67.9    | 67.9        | 67.9        | 67.9    | 67.9      | 67.9      | 67.9      | 67.9      | 67.9      | 67.9    |
| GE 10000              | 60.8                        | 67.9    | 71.8    | 73.3    | 73.4    | 73.4        | 73.4    | 73.6        | 73.6        | 73.6    | 73.6      | 73.6      | 73.6      | 73.6      | 73.6      | 73.6    |
| GE 9000               | 60.9                        | 68.0    | 71.9    | 73.4    | 73.6    | 73.6        | 73.6    | 73.7        | 73.7        | 73.7    | 73.7      | 73.7      | 73.7      | 73.7      | 73.7      | 73.7    |
| GE 8000               | 66.0                        | 73.3    | 77.6    | 79.2    | 79.7    | 79.7        | 79.7    | 79.8        | 79.8        | 79.8    | 79.8      | 79.8      | 79.8      | 79.8      | 79.8      | 79.8    |
| GE 7000               | 66.2                        | 73.6    | 77.8    | 79.7    | 80.1    | 80.1        | 80.1    | 80.2        | 80.2        | 80.2    | 80.2      | 80.2      | 80.2      | 80.2      | 80.2      | 80.2    |
| GE 6000               | 66.7                        | 74.0    | 78.2    | 80.1    | 80.6    | 80.6        | 80.6    | 80.7        | 80.7        | 80.7    | 80.7      | 80.7      | 80.7      | 80.7      | 80.7      | 80.7    |
| GE 5000               | 66.9                        | 74.3    | 78.6    | 80.4    | 80.9    | 80.9        | 80.9    | 81.0        | 81.0        | 81.0    | 81.0      | 81.0      | 81.0      | 81.0      | 81.0      | 81.0    |
| GE 4500               | 67.3                        | 74.8    | 79.1    | 81.0    | 81.4    | 81.6        | 81.6    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 4000               | 69.3                        | 77.0    | 82.0    | 84.0    | 84.4    | 84.6        | 84.6    | 84.7        | 84.7        | 84.7    | 84.7      | 84.7      | 84.7      | 84.7      | 84.7      | 84.7    |
| GE 3500               | 70.7                        | 78.3    | 83.3    | 85.6    | 86.0    | 86.2        | 86.2    | 86.3        | 86.3        | 86.3    | 86.3      | 86.3      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 3000               | 72.6                        | 80.6    | 86.0    | 88.7    | 89.1    | 89.3        | 89.3    | 89.4        | 89.4        | 89.4    | 89.4      | 89.4      | 89.4      | 89.4      | 89.4      | 89.4    |
| GE 2500               | 73.2                        | 81.4    | 87.3    | 90.0    | 90.6    | 90.8        | 90.8    | 90.9        | 90.9        | 90.9    | 90.9      | 90.9      | 90.9      | 90.9      | 90.9      | 90.9    |
| GE 2000               | 73.7                        | 82.1    | 88.4    | 92.0    | 92.7    | 92.9        | 92.9    | 93.0        | 93.0        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 1800               | 73.7                        | 82.1    | 88.4    | 92.0    | 92.7    | 92.9        | 92.9    | 93.0        | 93.0        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 1500               | 74.2                        | 82.8    | 89.2    | 93.0    | 93.9    | 94.1        | 94.1    | 94.2        | 94.2        | 94.2    | 94.2      | 94.2      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 1200               | 75.0                        | 83.8    | 90.3    | 94.3    | 95.3    | 95.7        | 95.8    | 95.9        | 95.9        | 95.9    | 95.9      | 95.9      | 95.9      | 95.9      | 95.9      | 95.9    |
| GE 1000               | 75.2                        | 84.0    | 90.7    | 94.9    | 96.0    | 96.4        | 96.6    | 96.8        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 900                | 75.7                        | 84.4    | 91.1    | 95.4    | 96.6    | 97.1        | 97.3    | 97.6        | 97.7        | 97.7    | 97.7      | 97.7      | 97.7      | 97.7      | 97.7      | 97.7    |
| GE 800                | 75.8                        | 84.6    | 91.4    | 95.9    | 97.3    | 98.0        | 98.2    | 98.6        | 98.7        | 98.7    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 700                | 75.8                        | 84.6    | 91.4    | 95.9    | 97.4    | 98.1        | 98.3    | 98.8        | 98.9        | 98.9    | 98.9      | 98.9      | 98.9      | 98.9      | 98.9      | 98.9    |
| GE 600                | 75.8                        | 84.7    | 91.6    | 96.0    | 97.6    | 98.3        | 98.9    | 99.3        | 99.4        | 99.4    | 99.4      | 99.4      | 99.4      | 99.4      | 99.4      | 99.4    |
| GE 500                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 75.8                        | 84.7    | 91.7    | 96.1    | 97.9    | 98.8        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 49.3                        | 52.2    | 54.9    | 56.2    | 56.6    | 56.6        | 56.6    | 56.6        | 56.6        | 56.6    | 56.6      | 56.6      | 56.6      | 56.6      | 56.6      | 56.6    |
| GE 20000              | 58.3                        | 63.6    | 67.0    | 68.6    | 68.9    | 68.9        | 68.9    | 68.9        | 68.9        | 68.9    | 68.9      | 68.9      | 68.9      | 68.9      | 68.9      | 68.9    |
| GE 18000              | 58.6                        | 63.8    | 67.2    | 68.8    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 16000              | 58.6                        | 63.8    | 67.2    | 68.8    | 69.1    | 69.1        | 69.1    | 69.1        | 69.1        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.1      | 69.1    |
| GE 14000              | 58.8                        | 64.0    | 67.4    | 69.0    | 69.3    | 69.3        | 69.3    | 69.3        | 69.3        | 69.3    | 69.3      | 69.3      | 69.3      | 69.3      | 69.3      | 69.3    |
| GE 12000              | 60.3                        | 65.7    | 69.1    | 70.7    | 71.0    | 71.0        | 71.0    | 71.0        | 71.0        | 71.0    | 71.0      | 71.0      | 71.0      | 71.0      | 71.0      | 71.0    |
| GE 10000              | 63.8                        | 69.7    | 73.7    | 75.4    | 76.1    | 76.1        | 76.1    | 76.1        | 76.1        | 76.1    | 76.1      | 76.1      | 76.1      | 76.1      | 76.1      | 76.1    |
| GE 9000               | 64.0                        | 69.9    | 73.9    | 75.7    | 76.3    | 76.3        | 76.3    | 76.3        | 76.3        | 76.3    | 76.3      | 76.3      | 76.3      | 76.3      | 76.3      | 76.3    |
| GE 8000               | 67.7                        | 73.9    | 78.0    | 80.0    | 80.7    | 80.7        | 80.7    | 80.7        | 80.7        | 80.7    | 80.7      | 80.7      | 80.7      | 80.7      | 80.7      | 80.7    |
| GE 7000               | 68.3                        | 74.7    | 78.8    | 80.8    | 81.4    | 81.4        | 81.4    | 81.4        | 81.4        | 81.4    | 81.4      | 81.4      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 6000               | 68.8                        | 75.1    | 79.3    | 81.4    | 82.1    | 82.1        | 82.1    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.1      | 82.1      | 82.1      | 82.1    |
| GE 5000               | 69.8                        | 76.1    | 80.3    | 82.4    | 83.1    | 83.1        | 83.1    | 83.1        | 83.1        | 83.1    | 83.1      | 83.1      | 83.1      | 83.1      | 83.1      | 83.1    |
| GE 4500               | 69.9                        | 76.2    | 80.4    | 82.6    | 83.2    | 83.2        | 83.2    | 83.2        | 83.2        | 83.2    | 83.2      | 83.2      | 83.2      | 83.2      | 83.2      | 83.2    |
| GE 4000               | 71.7                        | 78.0    | 82.7    | 85.0    | 86.3    | 86.3        | 86.3    | 86.3        | 86.3        | 86.3    | 86.3      | 86.3      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 3500               | 72.9                        | 79.3    | 84.0    | 86.7    | 88.0    | 88.0        | 88.0    | 88.0        | 88.0        | 88.0    | 88.0      | 88.0      | 88.0      | 88.0      | 88.0      | 88.0    |
| GE 3000               | 74.8                        | 81.3    | 86.3    | 89.4    | 91.0    | 91.0        | 91.1    | 91.2        | 91.2        | 91.2    | 91.2      | 91.2      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 2500               | 75.4                        | 82.1    | 87.2    | 90.3    | 91.9    | 91.9        | 92.0    | 92.1        | 92.1        | 92.1    | 92.1      | 92.1      | 92.1      | 92.1      | 92.1      | 92.1    |
| GE 2000               | 76.0                        | 82.9    | 88.2    | 91.7    | 93.2    | 93.2        | 93.3    | 93.4        | 93.4        | 93.4    | 93.4      | 93.4      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 1800               | 76.0                        | 82.9    | 88.2    | 91.7    | 93.2    | 93.2        | 93.3    | 93.4        | 93.4        | 93.4    | 93.4      | 93.4      | 93.4      | 93.4      | 93.4      | 93.4    |
| GE 1500               | 76.1                        | 83.0    | 88.3    | 92.0    | 93.8    | 93.8        | 93.9    | 94.0        | 94.0        | 94.0    | 94.0      | 94.0      | 94.0      | 94.0      | 94.0      | 94.0    |
| GE 1200               | 76.3                        | 83.2    | 88.6    | 92.3    | 94.3    | 94.3        | 94.4    | 94.6        | 94.6        | 94.6    | 94.6      | 94.6      | 94.6      | 94.6      | 94.6      | 94.6    |
| GE 1000               | 76.8                        | 83.7    | 89.0    | 92.9    | 95.7    | 95.9        | 96.2    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 900                | 77.1                        | 84.0    | 89.3    | 93.3    | 96.1    | 96.3        | 96.7    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 800                | 77.3                        | 84.3    | 89.7    | 93.8    | 96.7    | 97.0        | 97.6    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 700                | 77.3                        | 84.3    | 89.7    | 94.0    | 97.2    | 97.6        | 98.1    | 98.7        | 98.7        | 98.7    | 98.7      | 98.7      | 98.7      | 98.7      | 98.7      | 98.7    |
| GE 600                | 77.3                        | 84.4    | 89.9    | 94.2    | 97.7    | 98.1        | 98.7    | 99.2        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 500                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 400                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 77.3                        | 84.4    | 90.0    | 94.6    | 98.2    | 98.7        | 99.2    | 99.8        | 99.8        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>C |
| NO CEIL               | 56.8                        | 59.8    | 63.4    | 64.0    | 64.2    | 64.2        | 64.2    | 64.2        | 64.2        | 64.2    | 64.2      | 64.2      | 64.2      | 64.2      | 64.2      | 64.2    |
| GE 20000              | 62.6                        | 66.2    | 70.6    | 71.4    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 18000              | 62.6                        | 66.2    | 70.6    | 71.4    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 16000              | 62.6                        | 66.2    | 70.6    | 71.4    | 71.9    | 71.9        | 71.9    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 14000              | 62.9                        | 66.6    | 70.9    | 71.8    | 72.2    | 72.2        | 72.2    | 72.2        | 72.2        | 72.2    | 72.2      | 72.2      | 72.2      | 72.2      | 72.2      | 72.2    |
| GE 12000              | 64.6                        | 68.2    | 72.6    | 73.4    | 73.9    | 73.9        | 73.9    | 73.9        | 73.9        | 73.9    | 73.9      | 73.9      | 73.9      | 73.9      | 73.9      | 73.9    |
| GE 10000              | 66.3                        | 70.3    | 74.8    | 76.0    | 76.7    | 76.7        | 76.7    | 76.7        | 76.7        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.7      | 76.7    |
| GE 9000               | 66.3                        | 70.3    | 74.8    | 76.0    | 76.7    | 76.7        | 76.7    | 76.7        | 76.7        | 76.7    | 76.7      | 76.7      | 76.7      | 76.7      | 76.7      | 76.7    |
| GE 8000               | 69.9                        | 73.9    | 78.4    | 79.8    | 80.4    | 80.4        | 80.4    | 80.4        | 80.4        | 80.4    | 80.4      | 80.4      | 80.4      | 80.4      | 80.4      | 80.4    |
| GE 7000               | 70.6                        | 74.6    | 79.1    | 80.4    | 81.1    | 81.1        | 81.1    | 81.1        | 81.1        | 81.1    | 81.1      | 81.1      | 81.1      | 81.1      | 81.1      | 81.1    |
| GE 6000               | 70.9                        | 74.9    | 79.4    | 80.8    | 81.4    | 81.4        | 81.4    | 81.4        | 81.4        | 81.4    | 81.4      | 81.4      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 5000               | 71.6                        | 75.6    | 80.1    | 81.4    | 82.1    | 82.1        | 82.1    | 82.1        | 82.1        | 82.1    | 82.1      | 82.1      | 82.1      | 82.1      | 82.1      | 82.1    |
| GE 4500               | 71.7                        | 75.7    | 80.2    | 81.6    | 82.2    | 82.2        | 82.2    | 82.2        | 82.2        | 82.2    | 82.2      | 82.2      | 82.2      | 82.2      | 82.2      | 82.2    |
| GE 4000               | 73.4                        | 77.4    | 82.1    | 83.7    | 84.3    | 84.6        | 84.6    | 84.6        | 84.6        | 84.6    | 84.6      | 84.6      | 84.6      | 84.6      | 84.6      | 84.6    |
| GE 3500               | 75.1                        | 79.1    | 83.9    | 85.4    | 86.1    | 86.3        | 86.3    | 86.3        | 86.3        | 86.3    | 86.3      | 86.3      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 3000               | 77.2                        | 81.3    | 86.1    | 88.2    | 89.1    | 89.4        | 89.6    | 89.6        | 89.6        | 89.6    | 89.6      | 89.6      | 89.6      | 89.6      | 89.6      | 89.6    |
| GE 2500               | 77.9                        | 82.0    | 86.8    | 89.1    | 90.0    | 90.3        | 90.4    | 90.4        | 90.4        | 90.4    | 90.4      | 90.4      | 90.4      | 90.4      | 90.4      | 90.4    |
| GE 2000               | 78.3                        | 82.7    | 87.6    | 90.2    | 91.1    | 91.4        | 91.6    | 91.6        | 91.6        | 91.6    | 91.6      | 91.6      | 91.6      | 91.6      | 91.6      | 91.6    |
| GE 1800               | 78.6                        | 82.9    | 87.8    | 90.6    | 91.6    | 91.9        | 92.0    | 92.0        | 92.0        | 92.0    | 92.0      | 92.0      | 92.0      | 92.0      | 92.0      | 92.0    |
| GE 1500               | 78.7                        | 83.0    | 88.0    | 90.8    | 92.1    | 92.4        | 92.7    | 92.7        | 92.7        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 1200               | 78.7                        | 83.0    | 88.3    | 91.4    | 93.3    | 93.7        | 93.9    | 93.9        | 93.9        | 93.9    | 93.9      | 93.9      | 93.9      | 93.9      | 93.9      | 93.9    |
| GE 1000               | 78.8                        | 83.1    | 88.4    | 91.7    | 93.8    | 94.1        | 94.4    | 94.4        | 94.4        | 94.4    | 94.4      | 94.4      | 94.4      | 94.4      | 94.4      | 94.4    |
| GE 900                | 79.4                        | 83.8    | 89.2    | 92.4    | 94.6    | 94.9        | 95.2    | 95.4        | 95.4        | 95.4    | 95.4      | 95.4      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 800                | 79.7                        | 84.0    | 89.6    | 92.8    | 94.9    | 95.2        | 95.9    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 700                | 80.0                        | 84.3    | 89.9    | 93.4    | 95.7    | 96.0        | 96.7    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 600                | 80.2                        | 84.8    | 90.4    | 94.2    | 97.0    | 97.3        | 98.0    | 98.6        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 500                | 80.3                        | 84.9    | 90.6    | 94.6    | 97.8    | 98.1        | 98.8    | 99.3        | 99.3        | 99.3    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 400                | 80.3                        | 84.9    | 90.6    | 94.6    | 97.9    | 98.3        | 99.0    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 300                | 80.3                        | 84.9    | 90.6    | 94.6    | 97.9    | 98.3        | 99.0    | 99.7        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 200                | 80.3                        | 84.9    | 90.6    | 94.7    | 98.2    | 98.7        | 99.3    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 80.3                        | 84.9    | 90.6    | 94.7    | 98.2    | 98.7        | 99.3    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 80.3                        | 84.9    | 90.6    | 94.7    | 98.2    | 98.7        | 99.3    | 100.0       | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 43.9                        | 48.2    | 52.7    | 54.9    | 56.8    | 57.2        | 57.5    | 57.7        | 57.7        | 57.8    | 57.9      | 57.9      | 58.0      | 58.0      | 58.0      | 58.1    |
| GE 20000              | 49.1                        | 54.3    | 59.4    | 61.9    | 63.9    | 64.4        | 64.7    | 64.9        | 65.0        | 65.1    | 65.2      | 65.2      | 65.3      | 65.3      | 65.4      | 65.4    |
| GE 18000              | 49.1                        | 54.3    | 59.4    | 62.0    | 64.0    | 64.5        | 64.8    | 65.0        | 65.1        | 65.2    | 65.3      | 65.3      | 65.4      | 65.4      | 65.4      | 65.5    |
| GE 16000              | 49.1                        | 54.4    | 59.4    | 62.0    | 64.0    | 64.5        | 64.8    | 65.0        | 65.1        | 65.2    | 65.3      | 65.3      | 65.4      | 65.4      | 65.5      | 65.5    |
| GE 14000              | 49.4                        | 54.7    | 59.7    | 62.3    | 64.3    | 64.8        | 65.1    | 65.3        | 65.4        | 65.5    | 65.6      | 65.6      | 65.7      | 65.7      | 65.8      | 65.8    |
| GE 12000              | 50.6                        | 56.0    | 61.1    | 63.7    | 65.8    | 66.3        | 66.6    | 66.8        | 66.9        | 67.0    | 67.0      | 67.1      | 67.2      | 67.2      | 67.3      | 67.3    |
| GE 10000              | 53.3                        | 59.1    | 64.7    | 67.4    | 69.7    | 70.2        | 70.5    | 70.8        | 70.8        | 70.9    | 71.0      | 71.0      | 71.2      | 71.2      | 71.3      | 71.3    |
| GE 9000               | 53.4                        | 59.3    | 64.9    | 67.7    | 69.9    | 70.4        | 70.8    | 71.1        | 71.1        | 71.2    | 71.3      | 71.3      | 71.4      | 71.5      | 71.5      | 71.5    |
| GE 8000               | 56.6                        | 62.8    | 68.8    | 71.8    | 74.3    | 74.8        | 75.2    | 75.4        | 75.5        | 75.6    | 75.7      | 75.7      | 75.8      | 75.8      | 75.9      | 75.9    |
| GE 7000               | 57.1                        | 63.3    | 69.4    | 72.6    | 75.0    | 75.5        | 75.9    | 76.2        | 76.2        | 76.3    | 76.4      | 76.4      | 76.6      | 76.6      | 76.6      | 76.7    |
| GE 6000               | 57.4                        | 63.7    | 69.8    | 73.1    | 75.5    | 76.0        | 76.4    | 76.7        | 76.7        | 76.8    | 76.9      | 76.9      | 77.1      | 77.1      | 77.1      | 77.2    |
| GE 5000               | 58.0                        | 64.3    | 70.5    | 73.8    | 76.3    | 76.8        | 77.2    | 77.5        | 77.5        | 77.6    | 77.7      | 77.7      | 77.9      | 77.9      | 77.9      | 78.0    |
| GE 4500               | 58.3                        | 64.6    | 70.8    | 74.1    | 76.6    | 77.2        | 77.6    | 77.9        | 77.9        | 78.0    | 78.1      | 78.1      | 78.3      | 78.3      | 78.3      | 78.4    |
| GE 4000               | 59.8                        | 66.3    | 72.8    | 76.2    | 78.8    | 79.5        | 79.9    | 80.2        | 80.2        | 80.3    | 80.4      | 80.4      | 80.6      | 80.6      | 80.7      | 80.7    |
| GE 3500               | 60.8                        | 67.4    | 73.9    | 77.4    | 80.1    | 80.8        | 81.2    | 81.5        | 81.6        | 81.7    | 81.8      | 81.8      | 81.9      | 82.0      | 82.0      | 82.0    |
| GE 3000               | 62.3                        | 69.2    | 75.9    | 79.9    | 82.7    | 83.5        | 83.9    | 84.2        | 84.3        | 84.4    | 84.5      | 84.5      | 84.6      | 84.7      | 84.7      | 84.8    |
| GE 2500               | 62.8                        | 69.8    | 76.7    | 80.8    | 83.7    | 84.5        | 84.9    | 85.2        | 85.3        | 85.4    | 85.5      | 85.5      | 85.6      | 85.7      | 85.7      | 85.8    |
| GE 2000               | 63.3                        | 70.5    | 77.8    | 82.2    | 85.2    | 86.1        | 86.6    | 86.9        | 86.9        | 87.0    | 87.1      | 87.1      | 87.3      | 87.3      | 87.3      | 87.4    |
| GE 1800               | 63.4                        | 70.6    | 77.9    | 82.4    | 85.4    | 86.3        | 86.7    | 87.0        | 87.1        | 87.2    | 87.3      | 87.3      | 87.4      | 87.5      | 87.5      | 87.6    |
| GE 1500               | 63.9                        | 71.2    | 78.6    | 83.2    | 86.3    | 87.2        | 87.7    | 88.0        | 88.0        | 88.2    | 88.3      | 88.3      | 88.4      | 88.4      | 88.5      | 88.5    |
| GE 1200               | 64.4                        | 71.9    | 79.6    | 84.4    | 87.8    | 88.8        | 89.4    | 89.7        | 89.8        | 89.9    | 90.0      | 90.0      | 90.2      | 90.2      | 90.2      | 90.3    |
| GE 1000               | 64.8                        | 72.2    | 80.0    | 85.2    | 88.8    | 90.0        | 90.7    | 91.1        | 91.2        | 91.3    | 91.4      | 91.4      | 91.6      | 91.6      | 91.6      | 91.7    |
| GE 900                | 65.2                        | 72.7    | 80.5    | 85.8    | 89.5    | 90.8        | 91.5    | 91.9        | 92.0        | 92.1    | 92.2      | 92.3      | 92.4      | 92.4      | 92.5      | 92.5    |
| GE 800                | 65.5                        | 73.0    | 80.9    | 86.4    | 90.2    | 91.6        | 92.5    | 93.1        | 93.2        | 93.3    | 93.4      | 93.4      | 93.6      | 93.6      | 93.7      | 93.7    |
| GE 700                | 65.7                        | 73.2    | 81.2    | 86.9    | 91.1    | 92.5        | 93.4    | 94.0        | 94.1        | 94.3    | 94.4      | 94.4      | 94.6      | 94.6      | 94.6      | 94.7    |
| GE 600                | 65.8                        | 73.5    | 81.5    | 87.4    | 91.9    | 93.4        | 94.6    | 95.2        | 95.3        | 95.5    | 95.6      | 95.7      | 95.8      | 95.8      | 95.9      | 95.9    |
| GE 500                | 65.8                        | 73.5    | 81.7    | 87.9    | 92.9    | 94.5        | 95.8    | 96.6        | 96.7        | 97.0    | 97.1      | 97.1      | 97.3      | 97.3      | 97.4      | 97.4    |
| GE 400                | 65.8                        | 73.5    | 81.7    | 88.1    | 93.4    | 95.0        | 96.4    | 97.3        | 97.4        | 97.7    | 97.8      | 97.8      | 98.0      | 98.1      | 98.1      | 98.2    |
| GE 300                | 65.8                        | 73.5    | 81.7    | 88.2    | 93.5    | 95.2        | 96.7    | 97.7        | 97.8        | 98.1    | 98.3      | 98.3      | 98.6      | 98.6      | 98.7      | 98.9    |
| GE 200                | 65.8                        | 73.5    | 81.7    | 88.2    | 93.6    | 95.3        | 96.8    | 97.9        | 98.1        | 98.4    | 98.7      | 98.7      | 99.0      | 99.0      | 99.2      | 99.4    |
| GE 100                | 65.8                        | 73.5    | 81.7    | 88.2    | 93.6    | 95.3        | 96.9    | 97.9        | 98.1        | 98.6    | 98.9      | 98.9      | 99.3      | 99.3      | 99.5      | 99.9    |
| GE 000                | 65.8                        | 73.5    | 81.7    | 88.2    | 93.6    | 95.3        | 96.9    | 97.9        | 98.1        | 98.6    | 98.9      | 98.9      | 99.3      | 99.3      | 99.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 62.9                        | 65.2    | 66.1    | 67.0    | 68.5    | 68.5        | 68.8    | 68.8        | 68.8        | 68.8    | 68.9      | 68.9      | 68.9      | 69.0      | 69.0      | 69.0    |
| GE 20000              | 67.1                        | 69.4    | 70.3    | 71.2    | 72.7    | 72.7        | 73.0    | 73.0        | 73.0        | 73.0    | 73.1      | 73.1      | 73.1      | 73.2      | 73.2      | 73.2    |
| GE 18000              | 67.1                        | 69.4    | 70.3    | 71.2    | 72.7    | 72.7        | 73.0    | 73.0        | 73.0        | 73.0    | 73.1      | 73.1      | 73.1      | 73.2      | 73.2      | 73.2    |
| GE 16000              | 67.1                        | 69.4    | 70.3    | 71.2    | 72.7    | 72.7        | 73.0    | 73.0        | 73.0        | 73.0    | 73.1      | 73.1      | 73.1      | 73.2      | 73.2      | 73.2    |
| GE 14000              | 67.1                        | 69.4    | 70.3    | 71.2    | 72.7    | 72.7        | 73.0    | 73.0        | 73.0        | 73.0    | 73.1      | 73.1      | 73.1      | 73.2      | 73.2      | 73.2    |
| GE 12000              | 68.1                        | 70.3    | 71.3    | 72.2    | 73.7    | 73.7        | 74.0    | 74.0        | 74.0        | 74.0    | 74.1      | 74.1      | 74.1      | 74.2      | 74.2      | 74.2    |
| GE 10000              | 70.1                        | 72.6    | 73.7    | 74.7    | 76.3    | 76.3        | 76.7    | 76.7        | 76.7        | 76.7    | 76.8      | 76.8      | 76.8      | 76.9      | 76.9      | 76.9    |
| GE 9000               | 70.2                        | 72.7    | 73.8    | 74.8    | 76.5    | 76.5        | 76.8    | 76.8        | 76.8        | 76.8    | 76.9      | 76.9      | 76.9      | 77.0      | 77.0      | 77.0    |
| GE 8000               | 73.4                        | 76.0    | 77.1    | 78.3    | 79.9    | 79.9        | 80.2    | 80.2        | 80.2        | 80.2    | 80.3      | 80.3      | 80.3      | 80.4      | 80.4      | 80.4    |
| GE 7000               | 73.8                        | 76.3    | 77.4    | 78.6    | 80.2    | 80.2        | 80.5    | 80.5        | 80.5        | 80.5    | 80.6      | 80.6      | 80.6      | 80.8      | 80.8      | 80.8    |
| GE 6000               | 74.3                        | 76.9    | 78.0    | 79.1    | 80.8    | 80.8        | 81.1    | 81.1        | 81.1        | 81.1    | 81.2      | 81.2      | 81.2      | 81.3      | 81.3      | 81.3    |
| GE 5000               | 74.6                        | 77.2    | 78.3    | 79.5    | 81.1    | 81.1        | 81.4    | 81.4        | 81.4        | 81.4    | 81.5      | 81.5      | 81.5      | 81.6      | 81.6      | 81.6    |
| GE 4500               | 75.2                        | 77.7    | 78.8    | 80.0    | 81.6    | 81.6        | 81.9    | 81.9        | 81.9        | 81.9    | 82.0      | 82.0      | 82.0      | 82.2      | 82.2      | 82.2    |
| GE 4000               | 77.0                        | 79.6    | 81.0    | 82.4    | 84.2    | 84.3        | 84.6    | 84.6        | 84.6        | 84.6    | 84.7      | 84.7      | 84.7      | 84.8      | 84.8      | 84.8    |
| GE 3500               | 77.1                        | 79.7    | 81.2    | 82.6    | 84.4    | 84.5        | 84.8    | 84.8        | 84.8        | 84.8    | 84.9      | 84.9      | 84.9      | 85.1      | 85.1      | 85.1    |
| GE 3000               | 78.7                        | 81.5    | 83.1    | 84.9    | 87.0    | 87.1        | 87.4    | 87.4        | 87.4        | 87.4    | 87.5      | 87.5      | 87.5      | 87.6      | 87.6      | 87.6    |
| GE 2500               | 79.2                        | 82.0    | 83.7    | 85.5    | 87.5    | 87.6        | 88.0    | 88.0        | 88.0        | 88.0    | 88.1      | 88.1      | 88.1      | 88.2      | 88.2      | 88.2    |
| GE 2000               | 80.2                        | 83.0    | 84.8    | 86.7    | 89.0    | 89.1        | 89.5    | 89.5        | 89.5        | 89.5    | 89.6      | 89.6      | 89.6      | 89.7      | 89.7      | 89.7    |
| GE 1800               | 80.2                        | 83.1    | 84.9    | 86.8    | 89.1    | 89.2        | 89.6    | 89.6        | 89.6        | 89.6    | 89.7      | 89.7      | 89.7      | 89.8      | 89.8      | 89.8    |
| GE 1500               | 80.3                        | 83.3    | 85.2    | 87.1    | 89.5    | 89.6        | 89.9    | 89.9        | 89.9        | 89.9    | 90.0      | 90.0      | 90.0      | 90.1      | 90.1      | 90.1    |
| GE 1200               | 80.6                        | 83.7    | 85.7    | 87.6    | 90.2    | 90.3        | 90.6    | 90.6        | 90.6        | 90.6    | 90.8      | 90.8      | 90.8      | 90.9      | 90.9      | 90.9    |
| GE 1000               | 81.3                        | 84.6    | 87.1    | 89.0    | 92.0    | 92.2        | 92.5    | 92.5        | 92.5        | 92.5    | 92.6      | 92.6      | 92.6      | 92.7      | 92.7      | 92.7    |
| GE 900                | 81.4                        | 84.7    | 87.5    | 89.5    | 92.6    | 92.7        | 93.0    | 93.2        | 93.2        | 93.2    | 93.3      | 93.3      | 93.3      | 93.4      | 93.4      | 93.4    |
| GE 800                | 81.4                        | 84.7    | 88.0    | 90.0    | 93.2    | 93.3        | 93.7    | 93.9        | 93.9        | 93.9    | 94.0      | 94.0      | 94.0      | 94.1      | 94.1      | 94.1    |
| GE 700                | 81.7                        | 85.1    | 88.3    | 90.3    | 93.5    | 93.7        | 94.0    | 94.2        | 94.2        | 94.2    | 94.3      | 94.3      | 94.3      | 94.4      | 94.4      | 94.4    |
| GE 600                | 81.9                        | 85.3    | 88.7    | 90.8    | 94.0    | 94.1        | 94.4    | 94.7        | 94.7        | 94.7    | 94.8      | 94.8      | 94.8      | 94.9      | 94.9      | 94.9    |
| GE 500                | 82.2                        | 85.5    | 89.4    | 91.5    | 94.9    | 95.1        | 95.6    | 95.9        | 95.9        | 95.9    | 96.0      | 96.0      | 96.0      | 96.1      | 96.2      | 96.2    |
| GE 400                | 82.2                        | 85.5    | 89.4    | 91.7    | 95.6    | 96.1        | 96.9    | 97.5        | 97.5        | 97.5    | 97.6      | 97.6      | 97.6      | 97.7      | 97.8      | 98.0    |
| GE 300                | 82.2                        | 85.5    | 89.4    | 91.8    | 96.2    | 96.8        | 97.5    | 98.2        | 98.2        | 98.3    | 98.5      | 98.5      | 98.5      | 98.6      | 98.7      | 98.8    |
| GE 200                | 82.3                        | 85.6    | 89.5    | 91.9    | 96.5    | 97.0        | 97.8    | 98.5        | 98.5        | 98.7    | 98.9      | 98.9      | 98.9      | 99.0      | 99.2      | 99.6    |
| GE 100                | 82.3                        | 85.6    | 89.5    | 91.9    | 96.5    | 97.0        | 97.8    | 98.5        | 98.5        | 98.7    | 98.9      | 98.9      | 98.9      | 99.0      | 99.4      | 99.8    |
| GE 000                | 82.3                        | 85.6    | 89.5    | 91.9    | 96.5    | 97.0        | 97.8    | 98.5        | 98.5        | 98.7    | 98.9      | 98.9      | 98.9      | 99.0      | 99.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT OURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 54.8                        | 56.9    | 59.9    | 62.0    | 63.4    | 63.7        | 64.1    | 64.4        | 64.5        | 64.8    | 64.8      | 64.8      | 64.9      | 64.9      | 65.3      | 65.3    |
| GE 20000              | 58.0                        | 60.0    | 63.2    | 65.4    | 66.8    | 67.0        | 67.4    | 67.7        | 67.8        | 68.2    | 68.2      | 68.2      | 68.3      | 68.3      | 68.6      | 68.6    |
| GE 18000              | 58.0                        | 60.0    | 63.2    | 65.4    | 66.8    | 67.0        | 67.4    | 67.7        | 67.8        | 68.2    | 68.2      | 68.2      | 68.3      | 68.3      | 68.6      | 68.6    |
| GE 16000              | 58.0                        | 60.0    | 63.2    | 65.4    | 66.8    | 67.0        | 67.4    | 67.7        | 67.8        | 68.2    | 68.2      | 68.2      | 68.3      | 68.3      | 68.6      | 68.6    |
| GE 14000              | 58.2                        | 60.2    | 63.4    | 65.6    | 67.0    | 67.2        | 67.6    | 68.0        | 68.1        | 68.4    | 68.4      | 68.4      | 68.5      | 68.5      | 68.8      | 68.8    |
| GE 12000              | 58.9                        | 61.0    | 64.2    | 66.3    | 67.7    | 68.0        | 68.6    | 68.9        | 69.0        | 69.4    | 69.4      | 69.4      | 69.5      | 69.5      | 69.8      | 69.8    |
| GE 10000              | 60.9                        | 62.9    | 66.1    | 68.3    | 69.8    | 70.0        | 70.9    | 71.2        | 71.3        | 71.6    | 71.6      | 71.6      | 71.7      | 71.7      | 72.0      | 72.0    |
| GE 9000               | 61.0                        | 63.0    | 66.2    | 68.4    | 69.9    | 70.1        | 71.0    | 71.3        | 71.4        | 71.7    | 71.7      | 71.7      | 71.8      | 71.8      | 72.2      | 72.2    |
| GE 8000               | 63.8                        | 65.8    | 69.1    | 71.5    | 73.0    | 73.2        | 74.1    | 74.4        | 74.5        | 74.8    | 74.8      | 74.8      | 74.9      | 74.9      | 75.3      | 75.3    |
| GE 7000               | 64.0                        | 66.0    | 69.4    | 71.7    | 73.3    | 73.5        | 74.4    | 74.7        | 74.8        | 75.2    | 75.2      | 75.2      | 75.3      | 75.3      | 75.6      | 75.6    |
| GE 6000               | 64.3                        | 66.3    | 69.7    | 72.0    | 73.7    | 73.9        | 74.7    | 75.1        | 75.2        | 75.5    | 75.5      | 75.5      | 75.6      | 75.6      | 75.9      | 75.9    |
| GE 5000               | 64.9                        | 67.0    | 70.3    | 72.7    | 74.3    | 74.5        | 75.4    | 75.7        | 75.8        | 76.1    | 76.1      | 76.1      | 76.2      | 76.2      | 76.6      | 76.6    |
| GE 4500               | 65.4                        | 67.4    | 70.8    | 73.1    | 74.7    | 74.9        | 75.8    | 76.1        | 76.2        | 76.6    | 76.6      | 76.6      | 76.7      | 76.7      | 77.0      | 77.0    |
| GE 4000               | 67.7                        | 69.8    | 73.7    | 76.3    | 78.1    | 78.3        | 79.2    | 79.6        | 79.7        | 80.0    | 80.0      | 80.0      | 80.1      | 80.1      | 80.4      | 80.4    |
| GE 3500               | 68.5                        | 70.5    | 74.5    | 77.2    | 78.9    | 79.1        | 80.1    | 80.4        | 80.5        | 80.9    | 80.9      | 80.9      | 81.0      | 81.0      | 81.3      | 81.3    |
| GE 3000               | 69.0                        | 71.2    | 75.2    | 77.8    | 79.6    | 79.8        | 80.8    | 81.1        | 81.2        | 81.5    | 81.5      | 81.5      | 81.6      | 81.6      | 81.9      | 81.9    |
| GE 2500               | 69.4                        | 71.6    | 75.6    | 78.3    | 80.0    | 80.2        | 81.2    | 81.5        | 81.6        | 81.9    | 81.9      | 81.9      | 82.0      | 82.0      | 82.4      | 82.4    |
| GE 2000               | 70.5                        | 72.8    | 76.8    | 79.7    | 81.5    | 81.7        | 82.7    | 83.0        | 83.1        | 83.4    | 83.4      | 83.4      | 83.5      | 83.5      | 83.9      | 83.9    |
| GE 1800               | 70.6                        | 72.9    | 77.2    | 80.1    | 81.9    | 82.2        | 83.1    | 83.4        | 83.5        | 83.9    | 83.9      | 83.9      | 84.0      | 84.0      | 84.3      | 84.3    |
| GE 1500               | 71.4                        | 73.7    | 78.2    | 81.2    | 83.0    | 83.2        | 84.3    | 84.6        | 84.7        | 85.1    | 85.1      | 85.1      | 85.2      | 85.2      | 85.5      | 85.5    |
| GE 1200               | 71.9                        | 74.2    | 78.8    | 81.9    | 83.9    | 84.1        | 85.3    | 85.6        | 85.7        | 86.0    | 86.0      | 86.0      | 86.1      | 86.1      | 86.5      | 86.5    |
| GE 1000               | 72.4                        | 74.6    | 79.8    | 83.0    | 85.7    | 85.9        | 87.1    | 87.4        | 87.5        | 87.8    | 87.8      | 87.8      | 88.0      | 88.0      | 88.3      | 88.3    |
| GE 900                | 72.4                        | 74.9    | 80.4    | 83.8    | 86.5    | 86.7        | 87.8    | 88.2        | 88.3        | 88.6    | 88.6      | 88.6      | 88.7      | 88.7      | 89.0      | 89.0    |
| GE 800                | 72.4                        | 74.9    | 80.8    | 84.2    | 86.9    | 87.1        | 88.3    | 88.6        | 88.7        | 89.0    | 89.0      | 89.0      | 89.1      | 89.1      | 89.5      | 89.5    |
| GE 700                | 72.5                        | 75.1    | 81.0    | 84.4    | 87.3    | 87.5        | 88.7    | 89.0        | 89.1        | 89.5    | 89.5      | 89.5      | 89.6      | 89.6      | 89.9      | 89.9    |
| GE 600                | 72.6                        | 75.2    | 81.2    | 84.7    | 87.8    | 88.2        | 89.4    | 90.0        | 90.1        | 90.4    | 90.4      | 90.4      | 90.5      | 90.5      | 90.9      | 90.9    |
| GE 500                | 72.7                        | 75.3    | 81.4    | 85.4    | 89.7    | 90.2        | 91.4    | 92.0        | 92.2        | 92.6    | 92.6      | 92.6      | 92.7      | 92.7      | 93.0      | 93.0    |
| GE 400                | 72.7                        | 75.3    | 81.4    | 85.8    | 90.5    | 91.7        | 93.2    | 94.0        | 94.1        | 94.6    | 94.6      | 94.6      | 94.7      | 94.7      | 95.2      | 95.2    |
| GE 300                | 72.7                        | 75.3    | 81.4    | 85.8    | 91.3    | 92.7        | 94.2    | 94.9        | 95.3        | 95.8    | 95.8      | 95.8      | 96.1      | 96.2      | 96.9      | 97.0    |
| GE 200                | 72.7                        | 75.3    | 81.4    | 85.8    | 91.4    | 93.0        | 94.6    | 95.4        | 95.7        | 96.2    | 96.3      | 96.3      | 96.9      | 97.0      | 98.0      | 98.5    |
| GE 100                | 72.7                        | 75.3    | 81.4    | 85.8    | 91.4    | 93.0        | 94.6    | 95.5        | 95.9        | 96.6    | 96.7      | 96.7      | 97.3      | 97.4      | 98.4      | 99.4    |
| GE 000                | 72.7                        | 75.3    | 81.4    | 85.8    | 91.4    | 93.0        | 94.6    | 95.5        | 95.9        | 96.6    | 96.7      | 96.7      | 97.3      | 97.4      | 98.4      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 36.2                        | 39.4    | 45.3    | 48.0    | 49.7    | 50.3        | 51.4    | 52.4        | 52.6        | 52.8    | 53.0      | 53.0      | 53.9      | 54.1      | 54.3      | 54.6    |
| GE 20000              | 39.7                        | 43.1    | 49.6    | 52.7    | 54.6    | 55.3        | 56.5    | 57.4        | 57.7        | 58.0    | 58.2      | 58.2      | 59.1      | 59.4      | 59.6      | 60.0    |
| GE 18000              | 39.8                        | 43.2    | 49.7    | 52.8    | 54.7    | 55.4        | 56.6    | 57.5        | 57.8        | 58.1    | 58.3      | 58.3      | 59.2      | 59.5      | 59.7      | 60.1    |
| GE 16000              | 39.8                        | 43.2    | 49.7    | 52.8    | 54.7    | 55.4        | 56.6    | 57.5        | 57.8        | 58.1    | 58.3      | 58.3      | 59.2      | 59.5      | 59.7      | 60.1    |
| GE 14000              | 39.9                        | 43.3    | 49.8    | 52.9    | 54.8    | 55.5        | 56.7    | 57.6        | 58.0        | 58.2    | 58.4      | 58.4      | 59.4      | 59.6      | 59.8      | 60.2    |
| GE 12000              | 41.2                        | 45.1    | 51.5    | 54.6    | 56.6    | 57.2        | 58.4    | 59.4        | 59.7        | 59.9    | 60.1      | 60.1      | 61.1      | 61.3      | 61.5      | 61.9    |
| GE 10000              | 42.5                        | 46.7    | 53.4    | 56.9    | 59.1    | 59.8        | 61.1    | 62.2        | 62.5        | 62.7    | 62.9      | 63.0      | 64.0      | 64.2      | 64.4      | 64.9    |
| GE 9000               | 42.5                        | 46.7    | 53.4    | 56.9    | 59.1    | 59.8        | 61.1    | 62.2        | 62.5        | 62.7    | 62.9      | 63.0      | 64.0      | 64.2      | 64.4      | 64.9    |
| GE 8000               | 45.3                        | 49.9    | 56.9    | 60.6    | 63.1    | 63.8        | 65.2    | 66.2        | 66.6        | 66.8    | 67.2      | 67.3      | 68.4      | 68.6      | 68.8      | 69.4    |
| GE 7000               | 45.9                        | 50.5    | 57.6    | 61.4    | 63.9    | 64.5        | 65.9    | 67.0        | 67.3        | 67.5    | 68.0      | 68.1      | 69.1      | 69.4      | 69.6      | 70.1    |
| GE 6000               | 46.2                        | 50.9    | 58.0    | 61.8    | 64.4    | 65.1        | 66.5    | 67.5        | 67.8        | 68.1    | 68.5      | 68.6      | 69.7      | 69.9      | 70.1      | 70.6    |
| GE 5000               | 47.5                        | 52.3    | 59.4    | 63.2    | 66.1    | 66.8        | 68.2    | 69.2        | 69.6        | 69.8    | 70.2      | 70.3      | 71.4      | 71.6      | 71.8      | 72.4    |
| GE 4500               | 48.3                        | 53.0    | 60.1    | 64.0    | 67.0    | 67.6        | 69.0    | 70.1        | 70.4        | 70.6    | 71.1      | 71.2      | 72.3      | 72.5      | 72.7      | 73.2    |
| GE 4000               | 50.0                        | 54.8    | 62.3    | 66.5    | 69.6    | 70.3        | 71.8    | 73.0        | 73.3        | 73.5    | 74.0      | 74.1      | 75.2      | 75.4      | 75.6      | 76.1    |
| GE 3500               | 50.3                        | 55.3    | 62.8    | 67.0    | 70.1    | 70.9        | 72.4    | 73.7        | 74.0        | 74.2    | 74.6      | 74.7      | 75.8      | 76.0      | 76.2      | 76.8    |
| GE 3000               | 50.6                        | 55.6    | 63.2    | 67.5    | 70.8    | 71.5        | 73.3    | 74.6        | 74.9        | 75.2    | 75.6      | 75.7      | 76.8      | 77.0      | 77.2      | 77.7    |
| GE 2500               | 51.0                        | 55.9    | 63.5    | 67.8    | 71.1    | 71.8        | 73.8    | 75.1        | 75.4        | 75.6    | 76.0      | 76.1      | 77.2      | 77.4      | 77.6      | 78.2    |
| GE 2000               | 52.0                        | 57.3    | 65.1    | 69.5    | 72.7    | 73.5        | 75.5    | 76.8        | 77.1        | 77.3    | 77.7      | 77.8      | 78.9      | 79.1      | 79.4      | 79.9    |
| GE 1800               | 52.0                        | 57.4    | 65.3    | 69.8    | 73.1    | 74.0        | 75.9    | 77.2        | 77.5        | 77.7    | 78.2      | 78.3      | 79.4      | 79.6      | 79.8      | 80.3    |
| GE 1500               | 52.3                        | 57.6    | 65.9    | 70.8    | 74.3    | 75.3        | 77.4    | 78.7        | 79.0        | 79.2    | 79.7      | 79.8      | 80.9      | 81.1      | 81.3      | 81.9    |
| GE 1200               | 52.8                        | 58.3    | 67.1    | 72.0    | 75.7    | 76.7        | 78.8    | 80.1        | 80.4        | 80.6    | 81.1      | 81.2      | 82.3      | 82.5      | 82.7      | 83.2    |
| GE 1000               | 53.1                        | 58.7    | 67.8    | 73.7    | 78.2    | 79.1        | 81.3    | 82.6        | 82.9        | 83.1    | 83.5      | 83.7      | 84.8      | 85.2      | 85.4      | 85.9    |
| GE 900                | 53.1                        | 58.7    | 68.2    | 74.1    | 78.9    | 79.9        | 82.0    | 83.3        | 83.7        | 83.9    | 84.3      | 84.4      | 85.6      | 85.9      | 86.1      | 86.7    |
| GE 800                | 53.2                        | 58.8    | 68.6    | 74.7    | 80.1    | 81.2        | 83.3    | 84.6        | 84.9        | 85.2    | 85.6      | 85.7      | 86.9      | 87.2      | 87.4      | 88.0    |
| GE 700                | 53.2                        | 59.0    | 69.1    | 75.7    | 81.4    | 82.5        | 84.6    | 85.9        | 86.2        | 86.5    | 86.9      | 87.0      | 88.2      | 88.5      | 88.7      | 89.2    |
| GE 600                | 53.2                        | 59.0    | 69.1    | 75.6    | 82.2    | 83.5        | 85.8    | 87.1        | 87.4        | 87.7    | 88.2      | 88.3      | 89.5      | 89.8      | 90.0      | 90.5    |
| GE 500                | 53.2                        | 59.0    | 69.4    | 75.9    | 82.8    | 84.2        | 86.9    | 88.3        | 88.7        | 89.0    | 89.5      | 89.6      | 90.8      | 91.1      | 91.3      | 91.8    |
| GE 400                | 53.3                        | 59.1    | 69.6    | 76.6    | 83.9    | 85.7        | 88.6    | 90.2        | 90.6        | 91.1    | 91.7      | 91.8      | 93.2      | 93.5      | 93.8      | 94.3    |
| GE 300                | 53.3                        | 59.1    | 69.6    | 76.6    | 84.6    | 86.5        | 89.6    | 91.5        | 91.9        | 92.4    | 93.0      | 93.1      | 94.5      | 94.9      | 95.3      | 96.0    |
| GE 200                | 53.3                        | 59.1    | 69.6    | 76.6    | 84.6    | 86.5        | 89.9    | 91.8        | 92.3        | 93.0    | 94.0      | 94.2      | 95.7      | 96.1      | 96.6      | 98.3    |
| GE 100                | 53.3                        | 59.1    | 69.6    | 76.6    | 84.6    | 86.5        | 90.1    | 92.0        | 92.5        | 93.3    | 94.4      | 94.6      | 96.1      | 96.7      | 97.3      | 99.7    |
| GE 000                | 53.3                        | 59.1    | 69.6    | 76.6    | 84.6    | 86.5        | 90.1    | 92.0        | 92.5        | 93.3    | 94.4      | 94.6      | 96.1      | 96.7      | 97.3      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 44.6                        | 49.7    | 54.0    | 54.6    | 55.4    | 55.4        | 55.5    | 55.7        | 55.7        | 55.8    | 55.8      | 55.8      | 55.8      | 55.8      | 55.9      | 55.9    |
| GE 20000              | 50.4                        | 56.7    | 61.1    | 62.0    | 62.8    | 62.8        | 62.9    | 63.1        | 63.1        | 63.2    | 63.2      | 63.2      | 63.2      | 63.2      | 63.3      | 63.3    |
| GE 18000              | 50.4                        | 56.7    | 61.2    | 62.2    | 62.9    | 62.9        | 63.0    | 63.2        | 63.2        | 63.3    | 63.3      | 63.3      | 63.3      | 63.3      | 63.4      | 63.4    |
| GE 16000              | 50.6                        | 57.1    | 61.6    | 62.6    | 63.3    | 63.3        | 63.4    | 63.7        | 63.7        | 63.8    | 63.8      | 63.8      | 63.8      | 63.8      | 63.9      | 63.9    |
| GE 14000              | 50.8                        | 57.2    | 61.7    | 62.7    | 63.4    | 63.4        | 63.5    | 63.8        | 63.8        | 63.9    | 63.9      | 63.9      | 63.9      | 63.9      | 64.0      | 64.0    |
| GE 12000              | 52.5                        | 58.9    | 63.4    | 64.4    | 65.2    | 65.2        | 65.4    | 65.6        | 65.6        | 65.7    | 65.7      | 65.7      | 65.7      | 65.7      | 65.8      | 65.8    |
| GE 10000              | 54.8                        | 61.6    | 66.3    | 67.3    | 68.3    | 68.3        | 68.5    | 68.7        | 68.7        | 68.8    | 68.8      | 68.8      | 68.8      | 68.8      | 68.9      | 68.9    |
| GE 9000               | 55.2                        | 61.9    | 66.7    | 67.6    | 68.6    | 68.6        | 68.8    | 69.0        | 69.0        | 69.1    | 69.1      | 69.1      | 69.1      | 69.1      | 69.2      | 69.2    |
| GE 8000               | 57.3                        | 64.3    | 69.5    | 70.6    | 71.7    | 71.7        | 71.9    | 72.2        | 72.2        | 72.3    | 72.3      | 72.3      | 72.3      | 72.3      | 72.4      | 72.4    |
| GE 7000               | 57.8                        | 64.8    | 70.1    | 71.6    | 73.0    | 73.0        | 73.2    | 73.4        | 73.4        | 73.5    | 73.5      | 73.5      | 73.5      | 73.5      | 73.7      | 73.7    |
| GE 6000               | 58.3                        | 65.3    | 70.5    | 72.0    | 73.4    | 73.4        | 73.9    | 74.1        | 74.1        | 74.2    | 74.2      | 74.2      | 74.2      | 74.2      | 74.3      | 74.3    |
| GE 5000               | 59.2                        | 66.7    | 72.0    | 73.5    | 75.1    | 75.1        | 75.5    | 75.7        | 75.7        | 75.8    | 75.8      | 75.8      | 75.8      | 75.8      | 75.9      | 75.9    |
| GE 4500               | 59.5                        | 66.9    | 72.3    | 73.8    | 75.3    | 75.3        | 75.7    | 75.9        | 75.9        | 76.0    | 76.0      | 76.0      | 76.0      | 76.0      | 76.1      | 76.1    |
| GE 4000               | 60.5                        | 68.5    | 74.1    | 75.6    | 77.3    | 77.3        | 77.7    | 78.0        | 78.0        | 78.1    | 78.1      | 78.1      | 78.1      | 78.1      | 78.2      | 78.2    |
| GE 3500               | 60.5                        | 68.5    | 74.1    | 75.9    | 77.6    | 77.6        | 78.1    | 78.3        | 78.3        | 78.4    | 78.4      | 78.4      | 78.4      | 78.4      | 78.5      | 78.5    |
| GE 3000               | 61.4                        | 69.5    | 75.3    | 77.6    | 79.5    | 79.5        | 79.9    | 80.1        | 80.1        | 80.2    | 80.2      | 80.2      | 80.2      | 80.2      | 80.3      | 80.3    |
| GE 2500               | 62.3                        | 70.4    | 76.2    | 78.6    | 80.4    | 80.4        | 80.9    | 81.1        | 81.1        | 81.2    | 81.2      | 81.2      | 81.2      | 81.2      | 81.3      | 81.3    |
| GE 2000               | 63.8                        | 72.4    | 78.4    | 80.9    | 82.7    | 82.7        | 83.1    | 83.3        | 83.3        | 83.4    | 83.4      | 83.4      | 83.4      | 83.4      | 83.5      | 83.5    |
| GE 1800               | 64.0                        | 72.6    | 78.6    | 81.1    | 82.9    | 82.9        | 83.3    | 83.5        | 83.5        | 83.7    | 83.7      | 83.7      | 83.7      | 83.7      | 83.8      | 83.8    |
| GE 1500               | 64.8                        | 73.7    | 79.8    | 82.4    | 84.2    | 84.2        | 84.6    | 84.8        | 84.8        | 84.9    | 84.9      | 84.9      | 84.9      | 84.9      | 85.1      | 85.1    |
| GE 1200               | 65.4                        | 74.5    | 81.3    | 84.1    | 86.1    | 86.1        | 86.6    | 86.8        | 86.8        | 86.9    | 86.9      | 86.9      | 86.9      | 86.9      | 87.0      | 87.0    |
| GE 1000               | 65.5                        | 74.9    | 82.3    | 86.1    | 88.3    | 88.3        | 88.9    | 89.1        | 89.1        | 89.2    | 89.2      | 89.2      | 89.2      | 89.2      | 89.4      | 89.4    |
| GE 900                | 65.8                        | 75.3    | 82.7    | 86.7    | 88.8    | 88.8        | 89.5    | 89.7        | 89.7        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.9      | 89.9    |
| GE 800                | 66.0                        | 75.5    | 83.0    | 87.5    | 90.1    | 90.3        | 90.9    | 91.1        | 91.1        | 91.2    | 91.2      | 91.2      | 91.2      | 91.2      | 91.3      | 91.3    |
| GE 700                | 66.0                        | 75.5    | 83.4    | 88.1    | 91.9    | 92.3        | 92.8    | 93.1        | 93.1        | 93.2    | 93.2      | 93.2      | 93.2      | 93.2      | 93.3      | 93.3    |
| GE 600                | 66.0                        | 75.6    | 83.7    | 88.5    | 92.7    | 93.2        | 94.1    | 94.6        | 94.6        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.8      | 94.8    |
| GE 500                | 66.0                        | 75.6    | 83.7    | 88.8    | 93.1    | 93.9        | 95.2    | 95.9        | 96.0        | 96.1    | 96.1      | 96.1      | 96.1      | 96.1      | 96.2      | 96.2    |
| GE 400                | 66.0                        | 75.6    | 83.8    | 89.1    | 94.4    | 95.4        | 97.0    | 97.8        | 98.0        | 98.2    | 98.2      | 98.2      | 98.2      | 98.2      | 98.3      | 98.3    |
| GE 300                | 66.0                        | 75.6    | 83.8    | 89.1    | 94.4    | 95.6        | 97.3    | 98.2        | 98.5        | 98.7    | 98.8      | 98.8      | 98.8      | 98.8      | 99.0      | 99.0    |
| GE 200                | 66.0                        | 75.6    | 83.8    | 89.1    | 94.4    | 95.6        | 97.3    | 98.3        | 98.6        | 98.8    | 98.8      | 99.0      | 99.0      | 99.2      | 99.2      | 99.8    |
| GE 100                | 66.0                        | 75.6    | 83.8    | 89.1    | 94.4    | 95.6        | 97.3    | 98.3        | 98.6        | 98.8    | 99.1      | 99.1      | 99.4      | 99.4      | 99.7      | 100.0   |
| GE 000                | 66.0                        | 75.6    | 83.8    | 89.1    | 94.4    | 95.6        | 97.3    | 98.3        | 98.6        | 98.8    | 99.1      | 99.1      | 99.4      | 99.4      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 55.4                        | 57.1    | 58.1    | 58.3    | 58.4    | 58.4        | 58.4    | 58.4        | 58.4        | 58.4    | 58.4      | 58.4      | 58.4      | 58.4      | 58.4      | 58.4    |
| GE 20000              | 63.0                        | 65.2    | 66.1    | 66.3    | 66.5    | 66.5        | 66.5    | 66.5        | 66.5        | 66.5    | 66.5      | 66.5      | 66.5      | 66.5      | 66.5      | 66.5    |
| GE 18000              | 63.1                        | 65.3    | 66.2    | 66.5    | 66.6    | 66.6        | 66.6    | 66.6        | 66.6        | 66.6    | 66.6      | 66.6      | 66.6      | 66.6      | 66.6      | 66.6    |
| GE 16000              | 63.4                        | 65.6    | 66.6    | 66.8    | 66.9    | 66.9        | 66.9    | 66.9        | 66.9        | 66.9    | 66.9      | 66.9      | 66.9      | 66.9      | 66.9      | 66.9    |
| GE 14000              | 64.1                        | 66.2    | 67.2    | 67.4    | 67.5    | 67.5        | 67.5    | 67.5        | 67.5        | 67.5    | 67.5      | 67.5      | 67.5      | 67.5      | 67.5      | 67.5    |
| GE 12000              | 66.3                        | 68.5    | 69.5    | 69.7    | 69.8    | 69.8        | 69.8    | 69.8        | 69.8        | 69.8    | 69.8      | 69.8      | 69.8      | 69.8      | 69.8      | 69.8    |
| GE 10000              | 68.8                        | 71.2    | 72.2    | 72.6    | 72.7    | 72.7        | 72.7    | 72.7        | 72.7        | 72.7    | 72.7      | 72.7      | 72.7      | 72.7      | 72.7      | 72.7    |
| GE 9000               | 69.5                        | 71.8    | 72.8    | 73.4    | 73.5    | 73.5        | 73.5    | 73.5        | 73.5        | 73.5    | 73.5      | 73.5      | 73.5      | 73.5      | 73.5      | 73.5    |
| GE 8000               | 73.1                        | 75.8    | 77.2    | 77.8    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 7000               | 73.1                        | 75.8    | 77.2    | 77.8    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 6000               | 73.3                        | 76.0    | 77.4    | 78.2    | 78.3    | 78.3        | 78.3    | 78.3        | 78.3        | 78.3    | 78.3      | 78.3      | 78.3      | 78.3      | 78.3      | 78.3    |
| GE 5000               | 74.5                        | 77.2    | 78.6    | 79.4    | 79.5    | 79.5        | 79.5    | 79.5        | 79.5        | 79.5    | 79.5      | 79.5      | 79.5      | 79.5      | 79.5      | 79.5    |
| GE 4500               | 74.9                        | 77.6    | 79.0    | 79.8    | 79.9    | 79.9        | 79.9    | 79.9        | 79.9        | 79.9    | 79.9      | 79.9      | 79.9      | 79.9      | 79.9      | 79.9    |
| GE 4000               | 77.2                        | 80.2    | 81.7    | 82.5    | 82.6    | 82.6        | 82.6    | 82.6        | 82.6        | 82.6    | 82.6      | 82.6      | 82.6      | 82.6      | 82.6      | 82.6    |
| GE 3500               | 78.9                        | 81.9    | 83.5    | 84.3    | 84.4    | 84.4        | 84.4    | 84.4        | 84.4        | 84.4    | 84.4      | 84.4      | 84.4      | 84.4      | 84.4      | 84.4    |
| GE 3000               | 81.4                        | 84.5    | 86.5    | 87.2    | 87.3    | 87.3        | 87.3    | 87.3        | 87.3        | 87.3    | 87.3      | 87.3      | 87.3      | 87.3      | 87.3      | 87.3    |
| GE 2500               | 82.8                        | 85.9    | 87.8    | 88.9    | 89.1    | 89.1        | 89.2    | 89.2        | 89.2        | 89.2    | 89.2      | 89.2      | 89.2      | 89.2      | 89.2      | 89.2    |
| GE 2000               | 84.2                        | 87.5    | 89.8    | 91.1    | 91.3    | 91.3        | 91.5    | 91.5        | 91.5        | 91.5    | 91.5      | 91.5      | 91.5      | 91.5      | 91.5      | 91.5    |
| GE 1800               | 84.4                        | 88.0    | 90.2    | 91.5    | 91.7    | 91.7        | 91.9    | 91.9        | 91.9        | 91.9    | 91.9      | 91.9      | 91.9      | 91.9      | 91.9      | 91.9    |
| GE 1500               | 84.7                        | 88.5    | 90.8    | 92.0    | 92.3    | 92.3        | 92.5    | 92.5        | 92.5        | 92.5    | 92.5      | 92.5      | 92.5      | 92.5      | 92.5      | 92.5    |
| GE 1200               | 85.4                        | 89.2    | 91.9    | 93.4    | 93.9    | 93.9        | 94.1    | 94.1        | 94.1        | 94.1    | 94.1      | 94.1      | 94.1      | 94.1      | 94.1      | 94.1    |
| GE 1000               | 85.7                        | 89.7    | 92.7    | 94.4    | 95.1    | 95.1        | 95.3    | 95.3        | 95.3        | 95.3    | 95.3      | 95.3      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 900                | 85.9                        | 89.9    | 92.9    | 94.6    | 95.7    | 95.8        | 96.0    | 96.0        | 96.0        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 800                | 85.9                        | 89.9    | 92.9    | 94.6    | 96.0    | 96.2        | 96.6    | 96.6        | 96.6        | 96.6    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 700                | 85.9                        | 89.9    | 93.0    | 94.8    | 96.5    | 96.7        | 97.2    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 600                | 85.9                        | 89.9    | 93.1    | 95.2    | 97.3    | 97.7        | 98.3    | 98.3        | 98.4        | 98.4    | 98.4      | 98.4      | 98.4      | 98.4      | 98.4      | 98.4    |
| GE 500                | 85.9                        | 89.9    | 93.1    | 95.2    | 97.8    | 98.4        | 99.0    | 99.5        | 99.6        | 99.6    | 99.6      | 99.6      | 99.6      | 99.6      | 99.6      | 99.6    |
| GE 400                | 85.9                        | 89.9    | 93.1    | 95.2    | 98.1    | 98.6        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 300                | 85.9                        | 89.9    | 93.1    | 95.2    | 98.1    | 98.6        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 85.9                        | 89.9    | 93.1    | 95.2    | 98.1    | 98.6        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 85.9                        | 89.9    | 93.1    | 95.2    | 98.1    | 98.6        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 85.9                        | 89.9    | 93.1    | 95.2    | 98.1    | 98.6        | 99.4    | 99.9        | 100.0       | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 57.3                        | 58.9    | 59.2    | 59.2    | 59.2    | 59.2        | 59.2    | 59.2        | 59.2        | 59.2    | 59.2      | 59.2      | 59.2      | 59.2      | 59.2      | 59.2    |
| GE 20000              | 67.2                        | 69.0    | 69.4    | 69.4    | 69.4    | 69.4        | 69.4    | 69.4        | 69.4        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.4      | 69.4    |
| GE 18000              | 67.2                        | 69.0    | 69.4    | 69.4    | 69.4    | 69.4        | 69.4    | 69.4        | 69.4        | 69.4    | 69.4      | 69.4      | 69.4      | 69.4      | 69.4      | 69.4    |
| GE 16000              | 67.3                        | 69.1    | 69.5    | 69.5    | 69.5    | 69.5        | 69.5    | 69.5        | 69.5        | 69.5    | 69.5      | 69.5      | 69.5      | 69.5      | 69.5      | 69.5    |
| GE 14000              | 68.4                        | 70.3    | 70.6    | 70.6    | 70.6    | 70.6        | 70.6    | 70.6        | 70.6        | 70.6    | 70.6      | 70.6      | 70.6      | 70.6      | 70.6      | 70.6    |
| GE 12000              | 70.0                        | 71.9    | 72.3    | 72.4    | 72.4    | 72.4        | 72.4    | 72.4        | 72.4        | 72.4    | 72.4      | 72.4      | 72.4      | 72.4      | 72.4      | 72.4    |
| GE 10000              | 73.3                        | 75.3    | 75.7    | 75.9    | 75.9    | 75.9        | 76.0    | 76.0        | 76.0        | 76.0    | 76.0      | 76.0      | 76.0      | 76.0      | 76.0      | 76.0    |
| GE 9000               | 73.7                        | 75.6    | 76.0    | 76.2    | 76.2    | 76.2        | 76.3    | 76.3        | 76.3        | 76.3    | 76.3      | 76.3      | 76.3      | 76.3      | 76.3      | 76.3    |
| GE 8000               | 77.2                        | 79.6    | 80.1    | 80.4    | 80.4    | 80.4        | 80.5    | 80.5        | 80.5        | 80.5    | 80.5      | 80.5      | 80.5      | 80.5      | 80.5      | 80.5    |
| GE 7000               | 77.4                        | 79.8    | 80.3    | 80.6    | 80.6    | 80.6        | 80.8    | 80.8        | 80.8        | 80.8    | 80.8      | 80.8      | 80.8      | 80.8      | 80.8      | 80.8    |
| GE 6000               | 77.5                        | 79.9    | 80.4    | 80.8    | 80.8    | 80.8        | 80.9    | 80.9        | 80.9        | 80.9    | 80.9      | 80.9      | 80.9      | 80.9      | 80.9      | 80.9    |
| GE 5000               | 78.4                        | 80.8    | 81.3    | 81.6    | 81.6    | 81.6        | 81.7    | 81.7        | 81.7        | 81.7    | 81.7      | 81.7      | 81.7      | 81.7      | 81.7      | 81.7    |
| GE 4500               | 79.0                        | 81.7    | 82.3    | 82.6    | 82.6    | 82.6        | 82.7    | 82.7        | 82.7        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 4000               | 80.9                        | 83.8    | 84.3    | 84.7    | 84.8    | 84.8        | 84.9    | 84.9        | 84.9        | 84.9    | 84.9      | 84.9      | 84.9      | 84.9      | 84.9      | 84.9    |
| GE 3500               | 82.4                        | 85.3    | 86.6    | 87.0    | 87.2    | 87.2        | 87.3    | 87.3        | 87.3        | 87.3    | 87.3      | 87.3      | 87.3      | 87.3      | 87.3      | 87.3    |
| GE 3000               | 84.3                        | 87.3    | 88.6    | 89.0    | 89.2    | 89.2        | 89.4    | 89.4        | 89.4        | 89.4    | 89.4      | 89.4      | 89.4      | 89.4      | 89.4      | 89.4    |
| GE 2500               | 84.6                        | 87.6    | 89.2    | 89.8    | 90.0    | 90.0        | 90.2    | 90.2        | 90.2        | 90.2    | 90.2      | 90.2      | 90.2      | 90.2      | 90.2      | 90.2    |
| GE 2000               | 86.0                        | 89.2    | 91.1    | 91.8    | 92.3    | 92.3        | 92.5    | 92.5        | 92.5        | 92.5    | 92.5      | 92.5      | 92.5      | 92.5      | 92.5      | 92.5    |
| GE 1800               | 86.0                        | 89.2    | 91.2    | 91.9    | 92.4    | 92.4        | 92.6    | 92.6        | 92.6        | 92.6    | 92.6      | 92.6      | 92.6      | 92.6      | 92.6      | 92.6    |
| GE 1500               | 86.5                        | 90.2    | 92.3    | 93.0    | 93.4    | 93.4        | 93.7    | 93.7        | 93.7        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 1200               | 86.6                        | 90.3    | 92.7    | 93.7    | 94.4    | 94.6        | 94.9    | 95.2        | 95.2        | 95.2    | 95.2      | 95.2      | 95.2      | 95.2      | 95.2      | 95.2    |
| GE 1000               | 86.8                        | 90.8    | 93.1    | 94.2    | 95.2    | 95.5        | 95.8    | 96.0        | 96.0        | 96.0    | 96.0      | 96.0      | 96.0      | 96.0      | 96.0      | 96.0    |
| GE 900                | 87.0                        | 91.0    | 93.3    | 94.7    | 95.7    | 96.0        | 96.3    | 96.6        | 96.6        | 96.6    | 96.6      | 96.6      | 96.6      | 96.6      | 96.6      | 96.6    |
| GE 800                | 87.0                        | 91.0    | 93.3    | 94.9    | 96.2    | 96.6        | 97.0    | 97.3        | 97.3        | 97.3    | 97.3      | 97.3      | 97.3      | 97.3      | 97.3      | 97.3    |
| GE 700                | 87.1                        | 91.1    | 93.5    | 95.3    | 96.6    | 96.9        | 97.4    | 97.8        | 97.8        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 600                | 87.2                        | 91.2    | 93.7    | 95.5    | 97.0    | 97.3        | 98.1    | 98.5        | 98.6        | 98.6    | 98.6      | 98.6      | 98.6      | 98.6      | 98.6      | 98.6    |
| GE 500                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.1    | 98.4        | 99.1    | 99.6        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 400                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.2    | 98.5        | 99.2    | 99.7        | 99.8        | 99.8    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 300                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.2    | 98.5        | 99.2    | 99.8        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 200                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.2    | 98.5        | 99.2    | 99.8        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.2    | 98.5        | 99.2    | 99.8        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 87.2                        | 91.2    | 93.7    | 96.0    | 98.2    | 98.5        | 99.2    | 99.8        | 99.9        | 100.0   | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 60.4    | 61.4    | 61.7    | 61.7    | 61.7        | 61.7    | 61.7        | 61.7        | 61.7    | 61.7      | 61.7      | 61.7      | 61.7      | 61.7      | 61.7    |
| GE 20000              | 65.6                        | 67.3    | 68.4    | 68.7    | 68.7    | 68.7        | 68.7    | 68.7        | 68.7        | 68.7    | 68.7      | 68.7      | 68.7      | 68.7      | 68.7      | 68.7    |
| GE 18000              | 65.6                        | 67.3    | 68.4    | 68.7    | 68.7    | 68.7        | 68.7    | 68.7        | 68.7        | 68.7    | 68.7      | 68.7      | 68.7      | 68.7      | 68.7      | 68.7    |
| GE 16000              | 65.6                        | 67.3    | 68.4    | 68.7    | 68.7    | 68.7        | 68.7    | 68.7        | 68.7        | 68.7    | 68.7      | 68.7      | 68.7      | 68.7      | 68.7      | 68.7    |
| GE 14000              | 66.5                        | 68.4    | 69.5    | 69.8    | 69.8    | 69.8        | 69.8    | 69.8        | 69.8        | 69.8    | 69.8      | 69.8      | 69.8      | 69.8      | 69.8      | 69.8    |
| GE 12000              | 68.2                        | 70.1    | 71.2    | 71.6    | 71.6    | 71.6        | 71.6    | 71.6        | 71.6        | 71.6    | 71.6      | 71.6      | 71.6      | 71.6      | 71.6      | 71.6    |
| GE 10000              | 71.8                        | 74.0    | 75.2    | 75.6    | 75.6    | 75.6        | 75.6    | 75.6        | 75.6        | 75.6    | 75.6      | 75.6      | 75.6      | 75.6      | 75.6      | 75.6    |
| GE 9000               | 72.0                        | 74.2    | 75.4    | 75.8    | 75.8    | 75.8        | 75.8    | 75.8        | 75.8        | 75.8    | 75.8      | 75.8      | 75.8      | 75.8      | 75.8      | 75.8    |
| GE 8000               | 76.0                        | 78.4    | 79.6    | 80.0    | 80.0    | 80.0        | 80.0    | 80.1        | 80.1        | 80.1    | 80.1      | 80.1      | 80.1      | 80.1      | 80.1      | 80.1    |
| GE 7000               | 76.9                        | 79.2    | 80.4    | 80.9    | 80.9    | 80.9        | 80.9    | 81.0        | 81.0        | 81.0    | 81.0      | 81.0      | 81.0      | 81.0      | 81.0      | 81.0    |
| GE 6000               | 77.1                        | 79.5    | 80.6    | 81.1    | 81.1    | 81.1        | 81.1    | 81.2        | 81.2        | 81.2    | 81.2      | 81.2      | 81.2      | 81.2      | 81.2      | 81.2    |
| GE 5000               | 78.7                        | 81.1    | 82.3    | 82.7    | 82.7    | 82.7        | 82.7    | 82.8        | 82.8        | 82.8    | 82.8      | 82.8      | 82.8      | 82.8      | 82.8      | 82.8    |
| GE 4500               | 79.6                        | 82.0    | 83.2    | 83.7    | 83.7    | 83.7        | 83.7    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 83.9    |
| GE 4000               | 81.5                        | 84.1    | 85.5    | 86.1    | 86.2    | 86.2        | 86.2    | 86.5        | 86.5        | 86.5    | 86.5      | 86.5      | 86.5      | 86.5      | 86.5      | 86.5    |
| GE 3500               | 83.1                        | 85.7    | 87.3    | 88.1    | 88.3    | 88.3        | 88.3    | 88.5        | 88.5        | 88.5    | 88.5      | 88.5      | 88.5      | 88.5      | 88.5      | 88.5    |
| GE 3000               | 84.8                        | 87.4    | 89.1    | 90.0    | 90.2    | 90.2        | 90.3    | 90.5        | 90.5        | 90.5    | 90.5      | 90.5      | 90.5      | 90.5      | 90.5      | 90.5    |
| GE 2500               | 85.5                        | 88.2    | 90.0    | 90.9    | 91.2    | 91.2        | 91.3    | 91.5        | 91.5        | 91.5    | 91.5      | 91.5      | 91.5      | 91.5      | 91.5      | 91.5    |
| GE 2000               | 86.3                        | 89.0    | 91.2    | 92.2    | 92.5    | 92.5        | 92.7    | 92.9        | 92.9        | 92.9    | 92.9      | 92.9      | 92.9      | 92.9      | 92.9      | 92.9    |
| GE 1800               | 86.3                        | 89.0    | 91.5    | 92.5    | 92.8    | 92.8        | 93.0    | 93.2        | 93.2        | 93.2    | 93.2      | 93.2      | 93.2      | 93.2      | 93.2      | 93.2    |
| GE 1500               | 86.8                        | 89.5    | 91.9    | 92.9    | 93.2    | 93.2        | 93.4    | 93.7        | 93.7        | 93.7    | 93.7      | 93.7      | 93.7      | 93.7      | 93.7      | 93.7    |
| GE 1200               | 87.5                        | 90.2    | 92.8    | 93.8    | 94.3    | 94.3        | 94.6    | 94.8        | 94.8        | 94.8    | 94.8      | 94.8      | 94.8      | 94.8      | 94.8      | 94.8    |
| GE 1000               | 87.6                        | 90.3    | 92.9    | 94.2    | 94.9    | 95.2        | 95.5    | 95.7        | 95.7        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 900                | 87.7                        | 90.4    | 93.1    | 94.4    | 95.2    | 95.4        | 95.7    | 95.9        | 95.9        | 95.9    | 95.9      | 95.9      | 95.9      | 95.9      | 95.9      | 95.9    |
| GE 800                | 87.8                        | 90.5    | 93.4    | 94.9    | 95.8    | 96.0        | 96.3    | 96.9        | 96.9        | 96.9    | 96.9      | 96.9      | 96.9      | 96.9      | 96.9      | 96.9    |
| GE 700                | 88.1                        | 90.8    | 93.7    | 95.2    | 96.0    | 96.2        | 96.6    | 97.2        | 97.2        | 97.2    | 97.2      | 97.2      | 97.2      | 97.2      | 97.2      | 97.2    |
| GE 600                | 88.2                        | 90.9    | 93.9    | 95.4    | 96.3    | 96.6        | 96.9    | 97.5        | 97.5        | 97.5    | 97.5      | 97.5      | 97.5      | 97.5      | 97.5      | 97.5    |
| GE 500                | 88.4                        | 91.1    | 94.1    | 96.1    | 97.4    | 98.0        | 98.3    | 98.9        | 98.9        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 400                | 88.4                        | 91.1    | 94.1    | 96.1    | 97.4    | 98.0        | 98.4    | 99.0        | 99.0        | 99.1    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 300                | 88.4                        | 91.1    | 94.1    | 96.2    | 97.5    | 98.1        | 98.5    | 99.6        | 99.6        | 99.7    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 200                | 88.4                        | 91.1    | 94.1    | 96.2    | 97.5    | 98.1        | 98.5    | 99.6        | 99.6        | 99.7    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 88.4                        | 91.1    | 94.1    | 96.2    | 97.5    | 98.1        | 98.5    | 99.6        | 99.6        | 99.7    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 88.4                        | 91.1    | 94.1    | 96.2    | 97.5    | 98.1        | 98.5    | 99.6        | 99.6        | 99.7    | 99.9      | 99.9      | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 66.7                        | 67.8    | 68.2    | 69.0    | 69.1    | 69.1        | 69.1    | 69.1        | 69.2        | 69.2    | 69.2      | 69.2      | 69.2      | 69.2      | 69.2      | 69.2    |
| GE 20000              | 70.2                        | 71.4    | 71.9    | 72.8    | 72.9    | 72.9        | 72.9    | 72.9        | 73.0        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.0      | 73.0    |
| GE 18000              | 70.4                        | 71.6    | 72.2    | 73.0    | 73.1    | 73.1        | 73.1    | 73.1        | 73.2        | 73.2    | 73.2      | 73.2      | 73.2      | 73.2      | 73.2      | 73.2    |
| GE 16000              | 70.4                        | 71.6    | 72.2    | 73.0    | 73.1    | 73.1        | 73.1    | 73.1        | 73.2        | 73.2    | 73.2      | 73.2      | 73.2      | 73.2      | 73.2      | 73.2    |
| GE 14000              | 71.0                        | 72.2    | 72.7    | 73.5    | 73.7    | 73.7        | 73.7    | 73.7        | 73.8        | 73.8    | 73.8      | 73.8      | 73.8      | 73.8      | 73.8      | 73.8    |
| GE 12000              | 72.5                        | 73.7    | 74.2    | 75.1    | 75.2    | 75.2        | 75.2    | 75.2        | 75.3        | 75.3    | 75.3      | 75.3      | 75.3      | 75.3      | 75.3      | 75.3    |
| GE 10000              | 75.5                        | 76.7    | 77.5    | 78.4    | 78.5    | 78.5        | 78.5    | 78.5        | 78.6        | 78.6    | 78.6      | 78.6      | 78.6      | 78.6      | 78.6      | 78.6    |
| GE 9000               | 75.6                        | 76.8    | 77.6    | 78.5    | 78.6    | 78.6        | 78.6    | 78.6        | 78.7        | 78.7    | 78.7      | 78.7      | 78.7      | 78.7      | 78.7      | 78.7    |
| GE 8000               | 78.2                        | 79.5    | 80.4    | 81.3    | 81.5    | 81.5        | 81.5    | 81.5        | 81.6        | 81.6    | 81.6      | 81.6      | 81.6      | 81.6      | 81.6      | 81.6    |
| GE 7000               | 78.4                        | 79.7    | 80.8    | 81.6    | 81.8    | 81.8        | 81.8    | 81.8        | 81.9        | 81.9    | 81.9      | 81.9      | 81.9      | 81.9      | 81.9      | 81.9    |
| GE 6000               | 78.9                        | 80.2    | 81.3    | 82.2    | 82.4    | 82.4        | 82.4    | 82.4        | 82.5        | 82.5    | 82.5      | 82.5      | 82.5      | 82.5      | 82.5      | 82.5    |
| GE 5000               | 79.5                        | 80.8    | 81.9    | 82.8    | 83.0    | 83.0        | 83.0    | 83.0        | 83.1        | 83.1    | 83.1      | 83.1      | 83.1      | 83.1      | 83.1      | 83.1    |
| GE 4500               | 80.0                        | 81.3    | 82.5    | 83.3    | 83.5    | 83.5        | 83.5    | 83.5        | 83.7        | 83.7    | 83.7      | 83.7      | 83.7      | 83.7      | 83.7      | 83.7    |
| GE 4000               | 82.4                        | 83.9    | 85.1    | 86.0    | 86.5    | 86.5        | 86.5    | 86.5        | 86.6        | 86.6    | 86.6      | 86.6      | 86.6      | 86.6      | 86.6      | 86.6    |
| GE 3500               | 83.2                        | 84.7    | 86.0    | 87.1    | 87.5    | 87.5        | 87.5    | 87.5        | 87.6        | 87.6    | 87.6      | 87.6      | 87.6      | 87.6      | 87.6      | 87.6    |
| GE 3000               | 85.1                        | 86.6    | 88.0    | 89.2    | 89.7    | 89.7        | 89.7    | 89.7        | 89.8        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.8      | 89.8    |
| GE 2500               | 85.9                        | 87.5    | 89.2    | 90.8    | 91.2    | 91.2        | 91.2    | 91.2        | 91.3        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 2000               | 86.8                        | 88.4    | 90.6    | 92.2    | 92.7    | 92.7        | 92.7    | 92.7        | 92.8        | 92.8    | 92.8      | 92.8      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 1800               | 86.8                        | 88.5    | 90.6    | 92.3    | 92.9    | 92.9        | 92.9    | 92.9        | 93.0        | 93.0    | 93.0      | 93.0      | 93.0      | 93.0      | 93.0      | 93.0    |
| GE 1500               | 87.2                        | 89.0    | 91.3    | 92.8    | 93.4    | 93.4        | 93.4    | 93.4        | 93.5        | 93.5    | 93.5      | 93.5      | 93.5      | 93.5      | 93.5      | 93.5    |
| GE 1200               | 87.5                        | 89.6    | 91.9    | 93.4    | 94.1    | 94.1        | 94.1    | 94.1        | 94.2        | 94.2    | 94.2      | 94.2      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 1000               | 87.6                        | 89.8    | 92.4    | 93.9    | 94.6    | 94.6        | 94.6    | 94.6        | 94.7        | 94.7    | 94.7      | 94.7      | 94.7      | 94.7      | 94.7      | 94.7    |
| GE 900                | 87.7                        | 89.9    | 92.5    | 94.0    | 94.8    | 94.8        | 94.8    | 94.8        | 94.9        | 94.9    | 94.9      | 94.9      | 94.9      | 94.9      | 94.9      | 94.9    |
| GE 800                | 88.0                        | 90.1    | 93.0    | 94.5    | 95.6    | 95.6        | 95.6    | 95.6        | 95.7        | 95.7    | 95.7      | 95.7      | 95.7      | 95.7      | 95.7      | 95.7    |
| GE 700                | 88.1                        | 90.2    | 93.1    | 94.9    | 96.3    | 96.3        | 96.3    | 96.3        | 96.5        | 96.5    | 96.5      | 96.5      | 96.5      | 96.5      | 96.5      | 96.5    |
| GE 600                | 88.2                        | 90.3    | 93.3    | 95.5    | 96.9    | 96.9        | 96.9    | 96.9        | 97.0        | 97.0    | 97.0      | 97.0      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 500                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.3    | 98.3        | 98.3    | 98.4        | 98.5        | 98.5    | 98.5      | 98.5      | 98.5      | 98.5      | 98.5      | 98.5    |
| GE 400                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.5    | 98.5        | 98.7    | 98.9        | 99.0        | 99.0    | 99.0      | 99.0      | 99.0      | 99.0      | 99.0      | 99.0    |
| GE 300                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.6    | 98.6        | 98.9    | 99.1        | 99.2        | 99.2    | 99.2      | 99.2      | 99.2      | 99.2      | 99.2      | 99.2    |
| GE 200                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.7    | 98.7        | 99.2    | 99.6        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 100                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.7    | 98.7        | 99.2    | 99.6        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.8      | 99.8      | 99.8    |
| GE 000                | 88.9                        | 91.1    | 94.1    | 96.2    | 98.7    | 98.7        | 99.2    | 99.6        | 99.7        | 99.7    | 99.7      | 99.7      | 99.7      | 99.8      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 54.6                        | 56.9    | 59.0    | 60.0    | 60.7    | 60.8        | 61.0    | 61.2        | 61.3        | 61.4    | 61.4      | 61.4      | 61.5      | 61.6      | 61.6      | 61.7    |
| GE 20000              | 60.1                        | 62.8    | 65.0    | 66.1    | 66.8    | 66.9        | 67.2    | 67.3        | 67.4        | 67.5    | 67.5      | 67.5      | 67.7      | 67.7      | 67.8      | 67.8    |
| GE 18000              | 60.2                        | 62.8    | 65.1    | 66.1    | 66.9    | 67.0        | 67.2    | 67.4        | 67.5        | 67.6    | 67.6      | 67.6      | 67.7      | 67.8      | 67.8      | 67.9    |
| GE 16000              | 60.3                        | 62.9    | 65.2    | 66.2    | 67.0    | 67.1        | 67.3    | 67.5        | 67.6        | 67.7    | 67.7      | 67.7      | 67.8      | 67.9      | 68.0      | 68.0    |
| GE 14000              | 60.7                        | 63.4    | 65.7    | 66.7    | 67.4    | 67.6        | 67.8    | 68.0        | 68.1        | 68.1    | 68.2      | 68.2      | 68.3      | 68.4      | 68.4      | 68.5    |
| GE 12000              | 62.2                        | 64.9    | 67.2    | 68.3    | 69.0    | 69.1        | 69.4    | 69.6        | 69.7        | 69.7    | 69.8      | 69.8      | 69.9      | 70.0      | 70.0      | 70.1    |
| GE 10000              | 64.7                        | 67.6    | 70.0    | 71.2    | 72.0    | 72.1        | 72.5    | 72.7        | 72.8        | 72.8    | 72.9      | 72.9      | 73.0      | 73.1      | 73.1      | 73.2    |
| GE 9000               | 64.9                        | 67.8    | 70.2    | 71.5    | 72.3    | 72.4        | 72.7    | 72.9        | 73.0        | 73.1    | 73.1      | 73.1      | 73.3      | 73.3      | 73.4      | 73.5    |
| GE 8000               | 68.0                        | 71.2    | 73.7    | 75.1    | 76.0    | 76.1        | 76.4    | 76.6        | 76.7        | 76.8    | 76.9      | 77.0      | 77.1      | 77.1      | 77.1      | 77.2    |
| GE 7000               | 68.4                        | 71.5    | 74.2    | 75.5    | 76.5    | 76.6        | 76.9    | 77.2        | 77.2        | 77.3    | 77.4      | 77.4      | 77.5      | 77.6      | 77.6      | 77.7    |
| GE 6000               | 68.8                        | 71.9    | 74.5    | 75.9    | 76.8    | 76.9        | 77.3    | 77.6        | 77.6        | 77.7    | 77.8      | 77.8      | 77.9      | 78.0      | 78.1      | 78.1    |
| GE 5000               | 69.7                        | 72.9    | 75.5    | 76.9    | 77.9    | 78.0        | 78.4    | 78.6        | 78.7        | 78.8    | 78.8      | 78.9      | 79.0      | 79.0      | 79.1      | 79.2    |
| GE 4500               | 70.2                        | 73.5    | 76.1    | 77.5    | 78.5    | 78.6        | 79.0    | 79.3        | 79.3        | 79.4    | 79.5      | 79.5      | 79.6      | 79.7      | 79.8      | 79.8    |
| GE 4000               | 72.2                        | 75.6    | 78.4    | 80.0    | 81.2    | 81.3        | 81.7    | 81.9        | 82.0        | 82.1    | 82.2      | 82.2      | 82.3      | 82.4      | 82.4      | 82.5    |
| GE 3500               | 73.0                        | 76.5    | 79.5    | 81.1    | 82.3    | 82.4        | 82.9    | 83.1        | 83.2        | 83.3    | 83.3      | 83.3      | 83.5      | 83.5      | 83.6      | 83.7    |
| GE 3000               | 74.4                        | 77.9    | 81.1    | 82.9    | 84.2    | 84.3        | 84.8    | 85.0        | 85.1        | 85.2    | 85.2      | 85.2      | 85.4      | 85.4      | 85.5      | 85.6    |
| GE 2500               | 75.1                        | 78.7    | 81.9    | 83.8    | 85.1    | 85.2        | 85.7    | 86.0        | 86.0        | 86.1    | 86.2      | 86.2      | 86.3      | 86.4      | 86.5      | 86.5    |
| GE 2000               | 76.2                        | 80.0    | 83.5    | 85.5    | 86.8    | 87.0        | 87.5    | 87.8        | 87.8        | 87.9    | 88.0      | 88.0      | 88.1      | 88.2      | 88.3      | 88.3    |
| GE 1800               | 76.3                        | 80.1    | 83.7    | 85.7    | 87.1    | 87.3        | 87.8    | 88.1        | 88.1        | 88.2    | 88.3      | 88.3      | 88.4      | 88.5      | 88.5      | 88.6    |
| GE 1500               | 76.7                        | 80.7    | 84.4    | 86.5    | 87.9    | 88.1        | 88.7    | 88.9        | 89.0        | 89.1    | 89.1      | 89.1      | 89.3      | 89.3      | 89.4      | 89.5    |
| GE 1200               | 77.2                        | 81.3    | 85.3    | 87.5    | 89.1    | 89.3        | 89.9    | 90.2        | 90.2        | 90.3    | 90.4      | 90.4      | 90.5      | 90.6      | 90.7      | 90.7    |
| GE 1000               | 77.5                        | 81.7    | 86.0    | 88.6    | 90.5    | 90.8        | 91.4    | 91.7        | 91.7        | 91.8    | 91.9      | 91.9      | 92.0      | 92.1      | 92.2      | 92.2    |
| GE 900                | 77.6                        | 81.9    | 86.3    | 89.0    | 91.0    | 91.3        | 91.9    | 92.2        | 92.3        | 92.4    | 92.4      | 92.4      | 92.6      | 92.7      | 92.7      | 92.8    |
| GE 800                | 77.7                        | 81.9    | 86.6    | 89.4    | 91.7    | 92.0        | 92.7    | 93.1        | 93.1        | 93.2    | 93.3      | 93.3      | 93.5      | 93.5      | 93.6      | 93.7    |
| GE 700                | 77.8                        | 82.1    | 86.9    | 89.8    | 92.4    | 92.8        | 93.5    | 93.9        | 93.9        | 94.0    | 94.1      | 94.1      | 94.2      | 94.3      | 94.4      | 94.4    |
| GE 600                | 77.9                        | 82.2    | 87.1    | 90.1    | 93.0    | 93.4        | 94.2    | 94.7        | 94.8        | 94.9    | 95.0      | 95.0      | 95.1      | 95.2      | 95.3      | 95.3    |
| GE 500                | 78.1                        | 82.3    | 87.3    | 90.6    | 94.0    | 94.5        | 95.5    | 96.1        | 96.2        | 96.3    | 96.4      | 96.4      | 96.5      | 96.6      | 96.7      | 96.8    |
| GE 400                | 78.1                        | 82.3    | 87.4    | 90.8    | 94.6    | 95.3        | 96.4    | 97.1        | 97.3        | 97.4    | 97.5      | 97.5      | 97.7      | 97.8      | 97.9      | 98.0    |
| GE 300                | 78.1                        | 82.3    | 87.4    | 90.9    | 94.9    | 95.7        | 96.8    | 97.6        | 97.8        | 98.0    | 98.1      | 98.2      | 98.4      | 98.5      | 98.6      | 98.7    |
| GE 200                | 78.1                        | 82.4    | 87.4    | 90.9    | 94.9    | 95.7        | 97.0    | 97.8        | 98.0        | 98.3    | 98.5      | 98.5      | 98.8      | 98.8      | 98.9      | 99.1    |
| GE 100                | 78.1                        | 82.4    | 87.4    | 90.9    | 94.9    | 95.7        | 97.0    | 97.9        | 98.1        | 98.3    | 98.6      | 98.6      | 98.9      | 99.0      | 99.3      | 99.8    |
| GE 000                | 78.1                        | 82.4    | 87.4    | 90.9    | 94.9    | 95.7        | 97.0    | 97.9        | 98.1        | 98.3    | 98.6      | 98.6      | 98.9      | 99.0      | 99.3      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 59.0                        | 60.0    | 61.4    | 62.0    | 62.6    | 62.8        | 63.2    | 63.6        | 63.6        | 63.6    | 63.7      | 63.7      | 63.7      | 63.7      | 63.9      | 64.0    |
| GE 20000              | 61.1                        | 62.3    | 63.9    | 64.6    | 65.3    | 65.6        | 66.0    | 66.3        | 66.3        | 66.3    | 66.4      | 66.4      | 66.4      | 66.4      | 66.7      | 66.8    |
| GE 18000              | 61.1                        | 62.3    | 63.9    | 64.6    | 65.3    | 65.6        | 66.0    | 66.3        | 66.3        | 66.3    | 66.4      | 66.4      | 66.4      | 66.4      | 66.7      | 66.8    |
| GE 16000              | 61.2                        | 62.4    | 64.0    | 64.7    | 65.4    | 65.7        | 66.1    | 66.4        | 66.4        | 66.4    | 66.6      | 66.6      | 66.6      | 66.6      | 66.8      | 66.9    |
| GE 14000              | 61.4                        | 62.7    | 64.2    | 64.9    | 65.7    | 65.9        | 66.3    | 66.7        | 66.7        | 66.7    | 66.8      | 66.8      | 66.8      | 66.8      | 67.0      | 67.1    |
| GE 12000              | 62.9                        | 64.1    | 65.7    | 66.3    | 67.1    | 67.3        | 67.8    | 68.1        | 68.1        | 68.1    | 68.2      | 68.2      | 68.2      | 68.2      | 68.4      | 68.6    |
| GE 10000              | 64.8                        | 66.0    | 67.7    | 68.4    | 69.3    | 69.6        | 70.1    | 70.4        | 70.4        | 70.4    | 70.6      | 70.6      | 70.6      | 70.6      | 70.8      | 70.9    |
| GE 9000               | 64.9                        | 66.2    | 67.9    | 68.7    | 69.6    | 69.8        | 70.3    | 70.7        | 70.7        | 70.7    | 70.8      | 70.8      | 70.8      | 70.8      | 71.0      | 71.1    |
| GE 8000               | 66.3                        | 67.7    | 69.4    | 70.2    | 71.4    | 71.7        | 72.2    | 72.6        | 72.6        | 72.6    | 72.7      | 72.7      | 72.7      | 72.7      | 72.9      | 73.0    |
| GE 7000               | 66.8                        | 68.1    | 70.1    | 71.0    | 72.2    | 72.4        | 73.0    | 73.3        | 73.3        | 73.3    | 73.4      | 73.4      | 73.4      | 73.4      | 73.7      | 73.8    |
| GE 6000               | 67.2                        | 68.6    | 70.6    | 71.4    | 72.7    | 72.9        | 73.4    | 73.8        | 73.8        | 73.8    | 73.9      | 73.9      | 73.9      | 73.9      | 74.1      | 74.2    |
| GE 5000               | 68.3                        | 69.9    | 72.0    | 72.9    | 74.1    | 74.3        | 74.9    | 75.2        | 75.2        | 75.2    | 75.3      | 75.3      | 75.3      | 75.3      | 75.6      | 75.7    |
| GE 4500               | 69.1                        | 70.7    | 72.8    | 73.7    | 74.9    | 75.1        | 75.7    | 76.0        | 76.0        | 76.0    | 76.1      | 76.1      | 76.1      | 76.1      | 76.3      | 76.4    |
| GE 4000               | 71.9                        | 73.7    | 76.0    | 77.0    | 78.3    | 78.6        | 79.1    | 79.4        | 79.4        | 79.4    | 79.6      | 79.6      | 79.6      | 79.6      | 79.8      | 79.9    |
| GE 3500               | 73.2                        | 75.0    | 77.3    | 78.6    | 80.0    | 80.2        | 80.8    | 81.1        | 81.1        | 81.1    | 81.2      | 81.2      | 81.2      | 81.2      | 81.4      | 81.6    |
| GE 3000               | 74.8                        | 76.7    | 79.1    | 80.3    | 81.9    | 82.1        | 82.7    | 83.0        | 83.0        | 83.0    | 83.1      | 83.1      | 83.1      | 83.1      | 83.3      | 83.4    |
| GE 2500               | 75.2                        | 77.1    | 79.9    | 81.2    | 82.9    | 83.2        | 83.8    | 84.1        | 84.1        | 84.1    | 84.2      | 84.2      | 84.2      | 84.2      | 84.4      | 84.6    |
| GE 2000               | 75.7                        | 77.8    | 80.7    | 82.2    | 83.9    | 84.2        | 84.8    | 85.1        | 85.1        | 85.1    | 85.2      | 85.2      | 85.2      | 85.2      | 85.4      | 85.6    |
| GE 1800               | 76.2                        | 78.3    | 81.3    | 83.0    | 84.7    | 85.0        | 85.6    | 85.9        | 85.9        | 85.9    | 86.0      | 86.0      | 86.0      | 86.0      | 86.2      | 86.3    |
| GE 1500               | 76.6                        | 78.7    | 82.2    | 83.9    | 85.7    | 86.0        | 86.6    | 86.9        | 86.9        | 86.9    | 87.0      | 87.0      | 87.0      | 87.0      | 87.2      | 87.3    |
| GE 1200               | 77.0                        | 79.1    | 82.7    | 84.3    | 86.1    | 86.4        | 87.0    | 87.3        | 87.3        | 87.3    | 87.4      | 87.4      | 87.4      | 87.4      | 87.7      | 87.8    |
| GE 1000               | 77.4                        | 79.8    | 83.3    | 85.0    | 86.9    | 87.2        | 87.8    | 88.1        | 88.1        | 88.1    | 88.2      | 88.2      | 88.2      | 88.2      | 88.4      | 88.6    |
| GE 900                | 77.4                        | 79.8    | 83.3    | 85.1    | 87.2    | 87.6        | 88.1    | 88.4        | 88.4        | 88.4    | 88.6      | 88.6      | 88.6      | 88.6      | 88.8      | 88.9    |
| GE 800                | 77.8                        | 80.1    | 83.9    | 85.7    | 88.0    | 88.3        | 88.9    | 89.2        | 89.2        | 89.2    | 89.3      | 89.3      | 89.3      | 89.3      | 89.6      | 89.7    |
| GE 700                | 77.9                        | 80.3    | 84.1    | 86.1    | 88.9    | 89.2        | 89.8    | 90.1        | 90.1        | 90.1    | 90.2      | 90.2      | 90.2      | 90.2      | 90.4      | 90.6    |
| GE 600                | 77.9                        | 80.4    | 84.7    | 86.9    | 90.1    | 90.7        | 91.3    | 91.9        | 91.9        | 91.9    | 92.0      | 92.0      | 92.0      | 92.0      | 92.2      | 92.3    |
| GE 500                | 77.9                        | 80.4    | 84.9    | 87.6    | 91.4    | 92.2        | 94.0    | 94.7        | 94.7        | 94.7    | 94.8      | 94.8      | 94.8      | 94.8      | 95.0      | 95.1    |
| GE 400                | 78.1                        | 80.8    | 85.3    | 88.3    | 92.8    | 93.6        | 95.4    | 96.4        | 96.4        | 96.4    | 96.6      | 96.6      | 96.6      | 96.6      | 97.1      | 97.2    |
| GE 300                | 78.1                        | 80.8    | 85.3    | 88.3    | 93.1    | 93.9        | 95.3    | 97.4        | 97.4        | 97.8    | 97.9      | 97.9      | 97.9      | 97.9      | 98.4      | 98.6    |
| GE 200                | 78.1                        | 80.8    | 85.3    | 88.3    | 93.1    | 93.9        | 96.3    | 97.4        | 97.4        | 97.9    | 98.0      | 98.0      | 98.3      | 98.3      | 99.0      | 99.3    |
| GE 100                | 78.1                        | 80.8    | 85.3    | 88.3    | 93.1    | 93.9        | 96.3    | 97.4        | 97.4        | 97.9    | 98.2      | 98.2      | 98.7      | 98.8      | 99.7      | 100.0   |
| GE 000                | 78.1                        | 80.8    | 85.3    | 88.3    | 93.1    | 93.9        | 96.3    | 97.4        | 97.4        | 97.9    | 98.2      | 98.2      | 98.7      | 98.8      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 52.8                        | 53.2    | 54.7    | 55.8    | 56.3    | 56.4        | 56.6    | 56.7        | 56.9        | 56.9    | 58.0      | 58.0      | 58.1      | 58.1      | 58.4      | 59.0    |
| GE 20000              | 55.3                        | 55.8    | 57.3    | 58.7    | 59.3    | 59.6        | 59.9    | 60.0        | 60.2        | 60.2    | 61.3      | 61.3      | 61.4      | 61.4      | 61.8      | 62.3    |
| GE 18000              | 55.3                        | 55.8    | 57.3    | 58.7    | 59.3    | 59.6        | 59.9    | 60.0        | 60.2        | 60.2    | 61.3      | 61.3      | 61.4      | 61.4      | 61.8      | 62.3    |
| GE 16000              | 55.3                        | 55.8    | 57.3    | 58.7    | 59.3    | 59.6        | 59.9    | 60.0        | 60.2        | 60.2    | 61.3      | 61.3      | 61.4      | 61.4      | 61.8      | 62.3    |
| GE 14000              | 55.3                        | 55.8    | 57.3    | 58.7    | 59.3    | 59.6        | 59.9    | 60.1        | 60.3        | 60.3    | 61.4      | 61.4      | 61.6      | 61.6      | 61.9      | 62.4    |
| GE 12000              | 56.7                        | 57.1    | 58.7    | 60.0    | 60.7    | 60.9        | 61.2    | 61.4        | 61.7        | 61.7    | 62.8      | 62.8      | 62.9      | 62.9      | 63.2      | 63.8    |
| GE 10000              | 58.6                        | 59.1    | 61.4    | 62.8    | 63.4    | 63.7        | 64.0    | 64.2        | 64.4        | 64.4    | 65.6      | 65.6      | 65.7      | 65.7      | 66.0      | 66.6    |
| GE 9000               | 58.7                        | 59.2    | 61.8    | 63.1    | 63.8    | 64.0        | 64.3    | 64.6        | 64.8        | 64.8    | 65.9      | 65.9      | 66.0      | 66.0      | 66.3      | 66.9    |
| GE 8000               | 60.3                        | 60.9    | 63.4    | 64.8    | 65.4    | 66.0        | 66.3    | 66.6        | 66.8        | 66.8    | 67.9      | 67.9      | 68.0      | 68.0      | 68.3      | 68.9    |
| GE 7000               | 60.6                        | 61.1    | 63.7    | 65.0    | 65.9    | 66.4        | 66.8    | 67.0        | 67.2        | 67.2    | 68.3      | 68.3      | 68.4      | 68.4      | 68.8      | 69.3    |
| GE 6000               | 60.9                        | 61.4    | 64.0    | 65.3    | 66.2    | 66.8        | 67.1    | 67.3        | 67.6        | 67.6    | 68.7      | 68.7      | 68.8      | 68.8      | 69.1      | 69.7    |
| GE 5000               | 63.0                        | 63.6    | 66.1    | 67.4    | 68.3    | 68.9        | 69.2    | 69.4        | 69.7        | 69.7    | 70.8      | 70.8      | 70.9      | 70.9      | 71.2      | 71.8    |
| GE 4500               | 63.0                        | 63.6    | 66.2    | 67.6    | 68.4    | 69.0        | 69.3    | 69.6        | 69.8        | 69.8    | 70.9      | 70.9      | 71.0      | 71.0      | 71.3      | 71.9    |
| GE 4000               | 65.2                        | 65.8    | 68.6    | 70.1    | 71.1    | 71.7        | 72.0    | 72.2        | 72.4        | 72.4    | 73.6      | 73.6      | 73.7      | 73.7      | 74.0      | 74.6    |
| GE 3500               | 65.8                        | 66.3    | 69.2    | 70.9    | 72.0    | 72.6        | 73.0    | 73.3        | 73.6        | 73.6    | 74.7      | 74.7      | 74.8      | 74.8      | 75.1      | 75.7    |
| GE 3000               | 67.3                        | 68.0    | 71.1    | 72.9    | 74.0    | 74.6        | 75.1    | 75.4        | 75.7        | 75.7    | 76.8      | 76.8      | 76.9      | 76.9      | 77.2      | 77.8    |
| GE 2500               | 67.6                        | 68.2    | 71.3    | 73.1    | 74.2    | 74.8        | 75.3    | 75.7        | 75.9        | 75.9    | 77.0      | 77.0      | 77.1      | 77.1      | 77.4      | 78.0    |
| GE 2000               | 69.3                        | 70.1    | 73.6    | 75.7    | 76.9    | 77.4        | 78.0    | 78.3        | 78.6        | 78.6    | 79.7      | 79.7      | 79.8      | 79.8      | 80.1      | 80.7    |
| GE 1800               | 69.7                        | 70.4    | 73.9    | 76.0    | 77.2    | 77.8        | 78.3    | 78.7        | 78.9        | 78.9    | 80.0      | 80.0      | 80.1      | 80.1      | 8.4       | 81.0    |
| GE 1500               | 70.3                        | 71.1    | 74.7    | 76.9    | 78.2    | 78.8        | 79.3    | 79.7        | 79.9        | 79.9    | 81.0      | 81.0      | 81.1      | 81.1      | 81.4      | 82.0    |
| GE 1200               | 71.8                        | 72.8    | 76.4    | 78.8    | 80.1    | 80.8        | 81.3    | 81.7        | 81.9        | 82.0    | 83.1      | 83.1      | 83.2      | 83.2      | 83.6      | 84.1    |
| GE 1000               | 72.3                        | 73.4    | 77.6    | 80.2    | 81.6    | 82.2        | 82.9    | 83.2        | 83.4        | 83.6    | 84.7      | 84.7      | 84.8      | 84.8      | 85.1      | 85.7    |
| GE 900                | 72.4                        | 73.6    | 77.7    | 80.6    | 81.9    | 82.6        | 83.2    | 83.6        | 83.8        | 83.9    | 85.0      | 85.0      | 85.1      | 85.1      | 85.4      | 86.0    |
| GE 800                | 72.4                        | 73.6    | 77.7    | 80.7    | 82.4    | 83.2        | 83.9    | 84.2        | 84.4        | 84.6    | 85.7      | 85.7      | 85.8      | 85.8      | 86.1      | 86.7    |
| GE 700                | 72.7                        | 73.8    | 77.9    | 81.3    | 83.6    | 84.4        | 85.2    | 85.7        | 85.9        | 86.0    | 87.1      | 87.1      | 87.2      | 87.2      | 87.6      | 88.1    |
| GE 600                | 72.7                        | 73.8    | 77.9    | 81.4    | 83.7    | 84.6        | 85.3    | 85.8        | 86.0        | 86.1    | 87.2      | 87.2      | 87.3      | 87.3      | 87.7      | 88.2    |
| GE 500                | 72.8                        | 73.9    | 78.2    | 82.2    | 85.4    | 86.3        | 88.0    | 88.6        | 88.8        | 89.2    | 90.3      | 90.3      | 90.4      | 90.4      | 90.9      | 91.4    |
| GE 400                | 72.9                        | 74.0    | 78.4    | 83.1    | 87.2    | 88.3        | 90.2    | 91.0        | 91.2        | 91.8    | 92.9      | 92.9      | 93.1      | 93.1      | 93.8      | 94.3    |
| GE 300                | 73.0                        | 74.1    | 78.7    | 83.6    | 88.0    | 89.2        | 91.6    | 92.8        | 93.0        | 93.8    | 95.2      | 95.2      | 95.6      | 95.6      | 96.4      | 97.3    |
| GE 200                | 73.0                        | 74.1    | 78.7    | 83.6    | 88.0    | 89.2        | 91.6    | 92.9        | 93.1        | 94.2    | 95.8      | 95.8      | 96.3      | 96.3      | 97.4      | 98.6    |
| GE 100                | 73.0                        | 74.1    | 78.7    | 83.6    | 88.0    | 89.2        | 91.6    | 92.9        | 93.1        | 94.2    | 95.9      | 95.9      | 96.6      | 96.6      | 98.2      | 99.6    |
| GE 000                | 73.0                        | 74.1    | 78.7    | 83.6    | 88.0    | 89.2        | 91.6    | 92.9        | 93.1        | 94.2    | 95.9      | 95.9      | 96.6      | 96.6      | 98.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST-TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 39.4                        | 42.8    | 47.0    | 49.2    | 51.4    | 51.7        | 52.0    | 52.2        | 52.3        | 52.3    | 52.9      | 52.9      | 53.1      | 53.2      | 53.3      | 53.3    |
| GE 20000              | 41.6                        | 45.1    | 49.9    | 52.4    | 55.0    | 55.2        | 55.9    | 56.3        | 56.4        | 56.6    | 57.2      | 57.2      | 57.7      | 57.8      | 57.9      | 57.9    |
| GE 18000              | 41.6                        | 45.1    | 49.9    | 52.4    | 55.0    | 55.2        | 56.0    | 56.4        | 56.6        | 56.7    | 57.3      | 57.3      | 57.8      | 57.9      | 58.0      | 58.0    |
| GE 16000              | 41.6                        | 45.1    | 49.9    | 52.4    | 55.0    | 55.2        | 56.0    | 56.4        | 56.6        | 56.7    | 57.3      | 57.3      | 57.8      | 57.9      | 58.0      | 58.0    |
| GE 14000              | 41.9                        | 45.4    | 50.2    | 52.8    | 55.3    | 55.6        | 56.3    | 56.8        | 56.9        | 57.0    | 57.7      | 57.7      | 58.1      | 58.2      | 58.3      | 58.3    |
| GE 12000              | 43.0                        | 46.6    | 51.3    | 54.0    | 56.6    | 56.8        | 57.6    | 58.0        | 58.1        | 58.2    | 59.0      | 59.0      | 59.4      | 59.6      | 59.8      | 59.8    |
| GE 10000              | 44.6                        | 48.3    | 53.3    | 56.1    | 58.8    | 59.1        | 59.9    | 60.3        | 60.4        | 60.6    | 61.3      | 61.3      | 61.8      | 61.9      | 62.1      | 62.1    |
| GE 9000               | 44.8                        | 48.6    | 53.7    | 56.8    | 59.4    | 59.8        | 60.6    | 61.0        | 61.1        | 61.2    | 62.0      | 62.0      | 62.4      | 62.6      | 62.8      | 62.8    |
| GE 8000               | 46.2                        | 50.1    | 55.6    | 58.9    | 61.7    | 62.1        | 63.2    | 63.7        | 63.8        | 63.9    | 64.7      | 64.7      | 65.1      | 65.2      | 65.4      | 65.4    |
| GE 7000               | 46.7                        | 50.7    | 56.2    | 59.6    | 62.3    | 62.8        | 63.9    | 64.3        | 64.4        | 64.6    | 65.3      | 65.3      | 65.8      | 65.9      | 66.1      | 66.1    |
| GE 6000               | 47.0                        | 51.0    | 56.6    | 59.9    | 62.7    | 63.1        | 64.2    | 64.7        | 64.8        | 64.9    | 65.7      | 65.7      | 66.1      | 66.2      | 66.4      | 66.4    |
| GE 5000               | 48.6                        | 52.6    | 58.6    | 61.9    | 64.8    | 65.2        | 66.6    | 67.0        | 67.1        | 67.2    | 68.0      | 68.0      | 68.4      | 68.6      | 68.8      | 68.8    |
| GE 4500               | 49.0                        | 53.0    | 59.0    | 62.6    | 65.4    | 65.9        | 67.2    | 67.8        | 67.9        | 68.0    | 68.8      | 68.8      | 69.2      | 69.3      | 69.6      | 69.7    |
| GE 4000               | 49.4                        | 53.4    | 59.6    | 63.4    | 66.7    | 67.1        | 68.6    | 69.2        | 69.3        | 69.8    | 70.6      | 70.6      | 71.0      | 71.1      | 71.3      | 71.6    |
| GE 3500               | 50.6                        | 54.6    | 61.0    | 65.0    | 68.2    | 68.7        | 70.1    | 70.8        | 70.9        | 71.3    | 72.1      | 72.1      | 72.6      | 72.7      | 72.9      | 73.1    |
| GE 3000               | 51.6                        | 55.6    | 62.0    | 66.1    | 69.4    | 70.0        | 71.6    | 72.2        | 72.3        | 72.9    | 73.7      | 73.7      | 74.1      | 74.2      | 74.4      | 74.7    |
| GE 2500               | 52.2                        | 56.3    | 62.8    | 67.2    | 70.7    | 71.2        | 72.8    | 73.4        | 73.6        | 74.1    | 74.9      | 74.9      | 75.3      | 75.4      | 75.7      | 75.9    |
| GE 2000               | 53.6                        | 57.8    | 64.2    | 68.9    | 72.7    | 73.2        | 74.8    | 75.4        | 75.6        | 76.2    | 77.0      | 77.0      | 77.4      | 77.6      | 77.8      | 78.0    |
| GE 1800               | 53.9                        | 58.1    | 64.6    | 69.2    | 73.0    | 73.6        | 75.1    | 75.8        | 75.9        | 76.6    | 77.3      | 77.3      | 77.8      | 77.9      | 78.1      | 78.3    |
| GE 1500               | 54.4                        | 59.0    | 65.4    | 70.2    | 74.1    | 74.7        | 76.2    | 77.0        | 77.1        | 77.8    | 78.6      | 78.6      | 79.0      | 79.1      | 79.3      | 79.6    |
| GE 1200               | 55.0                        | 59.7    | 66.2    | 71.2    | 75.3    | 75.9        | 77.7    | 78.1        | 78.8        | 79.4    | 80.2      | 80.2      | 80.7      | 80.8      | 81.0      | 81.2    |
| GE 1000               | 55.7                        | 60.3    | 67.3    | 72.6    | 77.1    | 77.8        | 79.9    | 80.9        | 81.0        | 81.7    | 82.4      | 82.4      | 82.9      | 83.0      | 83.2      | 83.4    |
| GE 900                | 55.7                        | 60.3    | 67.3    | 72.8    | 77.6    | 78.2        | 80.3    | 81.3        | 81.4        | 82.1    | 82.9      | 82.9      | 83.3      | 83.4      | 83.7      | 83.9    |
| GE 800                | 55.7                        | 60.3    | 67.3    | 72.9    | 77.8    | 78.4        | 80.6    | 81.6        | 81.7        | 82.3    | 83.1      | 83.1      | 83.6      | 83.7      | 83.9      | 84.1    |
| GE 700                | 55.8                        | 60.6    | 67.7    | 73.8    | 79.3    | 80.1        | 82.2    | 83.3        | 83.4        | 84.2    | 85.0      | 85.0      | 85.4      | 85.6      | 85.8      | 86.0    |
| GE 600                | 55.8                        | 60.7    | 67.9    | 74.3    | 80.3    | 81.2        | 83.3    | 84.6        | 84.7        | 85.4    | 86.2      | 86.2      | 86.7      | 86.8      | 87.0      | 87.2    |
| GE 500                | 56.0                        | 60.9    | 68.1    | 74.9    | 81.8    | 83.4        | 86.3    | 87.9        | 88.0        | 89.0    | 89.8      | 89.8      | 90.3      | 90.4      | 90.8      | 91.1    |
| GE 400                | 56.2                        | 61.2    | 68.7    | 75.6    | 82.6    | 84.3        | 87.6    | 89.4        | 89.6        | 90.7    | 91.6      | 91.6      | 92.4      | 92.6      | 93.1      | 93.4    |
| GE 300                | 56.3                        | 61.3    | 68.8    | 75.8    | 82.9    | 85.0        | 88.3    | 90.6        | 90.9        | 92.2    | 93.2      | 93.3      | 94.2      | 94.3      | 95.0      | 95.7    |
| GE 200                | 56.3                        | 61.3    | 68.8    | 75.8    | 82.9    | 85.1        | 88.4    | 90.7        | 91.1        | 92.8    | 94.2      | 94.3      | 95.7      | 95.9      | 97.0      | 98.1    |
| GE 100                | 56.3                        | 61.3    | 68.8    | 75.8    | 82.9    | 85.1        | 88.4    | 90.7        | 91.1        | 92.9    | 94.3      | 94.4      | 95.8      | 96.0      | 97.8      | 99.3    |
| GE 000                | 56.3                        | 61.3    | 68.8    | 75.8    | 82.9    | 85.1        | 88.4    | 90.7        | 91.1        | 92.9    | 94.3      | 94.4      | 95.9      | 96.1      | 98.0      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |       |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|-------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |       |
| NO CEIL               | 38.9                        | 44.8    | 48.4    | 50.0    | 50.8    | 51.0        | 51.1    | 51.1        | 51.1        | 51.1    | 51.2      | 51.2      | 51.2      | 51.3      | 51.3      | 51.4    | 51.4  |
| GE 20000              | 43.3                        | 50.2    | 54.6    | 56.8    | 57.6    | 57.9        | 58.0    | 58.1        | 58.1        | 58.2    | 58.3      | 58.3      | 58.4      | 58.4      | 58.6      | 58.6    | 58.6  |
| GE 18000              | 43.3                        | 50.2    | 54.6    | 56.8    | 57.6    | 57.9        | 58.0    | 58.1        | 58.1        | 58.2    | 58.3      | 58.3      | 58.4      | 58.4      | 58.6      | 58.6    | 58.6  |
| GE 16000              | 43.4                        | 50.3    | 54.7    | 56.9    | 57.7    | 58.0        | 58.1    | 58.2        | 58.2        | 58.3    | 58.4      | 58.4      | 58.6      | 58.6      | 58.7      | 58.7    | 58.7  |
| GE 14000              | 43.8                        | 50.7    | 55.0    | 57.2    | 58.0    | 58.3        | 58.4    | 58.6        | 58.6        | 58.7    | 58.8      | 58.8      | 59.0      | 59.0      | 59.1      | 59.1    | 59.1  |
| GE 12000              | 44.6                        | 51.7    | 56.3    | 58.7    | 59.4    | 59.8        | 59.9    | 60.0        | 60.0        | 60.1    | 60.2      | 60.2      | 60.4      | 60.4      | 60.6      | 60.6    | 60.6  |
| GE 10000              | 46.2                        | 53.9    | 58.7    | 61.0    | 61.8    | 62.1        | 62.3    | 62.4        | 6.4         | 62.6    | 62.7      | 62.7      | 62.9      | 62.9      | 63.0      | 63.0    | 63.0  |
| GE 9000               | 46.2                        | 54.0    | 58.8    | 61.3    | 62.1    | 62.4        | 62.7    | 62.8        | 62.8        | 62.9    | 63.0      | 63.0      | 63.2      | 63.2      | 63.3      | 63.3    | 63.3  |
| GE 8000               | 48.4                        | 56.7    | 61.8    | 64.8    | 65.7    | 66.0        | 66.2    | 66.3        | 66.3        | 66.4    | 66.6      | 66.6      | 66.8      | 66.8      | 66.9      | 66.9    | 66.9  |
| GE 7000               | 48.8                        | 57.0    | 62.2    | 65.3    | 66.2    | 66.6        | 66.8    | 66.9        | 66.9        | 67.0    | 67.1      | 67.1      | 67.3      | 67.3      | 67.4      | 67.4    | 67.4  |
| GE 6000               | 49.6                        | 57.8    | 63.0    | 66.1    | 67.0    | 67.3        | 67.6    | 67.7        | 67.7        | 67.8    | 67.9      | 67.9      | 68.1      | 68.1      | 68.2      | 68.2    | 68.2  |
| GE 5000               | 50.9                        | 59.3    | 64.8    | 67.9    | 68.8    | 69.1        | 69.3    | 69.4        | 69.4        | 69.6    | 69.7      | 69.7      | 69.9      | 69.9      | 70.0      | 70.0    | 70.0  |
| GE 4500               | 51.2                        | 59.9    | 65.4    | 68.8    | 69.7    | 70.1        | 70.3    | 70.4        | 70.4        | 70.6    | 70.8      | 70.8      | 71.0      | 71.0      | 71.1      | 71.1    | 71.1  |
| GE 4000               | 52.6                        | 61.4    | 67.4    | 71.2    | 72.3    | 72.8        | 73.0    | 73.1        | 73.1        | 73.2    | 73.4      | 73.4      | 73.7      | 73.7      | 73.8      | 73.8    | 73.8  |
| GE 3500               | 53.6                        | 62.6    | 68.7    | 72.8    | 74.0    | 74.4        | 74.7    | 74.8        | 74.8        | 74.9    | 75.1      | 75.1      | 75.3      | 75.3      | 75.4      | 75.4    | 75.4  |
| GE 3000               | 54.2                        | 63.4    | 69.9    | 74.0    | 75.3    | 75.9        | 76.1    | 76.2        | 76.2        | 76.3    | 76.6      | 76.6      | 76.8      | 76.8      | 76.9      | 76.9    | 76.9  |
| GE 2500               | 55.3                        | 64.7    | 71.1    | 75.3    | 76.7    | 77.2        | 77.4    | 77.6        | 77.6        | 77.7    | 77.9      | 77.9      | 78.1      | 78.1      | 78.2      | 78.2    | 78.2  |
| GE 2000               | 57.1                        | 66.4    | 73.0    | 77.3    | 78.9    | 79.4        | 79.7    | 79.8        | 79.8        | 79.9    | 80.1      | 80.1      | 80.3      | 80.3      | 80.4      | 80.4    | 80.4  |
| GE 1800               | 57.2                        | 66.6    | 73.1    | 77.4    | 79.1    | 79.7        | 79.9    | 80.0        | 80.0        | 80.1    | 80.3      | 80.3      | 80.6      | 80.6      | 80.7      | 80.7    | 80.7  |
| GE 1500               | 57.6                        | 66.9    | 73.6    | 78.0    | 79.8    | 80.4        | 80.7    | 80.8        | 80.8        | 80.9    | 81.1      | 81.1      | 81.3      | 81.3      | 81.4      | 81.4    | 81.4  |
| GE 1200               | 58.4                        | 68.2    | 75.3    | 79.9    | 81.8    | 82.6        | 82.8    | 82.9        | 82.9        | 83.0    | 83.2      | 83.2      | 83.4      | 83.4      | 83.6      | 83.6    | 83.6  |
| GE 1000               | 59.1                        | 69.1    | 76.6    | 81.3    | 83.3    | 84.1        | 84.3    | 84.4        | 84.4        | 84.7    | 84.9      | 84.9      | 85.1      | 85.1      | 85.2      | 85.2    | 85.2  |
| GE 900                | 59.3                        | 69.4    | 77.1    | 82.0    | 84.2    | 85.0        | 85.2    | 85.3        | 85.3        | 85.6    | 85.8      | 85.8      | 86.0      | 86.0      | 86.1      | 86.1    | 86.1  |
| GE 800                | 59.7                        | 69.8    | 78.0    | 83.0    | 85.3    | 86.2        | 86.4    | 86.7        | 86.8        | 87.0    | 87.2      | 87.2      | 87.4      | 87.4      | 87.6      | 87.6    | 87.6  |
| GE 700                | 59.7                        | 69.9    | 78.3    | 83.4    | 86.1    | 87.0        | 87.2    | 87.6        | 87.7        | 87.9    | 88.1      | 88.1      | 88.3      | 88.3      | 88.4      | 88.4    | 88.4  |
| GE 600                | 59.8                        | 70.1    | 78.9    | 84.7    | 88.3    | 89.4        | 89.8    | 90.1        | 90.2        | 90.4    | 90.7      | 90.7      | 90.9      | 90.9      | 91.0      | 91.0    | 91.0  |
| GE 500                | 60.1                        | 70.4    | 79.3    | 85.2    | 89.1    | 90.3        | 91.4    | 92.6        | 92.7        | 93.0    | 93.2      | 93.2      | 93.4      | 93.4      | 93.7      | 93.7    | 93.7  |
| GE 400                | 60.4                        | 71.0    | 80.1    | 86.1    | 90.7    | 91.9        | 93.8    | 95.2        | 95.3        | 95.8    | 96.0      | 96.0      | 96.2      | 96.2      | 96.4      | 96.4    | 96.4  |
| GE 300                | 60.6                        | 71.1    | 80.2    | 86.2    | 91.0    | 92.6        | 95.0    | 96.4        | 96.6        | 97.0    | 97.2      | 97.3      | 97.7      | 97.8      | 98.0      | 98.0    | 98.0  |
| GE 200                | 60.6                        | 71.1    | 80.2    | 86.2    | 91.0    | 92.7        | 95.1    | 96.6        | 96.7        | 97.3    | 97.9      | 98.0      | 98.7      | 98.9      | 99.4      | 99.7    | 99.7  |
| GE 100                | 60.6                        | 71.1    | 80.2    | 86.2    | 91.0    | 92.7        | 95.1    | 96.6        | 96.7        | 97.3    | 97.9      | 98.0      | 98.7      | 99.0      | 99.7      | 99.7    | 99.9  |
| GE 000                | 60.6                        | 71.1    | 80.2    | 86.2    | 91.0    | 92.7        | 95.1    | 96.6        | 96.7        | 97.3    | 97.9      | 98.0      | 98.7      | 99.0      | 99.7      | 100.0   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 48.0                        | 49.4    | 49.8    | 49.8    | 49.8    | 49.8        | 49.8    | 49.8        | 49.8        | 49.8    | 49.8      | 49.8      | 49.8      | 49.8      | 49.8      | 49.8    |
| GE 20000              | 56.8                        | 59.0    | 59.4    | 59.6    | 59.6    | 59.6        | 59.6    | 59.6        | 59.6        | 59.6    | 59.6      | 59.6      | 59.6      | 59.6      | 59.6      | 59.6    |
| GE 18000              | 56.8                        | 59.0    | 59.4    | 59.6    | 59.6    | 59.6        | 59.6    | 59.6        | 59.6        | 59.6    | 59.6      | 59.6      | 59.6      | 59.6      | 59.6      | 59.6    |
| GE 16000              | 57.1                        | 59.3    | 59.8    | 59.9    | 59.9    | 59.9        | 59.9    | 59.9        | 59.9        | 59.9    | 59.9      | 59.9      | 59.9      | 59.9      | 59.9      | 59.9    |
| GE 14000              | 57.9                        | 60.1    | 60.6    | 60.7    | 60.7    | 60.7        | 60.7    | 60.7        | 60.7        | 60.7    | 60.7      | 60.7      | 60.7      | 60.7      | 60.7      | 60.7    |
| GE 12000              | 58.4                        | 60.7    | 61.1    | 61.2    | 61.2    | 61.2        | 61.2    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 10000              | 60.8                        | 63.0    | 63.4    | 63.6    | 63.6    | 63.6        | 63.6    | 63.6        | 63.6        | 63.6    | 63.6      | 63.6      | 63.6      | 63.6      | 63.6      | 63.6    |
| GE 9000               | 61.3                        | 63.6    | 64.0    | 64.1    | 64.1    | 64.1        | 64.1    | 64.1        | 64.1        | 64.1    | 64.1      | 64.1      | 64.1      | 64.1      | 64.1      | 64.1    |
| GE 8000               | 64.2                        | 66.9    | 67.6    | 67.9    | 67.9    | 67.9        | 67.9    | 67.9        | 67.9        | 67.9    | 67.9      | 67.9      | 67.9      | 67.9      | 67.9      | 67.9    |
| GE 7000               | 64.7                        | 67.3    | 68.0    | 68.3    | 68.3    | 68.3        | 68.3    | 68.3        | 68.3        | 68.3    | 68.3      | 68.3      | 68.3      | 68.3      | 68.3      | 68.3    |
| GE 6000               | 65.3                        | 68.0    | 68.7    | 69.0    | 69.0    | 69.0        | 69.0    | 69.0        | 69.0        | 69.0    | 69.0      | 69.0      | 69.0      | 69.0      | 69.0      | 69.0    |
| GE 5000               | 67.6                        | 70.3    | 71.0    | 71.3    | 71.3    | 71.3        | 71.3    | 71.3        | 71.3        | 71.3    | 71.3      | 71.3      | 71.3      | 71.3      | 71.3      | 71.3    |
| GE 4500               | 68.0                        | 70.8    | 71.4    | 71.8    | 71.8    | 71.8        | 71.8    | 71.9        | 71.9        | 71.9    | 71.9      | 71.9      | 71.9      | 71.9      | 71.9      | 71.9    |
| GE 4000               | 71.2                        | 74.8    | 75.6    | 75.9    | 76.0    | 76.0        | 76.0    | 76.1        | 76.1        | 76.1    | 76.1      | 76.1      | 76.1      | 76.1      | 76.1      | 76.1    |
| GE 3500               | 72.3                        | 76.2    | 77.2    | 77.6    | 77.7    | 77.7        | 77.7    | 77.8        | 77.8        | 77.8    | 77.8      | 77.8      | 77.8      | 77.8      | 77.8      | 77.8    |
| GE 3000               | 73.7                        | 77.9    | 79.1    | 79.4    | 79.6    | 79.6        | 79.6    | 79.7        | 79.7        | 79.7    | 79.7      | 79.7      | 79.7      | 79.7      | 79.7      | 79.7    |
| GE 2500               | 75.2                        | 79.7    | 81.1    | 81.6    | 81.7    | 81.7        | 81.8    | 81.8        | 81.8        | 81.8    | 81.8      | 81.8      | 81.8      | 81.8      | 81.8      | 81.8    |
| GE 2000               | 77.3                        | 82.1    | 84.2    | 84.9    | 85.2    | 85.2        | 85.2    | 85.4        | 85.4        | 85.4    | 85.4      | 85.4      | 85.4      | 85.4      | 85.4      | 85.4    |
| GE 1800               | 78.2                        | 83.1    | 85.2    | 86.0    | 86.4    | 86.4        | 86.4    | 86.6        | 86.7        | 86.7    | 86.7      | 86.7      | 86.7      | 86.7      | 86.7      | 86.7    |
| GE 1500               | 79.2                        | 84.6    | 86.8    | 87.6    | 88.3    | 88.3        | 88.3    | 88.6        | 88.6        | 88.6    | 88.6      | 88.6      | 88.6      | 88.6      | 88.6      | 88.6    |
| GE 1200               | 80.7                        | 86.0    | 88.7    | 89.9    | 91.1    | 91.1        | 91.1    | 91.3        | 91.3        | 91.3    | 91.3      | 91.3      | 91.3      | 91.3      | 91.3      | 91.3    |
| GE 1000               | 80.7                        | 86.3    | 89.3    | 90.7    | 92.0    | 92.0        | 92.0    | 92.2        | 92.2        | 92.2    | 92.2      | 92.2      | 92.2      | 92.2      | 92.2      | 92.2    |
| GE 900                | 80.8                        | 86.4    | 89.4    | 90.9    | 92.2    | 92.2        | 92.2    | 92.4        | 92.4        | 92.4    | 92.4      | 92.4      | 92.4      | 92.4      | 92.4      | 92.4    |
| GE 800                | 81.3                        | 87.0    | 90.0    | 91.6    | 93.0    | 93.0        | 93.0    | 93.2        | 93.2        | 93.2    | 93.2      | 93.2      | 93.2      | 93.2      | 93.2      | 93.2    |
| GE 700                | 81.6                        | 87.2    | 90.8    | 92.3    | 93.9    | 93.9        | 94.2    | 94.6        | 94.6        | 94.6    | 94.6      | 94.6      | 94.6      | 94.6      | 94.6      | 94.6    |
| GE 600                | 81.8                        | 87.4    | 91.6    | 93.2    | 95.6    | 95.7        | 96.1    | 96.4        | 96.4        | 96.4    | 96.4      | 96.4      | 96.4      | 96.4      | 96.4      | 96.4    |
| GE 500                | 82.0                        | 87.7    | 91.9    | 93.7    | 96.8    | 96.9        | 97.4    | 97.8        | 98.0        | 98.0    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 400                | 82.1                        | 87.8    | 92.2    | 94.1    | 97.3    | 97.6        | 98.2    | 98.3        | 99.1        | 99.1    | 99.3      | 99.3      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 300                | 82.1                        | 87.8    | 92.2    | 94.1    | 97.4    | 97.7        | 98.3    | 98.9        | 99.3        | 99.3    | 99.7      | 99.7      | 99.7      | 99.7      | 99.7      | 99.7    |
| GE 200                | 82.1                        | 87.8    | 92.2    | 94.1    | 97.4    | 97.7        | 98.3    | 98.9        | 99.3        | 99.3    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 100                | 82.1                        | 87.8    | 92.2    | 94.1    | 97.4    | 97.7        | 98.3    | 98.9        | 99.3        | 99.3    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |
| GE 000                | 82.1                        | 87.8    | 92.2    | 94.1    | 97.4    | 97.7        | 98.3    | 98.9        | 99.3        | 99.3    | 99.9      | 99.9      | 99.9      | 99.9      | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO-UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: NOV HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 52.0                        | 52.9    | 52.9    | 52.9    | 52.9    | 52.9        | 52.9    | 52.9        | 52.9        | 52.9    | 52.9      | 52.9      | 52.9      | 52.9      | 52.9      | 52.9    |
| GE 20000              | 60.9                        | 62.1    | 62.4    | 62.4    | 62.4    | 62.4        | 62.4    | 62.4        | 62.4        | 62.4    | 62.4      | 62.4      | 62.4      | 62.4      | 62.4      | 62.4    |
| GE 18000              | 60.9                        | 62.1    | 62.4    | 62.4    | 62.4    | 62.4        | 62.4    | 62.4        | 62.4        | 62.4    | 62.4      | 62.4      | 62.4      | 62.4      | 62.4      | 62.4    |
| GE 16000              | 61.0                        | 62.2    | 62.6    | 62.6    | 62.6    | 62.6        | 62.6    | 62.6        | 62.6        | 62.6    | 62.6      | 62.6      | 62.6      | 62.6      | 62.6      | 62.6    |
| GE 14000              | 61.7                        | 62.9    | 63.2    | 63.2    | 63.2    | 63.2        | 63.2    | 63.2        | 63.2        | 63.2    | 63.2      | 63.2      | 63.2      | 63.2      | 63.2      | 63.2    |
| GE 12000              | 62.4                        | 63.8    | 64.2    | 64.2    | 64.2    | 64.2        | 64.2    | 64.2        | 64.2        | 64.2    | 64.2      | 64.2      | 64.2      | 64.2      | 64.2      | 64.2    |
| GE 10000              | 65.1                        | 67.0    | 67.4    | 67.6    | 67.6    | 67.6        | 67.6    | 67.6        | 67.6        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.6      | 67.6    |
| GE 9000               | 65.8                        | 67.7    | 68.1    | 68.2    | 68.2    | 68.2        | 68.2    | 68.2        | 68.2        | 68.2    | 68.2      | 68.2      | 68.2      | 68.2      | 68.2      | 68.2    |
| GE 8000               | 70.3                        | 72.3    | 73.0    | 73.1    | 73.2    | 73.2        | 73.2    | 73.2        | 73.2        | 73.2    | 73.2      | 73.2      | 73.2      | 73.2      | 73.2      | 73.2    |
| GE 7000               | 70.6                        | 72.7    | 73.3    | 73.4    | 73.6    | 73.6        | 73.6    | 73.6        | 73.6        | 73.6    | 73.6      | 73.6      | 73.6      | 73.6      | 73.6      | 73.6    |
| GE 6000               | 71.1                        | 73.2    | 73.9    | 74.0    | 74.1    | 74.1        | 74.1    | 74.1        | 74.1        | 74.1    | 74.1      | 74.1      | 74.1      | 74.1      | 74.1      | 74.1    |
| GE 5000               | 73.0                        | 75.6    | 76.2    | 76.3    | 76.4    | 76.4        | 76.4    | 76.4        | 76.4        | 76.4    | 76.4      | 76.4      | 76.4      | 76.4      | 76.4      | 76.4    |
| GE 4500               | 74.2                        | 77.0    | 77.7    | 77.8    | 77.9    | 77.9        | 77.9    | 77.9        | 77.9        | 77.9    | 77.9      | 77.9      | 77.9      | 77.9      | 77.9      | 77.9    |
| GE 4000               | 77.6                        | 81.0    | 81.9    | 82.2    | 82.6    | 82.6        | 82.7    | 82.7        | 82.7        | 82.7    | 82.7      | 82.7      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 3500               | 78.6                        | 82.0    | 82.9    | 83.2    | 83.6    | 83.6        | 83.8    | 83.8        | 83.8        | 83.8    | 83.8      | 83.8      | 83.8      | 83.8      | 83.8      | 83.8    |
| GE 3000               | 80.0                        | 83.4    | 84.3    | 84.8    | 85.1    | 85.1        | 85.3    | 85.3        | 85.3        | 85.3    | 85.3      | 85.3      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 2500               | 81.1                        | 84.9    | 86.0    | 86.4    | 86.8    | 86.8        | 87.0    | 87.0        | 87.0        | 87.0    | 87.0      | 87.0      | 87.0      | 87.0      | 87.0      | 87.0    |
| GE 2000               | 82.8                        | 86.6    | 87.8    | 88.2    | 88.9    | 88.9        | 89.1    | 89.2        | 89.2        | 89.3    | 89.3      | 89.3      | 89.3      | 89.3      | 89.3      | 89.3    |
| GE 1800               | 83.1                        | 86.9    | 88.1    | 88.6    | 89.3    | 89.3        | 89.6    | 89.7        | 89.7        | 89.8    | 89.8      | 89.8      | 89.8      | 89.8      | 89.8      | 89.8    |
| GE 1500               | 83.6                        | 87.4    | 88.8    | 89.3    | 90.2    | 90.2        | 90.4    | 90.6        | 90.6        | 90.7    | 90.7      | 90.7      | 90.7      | 90.7      | 90.7      | 90.7    |
| GE 1200               | 84.2                        | 88.1    | 89.4    | 90.1    | 91.2    | 91.3        | 91.6    | 91.7        | 91.7        | 91.8    | 91.8      | 91.8      | 91.8      | 91.8      | 91.8      | 91.8    |
| GE 1000               | 84.3                        | 88.6    | 89.9    | 90.6    | 92.0    | 92.1        | 92.4    | 92.6        | 92.6        | 92.7    | 92.7      | 92.7      | 92.7      | 92.7      | 92.7      | 92.7    |
| GE 900                | 84.4                        | 88.8    | 90.1    | 90.8    | 92.6    | 92.7        | 93.1    | 93.2        | 93.2        | 93.3    | 93.3      | 93.3      | 93.3      | 93.3      | 93.3      | 93.3    |
| GE 800                | 84.4                        | 88.9    | 90.2    | 91.1    | 93.4    | 93.6        | 94.0    | 94.2        | 94.2        | 94.3    | 94.3      | 94.3      | 94.3      | 94.3      | 94.3      | 94.3    |
| GE 700                | 85.0                        | 89.4    | 90.8    | 91.7    | 94.2    | 94.3        | 94.9    | 95.2        | 95.2        | 95.4    | 95.4      | 95.4      | 95.4      | 95.4      | 95.4      | 95.4    |
| GE 600                | 85.4                        | 89.9    | 91.4    | 92.4    | 95.0    | 95.2        | 95.8    | 96.1        | 96.1        | 96.3    | 96.3      | 96.3      | 96.3      | 96.3      | 96.3      | 96.3    |
| GE 500                | 85.8                        | 90.2    | 91.9    | 92.9    | 95.8    | 96.3        | 97.0    | 97.6        | 97.6        | 98.1    | 98.2      | 98.2      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 400                | 85.8                        | 90.2    | 91.9    | 93.0    | 95.9    | 96.7        | 97.6    | 98.4        | 98.4        | 99.0    | 99.1      | 99.1      | 99.1      | 99.1      | 99.1      | 99.1    |
| GE 300                | 85.8                        | 90.2    | 91.9    | 93.0    | 96.1    | 96.9        | 97.8    | 98.7        | 98.7        | 99.4    | 99.8      | 99.8      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 200                | 85.8                        | 90.2    | 91.9    | 93.0    | 96.1    | 96.9        | 97.8    | 98.7        | 98.7        | 99.6    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 100                | 85.8                        | 90.2    | 91.9    | 93.0    | 96.1    | 96.9        | 97.8    | 98.7        | 98.7        | 99.6    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |
| GE 000                | 85.8                        | 90.2    | 91.9    | 93.0    | 96.1    | 96.9        | 97.8    | 98.7        | 98.7        | 99.6    | 100.0     | 100.0     | 100.0     | 100.0     | 100.0     | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 59.3    | 60.3    | 60.3    | 60.6    | 60.6        | 60.6    | 60.6        | 60.6        | 60.7    | 60.7      | 60.7      | 60.8      | 60.8      | 60.8      | 60.8    |
| GE 20000              | 64.0                        | 64.7    | 65.9    | 65.9    | 66.1    | 66.1        | 66.1    | 66.1        | 66.1        | 66.2    | 66.2      | 66.2      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 18000              | 64.0                        | 64.7    | 65.9    | 65.9    | 66.1    | 66.1        | 66.1    | 66.1        | 66.1        | 66.2    | 66.2      | 66.2      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 16000              | 64.0                        | 64.7    | 65.9    | 65.9    | 66.1    | 66.1        | 66.1    | 66.1        | 66.1        | 66.2    | 66.2      | 66.2      | 66.3      | 66.3      | 66.3      | 66.3    |
| GE 14000              | 64.4                        | 65.1    | 66.3    | 66.3    | 66.6    | 66.6        | 66.6    | 66.6        | 66.6        | 66.7    | 66.7      | 66.7      | 66.8      | 66.8      | 66.8      | 66.8    |
| GE 12000              | 65.2                        | 65.9    | 67.1    | 67.1    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.4    | 67.4      | 67.4      | 67.6      | 67.6      | 67.6      | 67.6    |
| GE 10000              | 67.8                        | 68.7    | 70.2    | 70.2    | 70.4    | 70.4        | 70.4    | 70.4        | 70.4        | 70.6    | 70.6      | 70.6      | 70.7      | 70.7      | 70.7      | 70.7    |
| GE 9000               | 68.1                        | 69.1    | 70.7    | 70.7    | 70.9    | 70.9        | 70.9    | 70.9        | 70.9        | 71.0    | 71.0      | 71.0      | 71.1      | 71.1      | 71.1      | 71.1    |
| GE 8000               | 72.0                        | 73.4    | 75.1    | 75.1    | 75.3    | 75.3        | 75.3    | 75.3        | 75.3        | 75.4    | 75.4      | 75.4      | 75.6      | 75.6      | 75.6      | 75.6    |
| GE 7000               | 72.4                        | 73.9    | 75.7    | 75.7    | 75.9    | 75.9        | 75.9    | 75.9        | 75.9        | 76.0    | 76.0      | 76.0      | 76.1      | 76.1      | 76.1      | 76.1    |
| GE 6000               | 72.8                        | 74.2    | 76.0    | 76.0    | 76.2    | 76.2        | 76.2    | 76.2        | 76.2        | 76.3    | 76.3      | 76.3      | 76.4      | 76.4      | 76.4      | 76.4    |
| GE 5000               | 74.1                        | 75.7    | 77.7    | 77.7    | 77.9    | 77.9        | 77.9    | 77.9        | 77.9        | 78.0    | 78.0      | 78.0      | 78.1      | 78.1      | 78.1      | 78.1    |
| GE 4500               | 75.0                        | 76.6    | 78.6    | 78.6    | 78.8    | 78.8        | 78.8    | 78.8        | 78.8        | 78.9    | 78.9      | 78.9      | 79.0      | 79.0      | 79.0      | 79.0    |
| GE 4000               | 78.6                        | 80.2    | 82.3    | 82.3    | 82.6    | 82.7        | 82.7    | 82.7        | 82.7        | 82.8    | 82.8      | 82.8      | 82.9      | 82.9      | 82.9      | 82.9    |
| GE 3500               | 79.0                        | 80.7    | 83.0    | 83.0    | 83.2    | 83.4        | 83.6    | 83.6        | 83.6        | 83.7    | 83.7      | 83.7      | 83.8      | 83.8      | 83.8      | 83.8    |
| GE 3000               | 80.1                        | 81.8    | 84.1    | 84.3    | 84.7    | 84.8        | 84.8    | 84.8        | 84.8        | 84.9    | 84.9      | 84.9      | 85.0      | 85.0      | 85.0      | 85.0    |
| GE 2500               | 80.9                        | 82.7    | 85.4    | 85.7    | 86.0    | 86.1        | 86.1    | 86.1        | 86.1        | 86.2    | 86.2      | 86.2      | 86.3      | 86.3      | 86.3      | 86.3    |
| GE 2000               | 82.7                        | 84.4    | 87.8    | 88.3    | 88.7    | 88.9        | 88.9    | 88.9        | 88.9        | 89.0    | 89.0      | 89.0      | 89.1      | 89.1      | 89.1      | 89.1    |
| GE 1800               | 82.7                        | 84.4    | 87.9    | 88.4    | 88.8    | 89.0        | 89.0    | 89.0        | 89.0        | 89.1    | 89.1      | 89.1      | 89.2      | 89.2      | 89.2      | 89.2    |
| GE 1500               | 82.8                        | 84.6    | 88.3    | 89.1    | 89.4    | 89.7        | 89.7    | 89.7        | 89.7        | 89.8    | 89.8      | 89.8      | 89.9      | 89.9      | 89.9      | 89.9    |
| GE 1200               | 83.6                        | 85.3    | 89.2    | 90.2    | 90.8    | 91.0        | 91.0    | 91.0        | 91.0        | 91.1    | 91.1      | 91.1      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 1000               | 83.8                        | 85.6    | 89.4    | 90.6    | 91.2    | 91.4        | 91.4    | 91.4        | 91.4        | 91.6    | 91.6      | 91.6      | 91.7      | 91.7      | 91.7      | 91.7    |
| GE 900                | 84.0                        | 85.8    | 89.9    | 91.2    | 92.2    | 92.6        | 92.6    | 92.6        | 92.6        | 92.7    | 92.7      | 92.7      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 800                | 84.0                        | 86.1    | 90.3    | 91.7    | 92.8    | 93.1        | 93.1    | 93.1        | 93.1        | 93.2    | 93.2      | 93.2      | 93.3      | 93.3      | 93.3      | 93.3    |
| GE 700                | 84.1                        | 86.2    | 90.6    | 92.0    | 93.4    | 93.8        | 93.9    | 93.9        | 93.9        | 94.0    | 94.0      | 94.0      | 94.1      | 94.1      | 94.1      | 94.1    |
| GE 600                | 84.4                        | 86.6    | 91.0    | 92.4    | 94.1    | 94.4        | 94.6    | 94.6        | 94.6        | 95.0    | 95.0      | 95.0      | 95.2      | 95.2      | 95.2      | 95.2    |
| GE 500                | 84.4                        | 86.6    | 91.4    | 93.1    | 94.9    | 95.3        | 95.8    | 96.0        | 96.0        | 96.4    | 96.4      | 96.4      | 96.7      | 96.7      | 96.7      | 96.7    |
| GE 400                | 84.4                        | 86.6    | 91.4    | 93.1    | 95.1    | 95.6        | 96.7    | 97.4        | 97.4        | 97.9    | 97.9      | 97.9      | 98.2      | 98.2      | 98.2      | 98.2    |
| GE 300                | 84.4                        | 86.6    | 91.4    | 93.1    | 95.7    | 96.1        | 97.4    | 98.4        | 98.4        | 98.9    | 99.0      | 99.0      | 99.3      | 99.3      | 99.3      | 99.3    |
| GE 200                | 84.4                        | 86.6    | 91.4    | 93.1    | 95.7    | 96.1        | 97.8    | 98.8        | 98.8        | 99.2    | 99.4      | 99.4      | 99.8      | 99.8      | 99.8      | 99.8    |
| GE 100                | 84.4                        | 86.6    | 91.4    | 93.1    | 95.7    | 96.1        | 97.8    | 98.8        | 98.8        | 99.2    | 99.4      | 99.4      | 99.8      | 99.8      | 99.9      | 99.9    |
| GE 000                | 84.4                        | 86.6    | 91.4    | 93.1    | 95.7    | 96.1        | 97.8    | 98.8        | 98.8        | 99.2    | 99.4      | 99.4      | 99.8      | 99.8      | 99.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: 21-23

| CEILING<br>IN | VISIBILITY IN STATUTE MILES |      |      |      |       |      |       |       |      |      |      |      |      |      |      |       | FEET |
|---------------|-----------------------------|------|------|------|-------|------|-------|-------|------|------|------|------|------|------|------|-------|------|
|               | GE                          | GE   | GE   | GE   | GE    | GE   | GE    | GE    | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    |      |
| 7             | 6                           | 5    | 4    | 3    | 2 1/2 | 2    | 1 1/2 | 1 1/4 | 1    | 3/4  | 5/8  | 1/2  | 3/8  | 1/4  | 0    |       |      |
| NO CEIL       | 60.7                        | 61.1 | 62.0 | 62.7 | 63.2  | 63.2 | 63.2  | 63.2  | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2  |      |
| GE 20000      | 63.8                        | 64.2 | 65.3 | 66.0 | 66.7  | 66.7 | 66.7  | 66.7  | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7  |      |
| GE 18000      | 63.8                        | 64.2 | 65.3 | 66.0 | 66.7  | 66.7 | 66.7  | 66.7  | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7  |      |
| GE 16000      | 64.0                        | 64.4 | 65.6 | 66.2 | 66.9  | 66.9 | 66.9  | 66.9  | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9  |      |
| GE 14000      | 64.2                        | 64.7 | 65.8 | 66.4 | 67.1  | 67.1 | 67.1  | 67.1  | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1  |      |
| GE 12000      | 65.3                        | 65.9 | 67.0 | 67.7 | 68.3  | 68.3 | 68.3  | 68.3  | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3  |      |
| GE 10000      | 67.7                        | 68.4 | 69.8 | 70.4 | 71.1  | 71.1 | 71.1  | 71.1  | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1  |      |
| GE 9000       | 67.8                        | 68.6 | 69.9 | 70.6 | 71.2  | 71.2 | 71.2  | 71.2  | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2  |      |
| GE 8000       | 69.3                        | 70.2 | 71.7 | 72.6 | 73.2  | 73.2 | 73.2  | 73.2  | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2  |      |
| GE 7000       | 69.6                        | 70.4 | 71.9 | 72.9 | 73.6  | 73.6 | 73.6  | 73.6  | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6  |      |
| GE 6000       | 70.4                        | 71.3 | 72.8 | 73.9 | 74.6  | 74.6 | 74.6  | 74.6  | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  |      |
| GE 5000       | 72.7                        | 73.8 | 75.6 | 76.7 | 77.4  | 77.4 | 77.4  | 77.4  | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4  |      |
| GE 4500       | 72.7                        | 73.8 | 75.6 | 76.8 | 77.7  | 77.7 | 77.7  | 77.7  | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7  |      |
| GE 4000       | 76.6                        | 78.0 | 79.8 | 81.0 | 81.9  | 81.9 | 81.9  | 81.9  | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9  |      |
| GE 3500       | 77.3                        | 78.8 | 80.7 | 81.9 | 82.8  | 82.8 | 82.8  | 82.8  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  |      |
| GE 3000       | 78.1                        | 79.6 | 81.8 | 83.0 | 84.0  | 84.0 | 84.0  | 84.0  | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  |      |
| GE 2500       | 78.6                        | 80.0 | 82.2 | 83.4 | 84.4  | 84.4 | 84.4  | 84.4  | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  |      |
| GE 2000       | 80.3                        | 81.8 | 84.1 | 85.4 | 86.4  | 86.4 | 86.4  | 86.4  | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4  |      |
| GE 1800       | 80.4                        | 81.9 | 84.3 | 85.7 | 86.7  | 86.7 | 86.7  | 86.7  | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  |      |
| GE 1500       | 81.1                        | 82.7 | 85.1 | 86.7 | 87.7  | 87.7 | 87.7  | 87.7  | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  |      |
| GE 1200       | 81.9                        | 83.4 | 85.9 | 87.7 | 88.7  | 88.7 | 88.7  | 88.7  | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  |      |
| GE 1000       | 82.4                        | 84.0 | 86.4 | 88.3 | 89.3  | 89.3 | 89.3  | 89.3  | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  |      |
| GE 900        | 82.6                        | 84.1 | 86.8 | 88.8 | 89.8  | 89.8 | 89.8  | 89.8  | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  |      |
| GE 800        | 82.8                        | 84.3 | 87.0 | 89.2 | 90.4  | 90.4 | 90.4  | 90.4  | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4  |      |
| GE 700        | 82.9                        | 84.4 | 87.2 | 89.6 | 91.3  | 91.3 | 91.3  | 91.4  | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  |      |
| GE 600        | 83.1                        | 84.8 | 88.0 | 90.9 | 93.1  | 93.2 | 93.2  | 93.3  | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  |      |
| GE 500        | 83.2                        | 84.9 | 88.3 | 91.4 | 93.9  | 94.0 | 94.7  | 95.0  | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  |      |
| GE 400        | 83.2                        | 84.9 | 88.3 | 91.6 | 94.8  | 95.1 | 96.9  | 97.4  | 97.4 | 97.6 | 97.8 | 97.8 | 97.8 | 97.9 | 97.9 | 98.1  |      |
| GE 300        | 83.2                        | 84.9 | 88.3 | 91.6 | 94.9  | 95.3 | 97.6  | 98.1  | 98.1 | 98.2 | 98.4 | 98.4 | 98.4 | 98.7 | 98.7 | 99.0  |      |
| GE 200        | 83.2                        | 84.9 | 88.3 | 91.6 | 94.9  | 95.3 | 97.6  | 98.1  | 98.1 | 98.2 | 98.6 | 98.6 | 98.6 | 98.8 | 98.8 | 99.2  |      |
| GE 100        | 83.2                        | 84.9 | 88.3 | 91.6 | 94.9  | 95.3 | 97.6  | 98.1  | 98.1 | 98.2 | 98.6 | 98.6 | 98.6 | 98.9 | 98.9 | 99.6  |      |
| GE 000        | 83.2                        | 84.9 | 88.3 | 91.6 | 94.9  | 95.3 | 97.6  | 98.1  | 98.1 | 98.2 | 98.6 | 98.6 | 98.6 | 98.9 | 98.9 | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF FOGGING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST. TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: ALL

| CEILING<br>IN FEET | VISIBILITY IN STATUTE MILES |      |      |      |      |          |      |          |          |      |        |        |        |        |        |       |
|--------------------|-----------------------------|------|------|------|------|----------|------|----------|----------|------|--------|--------|--------|--------|--------|-------|
|                    | GE 7                        | GE 6 | GE 5 | GE 4 | GE 3 | GE 2 1/2 | GE 2 | GE 1 1/2 | GE 1 1/4 | GE 1 | GE 3/4 | GE 5/8 | GE 1/2 | GE 3/8 | GE 1/4 | GE 0  |
| NO. CEIL           | 51.2                        | 52.9 | 54.6 | 55.3 | 55.9 | 56.0     | 56.2 | 56.3     | 56.3     | 56.3 | 56.5   | 56.5   | 56.6   | 56.6   | 56.7   | 56.8  |
| GE 20000           | 55.8                        | 57.9 | 59.8 | 60.8 | 61.5 | 61.6     | 61.8 | 61.9     | 62.0     | 62.0 | 62.3   | 62.3   | 62.4   | 62.4   | 62.5   | 62.6  |
| GE 18000           | 55.8                        | 57.9 | 59.8 | 60.8 | 61.5 | 61.6     | 61.8 | 61.9     | 62.0     | 62.0 | 62.3   | 62.3   | 62.4   | 62.4   | 62.5   | 62.6  |
| GE 16000           | 56.0                        | 58.0 | 60.0 | 60.9 | 61.6 | 61.7     | 61.9 | 62.1     | 62.1     | 62.2 | 62.4   | 62.4   | 62.5   | 62.5   | 62.6   | 62.7  |
| GE 14000           | 56.3                        | 58.4 | 60.3 | 61.3 | 62.0 | 62.1     | 62.3 | 62.5     | 62.5     | 62.5 | 62.8   | 62.8   | 62.9   | 62.9   | 63.0   | 63.1  |
| GE 12000           | 57.3                        | 59.5 | 61.4 | 62.4 | 63.1 | 63.2     | 63.4 | 63.6     | 63.6     | 63.7 | 63.9   | 63.9   | 64.0   | 64.1   | 64.2   | 64.3  |
| GE 10000           | 59.4                        | 61.8 | 64.0 | 65.0 | 65.8 | 65.9     | 66.1 | 66.3     | 66.3     | 66.3 | 66.6   | 66.6   | 66.7   | 66.7   | 66.8   | 66.9  |
| GE 9000            | 59.7                        | 62.1 | 64.3 | 65.4 | 66.2 | 66.3     | 66.5 | 66.7     | 66.7     | 66.8 | 67.0   | 67.0   | 67.1   | 67.2   | 67.3   | 67.3  |
| GE 8000            | 62.2                        | 64.8 | 67.2 | 68.4 | 69.2 | 69.4     | 69.7 | 69.8     | 69.9     | 69.9 | 70.2   | 70.2   | 70.3   | 70.3   | 70.4   | 70.5  |
| GE 7000            | 62.5                        | 65.2 | 67.6 | 68.9 | 69.8 | 69.9     | 70.2 | 70.4     | 70.4     | 70.4 | 70.7   | 70.7   | 70.8   | 70.8   | 70.9   | 71.0  |
| GE 6000            | 63.0                        | 65.7 | 68.2 | 69.5 | 70.3 | 70.5     | 70.8 | 70.9     | 71.0     | 71.0 | 71.3   | 71.3   | 71.4   | 71.4   | 71.5   | 71.6  |
| GE 5000            | 64.8                        | 67.6 | 70.2 | 71.5 | 72.4 | 72.6     | 72.9 | 73.0     | 73.1     | 73.1 | 73.4   | 73.4   | 73.5   | 73.5   | 73.6   | 73.7  |
| GE 4500            | 65.3                        | 68.2 | 70.8 | 72.2 | 73.1 | 73.3     | 73.6 | 73.8     | 73.8     | 73.8 | 74.1   | 74.1   | 74.2   | 74.2   | 74.3   | 74.4  |
| GE 4000            | 67.9                        | 71.0 | 73.9 | 75.4 | 76.4 | 76.7     | 77.0 | 77.2     | 77.2     | 77.3 | 77.6   | 77.6   | 77.7   | 77.7   | 77.8   | 77.9  |
| GE 3500            | 68.8                        | 72.0 | 75.0 | 76.6 | 77.7 | 77.9     | 78.3 | 78.5     | 78.5     | 78.6 | 78.9   | 78.9   | 79.0   | 79.0   | 79.1   | 79.2  |
| GE 3000            | 70.0                        | 73.3 | 76.4 | 78.1 | 79.3 | 79.5     | 79.9 | 80.1     | 80.1     | 80.2 | 80.5   | 80.5   | 80.6   | 80.6   | 80.7   | 80.8  |
| GE 2500            | 70.8                        | 74.2 | 77.5 | 79.3 | 80.4 | 80.7     | 81.1 | 81.3     | 81.3     | 81.4 | 81.7   | 81.7   | 81.8   | 81.8   | 81.9   | 82.0  |
| GE 2000            | 72.3                        | 75.9 | 79.4 | 81.4 | 82.7 | 83.0     | 83.4 | 83.6     | 83.6     | 83.8 | 84.0   | 84.0   | 84.1   | 84.2   | 84.3   | 84.4  |
| GE 1800            | 72.7                        | 76.2 | 79.8 | 81.8 | 83.2 | 83.4     | 83.8 | 84.0     | 84.1     | 84.2 | 84.5   | 84.5   | 84.6   | 84.6   | 84.7   | 84.8  |
| GE 1500            | 73.2                        | 76.9 | 80.6 | 82.7 | 84.2 | 84.5     | 84.9 | 85.1     | 85.1     | 85.3 | 85.5   | 85.5   | 85.7   | 85.7   | 85.8   | 85.9  |
| GE 1200            | 74.1                        | 77.8 | 81.7 | 84.0 | 85.6 | 86.0     | 86.4 | 86.7     | 86.7     | 86.8 | 87.1   | 87.1   | 87.2   | 87.2   | 87.3   | 87.5  |
| GE 1000            | 74.5                        | 78.4 | 82.5 | 84.9 | 86.7 | 87.0     | 87.5 | 87.8     | 87.8     | 88.0 | 88.3   | 88.3   | 88.4   | 88.4   | 88.5   | 88.6  |
| GE 900             | 74.6                        | 78.5 | 82.7 | 85.3 | 87.2 | 87.6     | 88.1 | 88.3     | 88.4     | 88.5 | 88.8   | 88.8   | 88.9   | 88.9   | 89.0   | 89.2  |
| GE 800             | 74.8                        | 78.8 | 83.1 | 85.7 | 87.9 | 88.3     | 88.8 | 89.1     | 89.1     | 89.3 | 89.6   | 89.6   | 89.7   | 89.7   | 89.8   | 89.9  |
| GE 700             | 74.9                        | 79.0 | 83.4 | 86.3 | 88.8 | 89.3     | 89.8 | 90.2     | 90.3     | 90.5 | 90.7   | 90.7   | 90.8   | 90.9   | 91.0   | 91.1  |
| GE 600             | 75.1                        | 79.2 | 83.9 | 87.0 | 90.0 | 90.6     | 91.2 | 91.6     | 91.7     | 91.9 | 92.2   | 92.2   | 92.3   | 92.3   | 92.4   | 92.5  |
| GE 500             | 75.3                        | 79.4 | 84.3 | 87.6 | 91.1 | 91.9     | 93.1 | 93.8     | 93.8     | 94.2 | 94.5   | 94.5   | 94.6   | 94.7   | 94.8   | 94.9  |
| GE 400             | 75.4                        | 79.6 | 84.6 | 88.1 | 92.0 | 92.9     | 94.5 | 95.5     | 95.6     | 96.0 | 96.4   | 96.4   | 96.6   | 96.6   | 96.9   | 97.0  |
| GE 300             | 75.4                        | 79.6 | 84.6 | 88.2 | 92.4 | 93.3     | 95.3 | 96.4     | 96.6     | 97.1 | 97.6   | 97.6   | 97.8   | 97.9   | 98.2   | 98.4  |
| GE 200             | 75.4                        | 79.6 | 84.6 | 88.2 | 92.4 | 93.4     | 95.4 | 96.5     | 96.7     | 97.3 | 98.0   | 98.0   | 98.4   | 98.5   | 98.9   | 99.3  |
| GE 100             | 75.4                        | 79.6 | 84.6 | 88.2 | 92.4 | 93.4     | 95.4 | 96.5     | 96.7     | 97.3 | 98.0   | 98.1   | 98.5   | 98.6   | 99.3   | 99.8  |
| GE 000             | 75.4                        | 79.6 | 84.6 | 88.2 | 92.4 | 93.4     | 95.4 | 96.5     | 96.7     | 97.3 | 98.0   | 98.1   | 98.5   | 98.6   | 99.3   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 00-02

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.8                        | 59.1    | 60.1    | 60.5    | 60.8    | 60.9        | 60.9    | 60.9        | 60.9        | 61.0    | 61.1      | 61.2      | 61.5      | 61.5      | 61.7      | 61.7    |
| GE 20000              | 61.9                        | 62.3    | 63.3    | 64.0    | 64.2    | 64.3        | 64.3    | 64.3        | 64.3        | 64.4    | 64.6      | 64.7      | 65.1      | 65.2      | 65.6      | 65.6    |
| GE 18000              | 61.9                        | 62.3    | 63.3    | 64.0    | 64.2    | 64.3        | 64.3    | 64.3        | 64.3        | 64.4    | 64.6      | 64.7      | 65.1      | 65.2      | 65.6      | 65.6    |
| GE 16000              | 61.9                        | 62.3    | 63.3    | 64.0    | 64.2    | 64.3        | 64.3    | 64.3        | 64.3        | 64.4    | 64.6      | 64.7      | 65.1      | 65.2      | 65.6      | 65.6    |
| GE 14000              | 62.3                        | 62.6    | 63.7    | 64.3    | 64.5    | 64.6        | 64.6    | 64.6        | 64.6        | 64.7    | 64.9      | 65.1      | 65.4      | 65.5      | 65.9      | 65.9    |
| GE 12000              | 62.8                        | 63.1    | 64.2    | 64.8    | 65.1    | 65.2        | 65.2    | 65.2        | 65.2        | 65.3    | 65.5      | 65.6      | 65.9      | 66.0      | 66.5      | 66.5    |
| GE 10000              | 64.4                        | 64.8    | 65.9    | 66.7    | 66.9    | 67.0        | 67.0    | 67.0        | 67.0        | 67.1    | 67.3      | 67.4      | 67.7      | 67.8      | 68.3      | 68.3    |
| GE 9000               | 65.1                        | 65.5    | 66.6    | 67.3    | 67.5    | 67.6        | 67.6    | 67.6        | 67.6        | 67.7    | 68.0      | 68.1      | 68.4      | 68.5      | 68.9      | 68.9    |
| GE 8000               | 67.4                        | 68.0    | 69.0    | 69.8    | 70.0    | 70.1        | 70.1    | 70.1        | 70.1        | 70.2    | 70.4      | 70.5      | 70.9      | 71.0      | 71.4      | 71.4    |
| GE 7000               | 67.6                        | 68.2    | 69.2    | 70.0    | 70.2    | 70.3        | 70.3    | 70.3        | 70.3        | 70.4    | 70.6      | 70.8      | 71.1      | 71.2      | 71.6      | 71.6    |
| GE 6000               | 68.7                        | 69.4    | 70.8    | 71.5    | 71.8    | 72.0        | 72.0    | 72.0        | 72.0        | 72.2    | 72.4      | 72.5      | 72.8      | 72.9      | 73.3      | 73.3    |
| GE 5000               | 70.8                        | 71.4    | 73.0    | 74.1    | 74.4    | 74.6        | 74.6    | 74.6        | 74.6        | 74.7    | 74.9      | 75.1      | 75.4      | 75.5      | 75.9      | 75.9    |
| GE 4500               | 72.0                        | 72.7    | 74.3    | 75.4    | 75.7    | 75.9        | 75.9    | 75.9        | 75.9        | 76.0    | 76.2      | 76.3      | 76.7      | 76.8      | 77.2      | 77.2    |
| GE 4000               | 74.0                        | 74.7    | 76.3    | 77.4    | 78.0    | 78.2        | 78.2    | 78.2        | 78.2        | 78.3    | 78.5      | 78.6      | 78.9      | 79.0      | 79.5      | 79.5    |
| GE 3500               | 75.4                        | 76.1    | 77.7    | 78.8    | 79.6    | 79.8        | 79.8    | 79.8        | 79.8        | 79.9    | 80.1      | 80.2      | 80.5      | 80.6      | 81.1      | 81.1    |
| GE 3000               | 76.9                        | 77.6    | 79.2    | 80.3    | 81.1    | 81.3        | 81.3    | 81.3        | 81.3        | 81.4    | 81.6      | 81.7      | 82.0      | 82.2      | 82.6      | 82.6    |
| GE 2500               | 77.5                        | 78.4    | 80.0    | 81.3    | 82.0    | 82.3        | 82.3    | 82.3        | 82.3        | 82.4    | 82.6      | 82.7      | 83.0      | 83.1      | 83.5      | 83.5    |
| GE 2000               | 78.3                        | 79.2    | 80.9    | 82.4    | 83.1    | 83.4        | 83.4    | 83.4        | 83.4        | 83.5    | 83.8      | 83.9      | 84.2      | 84.3      | 84.7      | 84.7    |
| GE 1800               | 78.4                        | 79.4    | 81.0    | 82.5    | 83.2    | 83.5        | 83.5    | 83.5        | 83.5        | 83.7    | 83.9      | 84.0      | 84.3      | 84.4      | 84.8      | 84.8    |
| GE 1500               | 78.7                        | 79.7    | 81.3    | 82.8    | 83.5    | 83.9        | 84.0    | 84.0        | 84.0        | 84.1    | 84.3      | 84.4      | 84.7      | 84.8      | 85.3      | 85.3    |
| GE 1200               | 79.5                        | 80.5    | 82.3    | 84.0    | 84.7    | 85.1        | 85.2    | 85.2        | 85.2        | 85.3    | 85.5      | 85.6      | 85.9      | 86.0      | 86.5      | 86.5    |
| GE 1000               | 81.2                        | 82.5    | 84.5    | 86.3    | 87.3    | 87.7        | 87.8    | 87.8        | 87.8        | 88.0    | 88.2      | 88.3      | 88.6      | 88.7      | 89.1      | 89.1    |
| GE 900                | 81.6                        | 82.9    | 85.2    | 87.0    | 88.0    | 88.4        | 88.5    | 88.5        | 88.5        | 88.6    | 88.8      | 88.9      | 89.2      | 89.4      | 89.8      | 89.8    |
| GE 800                | 82.2                        | 83.4    | 85.9    | 87.8    | 89.0    | 89.5        | 89.6    | 89.6        | 89.6        | 89.7    | 89.9      | 90.0      | 90.3      | 90.4      | 90.9      | 90.9    |
| GE 700                | 82.4                        | 83.9    | 86.6    | 88.5    | 89.8    | 90.2        | 90.3    | 90.3        | 90.3        | 90.4    | 90.8      | 90.9      | 91.2      | 91.3      | 91.7      | 91.7    |
| GE 600                | 82.4                        | 83.9    | 86.9    | 89.1    | 90.6    | 91.2        | 91.6    | 91.6        | 91.6        | 91.7    | 92.2      | 92.3      | 92.6      | 92.7      | 93.1      | 93.1    |
| GE 500                | 82.5                        | 84.1    | 87.4    | 90.0    | 91.8    | 92.4        | 92.9    | 92.9        | 92.9        | 93.0    | 93.4      | 93.5      | 93.9      | 94.0      | 94.4      | 94.4    |
| GE 400                | 82.5                        | 84.1    | 87.4    | 90.0    | 92.4    | 93.1        | 94.2    | 94.5        | 94.5        | 94.7    | 95.3      | 95.4      | 95.7      | 95.8      | 96.2      | 96.2    |
| GE 300                | 82.5                        | 84.1    | 87.5    | 90.2    | 92.8    | 93.8        | 94.9    | 95.3        | 95.3        | 95.9    | 96.7      | 96.8      | 97.2      | 97.3      | 98.1      | 98.2    |
| GE 200                | 82.5                        | 84.1    | 87.5    | 90.2    | 93.2    | 94.2        | 95.4    | 95.7        | 95.7        | 96.5    | 97.2      | 97.3      | 97.7      | 98.0      | 99.2      | 99.5    |
| GE 100                | 82.5                        | 84.1    | 87.5    | 90.2    | 93.2    | 94.2        | 95.4    | 95.7        | 95.7        | 96.5    | 97.2      | 97.3      | 97.7      | 98.0      | 99.2      | 99.5    |
| GE 000                | 82.5                        | 84.1    | 87.5    | 90.2    | 93.2    | 94.2        | 95.4    | 95.7        | 95.7        | 96.5    | 97.2      | 97.3      | 97.8      | 98.1      | 99.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 03-05

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 54.6                        | 55.5    | 56.5    | 57.4    | 58.3    | 58.4        | 58.5    | 58.6        | 58.6        | 58.6    | 58.6      | 58.6      | 58.6      | 58.9      | 59.0      | 59.4    |
| GE 20000              | 56.7                        | 57.5    | 58.5    | 59.7    | 60.5    | 60.6        | 60.8    | 61.0        | 61.0        | 61.0    | 61.0      | 61.0      | 61.0      | 61.3      | 61.5      | 61.8    |
| GE 18000              | 56.7                        | 57.5    | 58.5    | 59.7    | 60.5    | 60.6        | 60.8    | 61.0        | 61.0        | 61.0    | 61.0      | 61.0      | 61.0      | 61.3      | 61.5      | 61.8    |
| GE 16000              | 56.7                        | 57.5    | 58.5    | 59.7    | 60.5    | 60.6        | 60.8    | 61.0        | 61.0        | 61.0    | 61.0      | 61.0      | 61.0      | 61.3      | 61.5      | 61.8    |
| GE 14000              | 56.9                        | 57.7    | 58.7    | 59.9    | 60.8    | 60.9        | 61.0    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.5      | 61.7      | 62.0    |
| GE 12000              | 57.5                        | 58.4    | 59.4    | 60.5    | 61.4    | 61.5        | 61.6    | 61.8        | 61.8        | 61.8    | 61.9      | 61.9      | 61.9      | 62.3      | 62.5      | 62.8    |
| GE 10000              | 59.6                        | 60.4    | 61.4    | 62.7    | 63.7    | 63.8        | 63.9    | 64.1        | 64.1        | 64.1    | 64.2      | 64.2      | 64.2      | 64.5      | 64.7      | 65.1    |
| GE 9000               | 60.4                        | 61.3    | 62.3    | 63.5    | 64.5    | 64.6        | 64.7    | 64.9        | 64.9        | 64.9    | 65.1      | 65.1      | 65.1      | 65.4      | 65.6      | 65.9    |
| GE 8000               | 62.3                        | 63.2    | 64.2    | 65.5    | 66.5    | 66.6        | 66.7    | 66.9        | 66.9        | 66.9    | 67.0      | 67.0      | 67.0      | 67.3      | 67.5      | 67.8    |
| GE 7000               | 62.7                        | 63.7    | 64.7    | 66.0    | 67.0    | 67.1        | 67.2    | 67.4        | 67.4        | 67.4    | 67.5      | 67.5      | 67.5      | 67.8      | 68.1      | 68.4    |
| GE 6000               | 63.3                        | 64.3    | 65.5    | 66.9    | 68.0    | 68.1        | 68.2    | 68.4        | 68.4        | 68.4    | 68.5      | 68.5      | 68.5      | 68.8      | 69.0      | 69.4    |
| GE 5000               | 66.7                        | 67.8    | 69.1    | 70.6    | 71.8    | 71.9        | 72.0    | 72.3        | 72.3        | 72.3    | 72.4      | 72.4      | 72.4      | 72.7      | 72.9      | 73.2    |
| GE 4500               | 67.7                        | 68.9    | 70.2    | 71.8    | 73.0    | 73.1        | 73.2    | 73.4        | 73.4        | 73.4    | 73.5      | 73.5      | 73.5      | 73.9      | 74.1      | 74.4    |
| GE 4000               | 70.6                        | 71.9    | 73.3    | 74.9    | 76.1    | 76.2        | 76.3    | 76.6        | 76.6        | 76.7    | 76.8      | 76.8      | 76.8      | 77.1      | 77.3      | 77.6    |
| GE 3500               | 71.8                        | 73.2    | 74.6    | 76.2    | 77.4    | 77.5        | 77.6    | 77.8        | 77.8        | 78.1    | 78.2      | 78.2      | 78.2      | 78.5      | 78.7      | 79.0    |
| GE 3000               | 72.6                        | 74.0    | 75.4    | 77.0    | 78.2    | 78.3        | 78.4    | 78.6        | 78.6        | 78.8    | 78.9      | 78.9      | 78.9      | 79.2      | 79.5      | 79.8    |
| GE 2500               | 73.1                        | 74.5    | 75.9    | 77.5    | 78.8    | 78.9        | 79.0    | 79.2        | 79.2        | 79.5    | 79.6      | 79.6      | 79.6      | 79.9      | 80.1      | 80.4    |
| GE 2000               | 73.5                        | 74.9    | 76.7    | 78.3    | 79.8    | 79.9        | 80.0    | 80.2        | 80.2        | 80.4    | 80.5      | 80.5      | 80.5      | 80.9      | 81.1      | 81.4    |
| GE 1800               | 73.7                        | 75.1    | 76.8    | 78.4    | 79.9    | 80.0        | 80.2    | 80.5        | 80.5        | 80.8    | 80.9      | 80.9      | 80.9      | 81.2      | 81.4      | 81.7    |
| GE 1500               | 74.0                        | 75.4    | 77.2    | 78.8    | 80.5    | 80.8        | 81.0    | 81.3        | 81.3        | 81.5    | 81.6      | 81.6      | 81.6      | 81.9      | 82.2      | 82.5    |
| GE 1200               | 75.3                        | 76.8    | 78.8    | 80.4    | 82.3    | 82.5        | 82.7    | 83.0        | 83.0        | 83.2    | 83.3      | 83.3      | 83.3      | 83.7      | 83.9      | 84.2    |
| GE 1000               | 76.3                        | 77.8    | 80.0    | 81.9    | 84.0    | 84.2        | 84.4    | 84.8        | 84.8        | 85.1    | 85.2      | 85.2      | 85.2      | 85.5      | 85.7      | 86.0    |
| GE 900                | 76.8                        | 78.3    | 80.5    | 82.5    | 84.5    | 84.8        | 85.1    | 85.5        | 85.5        | 85.7    | 85.8      | 85.8      | 85.8      | 86.1      | 86.3      | 86.7    |
| GE 800                | 77.0                        | 78.5    | 81.1    | 83.0    | 85.1    | 85.6        | 85.8    | 86.2        | 86.2        | 86.5    | 86.6      | 86.6      | 86.6      | 86.9      | 87.1      | 87.4    |
| GE 700                | 77.6                        | 79.2    | 81.8    | 83.8    | 86.2    | 86.9        | 87.2    | 87.6        | 87.6        | 87.8    | 88.0      | 88.0      | 88.0      | 88.3      | 88.5      | 88.8    |
| GE 600                | 77.7                        | 79.4    | 81.9    | 83.9    | 86.7    | 87.4        | 87.8    | 88.4        | 88.5        | 88.7    | 88.8      | 88.8      | 88.8      | 89.1      | 89.5      | 89.8    |
| GE 500                | 77.8                        | 79.5    | 82.4    | 84.4    | 87.8    | 88.8        | 89.6    | 90.3        | 90.4        | 90.6    | 90.8      | 90.8      | 90.8      | 91.1      | 91.4      | 91.7    |
| GE 400                | 77.8                        | 79.5    | 82.4    | 84.4    | 88.4    | 89.7        | 91.1    | 91.8        | 91.9        | 92.2    | 92.6      | 92.6      | 92.6      | 92.9      | 93.3      | 93.8    |
| GE 300                | 77.8                        | 79.5    | 82.4    | 84.4    | 88.5    | 89.8        | 91.4    | 92.6        | 92.7        | 93.2    | 93.8      | 93.9      | 93.9      | 94.2      | 94.9      | 95.4    |
| GE 200                | 77.8                        | 79.5    | 82.4    | 84.4    | 88.7    | 90.3        | 92.3    | 93.4        | 93.5        | 94.3    | 94.8      | 95.2      | 95.3      | 95.6      | 96.8      | 97.4    |
| GE 100                | 77.8                        | 79.5    | 82.4    | 84.4    | 88.7    | 90.3        | 92.3    | 93.4        | 93.5        | 94.3    | 94.8      | 95.2      | 95.4      | 95.7      | 97.1      | 98.1    |
| GE 000                | 77.8                        | 79.5    | 82.4    | 84.4    | 88.7    | 90.3        | 92.3    | 93.4        | 93.5        | 94.3    | 94.8      | 95.2      | 95.5      | 95.8      | 97.3      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: DEC HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 46.2                        | 48.7    | 51.0    | 51.9    | 52.9    | 53.1        | 53.1    | 53.3        | 53.4        | 53.7    | 54.2      | 54.2      | 54.4      | 54.4      | 54.5      | 54.6    |
| GE 20000              | 49.0                        | 51.5    | 54.1    | 55.1    | 56.0    | 56.3        | 56.3    | 56.7        | 56.8        | 57.2    | 57.8      | 57.8      | 58.3      | 58.3      | 58.4      | 58.5    |
| GE 18000              | 49.0                        | 51.5    | 54.1    | 55.1    | 56.0    | 56.3        | 56.3    | 56.7        | 56.8        | 57.2    | 57.8      | 57.8      | 58.3      | 58.3      | 58.4      | 58.5    |
| GE 16000              | 49.0                        | 51.5    | 54.1    | 55.1    | 56.0    | 56.3        | 56.3    | 56.7        | 56.8        | 57.2    | 57.8      | 57.8      | 58.3      | 58.3      | 58.4      | 58.5    |
| GE 14000              | 49.0                        | 51.5    | 54.1    | 55.1    | 56.0    | 56.3        | 56.3    | 56.7        | 56.8        | 57.2    | 57.8      | 57.8      | 58.3      | 58.3      | 58.4      | 58.5    |
| GE 12000              | 49.7                        | 52.2    | 54.9    | 55.9    | 57.0    | 57.3        | 57.3    | 57.6        | 57.7        | 58.3    | 58.9      | 59.0      | 59.5      | 59.5      | 59.6      | 59.8    |
| GE 10000              | 51.2                        | 53.7    | 56.8    | 58.0    | 59.0    | 59.4        | 59.4    | 59.7        | 59.8        | 60.3    | 61.1      | 61.2      | 61.6      | 61.6      | 61.7      | 61.9    |
| GE 9000               | 51.2                        | 53.8    | 56.9    | 58.1    | 59.1    | 59.5        | 59.5    | 59.8        | 59.9        | 60.4    | 61.2      | 61.3      | 61.7      | 61.7      | 61.8      | 62.0    |
| GE 8000               | 53.7                        | 56.3    | 59.6    | 60.9    | 61.9    | 62.4        | 62.5    | 62.8        | 62.9        | 63.4    | 64.3      | 64.4      | 64.8      | 64.8      | 64.9      | 65.3    |
| GE 7000               | 55.5                        | 58.3    | 61.6    | 62.9    | 64.1    | 64.5        | 64.6    | 64.9        | 65.1        | 65.6    | 66.5      | 66.6      | 67.0      | 67.0      | 67.1      | 67.4    |
| GE 6000               | 56.5                        | 59.2    | 62.6    | 63.9    | 65.1    | 65.5        | 65.6    | 65.9        | 66.0        | 66.6    | 67.4      | 67.5      | 68.0      | 68.0      | 68.1      | 68.4    |
| GE 5000               | 59.0                        | 61.8    | 65.2    | 66.7    | 68.3    | 68.8        | 69.0    | 69.4        | 69.5        | 70.0    | 70.9      | 71.0      | 71.4      | 71.4      | 71.5      | 71.8    |
| GE 4500               | 59.2                        | 62.0    | 65.4    | 67.0    | 68.8    | 69.4        | 69.6    | 69.9        | 70.0        | 70.5    | 71.4      | 71.5      | 71.9      | 71.9      | 72.0      | 72.4    |
| GE 4000               | 61.3                        | 64.4    | 67.8    | 69.5    | 71.3    | 71.9        | 72.2    | 72.5        | 72.6        | 73.1    | 74.0      | 74.1      | 74.5      | 74.5      | 74.6      | 74.9    |
| GE 3500               | 62.4                        | 65.5    | 68.9    | 70.5    | 72.5    | 73.1        | 73.3    | 73.8        | 73.9        | 74.4    | 75.3      | 75.4      | 75.8      | 75.8      | 75.9      | 76.2    |
| GE 3000               | 63.9                        | 67.1    | 70.8    | 72.4    | 74.3    | 74.9        | 75.2    | 75.6        | 75.7        | 76.2    | 77.1      | 77.2      | 77.6      | 77.6      | 77.7      | 78.1    |
| GE 2500               | 64.3                        | 67.5    | 71.3    | 72.9    | 74.8    | 75.5        | 75.7    | 76.2        | 76.3        | 76.9    | 77.7      | 77.8      | 78.3      | 78.3      | 78.4      | 78.7    |
| GE 2000               | 65.6                        | 68.9    | 72.9    | 74.5    | 76.6    | 77.2        | 77.4    | 78.0        | 78.1        | 78.6    | 79.5      | 79.6      | 80.0      | 80.0      | 80.1      | 80.4    |
| GE 1800               | 65.6                        | 68.9    | 72.9    | 74.5    | 76.6    | 77.2        | 77.4    | 78.0        | 78.1        | 78.6    | 79.5      | 79.6      | 80.0      | 80.0      | 80.1      | 80.4    |
| GE 1500               | 65.7                        | 69.2    | 73.2    | 74.8    | 76.9    | 77.5        | 77.7    | 78.3        | 78.4        | 78.9    | 79.8      | 79.9      | 80.3      | 80.3      | 80.4      | 80.8    |
| GE 1200               | 67.0                        | 70.6    | 75.2    | 77.0    | 79.2    | 79.9        | 80.3    | 80.9        | 81.0        | 81.5    | 82.4      | 82.5      | 82.9      | 82.9      | 83.0      | 83.3    |
| GE 1000               | 67.2                        | 71.0    | 75.6    | 77.5    | 79.9    | 80.5        | 81.0    | 81.5        | 81.6        | 82.2    | 83.0      | 83.1      | 83.5      | 83.5      | 83.7      | 84.0    |
| GE 900                | 67.4                        | 71.2    | 75.9    | 78.1    | 80.4    | 81.3        | 81.7    | 82.3        | 82.4        | 82.9    | 83.8      | 83.9      | 84.3      | 84.3      | 84.4      | 84.7    |
| GE 800                | 68.1                        | 71.9    | 76.9    | 79.1    | 81.7    | 82.6        | 83.1    | 83.7        | 83.8        | 84.3    | 85.2      | 85.3      | 85.7      | 85.7      | 85.8      | 86.1    |
| GE 700                | 68.2                        | 72.0    | 77.1    | 79.5    | 82.2    | 83.0        | 83.5    | 84.1        | 84.2        | 84.7    | 85.6      | 85.7      | 86.1      | 86.1      | 86.2      | 86.6    |
| GE 600                | 68.5                        | 72.4    | 77.5    | 80.0    | 83.2    | 84.1        | 84.6    | 85.2        | 85.3        | 85.8    | 86.7      | 86.8      | 87.2      | 87.2      | 87.3      | 87.6    |
| GE 500                | 68.5                        | 72.4    | 77.6    | 80.2    | 84.1    | 85.2        | 85.9    | 86.6        | 86.7        | 87.2    | 88.2      | 88.3      | 88.7      | 88.7      | 88.8      | 89.1    |
| GE 400                | 68.5                        | 72.5    | 77.8    | 80.4    | 85.1    | 86.5        | 87.7    | 88.7        | 88.8        | 89.6    | 90.6      | 90.8      | 91.3      | 91.3      | 91.6      | 92.0    |
| GE 300                | 68.5                        | 72.5    | 77.8    | 80.6    | 85.3    | 86.7        | 88.4    | 90.1        | 90.2        | 91.1    | 92.3      | 92.4      | 92.9      | 92.9      | 93.2      | 94.2    |
| GE 200                | 68.5                        | 72.5    | 77.8    | 80.6    | 85.3    | 86.8        | 88.9    | 90.6        | 90.8        | 91.6    | 93.2      | 93.3      | 94.3      | 94.3      | 95.5      | 96.9    |
| GE 100                | 68.5                        | 72.5    | 77.8    | 80.6    | 85.3    | 86.8        | 88.9    | 90.6        | 90.8        | 91.6    | 93.3      | 93.4      | 94.7      | 94.8      | 96.7      | 98.5    |
| GE 000                | 68.5                        | 72.5    | 77.8    | 80.6    | 85.3    | 86.8        | 88.9    | 90.6        | 90.8        | 91.6    | 93.3      | 93.4      | 94.7      | 94.8      | 96.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 42.3                        | 46.3    | 49.8    | 50.8    | 51.4    | 51.4        | 51.8    | 51.8        | 51.8        | 51.9    | 51.9      | 51.9      | 52.0      | 52.0      | 52.0      | 52.0    |
| GE 20000              | 46.6                        | 51.3    | 55.3    | 56.3    | 57.0    | 57.0        | 57.5    | 57.5        | 57.5        | 57.6    | 57.6      | 57.6      | 57.7      | 57.7      | 57.7      | 57.7    |
| GE 18000              | 46.6                        | 51.3    | 55.3    | 56.3    | 57.0    | 57.0        | 57.5    | 57.5        | 57.5        | 57.6    | 57.6      | 57.6      | 57.7      | 57.7      | 57.7      | 57.7    |
| GE 16000              | 46.7                        | 51.4    | 55.4    | 56.5    | 57.1    | 57.1        | 57.6    | 57.6        | 57.6        | 57.7    | 57.7      | 57.7      | 57.8      | 57.8      | 57.8      | 57.8    |
| GE 14000              | 47.0                        | 51.7    | 55.7    | 56.8    | 57.4    | 57.4        | 58.0    | 58.0        | 58.0        | 58.1    | 58.1      | 58.1      | 58.2      | 58.2      | 58.2      | 58.2    |
| GE 12000              | 48.5                        | 53.5    | 57.6    | 58.7    | 59.4    | 59.4        | 59.9    | 59.9        | 60.0        | 60.1    | 60.1      | 60.1      | 60.2      | 60.2      | 60.2      | 60.2    |
| GE 10000              | 51.0                        | 56.0    | 60.3    | 61.5    | 62.2    | 62.2        | 62.7    | 62.8        | 62.9        | 63.0    | 63.1      | 63.1      | 63.2      | 63.2      | 63.2      | 63.2    |
| GE 9000               | 51.3                        | 56.3    | 60.6    | 61.8    | 62.5    | 62.5        | 63.0    | 63.1        | 63.2        | 63.3    | 63.4      | 63.4      | 63.5      | 63.5      | 63.5      | 63.5    |
| GE 8000               | 53.0                        | 58.4    | 63.1    | 64.4    | 65.1    | 65.1        | 65.6    | 65.7        | 65.8        | 65.9    | 66.0      | 66.0      | 66.1      | 66.1      | 66.1      | 66.1    |
| GE 7000               | 54.2                        | 59.6    | 64.3    | 65.6    | 66.5    | 66.5        | 67.0    | 67.2        | 67.3        | 67.4    | 67.5      | 67.5      | 67.6      | 67.6      | 67.6      | 67.6    |
| GE 6000               | 54.4                        | 59.8    | 64.8    | 66.1    | 67.1    | 67.1        | 67.7    | 68.1        | 68.2        | 68.3    | 68.4      | 68.4      | 68.5      | 68.5      | 68.5      | 68.5    |
| GE 5000               | 56.3                        | 61.8    | 67.2    | 68.6    | 69.7    | 69.7        | 70.3    | 70.6        | 70.8        | 70.9    | 71.0      | 71.0      | 71.1      | 71.1      | 71.1      | 71.1    |
| GE 4500               | 57.3                        | 62.9    | 68.4    | 69.8    | 70.9    | 70.9        | 71.5    | 71.8        | 71.9        | 72.0    | 72.2      | 72.2      | 72.3      | 72.3      | 72.3      | 72.3    |
| GE 4000               | 59.0                        | 65.1    | 70.5    | 72.0    | 73.2    | 73.2        | 73.9    | 74.2        | 74.3        | 74.4    | 74.5      | 74.5      | 74.6      | 74.6      | 74.6      | 74.6    |
| GE 3500               | 59.8                        | 65.8    | 71.4    | 72.9    | 74.5    | 74.5        | 75.2    | 75.5        | 75.6        | 75.7    | 75.8      | 75.8      | 75.9      | 75.9      | 75.9      | 75.9    |
| GE 3000               | 60.5                        | 66.8    | 72.5    | 74.1    | 75.7    | 75.8        | 76.6    | 76.9        | 77.0        | 77.1    | 77.2      | 77.2      | 77.3      | 77.3      | 77.3      | 77.3    |
| GE 2500               | 60.9                        | 67.1    | 72.9    | 74.7    | 76.5    | 76.6        | 77.4    | 77.7        | 77.8        | 78.0    | 78.1      | 78.1      | 78.2      | 78.2      | 78.2      | 78.2    |
| GE 2000               | 62.4                        | 68.7    | 74.8    | 77.0    | 79.1    | 79.2        | 80.2    | 80.8        | 80.9        | 81.0    | 81.1      | 81.1      | 81.2      | 81.2      | 81.2      | 81.2    |
| GE 1800               | 62.7                        | 69.0    | 75.2    | 77.3    | 79.5    | 79.6        | 80.5    | 81.1        | 81.2        | 81.3    | 81.4      | 81.4      | 81.5      | 81.5      | 81.5      | 81.5    |
| GE 1500               | 63.5                        | 69.9    | 76.1    | 78.3    | 80.5    | 80.6        | 81.7    | 82.3        | 82.4        | 82.5    | 82.6      | 82.6      | 82.7      | 82.7      | 82.7      | 82.7    |
| GE 1200               | 64.4                        | 71.1    | 77.5    | 79.8    | 82.2    | 82.3        | 83.3    | 84.0        | 84.1        | 84.2    | 84.3      | 84.3      | 84.4      | 84.4      | 84.4      | 84.4    |
| GE 1000               | 64.7                        | 71.4    | 78.1    | 80.3    | 82.8    | 82.9        | 84.2    | 84.8        | 84.9        | 85.1    | 85.2      | 85.2      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 900                | 64.7                        | 71.5    | 78.2    | 80.8    | 83.3    | 83.4        | 84.8    | 85.5        | 85.6        | 85.7    | 85.8      | 85.8      | 85.9      | 85.9      | 85.9      | 85.9    |
| GE 800                | 64.8                        | 71.6    | 78.3    | 81.2    | 83.9    | 84.0        | 85.4    | 86.1        | 86.3        | 86.5    | 86.6      | 86.6      | 86.7      | 86.7      | 86.7      | 86.7    |
| GE 700                | 64.8                        | 72.3    | 79.0    | 82.0    | 84.9    | 85.1        | 86.5    | 87.2        | 87.4        | 87.5    | 87.6      | 87.6      | 87.7      | 87.7      | 87.7      | 87.7    |
| GE 600                | 65.3                        | 72.7    | 79.9    | 82.9    | 86.5    | 86.7        | 88.2    | 89.1        | 89.4        | 89.5    | 89.6      | 89.6      | 89.7      | 89.7      | 89.7      | 89.7    |
| GE 500                | 65.3                        | 72.8    | 80.2    | 83.5    | 88.0    | 88.2        | 90.1    | 91.2        | 91.4        | 91.5    | 91.6      | 91.6      | 91.8      | 91.8      | 91.8      | 91.8    |
| GE 400                | 65.3                        | 72.9    | 80.3    | 84.0    | 89.2    | 90.0        | 92.4    | 94.0        | 94.2        | 95.1    | 95.2      | 95.2      | 95.4      | 95.4      | 95.5      | 95.6    |
| GE 300                | 65.3                        | 72.9    | 80.3    | 84.0    | 89.7    | 90.4        | 93.1    | 95.1        | 95.5        | 96.9    | 97.0      | 97.0      | 97.3      | 97.3      | 97.4      | 97.8    |
| GE 200                | 65.3                        | 72.9    | 80.3    | 84.0    | 89.7    | 90.4        | 93.1    | 95.2        | 95.6        | 97.0    | 97.4      | 97.5      | 98.0      | 98.0      | 98.3      | 99.2    |
| GE 100                | 65.3                        | 72.9    | 80.3    | 84.0    | 89.8    | 90.5        | 93.2    | 95.3        | 95.7        | 97.1    | 97.5      | 97.6      | 98.2      | 98.2      | 98.7      | 99.8    |
| GE 000                | 65.3                        | 72.9    | 80.3    | 84.0    | 89.8    | 90.5        | 93.2    | 95.3        | 95.7        | 97.1    | 97.5      | 97.6      | 98.2      | 98.2      | 98.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 50.3                        | 51.7    | 51.9    | 51.9    | 51.9    | 51.9        | 51.9    | 51.9        | 51.9        | 51.9    | 51.9      | 51.9      | 51.9      | 51.9      | 51.9      | 51.9    |
| GE 20000              | 58.4                        | 59.9    | 60.1    | 60.1    | 60.1    | 60.1        | 60.1    | 60.1        | 60.1        | 60.1    | 60.1      | 60.1      | 60.1      | 60.1      | 60.1      | 60.1    |
| GE 18000              | 58.6                        | 60.1    | 60.3    | 60.3    | 60.3    | 60.3        | 60.3    | 60.3        | 60.3        | 60.3    | 60.3      | 60.3      | 60.3      | 60.3      | 60.3      | 60.3    |
| GE 16000              | 58.6                        | 60.1    | 60.3    | 60.3    | 60.3    | 60.3        | 60.3    | 60.3        | 60.3        | 60.3    | 60.3      | 60.3      | 60.3      | 60.3      | 60.3      | 60.3    |
| GE 14000              | 59.5                        | 61.0    | 61.2    | 61.2    | 61.2    | 61.2        | 61.2    | 61.2        | 61.2        | 61.2    | 61.2      | 61.2      | 61.2      | 61.2      | 61.2      | 61.2    |
| GE 12000              | 60.3                        | 61.8    | 62.2    | 62.2    | 62.2    | 62.2        | 62.2    | 62.2        | 62.2        | 62.2    | 62.2      | 62.2      | 62.2      | 62.2      | 62.2      | 62.2    |
| GE 10000              | 62.7                        | 64.2    | 64.5    | 64.5    | 64.5    | 64.5        | 64.5    | 64.5        | 64.5        | 64.5    | 64.5      | 64.5      | 64.5      | 64.5      | 64.5      | 64.5    |
| GE 9000               | 62.8                        | 64.3    | 64.6    | 64.6    | 64.6    | 64.6        | 64.6    | 64.6        | 64.6        | 64.6    | 64.6      | 64.6      | 64.6      | 64.6      | 64.6      | 64.6    |
| GE 8000               | 65.8                        | 67.3    | 67.7    | 67.7    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.7      | 67.7      | 67.7      | 67.7    |
| GE 7000               | 67.3                        | 69.0    | 69.6    | 69.6    | 69.6    | 69.6        | 69.6    | 69.6        | 69.6        | 69.6    | 69.6      | 69.6      | 69.6      | 69.6      | 69.6      | 69.6    |
| GE 6000               | 67.5                        | 69.2    | 69.9    | 70.0    | 70.1    | 70.1        | 70.1    | 70.1        | 70.1        | 70.1    | 70.1      | 70.1      | 70.1      | 70.1      | 70.1      | 70.1    |
| GE 5000               | 70.0                        | 71.7    | 72.6    | 72.8    | 72.9    | 72.9        | 72.9    | 72.9        | 72.9        | 72.9    | 72.9      | 72.9      | 72.9      | 72.9      | 72.9      | 72.9    |
| GE 4500               | 70.5                        | 72.3    | 73.1    | 73.3    | 73.4    | 73.4        | 73.4    | 73.4        | 73.4        | 73.4    | 73.4      | 73.4      | 73.4      | 73.4      | 73.4      | 73.4    |
| GE 4000               | 73.0                        | 74.7    | 75.7    | 76.1    | 76.2    | 76.2        | 76.2    | 76.2        | 76.2        | 76.2    | 76.2      | 76.2      | 76.2      | 76.2      | 76.2      | 76.2    |
| GE 3500               | 74.7                        | 76.5    | 77.4    | 77.8    | 78.0    | 78.0        | 78.0    | 78.0        | 78.0        | 78.0    | 78.0      | 78.0      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 3000               | 75.6                        | 77.4    | 78.4    | 78.8    | 79.2    | 79.2        | 79.2    | 79.2        | 79.2        | 79.2    | 79.2      | 79.2      | 79.2      | 79.2      | 79.2      | 79.2    |
| GE 2500               | 77.1                        | 78.9    | 80.0    | 80.4    | 80.9    | 81.0        | 81.0    | 81.0        | 81.0        | 81.0    | 81.0      | 81.0      | 81.0      | 81.0      | 81.0      | 81.0    |
| GE 2000               | 78.8                        | 81.1    | 82.3    | 83.1    | 83.7    | 83.9        | 83.9    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 83.9      | 83.9    |
| GE 1800               | 78.9                        | 81.2    | 82.4    | 83.2    | 83.8    | 84.0        | 84.0    | 84.0        | 84.0        | 84.0    | 84.0      | 84.0      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 1500               | 80.2                        | 82.6    | 84.2    | 85.2    | 85.7    | 85.9        | 85.9    | 85.9        | 85.9        | 85.9    | 85.9      | 85.9      | 85.9      | 85.9      | 85.9      | 85.9    |
| GE 1200               | 81.4                        | 84.0    | 86.0    | 87.5    | 88.3    | 88.5        | 88.5    | 88.5        | 88.5        | 88.5    | 88.5      | 88.5      | 88.5      | 88.5      | 88.5      | 88.5    |
| GE 1000               | 81.6                        | 84.2    | 86.5    | 88.2    | 89.2    | 89.5        | 89.5    | 89.5        | 89.5        | 89.5    | 89.5      | 89.5      | 89.5      | 89.5      | 89.5      | 89.5    |
| GE 900                | 82.0                        | 84.7    | 87.0    | 88.7    | 89.9    | 90.1        | 90.1    | 90.2        | 90.2        | 90.2    | 90.2      | 90.2      | 90.2      | 90.2      | 90.2      | 90.2    |
| GE 800                | 82.0                        | 84.8    | 87.1    | 89.1    | 90.4    | 90.6        | 90.8    | 90.9        | 90.9        | 90.9    | 90.9      | 90.9      | 90.9      | 90.9      | 90.9      | 90.9    |
| GE 700                | 82.0                        | 85.2    | 87.4    | 89.9    | 91.4    | 91.6        | 91.9    | 92.2        | 92.3        | 92.3    | 92.3      | 92.3      | 92.3      | 92.3      | 92.3      | 92.3    |
| GE 600                | 82.0                        | 85.2    | 87.7    | 90.2    | 91.9    | 92.3        | 92.8    | 93.1        | 93.2        | 93.2    | 93.2      | 93.2      | 93.2      | 93.2      | 93.2      | 93.2    |
| GE 500                | 82.0                        | 85.3    | 88.1    | 90.9    | 93.3    | 93.9        | 94.6    | 95.2        | 95.3        | 95.3    | 95.3      | 95.3      | 95.3      | 95.3      | 95.3      | 95.3    |
| GE 400                | 82.3                        | 85.6    | 88.5    | 91.3    | 94.3    | 95.1        | 96.5    | 97.4        | 97.6        | 97.8    | 97.8      | 97.8      | 97.8      | 97.8      | 97.8      | 97.8    |
| GE 300                | 82.3                        | 85.6    | 88.7    | 91.5    | 94.5    | 95.3        | 97.0    | 98.1        | 98.3        | 98.5    | 98.8      | 98.8      | 98.8      | 98.8      | 98.8      | 98.9    |
| GE 200                | 82.3                        | 85.6    | 88.7    | 91.5    | 94.5    | 95.3        | 97.0    | 98.2        | 98.6        | 99.0    | 99.5      | 99.5      | 99.5      | 99.5      | 99.6      | 99.8    |
| GE 100                | 82.3                        | 85.6    | 88.7    | 91.5    | 94.5    | 95.3        | 97.0    | 98.2        | 98.6        | 99.0    | 99.5      | 99.5      | 99.5      | 99.5      | 99.6      | 100.0   |
| GE 000                | 82.3                        | 85.6    | 88.7    | 91.5    | 94.5    | 95.3        | 97.0    | 98.2        | 98.6        | 99.0    | 99.5      | 99.5      | 99.5      | 99.5      | 99.6      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 15-17

| CEILING<br>IN FEET | VISIBILITY IN STATUTE MILES |      |      |      |      |          |      |          |          |      |        |        |        |        |        |       |
|--------------------|-----------------------------|------|------|------|------|----------|------|----------|----------|------|--------|--------|--------|--------|--------|-------|
|                    | GE 7                        | GE 6 | GE 5 | GE 4 | GE 3 | GE 2 1/2 | GE 2 | GE 1 1/2 | GE 1 1/4 | GE 1 | GE 3/4 | GE 5/8 | GE 1/2 | GE 3/8 | GE 1/4 | GE 0  |
| NO CEIL            | 52.0                        | 52.7 | 52.7 | 52.7 | 52.7 | 52.7     | 52.7 | 52.7     | 52.7     | 52.7 | 52.7   | 52.7   | 52.7   | 52.7   | 52.7   | 52.7  |
| GE 20000           | 60.2                        | 60.9 | 60.9 | 60.9 | 60.9 | 60.9     | 60.9 | 60.9     | 60.9     | 60.9 | 60.9   | 60.9   | 60.9   | 60.9   | 60.9   | 60.9  |
| GE 18000           | 60.4                        | 61.1 | 61.1 | 61.1 | 61.1 | 61.1     | 61.1 | 61.1     | 61.1     | 61.1 | 61.1   | 61.1   | 61.1   | 61.1   | 61.1   | 61.1  |
| GE 16000           | 60.5                        | 61.2 | 61.2 | 61.2 | 61.2 | 61.2     | 61.2 | 61.2     | 61.2     | 61.2 | 61.2   | 61.2   | 61.2   | 61.2   | 61.2   | 61.2  |
| GE 14000           | 61.3                        | 61.9 | 61.9 | 61.9 | 61.9 | 61.9     | 61.9 | 61.9     | 61.9     | 61.9 | 61.9   | 61.9   | 61.9   | 61.9   | 61.9   | 61.9  |
| GE 12000           | 62.4                        | 63.0 | 63.0 | 63.0 | 63.0 | 63.0     | 63.0 | 63.0     | 63.0     | 63.0 | 63.0   | 63.0   | 63.0   | 63.0   | 63.0   | 63.0  |
| GE 10000           | 65.3                        | 65.9 | 65.9 | 65.9 | 65.9 | 65.9     | 65.9 | 65.9     | 65.9     | 65.9 | 65.9   | 65.9   | 65.9   | 65.9   | 65.9   | 65.9  |
| GE 9000            | 65.6                        | 66.2 | 66.2 | 66.2 | 66.2 | 66.2     | 66.2 | 66.2     | 66.2     | 66.2 | 66.2   | 66.2   | 66.2   | 66.2   | 66.2   | 66.2  |
| GE 8000            | 69.1                        | 69.8 | 69.8 | 69.8 | 69.8 | 69.8     | 69.8 | 69.8     | 69.8     | 69.8 | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8  |
| GE 7000            | 70.3                        | 71.0 | 71.0 | 71.0 | 71.0 | 71.0     | 71.0 | 71.0     | 71.0     | 71.0 | 71.0   | 71.0   | 71.0   | 71.0   | 71.0   | 71.0  |
| GE 6000            | 70.6                        | 71.3 | 71.3 | 71.3 | 71.3 | 71.3     | 71.3 | 71.3     | 71.3     | 71.3 | 71.3   | 71.3   | 71.3   | 71.3   | 71.3   | 71.3  |
| GE 5000            | 73.0                        | 73.7 | 73.9 | 73.9 | 73.9 | 73.9     | 73.9 | 73.9     | 73.9     | 73.9 | 73.9   | 73.9   | 73.9   | 73.9   | 73.9   | 73.9  |
| GE 4500            | 73.8                        | 74.4 | 74.6 | 74.6 | 74.6 | 74.6     | 74.6 | 74.6     | 74.6     | 74.6 | 74.6   | 74.6   | 74.6   | 74.6   | 74.6   | 74.6  |
| GE 4000            | 76.7                        | 77.3 | 77.7 | 77.8 | 77.8 | 78.0     | 78.0 | 78.0     | 78.0     | 78.0 | 78.0   | 78.0   | 78.0   | 78.0   | 78.0   | 78.0  |
| GE 3500            | 78.7                        | 79.6 | 80.1 | 80.3 | 80.3 | 80.4     | 80.4 | 80.4     | 80.4     | 80.4 | 80.4   | 80.4   | 80.4   | 80.4   | 80.4   | 80.4  |
| GE 3000            | 80.6                        | 81.5 | 82.2 | 82.5 | 82.5 | 82.7     | 82.8 | 82.8     | 82.8     | 82.8 | 82.8   | 82.8   | 82.8   | 82.8   | 82.8   | 82.8  |
| GE 2500            | 81.7                        | 82.7 | 83.4 | 84.1 | 84.2 | 84.4     | 84.5 | 84.5     | 84.5     | 84.5 | 84.5   | 84.5   | 84.5   | 84.5   | 84.5   | 84.5  |
| GE 2000            | 82.9                        | 84.3 | 85.4 | 86.1 | 86.3 | 86.6     | 86.7 | 86.7     | 86.7     | 86.7 | 86.7   | 86.7   | 86.7   | 86.7   | 86.7   | 86.7  |
| GE 1800            | 83.2                        | 84.6 | 85.8 | 86.6 | 86.8 | 87.0     | 87.2 | 87.2     | 87.2     | 87.2 | 87.2   | 87.2   | 87.2   | 87.2   | 87.2   | 87.2  |
| GE 1500            | 83.8                        | 85.3 | 86.7 | 87.7 | 88.2 | 88.4     | 88.6 | 88.6     | 88.6     | 88.6 | 88.6   | 88.6   | 88.6   | 88.6   | 88.6   | 88.6  |
| GE 1200            | 84.8                        | 86.5 | 88.4 | 89.9 | 90.5 | 90.8     | 91.0 | 91.0     | 91.0     | 91.0 | 91.0   | 91.0   | 91.0   | 91.0   | 91.0   | 91.0  |
| GE 1000            | 85.1                        | 86.7 | 88.6 | 90.3 | 91.0 | 91.3     | 91.7 | 91.7     | 91.7     | 91.7 | 91.8   | 91.8   | 91.9   | 91.9   | 91.9   | 91.9  |
| GE 900             | 85.4                        | 87.2 | 89.5 | 91.2 | 91.8 | 92.2     | 92.7 | 92.7     | 92.7     | 92.7 | 92.8   | 92.8   | 92.9   | 92.9   | 92.9   | 92.9  |
| GE 800             | 85.4                        | 87.2 | 89.6 | 91.5 | 92.2 | 92.5     | 93.0 | 93.0     | 93.0     | 93.0 | 93.1   | 93.1   | 93.2   | 93.2   | 93.2   | 93.2  |
| GE 700             | 85.4                        | 87.2 | 89.7 | 91.7 | 92.8 | 93.1     | 93.7 | 93.7     | 93.7     | 93.7 | 93.8   | 93.8   | 93.9   | 93.9   | 93.9   | 93.9  |
| GE 600             | 85.5                        | 87.4 | 89.9 | 92.3 | 94.0 | 94.4     | 95.2 | 95.2     | 95.2     | 95.3 | 95.4   | 95.4   | 95.5   | 95.5   | 95.5   | 95.5  |
| GE 500             | 85.5                        | 87.6 | 90.5 | 93.0 | 95.2 | 95.6     | 96.6 | 96.9     | 96.9     | 97.0 | 97.3   | 97.3   | 97.4   | 97.4   | 97.4   | 97.4  |
| GE 400             | 85.6                        | 87.7 | 90.6 | 93.2 | 95.8 | 96.5     | 97.4 | 98.0     | 98.1     | 98.5 | 98.8   | 98.8   | 98.9   | 98.9   | 98.9   | 98.9  |
| GE 300             | 85.6                        | 87.7 | 90.6 | 93.2 | 96.0 | 96.7     | 97.7 | 98.3     | 98.5     | 99.0 | 99.6   | 99.6   | 99.8   | 99.8   | 99.8   | 99.8  |
| GE 200             | 85.6                        | 87.7 | 90.6 | 93.2 | 96.0 | 96.7     | 97.7 | 98.3     | 98.5     | 99.0 | 99.6   | 99.6   | 99.8   | 99.8   | 99.8   | 99.8  |
| GE 100             | 85.6                        | 87.7 | 90.6 | 93.2 | 96.0 | 96.7     | 97.7 | 98.3     | 98.5     | 99.0 | 99.6   | 99.6   | 99.9   | 99.9   | 99.9   | 100.0 |
| GE 000             | 85.6                        | 87.7 | 90.6 | 93.2 | 96.0 | 96.7     | 97.7 | 98.3     | 98.5     | 99.0 | 99.6   | 99.6   | 99.9   | 99.9   | 99.9   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 58.2                        | 58.4    | 58.5    | 58.5    | 58.5    | 58.5        | 58.5    | 58.5        | 58.5        | 58.5    | 58.5      | 58.5      | 58.5      | 58.5      | 58.5      | 58.5    |
| GE 20000              | 62.5                        | 62.9    | 63.0    | 63.0    | 63.0    | 63.0        | 63.0    | 63.0        | 63.0        | 63.0    | 63.0      | 63.0      | 63.0      | 63.0      | 63.0      | 63.0    |
| GE 18000              | 62.5                        | 62.9    | 63.0    | 63.0    | 63.0    | 63.0        | 63.0    | 63.0        | 63.0        | 63.0    | 63.0      | 63.0      | 63.0      | 63.0      | 63.0      | 63.0    |
| GE 16000              | 62.5                        | 62.9    | 63.0    | 63.0    | 63.0    | 63.0        | 63.0    | 63.0        | 63.0        | 63.0    | 63.0      | 63.0      | 63.0      | 63.0      | 63.0      | 63.0    |
| GE 14000              | 63.2                        | 63.7    | 63.8    | 63.8    | 63.8    | 63.8        | 63.8    | 63.8        | 63.8        | 63.8    | 63.8      | 63.8      | 63.8      | 63.8      | 63.8      | 63.8    |
| GE 12000              | 64.4                        | 64.8    | 64.9    | 64.9    | 64.9    | 64.9        | 64.9    | 64.9        | 64.9        | 64.9    | 64.9      | 64.9      | 64.9      | 64.9      | 64.9      | 64.9    |
| GE 10000              | 67.1                        | 67.5    | 67.6    | 67.6    | 67.6    | 67.6        | 67.6    | 67.6        | 67.6        | 67.6    | 67.6      | 67.6      | 67.6      | 67.6      | 67.7      | 67.7    |
| GE 9000               | 67.3                        | 67.7    | 67.8    | 67.8    | 67.8    | 67.8        | 67.8    | 67.8        | 67.8        | 67.8    | 67.8      | 67.8      | 67.8      | 67.8      | 68.0      | 68.0    |
| GE 8000               | 71.3                        | 71.7    | 71.8    | 71.8    | 71.8    | 71.8        | 71.8    | 71.8        | 71.8        | 71.8    | 71.8      | 71.8      | 71.8      | 71.8      | 71.9      | 71.9    |
| GE 7000               | 72.5                        | 72.9    | 73.0    | 73.0    | 73.0    | 73.0        | 73.0    | 73.0        | 73.0        | 73.0    | 73.0      | 73.0      | 73.0      | 73.0      | 73.1      | 73.1    |
| GE 6000               | 73.1                        | 73.5    | 73.7    | 73.7    | 73.7    | 73.7        | 73.7    | 73.7        | 73.7        | 73.7    | 73.7      | 73.7      | 73.7      | 73.7      | 73.8      | 73.8    |
| GE 5000               | 74.0                        | 74.5    | 74.9    | 74.9    | 74.9    | 74.9        | 74.9    | 74.9        | 74.9        | 74.9    | 74.9      | 74.9      | 74.9      | 74.9      | 75.1      | 75.1    |
| GE 4500               | 74.6                        | 75.2    | 75.6    | 75.6    | 75.6    | 75.6        | 75.6    | 75.6        | 75.6        | 75.6    | 75.6      | 75.6      | 75.6      | 75.6      | 75.7      | 75.7    |
| GE 4000               | 79.2                        | 79.9    | 80.3    | 80.3    | 80.4    | 80.4        | 80.4    | 80.4        | 80.4        | 80.4    | 80.4      | 80.4      | 80.4      | 80.4      | 80.5      | 80.5    |
| GE 3500               | 80.2                        | 80.9    | 81.3    | 81.4    | 81.5    | 81.5        | 81.5    | 81.5        | 81.5        | 81.5    | 81.5      | 81.5      | 81.5      | 81.5      | 81.6      | 81.6    |
| GE 3000               | 81.8                        | 82.5    | 82.9    | 83.2    | 83.3    | 83.5        | 83.5    | 83.5        | 83.5        | 83.9    | 83.9      | 83.9      | 83.9      | 83.9      | 84.0      | 84.0    |
| GE 2500               | 82.7                        | 83.5    | 84.0    | 84.4    | 84.5    | 84.8        | 84.8    | 84.8        | 84.8        | 85.2    | 85.2      | 85.2      | 85.2      | 85.2      | 85.3      | 85.3    |
| GE 2000               | 83.5                        | 84.5    | 85.2    | 85.7    | 86.3    | 86.8        | 86.9    | 86.9        | 86.9        | 87.2    | 87.2      | 87.2      | 87.2      | 87.2      | 87.3      | 87.3    |
| GE 1800               | 83.8                        | 84.7    | 85.4    | 85.9    | 86.6    | 87.0        | 87.1    | 87.1        | 87.1        | 87.4    | 87.4      | 87.4      | 87.4      | 87.4      | 87.5      | 87.5    |
| GE 1500               | 84.9                        | 85.9    | 86.7    | 87.2    | 88.1    | 88.6        | 88.8    | 88.8        | 88.8        | 89.1    | 89.1      | 89.1      | 89.1      | 89.1      | 89.2      | 89.2    |
| GE 1200               | 85.7                        | 86.8    | 87.7    | 88.7    | 89.6    | 90.2        | 90.4    | 90.4        | 90.4        | 90.8    | 90.8      | 90.8      | 90.8      | 90.8      | 90.9      | 90.9    |
| GE 1000               | 86.0                        | 87.2    | 88.2    | 89.4    | 90.4    | 91.1        | 91.4    | 91.4        | 91.4        | 91.7    | 92.0      | 92.0      | 92.0      | 92.0      | 92.2      | 92.2    |
| GE 900                | 86.1                        | 87.4    | 88.5    | 89.7    | 90.9    | 91.5        | 91.8    | 91.8        | 91.8        | 92.2    | 92.5      | 92.5      | 92.5      | 92.5      | 92.6      | 92.6    |
| GE 800                | 86.1                        | 87.4    | 88.6    | 90.0    | 91.5    | 92.2        | 92.5    | 92.5        | 92.5        | 92.8    | 93.1      | 93.1      | 93.1      | 93.1      | 93.2      | 93.2    |
| GE 700                | 86.2                        | 87.5    | 88.8    | 90.4    | 92.0    | 92.8        | 93.1    | 93.1        | 93.1        | 93.4    | 93.8      | 93.8      | 93.8      | 93.8      | 93.9      | 93.9    |
| GE 600                | 86.3                        | 87.6    | 88.9    | 90.6    | 92.4    | 93.2        | 93.7    | 94.0        | 94.0        | 94.3    | 94.6      | 94.6      | 94.6      | 94.6      | 94.7      | 94.7    |
| GE 500                | 86.3                        | 87.6    | 88.9    | 91.1    | 93.0    | 94.0        | 94.5    | 94.8        | 94.8        | 95.2    | 95.6      | 95.6      | 95.6      | 95.6      | 95.7      | 95.7    |
| GE 400                | 86.3                        | 87.7    | 89.0    | 91.6    | 94.1    | 95.3        | 95.8    | 97.0        | 97.0        | 97.4    | 97.8      | 97.8      | 97.8      | 97.8      | 98.0      | 98.0    |
| GE 300                | 86.3                        | 87.7    | 89.0    | 91.7    | 94.6    | 95.8        | 96.3    | 98.0        | 98.0        | 98.5    | 98.9      | 98.9      | 98.9      | 98.9      | 99.0      | 99.0    |
| GE 200                | 86.3                        | 87.7    | 89.0    | 91.7    | 94.6    | 95.8        | 96.3    | 98.0        | 98.2        | 98.7    | 99.1      | 99.1      | 99.1      | 99.1      | 99.2      | 99.2    |
| GE 100                | 86.3                        | 87.7    | 89.0    | 91.7    | 94.6    | 95.8        | 96.3    | 98.0        | 98.4        | 98.9    | 99.4      | 99.4      | 99.4      | 99.5      | 99.7      | 99.7    |
| GE 000                | 86.3                        | 87.7    | 89.0    | 91.7    | 94.6    | 95.8        | 96.3    | 98.0        | 98.4        | 98.9    | 99.4      | 99.4      | 99.6      | 99.6      | 99.8      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB-SC.  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: 21-23

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 61.9                        | 62.3    | 62.6    | 62.6    | 62.9    | 62.9        | 62.9    | 62.9        | 62.9        | 62.9    | 62.9      | 62.9      | 63.0      | 63.0      | 63.0      | 63.0    |
| GE 20000              | 66.1                        | 66.7    | 67.0    | 67.0    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.3    | 67.3      | 67.3      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 18000              | 66.1                        | 66.7    | 67.0    | 67.0    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.3    | 67.3      | 67.3      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 16000              | 66.1                        | 66.7    | 67.0    | 67.0    | 67.3    | 67.3        | 67.3    | 67.3        | 67.3        | 67.3    | 67.3      | 67.3      | 67.4      | 67.4      | 67.4      | 67.4    |
| GE 14000              | 66.6                        | 67.1    | 67.4    | 67.4    | 67.7    | 67.7        | 67.7    | 67.7        | 67.7        | 67.7    | 67.7      | 67.7      | 67.8      | 67.8      | 67.8      | 67.8    |
| GE 12000              | 67.2                        | 67.7    | 68.1    | 68.1    | 68.4    | 68.4        | 68.4    | 68.4        | 68.4        | 68.4    | 68.4      | 68.4      | 68.5      | 68.5      | 68.5      | 68.5    |
| GE 10000              | 69.2                        | 69.8    | 70.1    | 70.1    | 70.4    | 70.4        | 70.4    | 70.4        | 70.4        | 70.4    | 70.4      | 70.4      | 70.5      | 70.5      | 70.5      | 70.5    |
| GE 9000               | 69.6                        | 70.1    | 70.4    | 70.4    | 70.8    | 70.8        | 70.8    | 70.8        | 70.8        | 70.8    | 70.8      | 70.8      | 70.9      | 70.9      | 70.9      | 70.9    |
| GE 8000               | 73.1                        | 73.7    | 74.0    | 74.0    | 74.3    | 74.3        | 74.3    | 74.3        | 74.3        | 74.3    | 74.3      | 74.3      | 74.4      | 74.4      | 74.4      | 74.4    |
| GE 7000               | 73.2                        | 73.8    | 74.1    | 74.1    | 74.4    | 74.4        | 74.4    | 74.4        | 74.4        | 74.4    | 74.4      | 74.4      | 74.5      | 74.5      | 74.5      | 74.5    |
| GE 6000               | 74.2                        | 74.7    | 75.1    | 75.1    | 75.4    | 75.4        | 75.4    | 75.4        | 75.4        | 75.4    | 75.4      | 75.4      | 75.5      | 75.5      | 75.5      | 75.5    |
| GE 5000               | 75.1                        | 75.6    | 76.3    | 76.7    | 77.0    | 77.0        | 77.0    | 77.0        | 77.0        | 77.0    | 77.0      | 77.0      | 77.1      | 77.1      | 77.1      | 77.1    |
| GE 4500               | 75.9                        | 76.5    | 77.2    | 77.5    | 77.8    | 77.8        | 77.8    | 77.8        | 77.8        | 77.8    | 77.8      | 77.8      | 78.0      | 78.0      | 78.0      | 78.0    |
| GE 4000               | 79.4                        | 79.9    | 80.6    | 81.0    | 81.3    | 81.3        | 81.3    | 81.3        | 81.3        | 81.3    | 81.3      | 81.3      | 81.4      | 81.4      | 81.4      | 81.4    |
| GE 3500               | 79.8                        | 80.3    | 81.2    | 81.6    | 81.9    | 81.9        | 81.9    | 81.9        | 81.9        | 81.9    | 81.9      | 81.9      | 82.0      | 82.0      | 82.0      | 82.0    |
| GE 3000               | 81.5                        | 82.0    | 83.1    | 83.5    | 83.9    | 83.9        | 83.9    | 83.9        | 83.9        | 83.9    | 83.9      | 83.9      | 84.0      | 84.0      | 84.0      | 84.0    |
| GE 2500               | 82.8                        | 83.3    | 84.4    | 84.8    | 85.2    | 85.2        | 85.2    | 85.2        | 85.2        | 85.2    | 85.2      | 85.2      | 85.3      | 85.3      | 85.3      | 85.3    |
| GE 2000               | 83.9                        | 84.4    | 85.6    | 86.5    | 87.0    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 1800               | 83.9                        | 84.4    | 85.6    | 86.5    | 87.0    | 87.1        | 87.1    | 87.1        | 87.1        | 87.1    | 87.1      | 87.1      | 87.2      | 87.2      | 87.2      | 87.2    |
| GE 1500               | 84.2                        | 84.7    | 86.2    | 87.1    | 87.6    | 87.7        | 87.7    | 87.7        | 87.7        | 87.7    | 87.7      | 87.7      | 87.8      | 87.8      | 87.8      | 87.8    |
| GE 1200               | 85.4                        | 86.0    | 87.7    | 88.6    | 89.2    | 89.4        | 89.5    | 89.5        | 89.5        | 89.5    | 89.5      | 89.5      | 89.6      | 89.6      | 89.6      | 89.6    |
| GE 1000               | 85.6                        | 86.3    | 88.1    | 88.9    | 90.0    | 90.2        | 90.3    | 90.3        | 90.3        | 90.4    | 90.5      | 90.5      | 90.6      | 90.6      | 90.6      | 90.6    |
| GE 900                | 86.1                        | 86.9    | 88.6    | 89.5    | 90.5    | 90.8        | 90.9    | 90.9        | 90.9        | 91.0    | 91.1      | 91.1      | 91.2      | 91.2      | 91.2      | 91.2    |
| GE 800                | 86.2                        | 87.0    | 88.9    | 89.8    | 91.0    | 91.3        | 91.5    | 91.5        | 91.5        | 91.6    | 91.7      | 91.7      | 91.8      | 91.8      | 91.8      | 91.8    |
| GE 700                | 86.3                        | 87.2    | 89.1    | 90.0    | 91.2    | 91.5        | 91.7    | 91.7        | 91.7        | 91.8    | 92.0      | 92.0      | 92.2      | 92.2      | 92.2      | 92.2    |
| GE 600                | 86.3                        | 87.2    | 89.2    | 90.6    | 91.8    | 92.2        | 92.4    | 92.4        | 92.4        | 92.5    | 92.7      | 92.7      | 92.8      | 92.8      | 92.8      | 92.8    |
| GE 500                | 86.3                        | 87.3    | 89.4    | 91.3    | 92.6    | 93.0        | 93.3    | 93.5        | 93.7        | 93.8    | 94.1      | 94.1      | 94.2      | 94.2      | 94.2      | 94.2    |
| GE 400                | 86.5                        | 87.4    | 89.5    | 92.2    | 94.1    | 94.8        | 95.3    | 96.1        | 96.2        | 96.6    | 96.9      | 96.9      | 97.0      | 97.0      | 97.0      | 97.0    |
| GE 300                | 86.5                        | 87.4    | 89.5    | 92.2    | 94.4    | 95.2        | 95.6    | 97.2        | 97.4        | 98.0    | 98.3      | 98.3      | 98.4      | 98.4      | 98.4      | 98.5    |
| GE 200                | 86.5                        | 87.4    | 89.5    | 92.2    | 94.4    | 95.3        | 95.9    | 97.5        | 97.8        | 98.4    | 98.8      | 98.8      | 99.2      | 99.2      | 99.4      | 99.5    |
| GE 100                | 86.5                        | 87.4    | 89.5    | 92.2    | 94.4    | 95.3        | 95.9    | 97.5        | 97.8        | 98.5    | 98.9      | 98.9      | 99.4      | 99.4      | 99.6      | 99.7    |
| GE 000                | 86.5                        | 87.4    | 89.5    | 92.2    | 94.4    | 95.3        | 95.9    | 97.6        | 98.0        | 98.6    | 99.0      | 99.0      | 99.5      | 99.5      | 99.7      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 53.1                        | 54.3    | 55.4    | 55.8    | 56.2    | 56.2        | 56.3    | 56.3        | 56.3        | 56.4    | 56.5      | 56.5      | 56.6      | 56.6      | 56.7      | 56.7    |
| GE 20000              | 57.7                        | 59.1    | 60.3    | 60.8    | 61.1    | 61.2        | 61.3    | 61.3        | 61.4        | 61.4    | 61.5      | 61.6      | 61.7      | 61.7      | 61.8      | 61.9    |
| GE 18000              | 57.7                        | 59.2    | 60.3    | 60.8    | 61.2    | 61.3        | 61.3    | 61.4        | 61.4        | 61.5    | 61.6      | 61.6      | 61.7      | 61.8      | 61.9      | 61.9    |
| GE 16000              | 57.8                        | 59.2    | 60.3    | 60.8    | 61.2    | 61.3        | 61.4    | 61.4        | 61.4        | 61.5    | 61.6      | 61.6      | 61.8      | 61.8      | 61.9      | 62.0    |
| GE 14000              | 58.2                        | 59.7    | 60.8    | 61.3    | 61.7    | 61.7        | 61.8    | 61.9        | 61.9        | 62.0    | 62.1      | 62.1      | 62.2      | 62.3      | 62.4      | 62.4    |
| GE 12000              | 59.1                        | 60.6    | 61.8    | 62.3    | 62.7    | 62.7        | 62.8    | 62.9        | 62.9        | 63.0    | 63.1      | 63.1      | 63.3      | 63.3      | 63.4      | 63.5    |
| GE 10000              | 61.3                        | 62.8    | 64.1    | 64.6    | 65.0    | 65.1        | 65.2    | 65.3        | 65.3        | 65.4    | 65.5      | 65.6      | 65.7      | 65.7      | 65.8      | 65.9    |
| GE 9000               | 61.7                        | 63.2    | 64.4    | 65.0    | 65.4    | 65.5        | 65.5    | 65.6        | 65.6        | 65.7    | 65.9      | 65.9      | 66.0      | 66.1      | 66.2      | 66.3    |
| GE 8000               | 64.5                        | 66.0    | 67.4    | 68.0    | 68.4    | 68.5        | 68.6    | 68.6        | 68.7        | 68.8    | 68.9      | 69.0      | 69.1      | 69.1      | 69.2      | 69.3    |
| GE 7000               | 65.4                        | 67.0    | 68.4    | 69.0    | 69.5    | 69.5        | 69.6    | 69.7        | 69.8        | 69.9    | 70.0      | 70.0      | 70.2      | 70.2      | 70.3      | 70.4    |
| GE 6000               | 66.0                        | 67.7    | 69.2    | 69.8    | 70.3    | 70.4        | 70.5    | 70.6        | 70.6        | 70.7    | 70.9      | 70.9      | 71.0      | 71.1      | 71.2      | 71.3    |
| GE 5000               | 68.1                        | 69.8    | 71.5    | 72.3    | 72.9    | 73.0        | 73.1    | 73.2        | 73.2        | 73.3    | 73.5      | 73.5      | 73.6      | 73.7      | 73.8      | 73.9    |
| GE 4500               | 68.9                        | 70.6    | 72.4    | 73.1    | 73.7    | 73.8        | 74.0    | 74.1        | 74.1        | 74.2    | 74.4      | 74.4      | 74.5      | 74.6      | 74.7      | 74.7    |
| GE 4000               | 71.7                        | 73.5    | 75.3    | 76.1    | 76.8    | 76.9        | 77.1    | 77.2        | 77.2        | 77.3    | 77.5      | 77.5      | 77.6      | 77.7      | 77.8      | 77.8    |
| GE 3500               | 72.8                        | 74.7    | 76.6    | 77.5    | 78.2    | 78.3        | 78.5    | 78.6        | 78.6        | 78.7    | 78.9      | 78.9      | 79.0      | 79.1      | 79.2      | 79.3    |
| GE 3000               | 74.2                        | 76.1    | 78.1    | 79.0    | 79.8    | 80.0        | 80.1    | 80.2        | 80.3        | 80.4    | 80.6      | 80.6      | 80.7      | 80.8      | 80.9      | 81.0    |
| GE 2500               | 75.0                        | 77.0    | 79.0    | 80.0    | 80.9    | 81.1        | 81.2    | 81.4        | 81.4        | 81.6    | 81.7      | 81.7      | 81.9      | 81.9      | 82.0      | 82.1    |
| GE 2000               | 76.1                        | 78.3    | 80.5    | 81.7    | 82.7    | 83.0        | 83.2    | 83.4        | 83.4        | 83.5    | 83.7      | 83.7      | 83.9      | 83.9      | 84.0      | 84.1    |
| GE 1800               | 76.3                        | 78.4    | 80.6    | 81.9    | 82.9    | 83.2        | 83.4    | 83.6        | 83.6        | 83.8    | 83.9      | 83.9      | 84.1      | 84.1      | 84.2      | 84.3    |
| GE 1500               | 76.9                        | 79.1    | 81.5    | 82.7    | 83.9    | 84.2        | 84.4    | 84.6        | 84.6        | 84.8    | 85.0      | 85.0      | 85.1      | 85.2      | 85.3      | 85.3    |
| GE 1200               | 77.9                        | 80.3    | 83.0    | 84.5    | 85.8    | 86.1        | 86.4    | 86.5        | 86.6        | 86.7    | 86.9      | 86.9      | 87.0      | 87.1      | 87.2      | 87.3    |
| GE 1000               | 78.5                        | 80.9    | 83.7    | 85.4    | 86.8    | 87.2        | 87.5    | 87.7        | 87.8        | 87.9    | 88.2      | 88.2      | 88.3      | 88.4      | 88.5      | 88.6    |
| GE 900                | 78.8                        | 81.3    | 84.2    | 85.9    | 87.4    | 87.8        | 88.2    | 88.4        | 88.4        | 88.6    | 88.8      | 88.9      | 89.0      | 89.1      | 89.2      | 89.2    |
| GE 800                | 79.0                        | 81.5    | 84.5    | 86.5    | 88.1    | 88.5        | 89.0    | 89.2        | 89.2        | 89.4    | 89.6      | 89.7      | 89.8      | 89.8      | 89.9      | 90.0    |
| GE 700                | 79.1                        | 81.8    | 84.9    | 87.0    | 88.8    | 89.3        | 89.7    | 90.0        | 90.0        | 90.2    | 90.5      | 90.5      | 90.6      | 90.7      | 90.8      | 90.9    |
| GE 600                | 79.3                        | 82.0    | 85.3    | 87.5    | 89.6    | 90.2        | 90.8    | 91.1        | 91.2        | 91.4    | 91.6      | 91.7      | 91.8      | 91.9      | 92.0      | 92.1    |
| GE 500                | 79.3                        | 82.1    | 85.6    | 88.1    | 90.7    | 91.4        | 92.2    | 92.7        | 92.8        | 92.9    | 93.3      | 93.3      | 93.5      | 93.5      | 93.6      | 93.7    |
| GE 400                | 79.3                        | 82.2    | 85.7    | 88.4    | 91.7    | 92.6        | 93.8    | 94.7        | 94.8        | 95.2    | 95.6      | 95.7      | 95.8      | 95.9      | 96.0      | 96.2    |
| GE 300                | 79.3                        | 82.2    | 85.7    | 88.5    | 92.0    | 92.9        | 94.3    | 95.6        | 95.7        | 96.4    | 96.9      | 96.9      | 97.2      | 97.2      | 97.5      | 97.7    |
| GE 200                | 79.3                        | 82.2    | 85.7    | 88.5    | 92.1    | 93.1        | 94.6    | 95.9        | 96.1        | 96.8    | 97.5      | 97.5      | 97.9      | 97.9      | 98.5      | 98.9    |
| GE 100                | 79.3                        | 82.2    | 85.7    | 88.5    | 92.1    | 93.1        | 94.6    | 95.9        | 96.1        | 96.9    | 97.5      | 97.6      | 98.0      | 98.1      | 98.8      | 99.4    |
| GE 000                | 79.3                        | 82.2    | 85.7    | 88.5    | 92.1    | 93.1        | 94.6    | 95.9        | 96.1        | 96.9    | 97.5      | 97.6      | 98.1      | 98.2      | 98.9      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN STATUTE MILES |         |         |         |         |             |         |             |             |         |           |           |           |           |           |         |
|-----------------------|-----------------------------|---------|---------|---------|---------|-------------|---------|-------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
|                       | GE<br>7                     | GE<br>6 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 1/2 | GE<br>2 | GE<br>1 1/2 | GE<br>1 1/4 | GE<br>1 | GE<br>3/4 | GE<br>5/8 | GE<br>1/2 | GE<br>3/8 | GE<br>1/4 | GE<br>0 |
| NO CEIL               | 47.6                        | 50.8    | 53.9    | 55.7    | 56.8    | 57.0        | 57.2    | 57.3        | 57.3        | 57.4    | 57.4      | 57.4      | 57.5      | 57.5      | 57.5      | 57.6    |
| GE 20000              | 53.7                        | 57.5    | 61.2    | 63.3    | 64.5    | 64.8        | 65.0    | 65.2        | 65.2        | 65.2    | 65.3      | 65.3      | 65.4      | 65.4      | 65.4      | 65.5    |
| GE 18000              | 53.7                        | 57.6    | 61.3    | 63.3    | 64.6    | 64.9        | 65.1    | 65.2        | 65.2        | 65.3    | 65.4      | 65.4      | 65.4      | 65.5      | 65.5      | 65.6    |
| GE 16000              | 53.8                        | 57.6    | 61.3    | 63.4    | 64.7    | 64.9        | 65.2    | 65.3        | 65.3        | 65.4    | 65.4      | 65.4      | 65.5      | 65.5      | 65.6      | 65.6    |
| GE 14000              | 54.1                        | 58.0    | 61.7    | 63.8    | 65.1    | 65.4        | 65.6    | 65.7        | 65.7        | 65.8    | 65.9      | 65.9      | 65.9      | 66.0      | 66.0      | 66.1    |
| GE 12000              | 55.2                        | 59.2    | 63.0    | 65.2    | 66.5    | 66.8        | 67.0    | 67.1        | 67.1        | 67.2    | 67.3      | 67.3      | 67.4      | 67.4      | 67.4      | 67.5    |
| GE 10000              | 58.1                        | 62.4    | 66.5    | 68.9    | 70.3    | 70.6        | 70.8    | 70.9        | 71.0        | 71.0    | 71.1      | 71.1      | 71.2      | 71.2      | 71.2      | 71.3    |
| GE 9000               | 58.4                        | 62.7    | 66.9    | 69.3    | 70.7    | 71.0        | 71.2    | 71.4        | 71.4        | 71.5    | 71.5      | 71.5      | 71.6      | 71.6      | 71.7      | 71.7    |
| GE 8000               | 61.2                        | 65.8    | 70.3    | 72.8    | 74.3    | 74.6        | 74.9    | 75.0        | 75.0        | 75.1    | 75.2      | 75.2      | 75.3      | 75.3      | 75.3      | 75.4    |
| GE 7000               | 61.8                        | 66.5    | 71.0    | 73.5    | 75.1    | 75.4        | 75.7    | 75.8        | 75.8        | 75.9    | 76.0      | 76.0      | 76.0      | 76.1      | 76.1      | 76.2    |
| GE 6000               | 62.3                        | 67.0    | 71.5    | 74.1    | 75.7    | 76.0        | 76.3    | 76.4        | 76.5        | 76.5    | 76.6      | 76.6      | 76.7      | 76.7      | 76.7      | 76.8    |
| GE 5000               | 63.6                        | 68.4    | 73.1    | 75.8    | 77.4    | 77.7        | 78.0    | 78.1        | 78.2        | 78.2    | 78.3      | 78.3      | 78.4      | 78.4      | 78.5      | 78.5    |
| GE 4500               | 64.1                        | 68.9    | 73.7    | 76.3    | 78.0    | 78.3        | 78.6    | 78.8        | 78.8        | 78.9    | 78.9      | 78.9      | 79.0      | 79.0      | 79.1      | 79.1    |
| GE 4000               | 65.9                        | 71.0    | 76.0    | 78.9    | 80.7    | 81.1        | 81.4    | 81.5        | 81.6        | 81.7    | 81.7      | 81.8      | 81.8      | 81.8      | 81.8      | 81.9    |
| GE 3500               | 66.9                        | 72.1    | 77.3    | 80.2    | 82.1    | 82.5        | 82.8    | 82.9        | 83.0        | 83.0    | 83.1      | 83.1      | 83.2      | 83.2      | 83.3      | 83.3    |
| GE 3000               | 68.2                        | 73.6    | 79.0    | 82.1    | 84.0    | 84.5        | 84.8    | 85.0        | 85.0        | 85.1    | 85.2      | 85.2      | 85.3      | 85.3      | 85.3      | 85.4    |
| GE 2500               | 68.8                        | 74.3    | 79.8    | 83.0    | 85.0    | 85.5        | 85.8    | 86.0        | 86.0        | 86.1    | 86.2      | 86.2      | 86.3      | 86.3      | 86.3      | 86.4    |
| GE 2000               | 69.8                        | 75.4    | 81.1    | 84.5    | 86.6    | 87.1        | 87.5    | 87.7        | 87.7        | 87.8    | 87.9      | 87.9      | 88.0      | 88.0      | 88.0      | 88.1    |
| GE 1800               | 70.0                        | 75.6    | 81.3    | 84.7    | 86.9    | 87.4        | 87.7    | 87.9        | 88.0        | 88.1    | 88.1      | 88.1      | 88.2      | 88.3      | 88.3      | 88.4    |
| GE 1500               | 70.5                        | 76.2    | 82.0    | 85.5    | 87.8    | 88.3        | 88.7    | 88.9        | 88.9        | 89.0    | 89.1      | 89.1      | 89.2      | 89.2      | 89.3      | 89.3    |
| GE 1200               | 71.0                        | 76.9    | 82.9    | 86.6    | 89.1    | 89.6        | 90.1    | 90.3        | 90.3        | 90.4    | 90.5      | 90.5      | 90.6      | 90.6      | 90.7      | 90.7    |
| GE 1000               | 71.4                        | 77.3    | 83.6    | 87.4    | 90.1    | 90.7        | 91.1    | 91.4        | 91.4        | 91.5    | 91.6      | 91.6      | 91.7      | 91.7      | 91.8      | 91.9    |
| GE 900                | 71.5                        | 77.5    | 83.9    | 87.9    | 90.6    | 91.2        | 91.8    | 92.0        | 92.0        | 92.1    | 92.2      | 92.2      | 92.3      | 92.4      | 92.4      | 92.5    |
| GE 800                | 71.7                        | 77.7    | 84.2    | 88.4    | 91.3    | 92.0        | 92.6    | 92.8        | 92.9        | 93.0    | 93.1      | 93.1      | 93.2      | 93.2      | 93.3      | 93.3    |
| GE 700                | 71.9                        | 78.0    | 84.6    | 88.9    | 92.1    | 92.8        | 93.5    | 93.8        | 93.8        | 93.9    | 94.0      | 94.0      | 94.1      | 94.1      | 94.2      | 94.3    |
| GE 600                | 72.0                        | 78.1    | 84.9    | 89.3    | 92.9    | 93.7        | 94.4    | 94.8        | 94.8        | 95.0    | 95.1      | 95.1      | 95.2      | 95.2      | 95.3      | 95.3    |
| GE 500                | 72.0                        | 78.2    | 85.1    | 89.8    | 93.7    | 94.7        | 95.6    | 96.1        | 96.2        | 96.3    | 96.5      | 96.5      | 96.6      | 96.6      | 96.7      | 96.7    |
| GE 400                | 72.0                        | 78.2    | 85.2    | 90.0    | 94.2    | 95.3        | 96.3    | 97.1        | 97.2        | 97.4    | 97.6      | 97.6      | 97.7      | 97.7      | 97.8      | 97.9    |
| GE 300                | 72.1                        | 78.3    | 85.2    | 90.1    | 94.5    | 95.6        | 96.9    | 97.6        | 97.7        | 98.1    | 98.3      | 98.3      | 98.5      | 98.5      | 98.6      | 98.8    |
| GE 200                | 72.1                        | 78.3    | 85.2    | 90.1    | 94.5    | 95.7        | 97.0    | 97.8        | 97.9        | 98.3    | 98.6      | 98.6      | 98.9      | 99.0      | 99.2      | 99.4    |
| GE 100                | 72.1                        | 78.3    | 85.2    | 90.1    | 94.5    | 95.7        | 97.1    | 97.8        | 97.9        | 98.4    | 98.7      | 98.7      | 99.0      | 99.1      | 99.4      | 99.8    |
| GE 000                | 72.1                        | 78.3    | 85.2    | 90.1    | 94.5    | 95.7        | 97.1    | 97.8        | 97.9        | 98.4    | 98.7      | 98.7      | 99.0      | 99.1      | 99.5      | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 87667

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN HOURS: ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIPWAY CLASSES |                      | GI<br>1/2 | PARTIAL<br>OBSCURATION | TOTAL<br>OBS |
|----------------|-------|-----------|--------|----------------|----------------------|-----------|------------------------|--------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION |           |                        |              |
| 00-02          | 37.5  | 14.4      | 13.2   | 30.4           | 4.4                  | 48.1      | 1.4                    | 930          |
| 03-05          | 38.5  | 13.1      | 10.2   | 34.7           | 3.4                  | 48.4      | 3.5                    | 930          |
| 06-08          | 23.5  | 21.1      | 17.5   | 35.6           | 2.3                  | 55.4      | 3.3                    | 930          |
| 09-11          | 19.4  | 22.3      | 18.6   | 38.3           | 1.5                  | 58.4      | 3.2                    | 930          |
| 12-14          | 16.9  | 24.3      | 19.0   | 39.2           | .5                   | 58.8      | 1.6                    | 930          |
| 15-17          | 16.3  | 26.2      | 20.4   | 36.5           | .5                   | 57.4      | 1.3                    | 930          |
| 18-20          | 23.5  | 25.1      | 18.1   | 32.7           | .6                   | 51.4      | 2.3                    | 930          |
| 21-23          | 36.1  | 18.6      | 12.0   | 31.2           | 2.0                  | 45.3      | 2.2                    | 930          |
| ALL<br>HOURS   | 26.0  | 20.0      | 16.0   | 34.0           | 1.0                  | 52.0      | 2.0                    | 7440         |

MONTH: FEB HOURS: ALL

|              |      |      |      |      |     |      |     |      |
|--------------|------|------|------|------|-----|------|-----|------|
| 00-02        | 33.2 | 17.4 | 14.4 | 33.2 | 1.8 | 49.4 | 2.8 | 849  |
| 03-05        | 30.6 | 18.3 | 11.9 | 36.9 | 2.4 | 51.1 | 4.0 | 849  |
| 06-08        | 18.6 | 21.8 | 18.4 | 37.8 | 3.4 | 59.6 | 4.7 | 849  |
| 09-11        | 14.6 | 21.1 | 24.0 | 38.8 | 1.5 | 64.3 | 2.4 | 849  |
| 12-14        | 11.4 | 25.4 | 24.0 | 38.3 | .8  | 63.1 | 1.3 | 849  |
| 15-17        | 10.4 | 26.6 | 20.5 | 34.0 | .5  | 63.0 | 2.5 | 849  |
| 18-20        | 18.7 | 24.6 | 22.7 | 32.9 | 1.1 | 56.7 | 1.8 | 849  |
| 21-23        | 29.2 | 19.0 | 17.4 | 35.0 | 1.4 | 51.8 | 1.8 | 849  |
| ALL<br>HOURS | 20.8 | 21.8 | 20.2 | 35.0 | 1.6 | 57.4 | 2.7 | 6792 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR HOURS: ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                      |      | GT<br>1/2 | PARTIAL<br>OBSCURATION | TOTAL<br>OBS |
|----------------|-------|-----------|--------|----------------|----------------------|------|-----------|------------------------|--------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION |      |           |                        |              |
| 00-02          | 35.9  | 19.9      | 13.9   | 29.6           | .8                   | 44.2 | 1.4       | 930                    |              |
| 03-05          | 34.2  | 17.8      | 11.8   | 34.3           | 1.8                  | 48.0 | 2.9       | 930                    |              |
| 06-08          | 20.2  | 25.3      | 16.3   | 35.2           | 3.0                  | 54.5 | 4.4       | 930                    |              |
| 09-11          | 17.6  | 25.3      | 20.0   | 36.2           | .9                   | 57.1 | 1.7       | 930                    |              |
| 12-14          | 13.8  | 28.0      | 25.7   | 32.6           |                      | 58.3 | .3        | 930                    |              |
| 15-17          | 11.5  | 28.1      | 30.8   | 29.5           | .2                   | 60.4 | .2        | 930                    |              |
| 18-20          | 13.3  | 32.3      | 24.9   | 29.2           | .3                   | 54.4 | .4        | 928                    |              |
| 21-23          | 33.0  | 24.4      | 15.3   | 27.2           | .1                   | 42.6 | .8        | 927                    |              |
| ALL<br>HOURS   | 22.0  | 25.0      | 19.0   | 31.0           | .0                   | 52.0 | 1.0       | 7435                   |              |

MONTH: APR HOURS: ALL

|              |      |      |      |      |    |      |     |      |
|--------------|------|------|------|------|----|------|-----|------|
| 00-02        | 41.3 | 21.6 | 15.6 | 21.1 | .4 | 37.1 | .4  | 900  |
| 03-05        | 39.4 | 20.9 | 13.8 | 25.0 | .9 | 39.7 | 1.4 | 900  |
| 06-08        | 22.0 | 30.8 | 21.7 | 24.8 | .8 | 47.2 | 3.2 | 900  |
| 09-11        | 20.1 | 31.0 | 24.4 | 24.3 | .1 | 48.9 | .9  | 900  |
| 12-14        | 15.0 | 33.9 | 24.8 | 26.3 |    | 51.1 | .1  | 900  |
| 15-17        | 13.2 | 36.3 | 24.7 | 25.8 |    | 50.4 | .2  | 900  |
| 18-20        | 18.8 | 34.1 | 20.2 | 26.9 |    | 47.1 |     | 900  |
| 21-23        | 34.2 | 27.2 | 14.3 | 24.2 |    | 38.6 |     | 900  |
| ALL<br>HOURS | 25.5 | 29.5 | 19.0 | 24.8 | .3 | 45.0 | .8  | 7200 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW-afb NC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY HOURS: ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                      | GT<br>1/2 | PARTIAL<br>OBSCURATION | TTAL<br>OBS |
|----------------|-------|-----------|--------|----------------|----------------------|-----------|------------------------|-------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION |           |                        |             |
| 00-02          | 32.3  | 25.4      | 18.1   | 24.0           | .3                   | 42.4      | .5                     | 930         |
| 03-05          | 27.4  | 29.5      | 17.6   | 23.3           | 2.2                  | 43.1      | 1.6                    | 930         |
| 06-08          | 15.6  | 28.1      | 29.2   | 24.8           | 2.3                  | 56.3      | 4.3                    | 930         |
| 09-11          | 14.2  | 31.7      | 30.4   | 23.7           |                      | 54.1      | .3                     | 930         |
| 12-14          | 6.8   | 36.2      | 36.0   | 21.0           |                      | 57.0      | .1                     | 930         |
| 15-17          | 4.4   | 40.6      | 33.7   | 21.3           |                      | 54.9      | .1                     | 930         |
| 18-20          | 10.5  | 33.8      | 32.0   | 23.5           | .1                   | 55.7      |                        | 930         |
| 21-23          | 26.2  | 29.9      | 20.8   | 23.0           | .1                   | 43.9      | .2                     | 930         |
| ALL<br>HOURS   | 17.0  | 31.0      | 27.0   | 23.0           | .0                   | 50.0      | .0                     | 7440        |

MONTH: JUN HOURS: ALL

|              |      |      |      |      |     |      |     |      |
|--------------|------|------|------|------|-----|------|-----|------|
| 00-02        | 29.4 | 31.2 | 19.7 | 19.7 |     | 39.3 | 1.4 | 900  |
| 03-05        | 20.0 | 35.0 | 21.8 | 22.1 | 1.1 | 45.0 | 2.7 | 900  |
| 06-08        | 11.4 | 33.0 | 30.7 | 23.2 | 1.7 | 55.6 | 5.6 | 900  |
| 09-11        | 11.6 | 36.2 | 33.4 | 18.8 |     | 52.2 | .4  | 900  |
| 12-14        | 2.6  | 46.8 | 32.0 | 18.7 |     | 50.7 | .4  | 900  |
| 15-17        | 1.3  | 44.6 | 36.8 | 17.3 |     | 54.1 | .2  | 900  |
| 18-20        | 5.0  | 38.7 | 33.4 | 22.9 |     | 56.3 | .2  | 900  |
| 21-23        | 23.0 | 34.3 | 19.1 | 23.6 |     | 42.7 | .8  | 900  |
| ALL<br>HOURS | 13.0 | 37.5 | 28.4 | 20.8 | .3  | 49.5 | 1.5 | 7200 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 -- MAR 89  
MONTH: JUL HOURS:ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                      |           | TOTAL<br>OBS |                        |
|----------------|-------|-----------|--------|----------------|----------------------|-----------|--------------|------------------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION | G1<br>1/2 |              | PARTIAL<br>OBSCURATION |
| 00-02          | 18.8  | 38.6      | 20.6   | 21.9           |                      | 42.6      | 1.7          | 930                    |
| 03-05          | 18.2  | 34.9      | 26.8   | 18.9           | 1.2                  | 46.9      | 4.2          | 930                    |
| 06-08          | 8.5   | 33.4      | 35.7   | 20.9           | 1.5                  | 58.1      | 8.1          | 930                    |
| 09-11          | 10.3  | 37.8      | 36.0   | 15.8           |                      | 51.8      | 2.5          | 930                    |
| 12-14          | 2.4   | 42.6      | 38.4   | 16.7           |                      | 55.1      | 1.4          | 930                    |
| 15-17          | 1.0   | 38.8      | 41.6   | 18.6           |                      | 60.2      | 2.9          | 930                    |
| 18-20          | 7.1   | 27.8      | 37.8   | 27.2           |                      | 65.1      | 2.8          | 930                    |
| 21-23          | 14.7  | 35.9      | 22.9   | 26.5           |                      | 49.4      | 1.5          | 930                    |
| ALL<br>HOURS   | 10.0  | 36.0      | 32.0   | 20.0           | .0                   | 53.0      | 3.0          | 7440                   |

MONTH: AUG HOURS: ALL

|              |      |      |      |      |     |      |      |      |
|--------------|------|------|------|------|-----|------|------|------|
| 00-02        | 28.0 | 29.1 | 19.7 | 23.2 |     | 42.9 | 3.2  | 930  |
| 03-05        | 27.7 | 29.4 | 18.4 | 23.0 | 1.5 | 42.9 | 8.3  | 930  |
| 06-08        | 13.0 | 36.3 | 27.3 | 21.2 | 2.2 | 50.6 | 14.4 | 930  |
| 09-11        | 12.6 | 38.5 | 31.5 | 17.2 | .2  | 48.9 | 4.6  | 930  |
| 12-14        | 2.0  | 46.1 | 36.2 | 15.6 |     | 51.8 | 3.4  | 930  |
| 15-17        | .5   | 42.9 | 39.0 | 17.5 |     | 56.6 | 3.1  | 930  |
| 18-20        | 6.3  | 35.6 | 35.1 | 23.0 |     | 58.1 | 2.6  | 930  |
| 21-23        | 20.4 | 30.9 | 23.7 | 25.1 |     | 48.7 | 1.1  | 930  |
| ALL<br>HOURS | 13.8 | 36.1 | 28.9 | 20.7 | .5  | 50.1 | 5.1  | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP HOURS: ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                      | GT<br>1/2 | PARTIAL<br>OBSCURATION | TOTAL<br>OBS |
|----------------|-------|-----------|--------|----------------|----------------------|-----------|------------------------|--------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION |           |                        |              |
| 00-02          | 35.2  | 23.2      | 14.7   | 26.4           | .4                   | 41.6      | 1.3                    | 900          |
| 03-05          | 34.2  | 23.8      | 13.8   | 25.1           | 3.1                  | 42.0      | 5.0                    | 900          |
| 06-08          | 13.3  | 35.4      | 21.8   | 26.9           | 2.6                  | 51.2      | 10.8                   | 900          |
| 09-11          | 17.6  | 32.9      | 23.7   | 25.9           |                      | 49.6      | 1.8                    | 900          |
| 12-14          | 5.1   | 44.7      | 30.6   | 19.7           |                      | 50.2      | .6                     | 900          |
| 15-17          | 5.9   | 41.9      | 31.8   | 20.4           |                      | 52.2      | .4                     | 900          |
| 18-20          | 17.6  | 32.7      | 26.4   | 23.3           |                      | 49.8      | .8                     | 900          |
| 21-23          | 31.4  | 27.4      | 18.7   | 22.4           |                      | 41.1      | .1                     | 900          |
| ALL<br>HOURS   | 20.0  | 32.0      | 22.0   | 23.0           | .0                   | 47.0      | 2.0                    | 7200         |

MONTH: OCT HOURS: ALL

|              |      |      |      |      |     |      |     |      |
|--------------|------|------|------|------|-----|------|-----|------|
| 00-02        | 45.8 | 18.0 | 12.4 | 23.1 | .8  | 36.2 | 1.3 | 930  |
| 03-05        | 45.1 | 16.0 | 11.6 | 24.3 | 3.0 | 38.9 | 3.3 | 930  |
| 06-08        | 21.5 | 27.7 | 23.1 | 24.7 | 2.9 | 50.8 | 8.5 | 930  |
| 09-11        | 22.5 | 28.4 | 24.4 | 24.3 | .4  | 49.1 | 3.3 | 930  |
| 12-14        | 16.3 | 35.6 | 27.1 | 21.0 |     | 48.1 | .2  | 930  |
| 15-17        | 17.4 | 34.4 | 26.5 | 21.7 |     | 48.2 | .1  | 930  |
| 18-20        | 27.1 | 26.9 | 21.2 | 24.8 |     | 46.0 | .6  | 930  |
| 21-23        | 42.0 | 20.5 | 14.6 | 22.5 | .3  | 37.4 | .8  | 930  |
| ALL<br>HOURS | 29.7 | 25.9 | 20.1 | 23.3 | .9  | 44.3 | 2.3 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV HOURS: ALL

| HOURS (LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                   |      | GT 1/2 | PARTIAL OBSCURATION | TOTAL OBS |
|-------------|-------|-----------|--------|----------------|-------------------|------|--------|---------------------|-----------|
|             |       |           |        | OVERCAST       | TOTAL OBSCURATION |      |        |                     |           |
| 00-02       | 39.2  | 20.2      | 10.8   | 28.3           | 1.4               | 40.6 | 2.1    | 900                 |           |
| 03-05       | 38.3  | 16.4      | 12.6   | 29.1           | 3.6               | 45.2 | 2.9    | 900                 |           |
| 06-08       | 23.1  | 23.6      | 20.9   | 28.7           | 3.8               | 53.3 | 5.9    | 900                 |           |
| 09-11       | 19.3  | 25.0      | 23.1   | 30.7           | 1.9               | 55.7 | 3.0    | 900                 |           |
| 12-14       | 17.1  | 25.2      | 26.7   | 30.8           | .2                | 57.7 | .9     | 900                 |           |
| 15-17       | 16.7  | 28.2      | 27.3   | 27.7           | .1                | 55.1 | 1.1    | 900                 |           |
| 18-20       | 27.2  | 26.6      | 18.9   | 26.9           | .4                | 46.2 | 1.0    | 900                 |           |
| 21-23       | 37.8  | 21.1      | 14.2   | 25.7           | 1.2               | 41.1 | .8     | 900                 |           |
| ALL HOURS   | 27.0  | 23.0      | 19.0   | 28.0           | 1.0               | 49.0 | 2.0    | 7200                |           |

MONTH: DEC HOURS: ALL

|           |      |      |      |      |     |      |     |      |
|-----------|------|------|------|------|-----|------|-----|------|
| 00-02     | 38.6 | 18.4 | 15.5 | 25.8 | 1.7 | 43.0 | 2.9 | 930  |
| 03-05     | 40.6 | 14.1 | 11.7 | 29.9 | 3.7 | 45.3 | 4.5 | 930  |
| 06-08     | 24.8 | 24.2 | 16.9 | 30.0 | 4.1 | 51.0 | 6.3 | 930  |
| 09-11     | 16.0 | 26.8 | 24.6 | 30.9 | 1.7 | 57.2 | 4.1 | 930  |
| 12-14     | 12.7 | 29.0 | 28.3 | 29.8 | .2  | 58.3 | 1.6 | 930  |
| 15-17     | 11.5 | 31.6 | 27.0 | 29.8 | .1  | 56.9 | .6  | 930  |
| 18-20     | 24.2 | 27.4 | 19.2 | 28.5 | .6  | 48.4 | .6  | 930  |
| 21-23     | 38.1 | 19.5 | 14.2 | 27.3 | 1.0 | 42.5 | 1.2 | 930  |
| ALL HOURS | 25.8 | 23.9 | 19.7 | 29.0 | 1.6 | 50.3 | 2.7 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL HOURS: ALL

| HOURS<br>(LST) | CLEAR | SCATTERED | BROKEN | AIRWAY CLASSES |                      | GT<br>1/2 | PARTIAL<br>OBSCURATION | TOTAL<br>ODS |
|----------------|-------|-----------|--------|----------------|----------------------|-----------|------------------------|--------------|
|                |       |           |        | OVERCAST       | TOTAL<br>OBSCURATION |           |                        |              |
| 00-02          | 34.6  | 23.1      | 15.7   | 25.5           | 1.0                  | 42.2      | 1.7                    | 10959        |
| 03-05          | 32.9  | 22.4      | 15.2   | 27.2           | 2.3                  | 44.7      | 3.7                    | 10959        |
| 06-08          | 18.0  | 28.4      | 23.3   | 27.8           | 2.5                  | 53.6      | 6.6                    | 10959        |
| 09-11          | 16.3  | 29.8      | 26.2   | 27.0           | .7                   | 53.9      | 2.4                    | 10959        |
| 12-14          | 10.2  | 34.9      | 29.1   | 25.7           | .1                   | 55.0      | 1.0                    | 10959        |
| 15-17          | 9.2   | 35.1      | 30.7   | 25.0           | .1                   | 55.8      | 1.1                    | 10959        |
| 18-20          | 16.6  | 30.5      | 25.9   | 26.8           | .3                   | 52.9      | 1.1                    | 10957        |
| 21-23          | 30.5  | 25.8      | 17.3   | 25.9           | .5                   | 43.7      | .9                     | 10956        |
| ALL<br>HOURS   | 21.0  | 28.7      | 22.9   | 26.4           | .9                   | 50.2      | 2.3                    | 87667        |

|         |           |         |           |          |
|---------|-----------|---------|-----------|----------|
| PPPPPPP | AAAAAA    | RRRRRRR | TTTTTTTTT | EEEEEEEE |
| PPPPPPP | AAAAAAAA  | RRRRRRR | TTTTTTTTT | EEEEEEEE |
| PP PP   | AA AA     | RR RR   | TT        | EE       |
| PP PP   | AA AA     | RR RR   | TT        | EE       |
| PPPPPPP | AA AA     | RRRRRRR | TT        | EEEE     |
| PPPPPPP | AAAAAAAAA | RRRRRRR | TT        | EEEE     |
| PP      | AAAAAAAAA | RR RR   | TT        | EE       |
| PP      | AA AA     | RR RR   | TT        | EE       |
| PP      | AA AA     | RR RR   | TT        | EEEEEEEE |
| PP      | AA AA     | RR RR   | TT        | EEEEEEEE |

-PART-E

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

TEMPERATURE--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5, GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY" PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

MONTHLY TEMPERATURES.

ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. MONTHLY RECORD TEMPERATURES (MAX AND MIN) ARE GIVEN, ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

MEAN MONTHLY TEMPERATURE.

ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN. THE MEAN NUMBER OF HOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29, "ENGINEERING WEATHER DATA," AND AWP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, WET BULB TEMPERATURES ARE NOT REPORTED (MHI-1B). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCEEDING THE MEAN DRY BULB TEMPERATURES.

TEMPERATURE CONVERSIONS:  $F = 1.8C + 32$

$C = K - 273.0$  (BEFORE 5 APRIL 77)

$C = K - 273.2$  (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THESE TABLES GIVE POF OF RELATIVE HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED. THE DATA IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05-

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 105          |       |       |       |       |       | .1    | .1    |       |       |       |       |       | .0    |
| GE 100          |       |       |       |       |       | 2.8   | 2.5   | 1.4   | .1    |       |       |       | .6    |
| GE 95           |       |       |       | .1    | 1.9   | 13.7  | 16.0  | 10.8  | 3.0   | .3    |       |       | 3.8   |
| GE 90           |       |       | .1    | 2.3   | 13.1  | 40.2  | 53.1  | 45.0  | 20.9  | 1.5   |       |       | 14.7  |
| GE 85           |       |       | 2.3   | 16.0  | 39.8  | 73.3  | 85.2  | 79.8  | 51.7  | 7.5   |       |       | 29.7  |
| GE 80           | .5    | 1.3   | 9.3   | 34.6  | 69.4  | 91.3  | 96.9  | 93.6  | 74.0  | 30.2  | 5.8   | .4    | 42.4  |
| GE 75           | 4.5   | 6.8   | 22.5  | 54.0  | 86.5  | 97.9  | 99.3  | 98.6  | 88.8  | 55.3  | 19.7  | 4.8   | 53.3  |
| GE 70           | 11.6  | 17.8  | 38.9  | 73.0  | 95.8  | 99.6  | 99.9  | 99.8  | 96.4  | 75.7  | 40.0  | 13.7  | 63.5  |
| GE 65           | 22.1  | 32.0  | 56.2  | 88.7  | 98.7  | 99.9  | 100.0 | 99.9  | 99.1  | 90.7  | 59.1  | 26.8  | 72.8  |
| GE 60           | 35.6  | 47.7  | 73.6  | 95.7  | 99.5  | 100.0 |       | 100.0 | 99.9  | 96.8  | 75.2  | 41.5  | 80.4  |
| GE 55           | 51.9  | 63.0  | 85.8  | 98.8  | 100.0 |       |       |       | 100.0 | 99.2  | 87.3  | 58.6  | 87.0  |
| GE 50           | 67.6  | 77.3  | 93.1  | 99.8  |       |       |       |       |       | 99.9  | 95.7  | 75.2  | 92.3  |
| GE 45           | 81.7  | 88.1  | 97.5  | 100.0 |       |       |       |       |       | 100.0 | 98.9  | 88.8  | 96.2  |
| GE 40           | 91.4  | 95.5  | 99.4  |       |       |       |       |       |       |       | 99.8  | 96.0  | 98.5  |
| GE 35           | 96.8  | 99.3  | 99.9  |       |       |       |       |       |       |       | 99.9  | 99.0  | 99.6  |
| GE 33           | 98.3  | 99.6  | 99.9  |       |       |       |       |       |       |       | 100.0 | 99.5  | 99.8  |
| GE 30           | 99.3  | 99.9  | 99.9  |       |       |       |       |       |       |       |       | 99.7  | 99.9  |
| GE 25           | 100.0 | 100.0 | 100.0 |       |       |       |       |       |       |       |       | 100.0 | 100.0 |
| MEAN            | 55.1  | 58.5  | 65.9  | 75.1  | 82.2  | 87.8  | 89.6  | 88.5  | 83.6  | 74.8  | 66.0  | 57.3  | 73.7  |
| SD              | 11.24 | 10.95 | 10.37 | 8.72  | 6.85  | 6.13  | 5.17  | 5.39  | 7.02  | 7.64  | 9.21  | 10.41 | 14.98 |
| TOTAL OBS       | 1488  | 1356  | 1454  | 1410  | 1456  | 1410  | 1457  | 1457  | 1409  | 1457  | 1409  | 1457  | 17220 |



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 80           |       |       |       |       |       | .4    | .3    |       |       |       |       |       | .1    |
| GE 75           |       |       |       |       | .3    | 6.5   | 16.1  | 11.8  | 1.8   | .2    |       |       | 3.1   |
| GE 70           |       |       |       | .4    | 5.9   | 48.4  | 81.9  | 72.3  | 34.6  | 2.0   | .1    |       | 20.6  |
| GE 65           |       |       | .8    | 5.2   | 40.0  | 82.4  | 97.2  | 93.4  | 63.0  | 11.1  | 1.8   | .4    | 33.0  |
| GE 60           | 1.1   | 1.2   | 6.9   | 26.1  | 67.8  | 95.5  | 99.9  | 99.2  | 83.0  | 30.5  | 7.9   | 2.2   | 43.5  |
| GE 55           | 4.8   | 6.3   | 17.6  | 46.2  | 85.0  | 99.2  | 100.0 | 99.9  | 93.3  | 51.8  | 17.9  | 6.4   | 52.4  |
| GE 50           | 10.0  | 14.5  | 33.4  | 68.3  | 96.3  | 100.0 |       | 100.0 | 98.8  | 72.0  | 34.5  | 14.2  | 61.9  |
| GE 45           | 20.2  | 25.0  | 50.3  | 85.1  | 99.5  |       |       | 99.9  | 99.9  | 87.1  | 49.8  | 25.5  | 70.2  |
| GE 40           | 35.1  | 42.4  | 71.0  | 95.6  | 100.0 |       |       | 100.0 | 100.0 | 96.4  | 70.7  | 41.2  | 79.4  |
| GE 35           | 55.4  | 64.7  | 87.2  | 99.4  |       |       |       |       |       | 99.2  | 87.9  | 61.5  | 87.9  |
| GE 33           | 64.0  | 73.1  | 92.2  | 99.9  |       |       |       |       |       | 99.7  | 92.3  | 69.4  | 90.9  |
| GE 30           | 76.0  | 82.6  | 96.4  | 99.9  |       |       |       |       |       | 100.0 | 96.8  | 81.6  | 94.4  |
| GE 25           | 89.9  | 93.7  | 99.4  | 100.0 |       |       |       |       |       |       | 99.5  | 93.7  | 98.0  |
| GE 20           | 96.7  | 98.7  | 99.9  |       |       |       |       |       |       |       | 99.7  | 98.8  | 99.5  |
| GE 15           | 99.3  | 99.8  | 100.0 |       |       |       |       |       |       |       | 100.0 | 99.6  | 99.9  |
| GE 10           | 99.9  | 99.9  |       |       |       |       |       |       |       |       |       | 99.9  | 100.0 |
| GE 5            | 99.9  | 100.0 |       |       |       |       |       |       |       |       |       | 100.0 | 100.0 |
| GE 0            | 100.0 |       |       |       |       |       |       |       |       |       |       |       | 100.0 |
| MEAN            | 36.4  | 38.4  | 45.1  | 53.3  | 61.7  | 68.6  | 71.7  | 70.8  | 65.7  | 54.5  | 45.2  | 38.2  | 54.2  |
| SD              | 9.75  | 9.51  | 9.17  | 7.78  | 6.06  | 4.64  | 3.16  | 3.63  | 6.18  | 8.25  | 9.40  | 9.84  | 14.92 |
| TOTAL OBS       | 1488  | 1356  | 1454  | 1410  | 1456  | 1410  | 1457  | 1457  | 1409  | 1457  | 1409  | 1457  | 17220 |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | AP    | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 90           |       |       |       |       |       | 1.1   | 1.0   | .3    |       |       |       |       | .2    |
| GE 85           |       |       |       |       | .4    | 9.2   | 14.9  | 10.2  | 1.2   | .3    |       |       | 3.0   |
| GE 80           |       |       |       | .7    | 7.8   | 42.6  | 66.6  | 58.5  | 25.1  | 1.0   |       |       | 16.9  |
| GE 75           |       |       | .6    | 8.4   | 38.7  | 79.4  | 94.9  | 90.0  | 58.4  | 7.5   | .8    | .1    | 31.6  |
| GE 70           | .2    | .7    | 6.9   | 29.5  | 70.7  | 96.2  | 99.5  | 98.8  | 80.2  | 28.1  | 5.2   | .9    | 43.1  |
| GE 65           | 3.9   | 5.2   | 18.4  | 51.8  | 88.1  | 99.3  | 100.0 | 99.8  | 92.8  | 53.7  | 16.3  | 4.8   | 52.9  |
| GE 60           | 10.1  | 15.1  | 34.9  | 72.2  | 97.5  | 99.9  |       | 99.9  | 98.5  | 77.2  | 35.8  | 13.5  | 62.9  |
| GE 55           | 18.8  | 27.6  | 54.5  | 89.0  | 99.6  | 100.0 |       | 100.0 | 99.9  | 91.4  | 55.1  | 24.0  | 71.7  |
| GE 50           | 34.7  | 44.2  | 73.7  | 97.2  | 100.0 |       |       |       | 100.0 | 97.8  | 75.2  | 41.1  | 80.3  |
| GE 45           | 53.2  | 65.8  | 88.5  | 99.6  |       |       |       |       |       | 99.7  | 90.4  | 61.8  | 88.2  |
| GE 40           | 74.1  | 82.2  | 95.9  | 100.0 |       |       |       |       |       | 100.0 | 97.8  | 81.7  | 94.3  |
| GE 35           | 88.5  | 93.5  | 99.1  |       |       |       |       |       |       |       | 99.4  | 92.9  | 97.8  |
| GE 33           | 91.6  | 96.4  | 99.5  |       |       |       |       |       |       |       | 99.7  | 95.9  | 98.6  |
| GE 30           | 95.8  | 98.7  | 99.9  |       |       |       |       |       |       |       | 99.9  | 98.4  | 99.4  |
| GE 25           | 99.2  | 99.7  | 100.0 |       |       |       |       |       |       |       | 100.0 | 99.6  | 99.9  |
| GE 20           | 99.8  | 100.0 |       |       |       |       |       |       |       |       |       | 99.9  | 100.0 |
| GE 15           | 100.0 |       |       |       |       |       |       |       |       |       |       | 100.0 | 100.0 |
| MEAN            | 45.9  | 48.6  | 55.7  | 64.4  | 72.2  | 78.4  | 80.9  | 79.8  | 74.8  | 64.9  | 55.8  | 47.9  | 64.1  |
| SD              | 9.79  | 9.47  | 9.10  | 7.60  | 5.80  | 4.85  | 3.70  | 4.05  | 6.07  | 7.19  | 8.58  | 9.47  | 14.59 |
| TOTAL OBS.      | 1488  | 1356  | 1454  | 1410  | 1456  | 1410  | 1457  | 1457  | 1409  | 1457  | 1409  | 1457  | 17220 |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 42   | 76  | 69  | 82  | 89  | 89  | 98  | 100 | 100 | 96  | 86  | 82  | 74  | 100    |
| 43   | 79  | 77  | 82  | 91  | 93  | 98  | 99  | 100 | 95  | 90  | 82  | 80  | 100    |
| 44   | 81  | 81  | 88  | 88  | 96  | 102 | 98  | 97  | 100 | 89  | 77  | 70  | 102*   |
| 45   | 65  | 80  | 89  | 87  | 95  | 100 | 99  | 94  | 93  | 85  | 83  | 64  | 100    |
| 46   | 76  | 73  | 82  | 92  | 90  | 97  | 99  | 97  | 91  | 84  | 84  | 78  | 99     |
| 47   | 77  | 74  | 76  | 88  | 94  | 102 | 94  | 96  | 97  | 88  | 72  | 72  | 102    |
| 48   | 77  | 81  | 87  | 89  | 94  | 101 | 98  | 99  | 92  | 80  | 83  | 76  | 101    |
| 49   | 81  | 80  | 86  | 85  | 93  | 97  | 100 | 95  | 94  | 86  | 78  | 77  | 100    |
| 50   | 80  | 79  | 85  | 88  | 94  | 102 | 96  | 96  | 92  | 85  | 85  | 72  | 102    |
| 51   | 74  | 80  | 84  | 89  | 95  | 100 | 97  | 98  | 93  | 94  | 78  | 78  | 100    |
| 52   | 81  | 75  | 81  | 88  | 94  | 103 | 103 | 96  | 94  | 88  | 80  | 73  | 103    |
| 53   | 73  | 73  | 81  | 89  | 99  | 99  | 102 | 100 | 93  | 87  | 81  | 74  | 102    |
| 54   | 74  | 77  | 85  | 89  | 91  | 102 | 101 | 102 | 101 | 99  | 75  | 76  | 102    |
| 55   | 77  | 77  | 87  | 89  | 94  | 94  | 97  | 96  | 94  | 87  | 83  | 80  | 97     |
| 56   | 70  | 82  | 84  | 87  | 95  | 100 | 98  | 99  | 97  | 87  | 81  | 79  | 100    |
| 57   | 78  | 81  | 78  | 90  | 91  | 96  | 98  | 98  | 98  | 79  | 81  | 72  | 98     |
| 58   | 63  | 76  | 74  | 90  | 90  | 100 | 96  | 97  | 96  | 87  | 86  | 70  | 100    |
| 59   | 75  | 77  | 82  | 89  | 95  | 104 | 94  | 97  | 93  | 88  | 81  | 71  | 104    |
| 60   | 75  | 70  | 78  | 92  | 96  | 97  | 98  | 95  | 94  | 87  | 79  | 72  | 98     |
| 61   | 68  | 76  | 81  | 85  | 88  | 94  | 96  | 96  | 94  | 88  | 88  | 73  | 96     |
| 62   | 77  | 82  | 81  | 90  | 96  | 90  | 96  | 92  | 93  | 89  | 77  | 70  | 96     |
| 63   | 72  | 68  | 87  | 90  | 93  | 103 | 96  | 98  | 93  | 86  | 75  | 64  | 103    |
| 64   | 67  | 64  | 80  | 89  | 97  | 98  | 91  | 94  | 90  | 84  | 82  | 75  | 98     |
| 65   | 76  | 79  | 80  | 89  | 90  | 93  | 93  | 94  | 89  | 84  | 76  | 72  | 94     |
| 66   | 75  | 68  | 83  | 88  | 87  | 94  | 100 | 93  | 94  | 86  | 80  | 77  | 100    |
| 67   | 76  | 75  | 86  | 93  | 94  | 94  | 92  | 94  | 88  | 88  | 77  | 79  | 94     |
| 68   | 73  | 65  | 84  | 92  | 88  | 94  | 97  | 101 | 94  | 91  | 82  | 72  | 101    |
| 69   | 72  | 72  | 81  | 86  | 91  | 96  | 97  | 93  | 90  | 87  | 76  | 73  | 97     |
| 70   | 79  | 76  | 82  | 95  | 97  | 106 | 101 | 101 | 95  | 87  | 78  | 78  | 106    |
| 71   | 72  | 77  | 79  | 89  | 89  | 94  | 95  | 93  | 92  | 88  | 83  | 82  | 95     |
| 72   | 76  | 81  | 82  | 92  | 86  | 95  | 95  | 94  | 93  | 87  | 83  | 78  | 95     |
| 73   | 72  | 72  | 85  | 83  | 91  | 95  | 97  | 96  | 94  | 92  | 84  | 77  | 97     |
| 74   | 79  | 79  | 90  | 90  | 92  | 97  | 93  | 92  | 90  | 82  | 83  | 71  | 97     |
| 75   | 81  | 79  | 80  | 90  | 91  | 91  | 93  | 101 | 93  | 83  | 80  | 74  | 101    |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 76   | 74  | 80  | 88  | 91  | 88  | 93  | 96  | 94  | 90  | 86  | 74  | 65  | 96     |
| 77   | 56  | 80  | 84  | 86  | 94  | 100 | 105 | 95  | 93  | 89  | 82  | 77  | 105    |
| 78   | 73  | 72  | 81  | 90  | 94  | 102 | 98  | 96  | 96  | 85  | 80  | 81  | 102    |
| 79   | 75  | 75  | 79  | 83  | 87  | 92  | 96  | 95  | 88  | 84  | 81  | 74  | 96     |
| 80   | 65  | 76  | 76  | 92  | 89  | 96  | 101 | 104 | 98  | 85  | 79  | 74  | 104    |
| 81   | 68  | 77  | 84  | 92  | 93  | 101 | 98  | 93  | 91  | 90  | 76  | 74  | 101    |
| 82   | 74  | 79  | 86  | 80  | 92  | 92  | 93  | 95  | 89  | 83  | 78  | 77  | 95     |
| 83   | 63  | 70  | 76  | 82  | 90  | 94  | 104 | 103 | 96  | 86  | 75  | 74  | 104    |
| 84   | 68  | 77  | 83  | 87  | 91  | 99  | 94  | 92  | 95  | 86  | 79  | 79  | 99     |
| 85   | 77  | 77  | 87  | 90  | 91  | 97  | 95  | 90  | 91  | 86  | 81  | 73  | 97     |
| 86   | 72  | 77  | 85  | 94  | 95  | 96  | 104 | 94  | 95  | 95  | 83  | 78  | 104    |
| 87   | 72  | 73  | 77  | 91  | 91  | 94  | 100 | 101 | 90  | 78  | 79  | 74  | 101    |
| 88   | 69  | 72  | 78  | 89  | 89  | 97  | 98  | 98  | 90  | 83  | 79  | 73  | 98     |
| 89   | 71  | 81  | 83  |     |     |     |     |     |     |     |     |     | 83*    |

GREATEST 81 82 90 95 99 106 105 104 101 99 88 82 106

TOTAL OBS 1488 1356 1454 1410 1456 1410 1457 1457 1409 1457 1409 1457 17220

THE GREATEST VALUE OF 106 OCCURRED ON 06/19/70

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAIRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

SATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 42   | 17  | 22  | 33  | 37  | 53  | 63  | 70  | 56  | 46  | 40  | 31  | 20  | 17     |
| 43   | 25  | 20  | 24  | 33  | 49  | 68  | 63  | 63  | 51  | 36  | 31  | 14  | 14     |
| 44   | 23  | 21  |     | 35  | 47  | 65  | 62  | 60  | 59  | 40  | 35  | 23  | 21*    |
| 45   | 26  | 21  | 42  | 40  | 46  | 57  | 69  | 62  | 65  | 41  | 26  | 20  | 20     |
| 46   | 21  | 32  | 38  | 40  | 52  | 51  | 59  | 59  | 57  | 44  | 36  | 23  | 21     |
| 47   | 26  | 17  | 25  | 46  | 47  | 54  | 60  | 67  | 44  | 44  | 31  | 26  | 17     |
| 48   | 16  | 22  | 30  | 45  | 50  | 58  | 67  | 62  | 54  | 37  | 39  | 21  | 16     |
| 49   | 29  | 33  | 27  | 35  | 53  | 60  | 67  | 65  | 48  | 51  | 31  | 29  | 27     |
| 50   | 32  | 31  | 29  | 32  | 51  | 59  | 65  | 64  | 45  | 50  | 16  | 22  | 16     |
| 51   | 24  | 19  | 31  | 42  | 52  | 64  | 61  | 65  | 57  | 49  | 25  | 20  | 19     |
| 52   | 23  | 29  | 32  | 39  | 49  | 65  | 64  | 60  | 57  | 35  | 34  | 25  | 23     |
| 53   | 30  | 31  | 35  | 37  | 59  | 59  | 64  | 63  | 51  | 44  | 30  | 20  | 20     |
| 54   | 22  | 28  | 27  | 45  | 49  | 55  | 67  | 68  | 58  | 38  | 28  | 24  | 22     |
| 55   | 27  | 19  | 22  | 43  | 54  | 59  | 65  | 68  | 62  | 42  | 24  | 21  | 19     |
| 56   | 26  | 33  | 32  | 39  | 44  | 55  | 69  | 63  | 51  | 44  | 25  | 30  | 25     |
| 57   | 22  | 31  | 30  | 43  | 44  | 63  | 68  | 60  | 52  | 33  | 30  | 14  | 14     |
| 58   | 18  | 9   | 32  | 42  | 47  | 61  | 64  | 65  | 52  | 41  | 33  | 15  | 9      |
| 59   | 15  | 20  | 35  | 39  | 52  | 62  | 66  | 69  | 53  | 41  | 23  | 28  | 15     |
| 60   | 20  | 26  | 20  | 40  | 46  | 60  | 65  | 66  | 58  | 41  | 32  | 20  | 20     |
| 61   | 17  | 25  | 34  | 37  | 47  | 58  | 66  | 62  | 54  | 35  | 28  | 20  | 17     |
| 62   | 18  | 25  | 30  | 34  | 52  | 62  | 63  | 64  | 47  | 30  | 31  | 8   | 8      |
| 63   | 16  | 18  | 33  | 40  | 40  | 61  | 60  | 63  | 49  | 34  | 28  | 16  | 16     |
| 64   | 17  | 25  | 28  | 39  | 51  | 63  | 62  | 62  | 52  | 38  | 28  | 21  | 17     |
| 65   | 24  | 26  | 27  | 40  | 55  | 59  | 65  | 58  | 57  | 32  | 32  | 24  | 24     |
| 66   | 10  | 21  | 27  | 38  | 43  | 50  | 61  | 60  | 53  | 42  | 30  | 22  | 10     |
| 67   | 25  | 15  | 26  | 44  | 46  | 55  | 62  | 63  | 45  | 40  | 26  | 24  | 15     |
| 68   | 20  | 20  | 26  | 41  | 47  | 58  | 64  | 59  | 57  | 37  | 30  | 21  | 20     |
| 69   | 19  | 25  | 25  | 40  | 47  | 62  | 70  | 60  | 54  | 34  | 22  | 25  | 19     |
| 70   | 8   | 19  | 29  | 42  | 50  | 62  | 67  | 67  | 50  | 36  | 17  | 23  | 8      |
| 71   | 17  | 20  | 29  | 38  | 46  | 60  | 67  | 69  | 61  | 48  | 32  | 30  | 17     |
| 72   | 16  | 25  | 33  | 34  | 52  | 53  | 66  | 67  | 55  | 33  | 28  | 23  | 16     |
| 73   | 23  | 14  | 34  | 37  | 51  | 65  | 72  | 68  | 65  | 43  | 30  | 21  | 14     |
| 74   | 30  | 22  | 35  | 37  | 52  | 60  | 62  | 66  | 49  | 32  | 27  | 23  | 22     |
| 75   | 25  | 28  | 24  | 37  | 56  | 64  | 66  | 67  | 53  | 37  | 30  | 19  | 19     |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 76   | 13  | 28  | 34  | 36  | 47  | 54  | 66  | 58  | 54  | 30  | 25  | 17  | 13     |
| 77   | 13  | 18  | 35  | 40  | 44  | 52  | 67  | 66  | 59  | 40  | 27  | 22  | 13     |
| 78   | 19  | 19  | 26  | 43  | 47  | 62  | 67  | 65  | 57  | 40  | 38  | 28  | 19     |
| 79   | 21  | 21  | 32  | 44  | 49  | 59  | 61  | 58  | 59  | 39  | 27  | 26  | 21     |
| 80   | 28  | 22  | 16  | 39  | 43  | 58  | 65  | 64  | 57  | 40  | 33  | 22  | 16     |
| 81   | 17  | 23  | 31  | 42  | 49  | 58  | 66  | 64  | 50  | 36  | 27  | 19  | 17     |
| 82   | 11  | 31  | 30  | 33  | 47  | 59  | 65  | 60  | 51  | 41  | 33  | 26  | 11     |
| 83   | 19  | 28  | 33  | 29  | 49  | 52  | 63  | 61  | 48  | 40  | 31  | 11  | 11     |
| 84   | 20  | 24  | 28  | 38  | 47  | 54  | 65  | 63  | 48  | 45  | 28  | 24  | 20     |
| 85   | 3   | 21  | 29  | 34  | 48  | 55  | 65  | 60  | 46  | 48  | 37  | 16  | 3      |
| 86   | 13  | 24  | 30  | 39  | 48  | 62  | 66  | 53  | 56  | 42  | 30  | 29  | 13     |
| 87   | 26  | 23  | 29  | 34  | 48  | 61  | 63  | 66  | 54  | 34  | 28  | 26  | 23     |
| 88   | 19  | 18  | 29  | 39  | 46  | 52  | 57  | 67  | 58  | 34  | 30  | 20  | 18     |
| 89   | 29  | 21  | 31  |     |     |     |     |     |     |     |     |     | 21*    |

| LEAST     | 3    | 9    | 16   | 29   | 40   | 50   | 57   | 53   | 44   | 30   | 16   | 8    | 3     |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| TOTAL OBS | 1488 | 1356 | 1454 | 1410 | 1456 | 1410 | 1457 | 1457 | 1409 | 1457 | 1409 | 1457 | 17220 |

THE LEAST VALUE OF 3 OCCURRED ON 01/21/85

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
 USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT  
 FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
 MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 42   | 46  | 43  | 55  | 66  | 73  | 80  | 83  | 79  | 77  | 67  | 58  | 46  | 65     |
| 43   | 48  | 51  | 54  | 63  | 74  | 82  | 81  | 82  | 73  | 64  | 54  | 47  | 65     |
| 44   | 47  | 53  | 64  | 64  | 75  | 83  | 79  | 79  | 77  | 65  | 54  | 43  | 65*    |
| 45   | 46  | 51  | 65  | 68  | 69  | 80  | 80  | 79  | 77  | 64  | 57  | 42  | 65     |
| 46   | 48  | 51  | 62  | 65  | 71  | 78  | 80  | 78  | 74  | 66  | 60  | 52  | 65     |
| 47   | 51  | 42  | 47  | 66  | 73  | 77  | 78  | 80  | 75  | 69  | 52  | 47  | 63     |
| 48   | 40  | 48  | 58  | 66  | 73  | 80  | 82  | 79  | 72  | 61  | 59  | 51  | 64     |
| 49   | 56  | 55  | 56  | 62  | 73  | 78  | 82  | 80  | 73  | 69  | 54  | 50  | 66     |
| 50   | 58  | 53  | 53  | 62  | 73  | 79  | 78  | 78  | 72  | 67  | 52  | 42  | 64     |
| 51   | 47  | 50  | 56  | 63  | 71  | 80  | 81  | 82  | 76  | 68  | 52  | 51  | 65     |
| 52   | 53  | 51  | 56  | 63  | 75  | 84  | 82  | 80  | 74  | 62  | 57  | 47  | 65     |
| 53   | 52  | 52  | 58  | 64  | 78  | 80  | 82  | 81  | 75  | 67  | 55  | 49  | 66     |
| 54   | 49  | 54  | 56  | 68  | 73  | 80  | 84  | 84  | 79  | 68  | 53  | 46  | 66     |
| 55   | 46  | 50  | 59  | 68  | 75  | 76  | 82  | 82  | 76  | 65  | 54  | 45  | 65     |
| 56   | 45  | 54  | 56  | 63  | 73  | 79  | 82  | 81  | 73  | 67  | 55  | 58  | 66     |
| 57   | 49  | 56  | 55  | 67  | 73  | 80  | 81  | 80  | 77  | 61  | 58  | 50  | 65     |
| 58   | 41  | 42  | 51  | 64  | 73  | 78  | 82  | 81  | 76  | 63  | 60  | 44  | 63     |
| 59   | 46  | 51  | 54  | 66  | 75  | 80  | 80  | 82  | 76  | 67  | 56  | 49  | 65     |
| 60   | 47  | 47  | 45  | 67  | 72  | 79  | 81  | 81  | 76  | 68  | 57  | 43  | 64     |
| 61   | 44  | 51  | 58  | 58  | 69  | 77  | 81  | 79  | 77  | 65  | 59  | 48  | 64     |
| 62   | 45  | 52  | 52  | 61  | 77  | 76  | 80  | 79  | 73  | 66  | 53  | 43  | 63     |
| 63   | 42  | 42  | 59  | 65  | 70  | 79  | 80  | 80  | 71  | 64  | 55  | 39  | 62     |
| 64   | 44  | 45  | 55  | 64  | 72  | 80  | 78  | 78  | 74  | 61  | 60  | 51  | 63     |
| 65   | 48  | 51  | 53  | 65  | 76  | 75  | 79  | 80  | 75  | 63  | 56  | 48  | 64     |
| 66   | 40  | 47  | 53  | 63  | 70  | 75  | 81  | 79  | 74  | 64  | 54  | 47  | 62     |
| 67   | 49  | 46  | 59  | 67  | 70  | 75  | 79  | 79  | 70  | 64  | 53  | 51  | 64     |
| 68   | 40  | 41  | 55  | 64  | 70  | 77  | 80  | 82  | 76  | 67  | 55  | 45  | 63     |
| 69   | 44  | 45  | 52  | 65  | 72  | 80  | 82  | 77  | 73  | 66  | 53  | 46  | 63     |
| 70   | 41  | 49  | 58  | 69  | 75  | 81  | 83  | 81  | 78  | 66  | 53  | 50  | 65     |
| 71   | 46  | 49  | 52  | 64  | 69  | 78  | 81  | 81  | 78  | 71  | 56  | 59  | 65     |
| 72   | 53  | 46  | 57  | 65  | 70  | 76  | 80  | 78  | 75  | 64  | 55  | 54  | 64     |
| 73   | 48  | 45  | 60  | 62  | 71  | 79  | 84  | 82  | 80  | 70  | 61  | 49  | 66     |
| 74   | 58  | 51  | 61  | 65  | 74  | 76  | 79  | 78  | 72  | 61  | 54  | 47  | 65     |
| 75   | 51  | 52  | 54  | 63  | 73  | 77  | 79  | 82  | 75  | 66  | 57  | 46  | 65     |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +05

PERIOD OF RECORD: 4201-8903  
MONTH: ALL HOURS: ALL

| YEAR      | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 76        | 43   | 57   | 62   | 66   | 70   | 76   | 81   | 78   | 74   | 61   | 50   | 44   | 64     |
| 77        | 35   | 47   | 60   | 67   | 75   | 81   | 85   | 81   | 79   | 64   | 60   | 49   | 65     |
| 78        | 41   | 41   | 54   | 67   | 72   | 80   | 82   | 81   | 77   | 64   | 61   | 50   | 64     |
| 79        | 43   | 44   | 57   | 65   | 71   | 75   | 79   | 79   | 73   | 63   | 57   | 47   | 63     |
| 80        | 47   | 44   | 53   | 64   | 71   | 76   | 82   | 82   | 78   | 62   | 54   | 47   | 63     |
| 81        | 41   | 50   | 54   | 68   | 70   | 82   | 82   | 78   | 73   | 62   | 54   | 45   | 63     |
| 82        | 41   | 50   | 57   | 60   | 72   | 76   | 79   | 77   | 72   | 63   | 56   | 53   | 63     |
| 83        | 43   | 47   | 55   | 59   | 70   | 76   | 82   | 82   | 74   | 65   | 54   | 45   | 63     |
| 84        | 44   | 51   | 55   | 61   | 70   | 78   | 78   | 78   | 71   | 70   | 52   | 55   | 64     |
| 85        | 41   | 47   | 56   | 66   | 72   | 77   | 79   | 76   | 71   | 68   | 64   | 45   | 64     |
| 86        | 43   | 52   | 56   | 66   | 73   | 80   | 85   | 77   | 77   | 67   | 60   | 49   | 66     |
| 87        | 45   | 46   | 53   | 61   | 73   | 77   | 81   | 82   | 75   | 58   | 55   | 49   | 63     |
| 88        | 39   | 44   | 54   | 62   | 69   | 75   | 80   | 81   | 74   | 58   | 55   | 46   | 62     |
| 89        | 50   | 50   | 55   |      |      |      |      |      |      |      |      |      | 52*    |
| MEAN      | 45.9 | 48.6 | 55.7 | 64.4 | 72.2 | 78.4 | 80.9 | 79.8 | 74.8 | 64.9 | 55.8 | 47.9 | 64.1   |
| TOTAL OBS | 1488 | 1356 | 1454 | 1410 | 1456 | 1410 | 1457 | 1457 | 1409 | 1457 | 1409 | 1457 | 17220  |

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 40.0 | 9.002                 | 930          | 0  | 198   | 0     | 0     | 0     | 930            |
| 03-05        | 38.3 | 9.157                 | 930          | 0  | 247   | 0     | 0     | 0     | 930            |
| 06-08        | 37.3 | 9.517                 | 930          | 0  | 295   | 3     | 0     | 0     | 930            |
| 09-11        | 42.7 | 9.197                 | 930          | 0  | 120   | 11    | 0     | 0     | 930            |
| 12-14        | 48.7 | 9.909                 | 930          | 0  | 50    | 52    | 0     | 0     | 930            |
| 15-17        | 50.4 | 9.927                 | 930          | 0  | 39    | 68    | 0     | 0     | 930            |
| 18-20        | 45.2 | 9.013                 | 930          | 0  | 82    | 14    | 0     | 0     | 930            |
| 21-23        | 41.9 | 8.909                 | 930          | 0  | 141   | 3     | 0     | 0     | 930            |
| ALL<br>HOURS | 43.1 | 10.285                | 7440         | 0  | 1172  | 151   | 0     | 0     | 7440           |

MONTH: FEB

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 43.8 | 9.678                 | 849          | 0  | 110   | 9     | 0     | 0     | 849            |
| 03-05        | 42.0 | 9.753                 | 849          | 0  | 147   | 4     | 0     | 0     | 849            |
| 06-08        | 41.1 | 10.010                | 849          | 0  | 187   | 2     | 0     | 0     | 849            |
| 09-11        | 47.4 | 10.181                | 849          | 0  | 50    | 39    | 0     | 0     | 849            |
| 12-14        | 53.7 | 11.375                | 849          | 0  | 5     | 174   | 3     | 0     | 849            |
| 15-7         | 55.8 | 11.329                | 848          | 0  | 4     | 233   | 4     | 0     | 848            |
| 18-20        | 50.7 | 10.174                | 849          | 0  | 16    | 86    | 0     | 0     | 849            |
| 21-23        | 46.3 | 9.598                 | 849          | 0  | 63    | 19    | 0     | 0     | 849            |
| ALL<br>HOURS | 47.6 | 11.466                | 6791         | 0  | 582   | 566   | 7     | 0     | 6791           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 49.7 | 8.931                 | 930          | 0  | 18    | 24    | 0     | 0     | 930            |
| 03-05        | 47.6 | 9.297                 | 930          | 0  | 43    | 25    | 0     | 0     | 930            |
| 06-08        | 47.3 | 9.419                 | 930          | 0  | 52    | 24    | 0     | 0     | 930            |
| 09-11        | 55.0 | 9.974                 | 930          | 0  | 11    | 166   | 1     | 0     | 930            |
| 12-14        | 61.3 | 10.742                | 930          | 0  | 7     | 373   | 30    | 0     | 930            |
| 15-17        | 63.5 | 10.582                | 930          | 0  | 6     | 475   | 42    | 0     | 930            |
| 18-20        | 58.4 | 9.643                 | 928          | 0  | 6     | 267   | 6     | 0     | 928            |
| 21-23        | 52.8 | 8.844                 | 927          | 0  | 10    | 74    | 0     | 0     | 927            |
| ALL<br>HOURS | 54.5 | 11.272                | 7435         | 0  | 153   | 1428  | 79    | 0     | 7435           |

MONTH: APR

|              |      |        |      |   |   |      |     |   |      |
|--------------|------|--------|------|---|---|------|-----|---|------|
| 00-02        | 57.1 | 7.458  | 900  | 0 | 0 | 159  | 0   | 0 | 900  |
| 03-05        | 54.6 | 7.706  | 900  | 0 | 3 | 79   | 0   | 0 | 900  |
| 06-08        | 55.8 | 7.916  | 900  | 0 | 0 | 131  | 0   | 0 | 900  |
| 09-11        | 65.1 | 8.197  | 900  | 0 | 0 | 486  | 38  | 0 | 900  |
| 12-14        | 70.9 | 8.957  | 900  | 0 | 0 | 689  | 160 | 0 | 900  |
| 15-17        | 72.2 | 8.997  | 900  | 0 | 0 | 735  | 201 | 1 | 900  |
| 18-20        | 67.0 | 8.320  | 900  | 0 | 0 | 556  | 64  | 0 | 900  |
| 21-23        | 60.6 | 7.487  | 900  | 0 | 0 | 294  | 1   | 0 | 900  |
| ALL<br>HOURS | 62.9 | 10.411 | 7200 | 0 | 3 | 3129 | 464 | 1 | 7200 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAY

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 64.4 | 5.684                 | 930          | 0  | 0     | 524   | 0     | 0     | 930            |
| 03-05        | 62.2 | 5.861                 | 930          | 0  | 0     | 398   | 0     | 0     | 930            |
| 06-08        | 64.5 | 6.072                 | 930          | 0  | 0     | 523   | 1     | 0     | 930            |
| 09-11        | 73.4 | 6.036                 | 930          | 0  | 0     | 851   | 148   | 0     | 930            |
| 12-14        | 78.6 | 6.398                 | 930          | 0  | 0     | 915   | 466   | 3     | 930            |
| 15-17        | 79.2 | 6.601                 | 930          | 0  | 0     | 917   | 497   | 1     | 930            |
| 18-20        | 74.3 | 6.362                 | 930          | 0  | 0     | 871   | 197   | 0     | 930            |
| 21-23        | 67.9 | 5.684                 | 930          | 0  | 0     | 679   | 5     | 0     | 930            |
| ALL<br>HOURS | 70.6 | 8.712                 | 7440         | 0  | 0     | 5678  | 1314  | 4     | 7440           |

MONTH: JUN

|              |      |       |      |   |   |      |      |     |      |
|--------------|------|-------|------|---|---|------|------|-----|------|
| 00-02        | 70.9 | 4.901 | 900  | 0 | 0 | 817  | 41   | 0   | 900  |
| 03-05        | 68.9 | 4.882 | 900  | 0 | 0 | 746  | 7    | 0   | 900  |
| 06-08        | 71.3 | 4.968 | 900  | 0 | 0 | 819  | 36   | 0   | 900  |
| 09-11        | 79.2 | 5.437 | 900  | 0 | 0 | 892  | 432  | 6   | 900  |
| 12-14        | 84.2 | 6.044 | 900  | 0 | 0 | 894  | 730  | 64  | 900  |
| 15-17        | 84.7 | 6.521 | 900  | 0 | 0 | 900  | 715  | 99  | 900  |
| 18-20        | 80.1 | 6.180 | 900  | 0 | 0 | 897  | 501  | 17  | 900  |
| 21-23        | 74.0 | 4.978 | 900  | 0 | 0 | 870  | 117  | 0   | 900  |
| ALL<br>HOURS | 76.7 | 8.026 | 7200 | 0 | 0 | 6835 | 2579 | 186 | 7200 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 73.8 | 3.937                 | 930          | 0  | 0     | 920   | 74    | 0     | 930            |
| 03-05        | 72.3 | 3.645                 | 930          | 0  | 0     | 912   | 23    | 0     | 930            |
| 06-08        | 74.1 | 4.068                 | 930          | 0  | 0     | 922   | 92    | 0     | 930            |
| 09-11        | 81.9 | 5.321                 | 930          | 0  | 0     | 930   | 646   | 21    | 930            |
| 12-14        | 86.8 | 6.026                 | 930          | 0  | 0     | 930   | 819   | 138   | 930            |
| 15-17        | 86.7 | 6.516                 | 930          | 0  | 0     | 930   | 812   | 160   | 930            |
| 18-20        | 81.7 | 6.158                 | 930          | 0  | 0     | 927   | 584   | 35    | 930            |
| 21-23        | 76.4 | 4.549                 | 930          | 0  | 0     | 927   | 227   | 0     | 930            |
| ALL<br>HOURS | 79.2 | 7.462                 | 7440         | 0  | 0     | 7398  | 3277  | 354   | 7440           |

MONTH: AUG

|              |      |       |      |   |   |      |      |     |      |
|--------------|------|-------|------|---|---|------|------|-----|------|
| 00-02        | 73.0 | 3.829 | 930  | 0 | 0 | 899  | 31   | 0   | 930  |
| 03-05        | 71.6 | 3.701 | 930  | 0 | 0 | 880  | 1    | 0   | 930  |
| 06-08        | 72.7 | 4.220 | 930  | 0 | 0 | 893  | 39   | 0   | 930  |
| 09-11        | 80.4 | 5.480 | 930  | 0 | 0 | 921  | 555  | 10  | 930  |
| 12-14        | 85.4 | 6.186 | 930  | 0 | 0 | 924  | 787  | 103 | 930  |
| 15-17        | 85.3 | 6.827 | 930  | 0 | 0 | 923  | 747  | 115 | 930  |
| 18-20        | 80.0 | 5.820 | 930  | 0 | 0 | 921  | 501  | 16  | 930  |
| 21-23        | 75.1 | 4.328 | 930  | 0 | 0 | 919  | 141  | 0   | 930  |
| ALL<br>HOURS | 77.9 | 7.408 | 7440 | 0 | 0 | 7280 | 2802 | 244 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 68.0 | 6.215                 | 900          | 0  | 0     | 660   | 2     | 0     | 900            |
| 03-05        | 66.6 | 6.460                 | 900          | 0  | 0     | 615   | 1     | 0     | 900            |
| 06-08        | 67.2 | 6.603                 | 900          | 0  | 0     | 628   | 2     | 0     | 900            |
| 09-11        | 75.2 | 6.871                 | 900          | 0  | 0     | 836   | 258   | 0     | 900            |
| 12-14        | 80.4 | 7.168                 | 900          | 0  | 0     | 879   | 522   | 29    | 900            |
| 15-17        | 80.8 | 7.151                 | 900          | 0  | 0     | 879   | 529   | 32    | 900            |
| 18-20        | 74.8 | 6.654                 | 900          | 0  | 0     | 831   | 213   | 1     | 900            |
| 21-23        | 70.1 | 6.061                 | 900          | 0  | 0     | 721   | 25    | 0     | 900            |
| ALL<br>HOURS | 72.9 | 8.542                 | 7200         | 0  | 0     | 6049  | 1552  | 62    | 7200           |

MONTH: OCT

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 57.8 | 8.151                 | 930          | 0  | 0     | 212   | 2     | 0     | 930            |
| 03-05        | 56.3 | 8.459                 | 930          | 0  | 0     | 169   | 0     | 0     | 930            |
| 06-08        | 56.7 | 8.363                 | 930          | 0  | 0     | 182   | 2     | 0     | 930            |
| 09-11        | 65.4 | 8.009                 | 930          | 0  | 0     | 500   | 30    | 0     | 930            |
| 12-14        | 71.2 | 8.218                 | 930          | 0  | 0     | 731   | 145   | 9     | 930            |
| 15-17        | 71.7 | 8.066                 | 930          | 0  | 0     | 765   | 154   | 9     | 930            |
| 18-20        | 64.2 | 7.810                 | 930          | 0  | 0     | 476   | 19    | 0     | 930            |
| 21-23        | 59.7 | 7.946                 | 930          | 0  | 0     | 302   | 6     | 0     | 930            |
| ALL<br>HOURS | 62.9 | 10.023                | 7440         | 0  | 0     | 3337  | 358   | 18    | 7440           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY-BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 51.4 | 9.470                 | 900          | 0  | 9     | 88    | 0     | 0     | 900            |
| 03-05        | 50.1 | 9.995                 | 900          | 0  | 21    | 78    | 0     | 0     | 900            |
| 06-08        | 49.6 | 10.210                | 900          | 0  | 28    | 78    | 0     | 0     | 900            |
| 09-11        | 57.3 | 8.820                 | 900          | 0  | 0     | 211   | 0     | 0     | 900            |
| 12-14        | 63.7 | 8.583                 | 900          | 0  | 0     | 438   | 13    | 0     | 900            |
| 15-17        | 63.9 | 8.331                 | 900          | 0  | 0     | 441   | 13    | 0     | 900            |
| 18-20        | 56.8 | 8.229                 | 900          | 0  | 0     | 183   | 0     | 0     | 900            |
| 21-23        | 53.2 | 9.012                 | 899          | 0  | 4     | 108   | 0     | 0     | 899            |
| ALL<br>HOURS | 55.7 | 10.534                | 7199         | 0  | 62    | 1625  | 26    | 0     | 7199           |

MONTH: DEC

|              |      |        |      |   |     |     |   |   |      |
|--------------|------|--------|------|---|-----|-----|---|---|------|
| 00-02        | 43.9 | 9.928  | 929  | 0 | 122 | 19  | 0 | 0 | 929  |
| 03-05        | 42.6 | 10.174 | 930  | 0 | 158 | 15  | 0 | 0 | 930  |
| 06-08        | 41.7 | 10.389 | 930  | 0 | 194 | 11  | 0 | 0 | 930  |
| 09-11        | 47.9 | 10.135 | 930  | 0 | 58  | 66  | 0 | 0 | 930  |
| 12-14        | 54.6 | 10.627 | 930  | 0 | 15  | 181 | 0 | 0 | 930  |
| 15-17        | 55.5 | 10.374 | 930  | 0 | 10  | 194 | 0 | 0 | 930  |
| 18-20        | 49.1 | 9.536  | 930  | 0 | 34  | 60  | 0 | 0 | 930  |
| 21-23        | 45.8 | 9.754  | 930  | 0 | 79  | 27  | 0 | 0 | 930  |
| ALL<br>HOURS | 47.7 | 11.251 | 7439 | 0 | 670 | 573 | 0 | 0 | 7439 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0   | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | 57.9 | 13.878                | 10958        | 0  | 457   | 4331  | 150   | 0     | 10958          |
| 03-05        | 56.1 | 14.002                | 10959        | 0  | 619   | 3921  | 32    | 0     | 10959          |
| 06-08        | 56.7 | 14.960                | 10959        | 0  | 756   | 4216  | 172   | 0     | 10959          |
| 09-11        | 64.3 | 15.604                | 10959        | 0  | 239   | 5909  | 2108  | 37    | 10959          |
| 12-14        | 70.0 | 15.440                | 10959        | 0  | 77    | 7180  | 3675  | 346   | 10959          |
| 15-17        | 70.9 | 14.979                | 10958        | 0  | 59    | 7460  | 3714  | 417   | 10958          |
| 18-20        | 65.2 | 14.835                | 10957        | 0  | 138   | 6089  | 2085  | 69    | 10957          |
| 21-23        | 60.4 | 14.011                | 10955        | 0  | 297   | 4943  | 522   | 0     | 10955          |
| ALL<br>HOURS | 62.7 | 15.703                | 87664        | 0  | 2642  | 44049 | 12458 | 869   | 87664          |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 35.9 | 9.176                 | 930          | 335  | 70    | 0     | 0     | 0     | 930            |
| 03-05        | 34.6 | 9.421                 | 929          | 390  | 63    | 0     | 0     | 0     | 929            |
| 06-08        | 34.0 | 9.851                 | 930          | 419  | 70    | 0     | 0     | 0     | 930            |
| 09-11        | 37.6 | 9.344                 | 930          | 255  | 87    | 1     | 0     | 0     | 930            |
| 12-14        | 41.0 | 9.126                 | 930          | 162  | 148   | 3     | 0     | 0     | 930            |
| 15-17        | 41.9 | 8.930                 | 930          | 142  | 156   | 3     | 0     | 0     | 930            |
| 18-20        | 39.1 | 8.918                 | 930          | 208  | 110   | 0     | 0     | 0     | 930            |
| 21-23        | 37.1 | 9.055                 | 930          | 277  | 83    | 0     | 0     | 0     | 930            |
| ALL<br>HOURS | 37.6 | 9.619                 | 7439         | 2188   | 787   | 7     | 0     | 0     | 7439           |

MONTH: FEB

|              |      |        |      |      |      |    |   |   |      |
|--------------|------|--------|------|------|------|----|---|---|------|
| 00-02        | 39.5 | 10.079 | 849  | 233  | 155  | 0  | 0 | 0 | 849  |
| 03-05        | 38.2 | 10.258 | 849  | 277  | 144  | 0  | 0 | 0 | 849  |
| 06-08        | 37.7 | 10.525 | 849  | 307  | 147  | 0  | 0 | 0 | 849  |
| 09-11        | 41.7 | 10.333 | 849  | 187  | 203  | 0  | 0 | 0 | 849  |
| 12-14        | 44.9 | 10.292 | 849  | 92   | 275  | 4  | 0 | 0 | 849  |
| 15-17        | 45.8 | 9.807  | 848  | 71   | 286  | 8  | 0 | 0 | 848  |
| 18-20        | 43.4 | 9.593  | 849  | 109  | 234  | 0  | 0 | 0 | 849  |
| 21-23        | 41.1 | 9.716  | 849  | 176  | 178  | 0  | 0 | 0 | 849  |
| ALL<br>HOURS | 41.5 | 10.459 | 6791 | 1452 | 1627 | 12 | 0 | 0 | 6791 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 45.1 | 9.538                 | 930          | 78   | 316   | 0     | 0     | 0     | 930            |
| 03-05        | 43.6 | 9.839                 | 930          | 129  | 274   | 0     | 0     | 0     | 930            |
| 06-08        | 43.4 | 9.911                 | 930          | 120  | 276   | 0     | 0     | 0     | 930            |
| 09-11        | 47.8 | 9.658                 | 930          | 45   | 404   | 14    | 0     | 0     | 930            |
| 12-14        | 50.8 | 9.319                 | 930          | 18   | 512   | 34    | 0     | 0     | 930            |
| 15-17        | 51.6 | 8.870                 | 930          | 12   | 554   | 33    | 0     | 0     | 930            |
| 18-20        | 49.5 | 8.883                 | 928          | 26   | 454   | 7     | 0     | 0     | 928            |
| 21-23        | 47.0 | 9.107                 | 927          | 51   | 375   | 0     | 0     | 0     | 927            |
| ALL<br>HOURS | 47.3 | 9.858                 | 7435         | 479  | 3165  | 88    | 0     | 0     | 7435           |

MONTH: APR

|              |      |       |      |    |      |     |   |   |      |
|--------------|------|-------|------|----|------|-----|---|---|------|
| 00-02        | 51.6 | 7.975 | 900  | 9  | 530  | 2   | 0 | 0 | 900  |
| 03-05        | 50.1 | 8.365 | 900  | 14 | 469  | 3   | 0 | 0 | 900  |
| 06-08        | 51.0 | 8.466 | 900  | 10 | 506  | 4   | 0 | 0 | 900  |
| 09-11        | 55.5 | 8.020 | 900  | 0  | 668  | 53  | 0 | 0 | 900  |
| 12-14        | 57.4 | 7.553 | 900  | 0  | 762  | 90  | 2 | 0 | 900  |
| 15-17        | 57.7 | 7.056 | 899  | 0  | 782  | 79  | 2 | 0 | 899  |
| 18-20        | 55.7 | 7.165 | 900  | 0  | 711  | 34  | 3 | 0 | 900  |
| 21-23        | 53.4 | 7.626 | 900  | 3  | 590  | 17  | 0 | 0 | 900  |
| ALL<br>HOURS | 54.1 | 8.242 | 7199 | 36 | 5018 | 282 | 7 | 0 | 7199 |

OPERATING LOCATION: "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 59.8 | 6.519                 | 930          | 0  | 858   | 158   | 4     | 0     | 930            |
| 03-05        | 58.6 | 6.818                 | 930          | 0  | 807   | 109   | 0     | 0     | 930            |
| 06-08        | 60.1 | 6.905                 | 930          | 0  | 841   | 189   | 4     | 0     | 930            |
| 09-11        | 64.0 | 6.381                 | 930          | 0  | 907   | 391   | 60    | 0     | 930            |
| 12-14        | 65.2 | 6.064                 | 930          | 0  | 925   | 451   | 93    | 0     | 930            |
| 15-17        | 65.1 | 5.815                 | 930          | 0  | 926   | 428   | 81    | 0     | 930            |
| 18-20        | 63.8 | 5.874                 | 929          | 0  | 919   | 358   | 38    | 0     | 929            |
| 21-23        | 61.7 | 6.158                 | 930          | 0  | 894   | 236   | 10    | 0     | 930            |
| ALL<br>HOURS | 62.3 | 6.784                 | 7439         | 0  | 7077  | 2320  | 290   | 0     | 7439           |

MONTH: JUN

|              |      |       |      |   |      |      |      |    |      |
|--------------|------|-------|------|---|------|------|------|----|------|
| 00-02        | 66.4 | 4.832 | 900  | 0 | 898  | 502  | 53   | 0  | 900  |
| 03-05        | 65.3 | 5.074 | 900  | 0 | 895  | 444  | 25   | 0  | 900  |
| 06-08        | 66.7 | 5.042 | 900  | 0 | 899  | 547  | 71   | 0  | 900  |
| 09-11        | 69.9 | 4.811 | 899  | 0 | 899  | 690  | 300  | 2  | 899  |
| 12-14        | 71.0 | 4.782 | 900  | 0 | 900  | 732  | 419  | 6  | 900  |
| 15-17        | 70.7 | 4.493 | 900  | 0 | 900  | 741  | 383  | 5  | 900  |
| 18-20        | 69.5 | 4.342 | 899  | 0 | 899  | 691  | 259  | 0  | 899  |
| 21-23        | 67.7 | 4.497 | 900  | 0 | 900  | 595  | 108  | 0  | 900  |
| ALL<br>HOURS | 68.4 | 5.137 | 7198 | 0 | 7190 | 4942 | 1618 | 13 | 7198 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 70.0 | 3.233                 | 930          | 0  | 930   | 791   | 192   | 0     | 930            |
| 03-05        | 69.1 | 3.355                 | 930          | 0  | 930   | 756   | 107   | 0     | 930            |
| 06-08        | 70.1 | 3.467                 | 930          | 0  | 930   | 795   | 227   | 1     | 930            |
| 09-11        | 73.2 | 3.692                 | 930          | 0  | 930   | 868   | 625   | 12    | 930            |
| 12-14        | 74.3 | 3.573                 | 930          | 0  | 930   | 897   | 688   | 29    | 930            |
| 15-17        | 73.8 | 3.357                 | 930          | 0  | 930   | 897   | 670   | 17    | 930            |
| 18-20        | 72.6 | 3.284                 | 930          | 0  | 930   | 890   | 541   | 0     | 930            |
| 21-23        | 71.1 | 3.214                 | 930          | 0  | 930   | 843   | 333   | 1     | 930            |
| ALL<br>HOURS | 71.8 | 3.882                 | 7440         | 0  | 7440  | 6737  | 3383  | 60    | 7440           |

MONTH: AUG

|              |      |       |      |   |      |      |      |    |      |
|--------------|------|-------|------|---|------|------|------|----|------|
| 00-02        | 69.7 | 3.851 | 930  | 0 | 930  | 767  | 236  | 0  | 930  |
| 03-05        | 68.9 | 3.942 | 930  | 0 | 930  | 716  | 125  | 0  | 930  |
| 06-08        | 69.5 | 4.031 | 930  | 0 | 930  | 744  | 220  | 1  | 930  |
| 09-11        | 72.6 | 4.039 | 930  | 0 | 930  | 845  | 589  | 2  | 930  |
| 12-14        | 73.7 | 3.906 | 930  | 0 | 930  | 883  | 654  | 17 | 930  |
| 15-17        | 73.2 | 3.696 | 930  | 0 | 930  | 879  | 609  | 12 | 930  |
| 18-20        | 72.1 | 3.692 | 930  | 0 | 930  | 863  | 499  | 1  | 930  |
| 21-23        | 70.7 | 3.692 | 930  | 0 | 930  | 809  | 332  | 0  | 930  |
| ALL<br>HOURS | 71.3 | 4.244 | 7440 | 0 | 7440 | 6506 | 3264 | 33 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 64.5 | 6.621                 | 900          | 0  | 875   | 451   | 42    | 0     | 900            |
| 03-05        | 63.4 | 6.898                 | 900          | 0  | 855   | 398   | 24    | 0     | 900            |
| 06-08        | 63.8 | 6.972                 | 900          | 0  | 861   | 421   | 46    | 0     | 900            |
| 09-11        | 67.4 | 6.398                 | 900          | 0  | 899   | 558   | 243   | 0     | 900            |
| 12-14        | 68.9 | 6.029                 | 900          | 0  | 900   | 622   | 318   | 2     | 900            |
| 15-17        | 68.7 | 5.713                 | 900          | 0  | 900   | 627   | 294   | 2     | 900            |
| 18-20        | 67.3 | 5.889                 | 900          | 0  | 900   | 572   | 174   | 0     | 900            |
| 21-23        | 65.6 | 6.263                 | 900          | 0  | 897   | 495   | 82    | 0     | 900            |
| ALL<br>HOURS | 66.2 | 6.655                 | 7200         | 0  | 7087  | 4144  | 1223  | 4     | 7200           |

MONTH: OCT

|              |      |       |      |   |      |      |     |   |      |
|--------------|------|-------|------|---|------|------|-----|---|------|
| 00-02        | 54.0 | 8.734 | 930  | 2 | 611  | 84   | 3   | 0 | 930  |
| 03-05        | 52.9 | 9.070 | 930  | 1 | 571  | 84   | 2   | 0 | 930  |
| 06-08        | 53.2 | 8.984 | 930  | 2 | 584  | 85   | 4   | 0 | 930  |
| 09-11        | 57.7 | 8.416 | 928  | 0 | 750  | 170  | 29  | 0 | 928  |
| 12-14        | 59.8 | 7.945 | 930  | 0 | 823  | 217  | 48  | 0 | 930  |
| 15-17        | 59.8 | 7.592 | 930  | 0 | 855  | 202  | 34  | 0 | 930  |
| 18-20        | 57.4 | 7.874 | 930  | 0 | 754  | 137  | 10  | 0 | 930  |
| 21-23        | 55.2 | 8.273 | 930  | 0 | 650  | 100  | 1   | 0 | 930  |
| ALL<br>HOURS | 56.2 | 8.750 | 7438 | 5 | 5598 | 1079 | 131 | 0 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 47.4 | 10.227                | 900          | 63   | 380   | 15    | 0     | 0     | 900            |
| 03-05        | 46.5 | 10.658                | 900          | 97   | 351   | 14    | 0     | 0     | 900            |
| 06-08        | 46.2 | 10.831                | 900          | 104  | 343   | 12    | 0     | 0     | 900            |
| 09-11        | 50.9 | 9.681                 | 900          | 19   | 475   | 44    | 2     | 0     | 900            |
| 12-14        | 53.8 | 9.134                 | 899          | 4  | 504   | 84    | 6     | 0     | 899            |
| 15-17        | 53.8 | 8.794                 | 900          | 0  | 592   | 76    | 3     | 0     | 900            |
| 18-20        | 50.8 | 9.176                 | 900          | 8  | 475   | 26    | 1     | 0     | 900            |
| 21-23        | 48.6 | 9.762                 | 899          | 30   | 412   | 18    | 0     | 0     | 899            |
| ALL<br>HOURS | 49.7 | 10.204                | 7198         | 325  | 3612  | 289   | 12    | 0     | 7198           |

MONTH: DEC

|              |      |        |      |      |      |    |   |   |      |
|--------------|------|--------|------|------|------|----|---|---|------|
| 00-02        | 39.8 | 10.403 | 929  | 237  | 157  | 2  | 0 | 0 | 929  |
| 03-05        | 38.8 | 10.572 | 930  | 284  | 148  | 1  | 0 | 0 | 930  |
| 06-08        | 38.2 | 10.808 | 930  | 304  | 144  | 1  | 0 | 0 | 930  |
| 09-11        | 42.3 | 10.560 | 930  | 150  | 222  | 5  | 0 | 0 | 930  |
| 12-14        | 45.8 | 10.340 | 930  | 78   | 302  | 16 | 0 | 0 | 930  |
| 15-17        | 46.3 | 10.045 | 930  | 67   | 324  | 10 | 0 | 0 | 930  |
| 18-20        | 43.1 | 9.983  | 929  | 128  | 246  | 0  | 0 | 0 | 929  |
| 21-23        | 41.2 | 10.216 | 930  | 188  | 190  | 0  | 0 | 0 | 930  |
| ALL<br>HOURS | 41.9 | 10.777 | 7438 | 1436 | 1733 | 35 | 0 | 0 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32  | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | 53.7 | 14.253                | 10958        | 957  | 6710  | 2772  | 530   | 0     | 10958          |
| 03-05        | 52.6 | 14.477                | 10958        | 1192   | 6437  | 2525  | 283   | 0     | 10958          |
| 06-08        | 52.9 | 15.068                | 10959        | 1266   | 6531  | 2798  | 572   | 2     | 10959          |
| 09-11        | 56.8 | 14.568                | 10956        | 656  | 7379  | 3639  | 1848  | 16    | 10956          |
| 12-14        | 58.9 | 13.654                | 10958        | 354  | 7991  | 4033  | 2228  | 54    | 10958          |
| 15-17        | 59.1 | 13.106                | 10957        | 297  | 8135  | 3983  | 2076  | 36    | 10957          |
| 18-20        | 57.1 | 13.662                | 10954        | 470  | 7562  | 3578  | 1525  | 1     | 10954          |
| 21-23        | 55.1 | 13.989                | 10955        | 725  | 7029  | 3113  | 866   | 1     | 10955          |
| ALL<br>HOURS | 55.8 | 14.316                | 87655        | 5921   | 57774 | 26441 | 9928  | 110   | 87655          |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

DEW-POINT TEMPERATURE SUMMARY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JAN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 28.6 | 12.914                | 930          | 436  | 242   | 914   | 0     | 930            |
| 03-05        | 27.9 | 12.960                | 929          | 457  | 237   | 911   | 0     | 929            |
| 06-08        | 27.7 | 13.267                | 930          | 453  | 230   | 909   | 0     | 930            |
| 09-11        | 29.2 | 13.812                | 930          | 398  | 269   | 902   | 2     | 930            |
| 12-14        | 29.3 | 14.490                | 930          | 396  | 299   | 902   | 2     | 930            |
| 15-17        | 29.2 | 14.560                | 930          | 405  | 291   | 898   | 2     | 930            |
| 18-20        | 29.5 | 13.550                | 930          | 393  | 275   | 899   | 0     | 930            |
| 21-23        | 29.2 | 13.003                | 930          | 417  | 265   | 905   | 0     | 930            |
| ALL<br>HOURS | 28.8 | 13.615                | 7439         | 3355   | 2108  | 7240  | 6     | 7439           |

MONTH: FEB

|              |      |        |      |      |      |      |   |      |
|--------------|------|--------|------|------|------|------|---|------|
| 00-02        | 32.8 | 13.601 | 849  | 326  | 314  | 798  | 0 | 849  |
| 03-05        | 32.1 | 13.650 | 849  | 344  | 301  | 810  | 0 | 849  |
| 06-08        | 31.9 | 13.733 | 849  | 350  | 309  | 809  | 0 | 849  |
| 09-11        | 33.3 | 14.666 | 849  | 294  | 342  | 778  | 0 | 849  |
| 12-14        | 33.4 | 15.092 | 849  | 312  | 344  | 777  | 2 | 849  |
| 15-17        | 32.9 | 15.086 | 848  | 328  | 338  | 783  | 1 | 849  |
| 18-20        | 33.4 | 14.234 | 849  | 311  | 344  | 794  | 0 | 849  |
| 21-23        | 33.7 | 13.356 | 849  | 293  | 331  | 795  | 0 | 849  |
| ALL<br>HOURS | 32.9 | 14.223 | 6791 | 2558 | 2623 | 6344 | 3 | 6791 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 39.2 | 12.835                | 930          | 191  | 507   | 825   | 0     | 930            |
| 03-05        | 38.4 | 12.843                | 930          | 208  | 501   | 839   | 0     | 930            |
| 06-08        | 38.1 | 12.892                | 930          | 213  | 504   | 839   | 1     | 930            |
| 09-11        | 39.3 | 13.668                | 930          | 212  | 529   | 797   | 10    | 930            |
| 12-14        | 39.3 | 13.689                | 930          | 198  | 527   | 797   | 13    | 930            |
| 15-17        | 38.9 | 13.751                | 930          | 222  | 517   | 804   | 9     | 930            |
| 18-20        | 39.6 | 13.144                | 928          | 186  | 524   | 807   | 6     | 928            |
| 21-23        | 40.1 | 12.540                | 927          | 169  | 535   | 810   | 0     | 927            |
| ALL<br>HOURS | 39.1 | 13.202                | 7435         | 1599   | 4144  | 6518  | 39    | 7435           |

MONTH: APR

|              |      |        |      |     |      |      |     |      |
|--------------|------|--------|------|-----|------|------|-----|------|
| 00-02        | 46.1 | 11.000 | 900  | 49  | 705  | 686  | 12  | 900  |
| 03-05        | 45.4 | 11.092 | 900  | 55  | 697  | 695  | 9   | 900  |
| 06-08        | 46.0 | 11.280 | 900  | 52  | 706  | 661  | 15  | 900  |
| 09-11        | 46.5 | 12.389 | 900  | 76  | 684  | 615  | 27  | 900  |
| 12-14        | 45.4 | 12.394 | 900  | 72  | 656  | 679  | 26  | 900  |
| 15-17        | 44.7 | 12.167 | 899  | 73  | 651  | 703  | 26  | 900  |
| 18-20        | 45.3 | 11.777 | 900  | 74  | 683  | 700  | 13  | 900  |
| 21-23        | 46.6 | 10.957 | 900  | 47  | 724  | 684  | 13  | 900  |
| ALL<br>HOURS | 45.8 | 11.672 | 7199 | 498 | 5506 | 5423 | 141 | 7199 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 56.3 | 8.631                 | 930          | 1  | 912   | 400   | 184   | 930            |
| 03-05        | 55.7 | 8.825                 | 930          | 5  | 911   | 403   | 163   | 930            |
| 06-08        | 56.7 | 9.126                 | 930          | 3  | 906   | 368   | 223   | 930            |
| 09-11        | 57.4 | 9.655                 | 930          | 5  | 900   | 336   | 253   | 930            |
| 12-14        | 56.1 | 9.935                 | 930          | 6  | 899   | 384   | 229   | 930            |
| 15-17        | 55.4 | 10.051                | 930          | 7  | 893   | 419   | 195   | 930            |
| 18-20        | 56.4 | 9.489                 | 929          | 4  | 905   | 387   | 213   | 929            |
| 21-23        | 57.2 | 8.423                 | 930          | 0  | 922   | 364   | 213   | 930            |
| ALL<br>HOURS | 56.4 | 9.319                 | 7439         | 31   | 7248  | 3061  | 1673  | 7439           |

MONTH: JUN

|              |      |       |      |   |      |     |      |      |
|--------------|------|-------|------|---|------|-----|------|------|
| 00-02        | 63.7 | 6.040 | 900  | 0 | 900  | 108 | 485  | 900  |
| 03-05        | 63.1 | 6.224 | 900  | 0 | 900  | 128 | 464  | 900  |
| 06-08        | 64.0 | 6.178 | 900  | 0 | 900  | 102 | 529  | 900  |
| 09-11        | 64.7 | 6.800 | 899  | 0 | 899  | 99  | 570  | 900  |
| 12-14        | 63.8 | 7.185 | 900  | 0 | 900  | 136 | 520  | 900  |
| 15-17        | 63.2 | 7.090 | 900  | 0 | 900  | 144 | 489  | 900  |
| 18-20        | 63.6 | 6.555 | 899  | 0 | 899  | 124 | 497  | 900  |
| 21-23        | 64.0 | 5.941 | 900  | 0 | 900  | 95  | 515  | 900  |
| ALL<br>HOURS | 63.8 | 6.564 | 7198 | 0 | 7198 | 936 | 4069 | 7198 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 67.9 | 3.954                 | 930          | 0  | 930   | 10    | 766   | 930            |
| 03-05        | 67.4 | 3.977                 | 930          | 0  | 930   | 9     | 747   | 930            |
| 06-08        | 68.0 | 4.120                 | 930          | 0  | 930   | 11    | 779   | 930            |
| 09-11        | 69.1 | 4.577                 | 930          | 0  | 930   | 12    | 793   | 930            |
| 12-14        | 68.4 | 4.737                 | 930          | 0  | 930   | 17    | 761   | 930            |
| 15-17        | 67.6 | 4.847                 | 930          | 0  | 930   | 22    | 727   | 930            |
| 18-20        | 68.1 | 4.423                 | 930          | 0  | 930   | 14    | 768   | 930            |
| 21-23        | 68.4 | 3.894                 | 930          | 0  | 930   | 12    | 791   | 930            |
| ALL<br>HOURS | 68.1 | 4.410                 | 7440         | 0  | 7440  | 107   | 6132  | 7440           |

MONTH: AUG

|              |      |       |      |   |      |     |      |      |
|--------------|------|-------|------|---|------|-----|------|------|
| 00-02        | 68.0 | 4.401 | 930  | 0 | 930  | 16  | 764  | 930  |
| 03-05        | 67.4 | 4.608 | 930  | 0 | 930  | 23  | 730  | 930  |
| 06-08        | 67.8 | 4.527 | 930  | 0 | 930  | 21  | 757  | 930  |
| 09-11        | 68.8 | 4.939 | 930  | 0 | 930  | 22  | 779  | 930  |
| 12-14        | 68.1 | 5.003 | 930  | 0 | 930  | 25  | 747  | 930  |
| 15-17        | 67.3 | 4.965 | 930  | 0 | 930  | 26  | 721  | 930  |
| 18-20        | 68.3 | 4.557 | 930  | 0 | 930  | 12  | 762  | 930  |
| 21-23        | 68.4 | 4.306 | 930  | 0 | 930  | 12  | 774  | 930  |
| ALL<br>HOURS | 68.0 | 4.744 | 7440 | 0 | 7440 | 157 | 6034 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 62.2 | 7.696                 | 900          | 0  | 900   | 187   | 449   | 900            |
| 03-05        | 61.3 | 7.917                 | 900          | 0  | 900   | 217   | 412   | 900            |
| 06-08        | 61.6 | 8.107                 | 900          | 0  | 900   | 222   | 430   | 900            |
| 09-11        | 62.8 | 8.299                 | 900          | 0  | 899   | 189   | 486   | 900            |
| 12-14        | 62.2 | 8.363                 | 900          | 0  | 898   | 206   | 451   | 900            |
| 15-17        | 61.8 | 8.223                 | 900          | 0  | 900   | 211   | 414   | 900            |
| 18-20        | 63.0 | 7.467                 | 900          | 0  | 900   | 174   | 471   | 900            |
| 21-23        | 62.8 | 7.490                 | 900          | 0  | 900   | 171   | 476   | 900            |
| ALL<br>HOURS | 62.2 | 7.995                 | 7200         | 0  | 7197  | 1577  | 3589  | 7200           |

MONTH: OCT

|              |      |        |      |    |      |      |     |      |
|--------------|------|--------|------|----|------|------|-----|------|
| 00-02        | 50.6 | 10.435 | 930  | 5  | 843  | 607  | 108 | 930  |
| 03-05        | 49.7 | 10.760 | 930  | 8  | 808  | 627  | 98  | 930  |
| 06-08        | 49.9 | 10.736 | 930  | 9  | 821  | 617  | 100 | 930  |
| 09-11        | 51.3 | 11.555 | 928  | 13 | 818  | 558  | 147 | 930  |
| 12-14        | 50.6 | 11.644 | 930  | 14 | 802  | 572  | 126 | 930  |
| 15-17        | 50.2 | 11.482 | 930  | 18 | 801  | 585  | 112 | 930  |
| 18-20        | 51.9 | 10.218 | 930  | 6  | 872  | 551  | 120 | 930  |
| 21-23        | 51.3 | 9.985  | 930  | 1  | 873  | 581  | 109 | 930  |
| ALL<br>HOURS | 50.7 | 10.911 | 7438 | 74 | 6638 | 4698 | 920 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW-POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 42.6 | 13.214                | 900          | 152  | 596   | 712   | 21    | 900            |
| 03-05        | 42.0 | 13.384                | 900          | 154  | 573   | 719   | 17    | 900            |
| 06-08        | 42.0 | 13.374                | 900          | 142  | 566   | 707   | 20    | 900            |
| 09-11        | 43.8 | 13.932                | 900          | 141  | 616   | 684   | 39    | 900            |
| 12-14        | 43.5 | 14.617                | 899          | 167  | 611   | 673   | 43    | 899            |
| 15-17        | 43.3 | 14.456                | 900          | 170  | 609   | 675   | 33    | 900            |
| 18-20        | 44.2 | 13.019                | 900          | 110  | 632   | 684   | 20    | 900            |
| 21-23        | 43.3 | 12.893                | 899          | 118  | 604   | 707   | 23    | 899            |
| ALL<br>HOURS | 43.1 | 13.653                | 7198         | 1154   | 4807  | 5561  | 216   | 7198           |

MONTH: DEC

|              |      |        |      |      |      |      |    |      |
|--------------|------|--------|------|------|------|------|----|------|
| 00-02        | 33.4 | 13.902 | 929  | 318  | 366  | 857  | 3  | 930  |
| 03-05        | 32.8 | 13.822 | 930  | 345  | 359  | 873  | 1  | 930  |
| 06-08        | 32.4 | 13.885 | 930  | 351  | 345  | 876  | 2  | 930  |
| 09-11        | 34.3 | 14.762 | 930  | 316  | 396  | 840  | 4  | 930  |
| 12-14        | 34.4 | 15.567 | 930  | 341  | 401  | 827  | 3  | 930  |
| 15-17        | 34.3 | 15.582 | 930  | 338  | 408  | 845  | 4  | 930  |
| 18-20        | 34.7 | 14.515 | 929  | 305  | 414  | 856  | 0  | 930  |
| 21-23        | 34.2 | 14.031 | 930  | 306  | 401  | 861  | 0  | 930  |
| ALL<br>HOURS | 33.8 | 14.563 | 7438 | 2620 | 3090 | 6835 | 17 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|--|-------|-------|-------|----------------|
|              |      |                       |              | LE 27  | GE 37 | LE 55 | GE 65 |                |
| 00-02        | 49.3 | 17.206                | 10958        | 1478   | 8145  | 6120  | 2792  | 10958          |
| 03-5         | 48.7 | 17.284                | 10958        | 1576   | 8047  | 6254  | 2641  | 10958          |
| 06-08        | 48.9 | 17.639                | 10959        | 1573   | 8047  | 6142  | 2856  | 10959          |
| 09-11        | 50.1 | 17.866                | 10956        | 1455   | 8212  | 5832  | 3110  | 10956          |
| 12-14        | 49.6 | 17.811                | 10958        | 1506   | 8197  | 5995  | 2923  | 10958          |
| 15-17        | 49.1 | 17.653                | 10957        | 1561   | 8168  | 6115  | 2733  | 10957          |
| 18-20        | 49.9 | 17.234                | 10954        | 1389   | 8308  | 6002  | 2870  | 10954          |
| 21-23        | 50.0 | 17.034                | 10955        | 1351   | 8315  | 5997  | 2914  | 10955          |
| ALL<br>HOURS | 49.5 | 17.475                | 87655        | 11889  | 65439 | 48457 | 22839 | 87655          |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|------|------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 97.5 | 88.5 | 74.5 | 59.9 | 41.0 | 25.4 | 7.2  | 64.0 | 930       |
| 03-05        | 100.0                                      | 100.0 | 98.8 | 90.7 | 79.1 | 63.1 | 45.3 | 28.6 | 8.5  | 66.1 | 929       |
| 06-08        | 100.0                                      | 100.0 | 98.7 | 93.0 | 81.2 | 68.5 | 50.3 | 30.0 | 10.0 | 67.8 | 930       |
| 09-11        | 100.0                                      | 100.0 | 93.1 | 78.3 | 63.4 | 50.2 | 37.6 | 24.1 | 8.2  | 60.1 | 930       |
| 12-14        | 100.0                                      | 95.9  | 77.0 | 58.3 | 45.4 | 34.2 | 27.4 | 15.5 | 5.3  | 50.2 | 930       |
| 15-17        | 100.0                                      | 93.3  | 69.9 | 52.6 | 40.2 | 30.8 | 24.5 | 15.2 | 4.7  | 47.5 | 930       |
| 18-20        | 100.0                                      | 99.1  | 89.0 | 72.5 | 55.6 | 44.6 | 32.2 | 18.2 | 4.8  | 56.1 | 930       |
| 21-23        | 100.0                                      | 99.8  | 95.1 | 84.0 | 69.8 | 54.2 | 38.0 | 21.5 | 6.8  | 61.5 | 930       |
| ALL<br>HOURS | 100.0                                      | 98.5  | 89.9 | 77.2 | 63.7 | 50.7 | 37.0 | 22.3 | 6.9  | 61.5 | 7439      |

MONTH: FEB

|              |       |       |      |      |      |      |      |      |      |      |      |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 98.1 | 88.6 | 78.0 | 62.9 | 46.4 | 27.4 | 11.1 | 65.8 | 849  |
| 03-05        | 100.0 | 100.0 | 99.1 | 93.9 | 79.7 | 66.5 | 50.8 | 30.9 | 12.2 | 68.0 | 849  |
| 06-08        | 100.0 | 100.0 | 99.6 | 94.9 | 83.2 | 70.1 | 54.1 | 33.2 | 13.3 | 69.5 | 849  |
| 09-11        | 100.0 | 99.8  | 94.0 | 77.5 | 63.1 | 49.5 | 35.9 | 22.7 | 8.8  | 59.7 | 849  |
| 12-14        | 100.0 | 96.6  | 76.7 | 58.0 | 43.5 | 30.5 | 22.0 | 13.3 | 4.8  | 49.1 | 849  |
| 15-17        | 99.8  | 91.5  | 69.1 | 51.9 | 37.3 | 26.9 | 20.3 | 12.6 | 4.6  | 45.7 | 848  |
| 18-20        | 100.0 | 97.1  | 85.3 | 70.1 | 54.1 | 40.3 | 28.3 | 17.0 | 7.5  | 54.5 | 849  |
| 21-23        | 100.0 | 99.9  | 95.8 | 85.3 | 73.6 | 57.4 | 39.0 | 22.6 | 8.5  | 62.8 | 849  |
| ALL<br>HOURS | 100.0 | 98.1  | 89.7 | 77.5 | 64.1 | 50.5 | 37.1 | 22.5 | 8.9  | 62.8 | 6791 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: MAR

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|------|------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 98.5 | 93.2 | 84.4 | 68.7 | 50.5 | 34.0 | 11.1 | 68.3 | 930       |
| 03-05        | 100.0                                      | 100.0 | 99.8 | 96.1 | 86.2 | 75.7 | 57.2 | 37.8 | 13.1 | 71.1 | 930       |
| 06-08        | 100.0                                      | 100.0 | 99.6 | 97.4 | 85.3 | 75.3 | 56.8 | 37.6 | 13.7 | 71.1 | 930       |
| 09-11        | 100.0                                      | 99.5  | 93.5 | 77.1 | 61.8 | 47.3 | 32.3 | 19.8 | 5.4  | 58.1 | 930       |
| 12-14        | 100.0                                      | 96.6  | 78.0 | 57.7 | 40.0 | 27.0 | 18.7 | 11.4 | 2.3  | 47.7 | 930       |
| 15-17        | 100.0                                      | 92.3  | 68.9 | 49.5 | 34.3 | 24.6 | 16.2 | 7.6  | 1.5  | 44.0 | 930       |
| 18-20        | 100.0                                      | 98.2  | 85.3 | 68.3 | 51.6 | 37.5 | 24.9 | 14.5 | 3.0  | 52.9 | 928       |
| 21-23        | 100.0                                      | 99.9  | 96.8 | 89.8 | 75.6 | 58.3 | 41.0 | 24.7 | 7.1  | 63.7 | 927       |
| ALL<br>HOURS | 100.0                                      | 98.3  | 90.0 | 78.6 | 64.9 | 51.8 | 37.2 | 23.4 | 7.1  | 63.7 | 7435      |

MONTH: APR

|              |       |       |      |      |      |      |      |      |      |      |      |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 99.6 | 92.6 | 83.0 | 70.3 | 53.6 | 31.7 | 12.3 | 68.5 | 900  |
| 03-05        | 100.0 | 100.0 | 99.8 | 97.1 | 89.2 | 77.7 | 60.8 | 41.2 | 17.3 | 72.7 | 900  |
| 06-08        | 100.0 | 100.0 | 99.6 | 96.3 | 87.0 | 73.4 | 58.2 | 38.9 | 15.2 | 71.3 | 900  |
| 09-11        | 100.0 | 99.4  | 90.3 | 72.4 | 52.9 | 37.2 | 23.3 | 13.6 | 5.1  | 53.8 | 900  |
| 12-14        | 100.0 | 96.2  | 73.9 | 47.4 | 31.3 | 21.1 | 13.7 | 7.3  | 2.3  | 43.6 | 900  |
| 15-17        | 100.0 | 93.0  | 64.4 | 39.8 | 27.8 | 21.8 | 13.8 | 7.2  | 2.0  | 41.3 | 899  |
| 18-20        | 100.0 | 97.4  | 82.1 | 61.2 | 42.1 | 29.7 | 21.1 | 13.3 | 4.9  | 49.6 | 900  |
| 21-23        | 100.0 | 100.0 | 97.2 | 87.9 | 74.0 | 55.4 | 36.3 | 20.8 | 9.2  | 62.3 | 900  |
| ALL<br>HOURS | 100.0 | 98.3  | 88.4 | 74.4 | 60.9 | 48.1 | 35.1 | 21.8 | 8.6  | 62.3 | 7199 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|-------|------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 100.0 | 98.8 | 95.7 | 87.0 | 69.8 | 45.8 | 20.5 | 75.9 | 930       |
| 03-05        | 100.0                                      | 100.0 | 99.9  | 99.1 | 96.9 | 92.5 | 80.0 | 58.3 | 31.0 | 80.0 | 930       |
| 06-08        | 100.0                                      | 100.0 | 99.8  | 98.5 | 94.8 | 86.2 | 72.4 | 51.6 | 26.3 | 77.3 | 930       |
| 09-11        | 100.0                                      | 99.7  | 97.7  | 88.7 | 71.5 | 48.7 | 27.7 | 10.6 | 4.1  | 59.4 | 930       |
| 12-14        | 100.0                                      | 99.5  | 90.5  | 67.2 | 41.6 | 23.3 | 10.5 | 4.0  | 1.0  | 48.2 | 930       |
| 15-17        | 100.0                                      | 98.8  | 84.9  | 59.4 | 36.7 | 21.9 | 13.7 | 6.3  | 1.5  | 46.8 | 930       |
| 18-20        | 100.0                                      | 99.7  | 94.8  | 80.8 | 60.4 | 40.4 | 26.0 | 14.0 | 4.6  | 56.5 | 929       |
| 21-23        | 100.0                                      | 100.0 | 99.9  | 97.5 | 91.9 | 75.2 | 52.2 | 27.5 | 11.0 | 70.0 | 930       |
| ALL<br>HOURS | 100.0                                      | 99.7  | 96.0  | 86.3 | 73.7 | 59.4 | 44.0 | 27.0 | 12.5 | 70.0 | 7439      |

MONTH: JUN

|              |       |       |       |       |      |      |      |      |      |      |      |
|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 100.0 | 100.0 | 98.2 | 91.8 | 79.6 | 53.6 | 19.6 | 78.7 | 900  |
| 03-05        | 100.0 | 100.0 | 100.0 | 99.9  | 99.1 | 95.6 | 86.3 | 67.0 | 29.1 | 82.2 | 900  |
| 06-08        | 100.0 | 100.0 | 100.0 | 100.0 | 99.1 | 92.1 | 77.6 | 52.3 | 22.8 | 78.8 | 900  |
| 09-11        | 100.0 | 100.0 | 99.8  | 95.9  | 82.3 | 58.1 | 30.1 | 11.9 | 1.8  | 62.7 | 899  |
| 12-14        | 100.0 | 100.0 | 97.6  | 82.1  | 54.9 | 24.7 | 11.2 | 3.3  | .7   | 52.2 | 900  |
| 15-17        | 100.0 | 100.0 | 94.9  | 76.7  | 45.7 | 25.1 | 13.1 | 6.8  | 2.1  | 50.9 | 900  |
| 18-20        | 100.0 | 100.0 | 98.6  | 89.3  | 69.7 | 47.3 | 26.6 | 13.3 | 5.3  | 59.4 | 899  |
| 21-23        | 100.0 | 100.0 | 100.0 | 99.7  | 94.4 | 82.7 | 56.7 | 28.9 | 11.0 | 72.1 | 900  |
| ALL<br>HOURS | 100.0 | 100.0 | 98.8  | 92.9  | 80.4 | 64.7 | 47.7 | 29.6 | 11.5 | 72.1 | 7198 |



OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: - 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: JUL

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |       |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|-------|-------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.7 | 97.5 | 99.0 | 60.8 | 30.2 | 82.4 | 930       |
| 03-05        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.9 | 98.8 | 94.1 | 72.3 | 40.9 | 85.1 | 930       |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.6 | 98.0 | 97.8 | 59.1 | 29.5 | 82.1 | 930       |
| 09-11        | 100.0                                      | 100.0 | 100.0 | 98.9  | 93.2 | 71.0 | 38.5 | 12.6 | 3.5  | 66.5 | 930       |
| 12-14        | 100.0                                      | 100.0 | 99.1  | 91.6  | 67.8 | 32.4 | 14.6 | 4.0  | .9   | 55.7 | 930       |
| 15-17        | 100.0                                      | 100.0 | 98.4  | 87.1  | 61.0 | 33.2 | 16.9 | 5.9  | 1.7  | 55.1 | 930       |
| 18-20        | 100.0                                      | 100.0 | 99.8  | 96.1  | 85.2 | 63.3 | 40.5 | 17.7 | 7.2  | 65.5 | 930       |
| 21-23        | 100.0                                      | 100.0 | 100.0 | 100.0 | 98.9 | 93.2 | 74.8 | 39.5 | 18.2 | 77.3 | 930       |
| ALL<br>HOURS | 100.0                                      | 100.0 | 99.7  | 96.7  | 88.2 | 73.4 | 57.0 | 34.0 | 16.5 | 77.3 | 7440      |

MONTH: AUG

|              |       |       |       |       |       |      |      |      |      |      |      |
|--------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 95.1 | 73.3 | 35.7 | 84.8 | 930  |
| 03-05        | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 97.7 | 84.0 | 44.0 | 86.9 | 930  |
| 06-08        | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 94.1 | 74.0 | 38.0 | 85.3 | 930  |
| 09-11        | 100.0 | 100.0 | 100.0 | 99.5  | 96.2  | 77.6 | 45.8 | 17.6 | 5.6  | 68.9 | 930  |
| 12-14        | 100.0 | 100.0 | 99.7  | 94.6  | 74.3  | 39.1 | 15.2 | 6.8  | 2.5  | 57.7 | 930  |
| 15-17        | 100.0 | 100.0 | 99.0  | 90.9  | 66.6  | 34.7 | 19.0 | 9.8  | 3.2  | 56.9 | 930  |
| 18-20        | 100.0 | 100.0 | 99.9  | 98.3  | 91.9  | 72.4 | 48.2 | 23.9 | 8.9  | 69.0 | 930  |
| 21-23        | 100.0 | 100.0 | 100.0 | 100.0 | 99.8  | 97.4 | 85.8 | 52.5 | 23.2 | 80.5 | 930  |
| ALL<br>HOURS | 100.0 | 100.0 | 99.8  | 97.9  | 91.1  | 77.5 | 62.6 | 42.7 | 20.1 | 80.5 | 7440 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |       |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|-------|-------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.6 | 98.1 | 90.4 | 66.3 | 25.7 | 82.1 | 900       |
| 03-05        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.7 | 98.0 | 92.3 | 73.8 | 29.4 | 83.5 | 900       |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.7 | 96.8 | 89.9 | 69.2 | 29.0 | 82.6 | 900       |
| 09-11        | 100.0                                      | 100.0 | 99.9  | 97.9  | 87.6 | 63.0 | 42.0 | 21.2 | 7.1  | 66.9 | 900       |
| 12-14        | 100.0                                      | 100.0 | 98.9  | 87.4  | 61.7 | 34.2 | 19.0 | 8.9  | 2.0  | 55.7 | 900       |
| 15-17        | 100.0                                      | 100.0 | 98.0  | 81.1  | 57.1 | 32.8 | 18.9 | 9.9  | 3.0  | 54.7 | 900       |
| 18-20        | 100.0                                      | 100.0 | 99.9  | 98.5  | 89.6 | 70.8 | 46.0 | 22.0 | 6.8  | 68.1 | 900       |
| 21-23        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.3 | 95.0 | 79.6 | 47.7 | 16.1 | 78.2 | 900       |
| ALL<br>HOURS | 100.0                                      | 100.0 | 99.6  | 95.6  | 86.8 | 74.2 | 59.8 | 39.9 | 14.9 | 78.2 | 7200      |

MONTH: OCT

|              |       |       |       |       |      |      |      |      |      |      |      |
|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 100.0 | 99.4  | 97.2 | 92.9 | 76.5 | 49.4 | 17.7 | 77.5 | 930  |
| 03-05        | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 94.2 | 79.6 | 54.5 | 19.1 | 78.8 | 930  |
| 06-08        | 100.0 | 100.0 | 100.0 | 99.9  | 98.1 | 92.2 | 78.1 | 53.3 | 20.1 | 78.6 | 930  |
| 09-11        | 100.0 | 100.0 | 99.1  | 91.1  | 73.2 | 53.8 | 35.8 | 20.6 | 7.3  | 62.4 | 928  |
| 12-14        | 100.0 | 99.8  | 93.2  | 67.6  | 45.7 | 28.4 | 15.5 | 8.1  | 2.3  | 50.5 | 930  |
| 15-17        | 100.0 | 99.5  | 91.0  | 63.0  | 43.4 | 25.9 | 15.4 | 8.5  | 2.3  | 49.3 | 930  |
| 18-20        | 100.0 | 100.0 | 99.4  | 95.8  | 84.2 | 65.1 | 43.4 | 20.4 | 6.9  | 65.8 | 930  |
| 21-23        | 100.0 | 100.0 | 100.0 | 98.9  | 96.6 | 87.1 | 70.3 | 37.8 | 12.0 | 74.6 | 930  |
| ALL<br>HOURS | 100.0 | 99.9  | 97.8  | 89.5  | 79.6 | 67.4 | 51.8 | 31.6 | 11.0 | 74.6 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|------|------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 99.0 | 95.0 | 90.3 | 79.4 | 63.6 | 46.1 | 11.7 | 72.9 | 900       |
| 03-05        | 100.0                                      | 100.0 | 99.7 | 97.2 | 91.7 | 83.4 | 66.8 | 48.2 | 15.0 | 74.5 | 900       |
| 06-08        | 100.0                                      | 100.0 | 99.9 | 98.2 | 93.9 | 84.6 | 67.6 | 50.4 | 16.0 | 75.6 | 900       |
| 09-11        | 100.0                                      | 99.0  | 95.4 | 86.7 | 71.8 | 57.4 | 42.2 | 26.6 | 7.7  | 63.1 | 900       |
| 12-14        | 100.0                                      | 95.8  | 85.3 | 66.9 | 48.7 | 34.3 | 20.6 | 10.8 | 4.2  | 51.0 | 899       |
| 15-17        | 100.0                                      | 96.0  | 83.7 | 65.2 | 47.7 | 34.0 | 19.1 | 11.9 | 4.4  | 50.6 | 900       |
| 18-20        | 100.0                                      | 99.9  | 97.2 | 89.4 | 76.0 | 61.8 | 44.7 | 24.4 | 7.2  | 64.6 | 900       |
| 21-23        | 100.0                                      | 100.0 | 98.3 | 94.5 | 80.5 | 73.6 | 57.3 | 38.2 | 9.1  | 70.4 | 899       |
| ALL<br>HOURS | 100.0                                      | 98.8  | 94.8 | 86.6 | 75.1 | 63.6 | 47.7 | 32.1 | 9.4  | 70.4 | 7198      |

MONTH: DEC

|              |       |       |      |      |      |      |      |      |      |      |      |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|
| 00-02        | 100.0 | 100.0 | 98.6 | 93.5 | 81.3 | 63.2 | 47.5 | 29.4 | 8.5  | 66.8 | 929  |
| 03-05        | 100.0 | 100.0 | 99.5 | 95.1 | 85.6 | 67.0 | 48.4 | 31.3 | 10.1 | 68.4 | 930  |
| 06-08        | 100.0 | 100.0 | 99.6 | 97.1 | 87.1 | 69.5 | 49.9 | 32.5 | 11.5 | 69.5 | 930  |
| 09-11        | 100.0 | 100.0 | 96.9 | 82.6 | 66.0 | 50.1 | 35.7 | 23.3 | 7.2  | 60.6 | 930  |
| 12-14        | 100.0 | 98.3  | 80.6 | 56.9 | 41.6 | 29.8 | 21.1 | 14.1 | 3.5  | 48.9 | 930  |
| 15-17        | 100.0 | 96.1  | 75.2 | 55.8 | 39.8 | 27.3 | 19.7 | 12.6 | 3.0  | 47.4 | 930  |
| 18-20        | 100.0 | 99.5  | 94.2 | 80.2 | 64.5 | 49.7 | 33.0 | 18.6 | 4.2  | 58.9 | 929  |
| 21-23        | 100.0 | 99.7  | 98.1 | 89.9 | 78.9 | 60.6 | 43.5 | 25.1 | 7.2  | 64.7 | 930  |
| ALL<br>HOURS | 100.0 | 99.2  | 92.8 | 81.4 | 68.1 | 52.2 | 37.3 | 23.4 | 6.9  | 64.7 | 7438 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: ALL

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--|-------|------|------|------|------|------|------|------|------|-----------|
|              | 10%  | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        | 100.0                                      | 100.0 | 99.3 | 95.8 | 90.2 | 81.0 | 67.0 | 45.2 | 17.7 | 74.0 | 10958     |
| 03-05        | 100.0                                      | 100.0 | 99.7 | 97.4 | 92.2 | 84.4 | 71.7 | 52.4 | 22.6 | 76.5 | 10958     |
| 06-08        | 100.0                                      | 100.0 | 99.7 | 98.0 | 92.4 | 83.9 | 69.8 | 48.6 | 20.5 | 75.8 | 10959     |
| 09-11        | 100.0                                      | 99.8  | 96.7 | 87.3 | 73.7 | 55.8 | 35.6 | 18.7 | 6.0  | 61.9 | 10956     |
| 12-14        | 100.0                                      | 98.2  | 87.6 | 69.7 | 49.8 | 29.9 | 17.4 | 8.9  | 2.6  | 50.9 | 10958     |
| 15-17        | 100.0                                      | 96.7  | 83.2 | 64.5 | 44.8 | 28.3 | 17.5 | 9.5  | 2.8  | 49.2 | 10957     |
| 18-20        | 100.0                                      | 99.3  | 93.8 | 83.5 | 68.8 | 52.0 | 34.6 | 18.1 | 5.9  | 60.1 | 10954     |
| 21-23        | 100.0                                      | 99.9  | 98.4 | 94.0 | 86.9 | 74.1 | 56.3 | 32.3 | 11.6 | 69.9 | 10955     |
| ALL<br>HOURS | 100.0                                      | 99.2  | 94.8 | 86.3 | 74.9 | 61.2 | 46.6 | 29.2 | 11.2 | 64.8 | 87655     |

|         |          |         |          |          |
|---------|----------|---------|----------|----------|
| PPPPPPP | AAAAA    | RRRRRRR | TTTTTTTT | FFFFFFFF |
| PPPPPPP | AAAAAAA  | RRRRRRR | TTTTTTTT | FFFFFFFF |
| PP PP   | AA AA    | RR RR   | TT       | FF       |
| PP PP   | AA AA    | RR RR   | TT       | FF       |
| PPPPPPP | AA AA    | RRRRRRR | TT       | FFFFFF   |
| PPPPPPP | AAAAAAAA | RRRRRRR | TT       | FFFFFF   |
| PP      | AAAAAAAA | RR RR   | TT       | FF       |
| PP      | AA AA    | RR RR   | TT       | FF       |
| PP      | AA AA    | RR RR   | TT       | FF       |
| PP      | AA AA    | RR RR   | TT       | FF       |

PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.

IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

SEA LEVEL PRESSURE IN MILLIBARS  
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AIR ST  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89

| HOURS (LST) | STATS   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |
|-------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0100        | MEAN    | 1019.9 | 1019.1 | 1017.2 | 1015.4 | 1015.9 | 1016.0 | 1017.1 | 1017.1 | 1018.0 | 1019.4 | 1019.7 | 1021.1 | 1018.0 |
|             | SD      | 6.694  | 7.657  | 7.495  | 5.995  | 4.208  | 3.919  | 3.190  | 3.331  | 4.377  | 4.938  | 6.102  | 6.310  | 5.819  |
|             | TOT OBS | 310    | 283    | 310    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3653   |
| 0400        | MEAN    | 1019.8 | 1018.8 | 1016.7 | 1015.1 | 1015.6 | 1015.7 | 1016.6 | 1016.7 | 1017.6 | 1019.1 | 1019.5 | 1021.1 | 1017.7 |
|             | SD      | 6.774  | 7.696  | 7.553  | 6.091  | 4.297  | 3.059  | 3.194  | 3.384  | 4.472  | 5.006  | 6.168  | 6.351  | 5.896  |
|             | TOT OBS | 310    | 283    | 310    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3653   |
| 0700        | MEAN    | 1020.4 | 1019.7 | 1017.8 | 1016.3 | 1016.8 | 1016.8 | 1017.7 | 1017.8 | 1018.7 | 1020.2 | 1020.3 | 1021.8 | 1018.7 |
|             | SD      | 7.069  | 7.756  | 7.826  | 6.283  | 4.424  | 3.976  | 3.173  | 3.435  | 4.487  | 5.131  | 6.298  | 6.448  | 5.971  |
|             | TOT OBS | 310    | 283    | 310    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3653   |
| 1000        | MEAN    | 1021.7 | 1020.8 | 1018.6 | 1016.8 | 1017.2 | 1017.2 | 1018.2 | 1018.3 | 1019.5 | 1021.0 | 1021.2 | 1023.0 | 1019.5 |
|             | SD      | 7.204  | 7.919  | 8.017  | 6.458  | 4.537  | 4.064  | 3.173  | 3.522  | 4.515  | 5.217  | 6.400  | 6.624  | 6.168  |
|             | TOT OBS | 310    | 282    | 310    | 300    | 310    | 300    | 310    | 309    | 300    | 310    | 300    | 310    | 3651   |
| 1300        | MEAN    | 1019.8 | 1019.3 | 1017.1 | 1015.3 | 1016.0 | 1016.2 | 1017.3 | 1017.3 | 1018.2 | 1019.4 | 1019.3 | 1021.0 | 1018.0 |
|             | SD      | 7.255  | 7.783  | 7.871  | 6.406  | 4.458  | 4.056  | 3.186  | 3.513  | 4.423  | 5.158  | 6.389  | 6.636  | 6.040  |
|             | TOT OBS | 310    | 283    | 310    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3653   |
| 1600        | MEAN    | 1018.8 | 1017.7 | 1015.5 | 1013.7 | 1014.5 | 1014.8 | 1015.9 | 1015.8 | 1016.7 | 1018.3 | 1018.5 | 1020.1 | 1016.7 |
|             | SD      | 7.064  | 7.741  | 7.544  | 6.215  | 4.329  | 3.960  | 3.236  | 3.489  | 4.358  | 5.115  | 6.109  | 6.426  | 5.971  |
|             | TOT OBS | 310    | 283    | 310    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3653   |
| 1900        | MEAN    | 1019.7 | 1018.5 | 1016.1 | 1014.0 | 1014.8 | 1014.9 | 1016.1 | 1016.1 | 1017.1 | 1019.0 | 1019.3 | 1021.0 | 1017.2 |
|             | SD      | 6.854  | 7.633  | 7.399  | 5.997  | 4.120  | 3.812  | 3.146  | 3.356  | 4.273  | 5.082  | 5.986  | 6.316  | 5.931  |
|             | TOT OBS | 310    | 283    | 309    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3652   |
| 2200        | MEAN    | 1020.3 | 1019.3 | 1017.3 | 1015.3 | 1016.1 | 1016.2 | 1017.4 | 1017.4 | 1018.3 | 1019.9 | 1019.9 | 1021.6 | 1018.2 |
|             | SD      | 6.737  | 7.638  | 7.327  | 5.945  | 4.093  | 3.830  | 3.142  | 3.337  | 4.310  | 5.036  | 5.975  | 6.335  | 5.808  |
|             | TOT OBS | 310    | 283    | 309    | 300    | 310    | 300    | 310    | 310    | 300    | 310    | 300    | 310    | 3652   |
| ALL HOURS   | MEAN    | 1020.0 | 1019.1 | 1017.0 | 1015.2 | 1015.9 | 1016.0 | 1017.0 | 1017.1 | 1018.0 | 1019.5 | 1019.7 | 1021.3 | 1018.0 |
|             | SD      | 7.002  | 7.773  | 7.687  | 6.252  | 4.397  | 4.016  | 3.264  | 3.509  | 4.477  | 5.145  | 6.226  | 6.480  | 6.005  |
|             | TOT OBS | 2480   | 2263   | 2478   | 2400   | 2480   | 2400   | 2480   | 2479   | 2400   | 2480   | 2400   | 2480   | 29220  |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89

| HOURS (LST) | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0100        | MEAN    | 30.12 | 30.10 | 30.04 | 29.99 | 30.01 | 30.01 | 30.04 | 30.05 | 30.07 | 30.11 | 30.12 | 30.15 | 30.07 |
|             | SD      | .196  | .224  | .221  | .176  | .123  | .114  | .094  | .098  | .128  | .144  | .179  | .185  | .170  |
|             | TOT OBS | 310   | 285   | 310   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3653  |
| 0400        | MEAN    | 30.11 | 30.09 | 30.02 | 29.98 | 30.00 | 30.00 | 30.03 | 30.03 | 30.06 | 30.10 | 30.11 | 30.15 | 30.06 |
|             | SD      | .198  | .225  | .223  | .179  | .126  | .114  | .094  | .099  | .131  | .146  | .181  | .186  | .172  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 299   | 310   | 3652  |
| 0700        | MEAN    | 30.13 | 30.11 | 30.06 | 30.01 | 30.03 | 30.04 | 30.06 | 30.06 | 30.09 | 30.13 | 30.13 | 30.17 | 30.09 |
|             | SD      | .207  | .227  | .230  | .185  | .130  | .117  | .093  | .100  | .131  | .150  | .184  | .188  | .174  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 309   | 300   | 310   | 300   | 310   | 3652  |
| 1000        | MEAN    | 30.17 | 30.14 | 30.08 | 30.03 | 30.05 | 30.05 | 30.08 | 30.08 | 30.11 | 30.16 | 30.16 | 30.21 | 30.11 |
|             | SD      | .211  | .232  | .235  | .190  | .133  | .119  | .093  | .103  | .132  | .153  | .188  | .193  | .180  |
|             | TOT OBS | 310   | 282   | 310   | 299   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3651  |
| 1300        | MEAN    | 30.11 | 30.10 | 30.04 | 29.99 | 30.01 | 30.02 | 30.05 | 30.05 | 30.08 | 30.11 | 30.10 | 30.15 | 30.07 |
|             | SD      | .212  | .227  | .232  | .188  | .130  | .119  | .093  | .103  | .129  | .151  | .189  | .194  | .176  |
|             | TOT OBS | 310   | 283   | 310   | 299   | 310   | 300   | 310   | 310   | 300   | 310   | 299   | 310   | 3651  |
| 1600        | MEAN    | 30.08 | 30.06 | 29.99 | 29.94 | 29.97 | 29.98 | 30.01 | 30.01 | 30.03 | 30.07 | 30.08 | 30.12 | 30.03 |
|             | SD      | .207  | .226  | .222  | .183  | .127  | .116  | .094  | .102  | .128  | .150  | .180  | .188  | .174  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 309   | 300   | 310   | 300   | 310   | 3652  |
| 1900        | MEAN    | 30.11 | 30.08 | 30.01 | 29.95 | 29.97 | 29.98 | 30.02 | 30.02 | 30.04 | 30.10 | 30.10 | 30.15 | 30.04 |
|             | SD      | .201  | .223  | .217  | .177  | .120  | .112  | .092  | .098  | .125  | .148  | .175  | .184  | .173  |
|             | TOT OBS | 310   | 283   | 309   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3652  |
| 2200        | MEAN    | 30.13 | 30.10 | 30.04 | 29.99 | 30.01 | 30.02 | 30.05 | 30.05 | 30.08 | 30.12 | 30.12 | 30.17 | 30.07 |
|             | SD      | .197  | .223  | .215  | .175  | .120  | .112  | .091  | .097  | .126  | .147  | .175  | .185  | .169  |
|             | TOT OBS | 310   | 283   | 309   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3652  |
| ALL HOURS   | MEAN    | 30.12 | 30.10 | 30.04 | 29.98 | 30.01 | 30.01 | 30.04 | 30.04 | 30.07 | 30.11 | 30.11 | 30.1  | 30.07 |
|             | SD      | .205  | .227  | .226  | .184  | .129  | .118  | .095  | .103  | .131  | .150  | .183  | .189  | .175  |
|             | TOT OBS | 2480  | 2263  | 2478  | 2398  | 2480  | 2400  | 2480  | 2478  | 2400  | 2480  | 2398  | 2480  | 29215 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89

| HOURS (LST) | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0100        | MEAN    | 29.85 | 29.83 | 29.78 | 29.73 | 29.74 | 29.75 | 29.78 | 29.78 | 29.81 | 29.85 | 29.85 | 29.89 | 29.80 |
|             | SD      | .192  | .220  | .218  | .174  | .123  | .113  | .093  | .097  | .126  | .141  | .175  | .181  | .167  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3653  |
| 0400        | MEAN    | 29.85 | 29.82 | 29.76 | 29.72 | 29.74 | 29.74 | 29.77 | 29.77 | 29.80 | 29.84 | 29.84 | 29.89 | 29.80 |
|             | SD      | .195  | .221  | .220  | .177  | .125  | .113  | .093  | .098  | .129  | .143  | .177  | .182  | .169  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 299   | 310   | 3652  |
| 0700        | MEAN    | 29.87 | 29.85 | 29.79 | 29.75 | 29.77 | 29.77 | 29.80 | 29.80 | 29.83 | 29.87 | 29.87 | 29.91 | 29.82 |
|             | SD      | .203  | .223  | .226  | .183  | .128  | .115  | .091  | .099  | .128  | .146  | .181  | .184  | .171  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 309   | 300   | 310   | 300   | 310   | 3652  |
| 1000        | MEAN    | 29.90 | 29.88 | 29.82 | 29.77 | 29.78 | 29.79 | 29.82 | 29.82 | 29.85 | 29.89 | 29.89 | 29.94 | 29.85 |
|             | SD      | .207  | .228  | .231  | .187  | .131  | .117  | .091  | .101  | .129  | .149  | .184  | .189  | .176  |
|             | TOT OBS | 310   | 282   | 310   | 299   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3651  |
| 1300        | MEAN    | 29.85 | 29.84 | 29.78 | 29.73 | 29.75 | 29.76 | 29.79 | 29.79 | 29.81 | 29.84 | 29.84 | 29.88 | 29.80 |
|             | SD      | .209  | .223  | .228  | .186  | .129  | .117  | .092  | .101  | .126  | .147  | .185  | .190  | .173  |
|             | TOT OBS | 310   | 283   | 310   | 299   | 310   | 300   | 310   | 310   | 300   | 310   | 299   | 310   | 3651  |
| 1600        | MEAN    | 29.82 | 29.79 | 29.73 | 29.68 | 29.70 | 29.72 | 29.75 | 29.75 | 29.77 | 29.81 | 29.82 | 29.86 | 29.77 |
|             | SD      | .203  | .223  | .219  | .182  | .127  | .115  | .093  | .101  | .126  | .147  | .176  | .184  | .172  |
|             | TOT OBS | 310   | 283   | 310   | 300   | 310   | 300   | 310   | 309   | 300   | 310   | 300   | 310   | 3652  |
| 1900        | MEAN    | 29.85 | 29.81 | 29.75 | 29.69 | 29.71 | 29.72 | 29.76 | 29.75 | 29.78 | 29.83 | 29.84 | 29.89 | 29.78 |
|             | SD      | .197  | .220  | .214  | .175  | .120  | .111  | .091  | .097  | .122  | .145  | .172  | .180  | .170  |
|             | TOT OBS | 310   | 283   | 309   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3652  |
| 2200        | MEAN    | 29.86 | 29.83 | 29.78 | 29.73 | 29.75 | 29.76 | 29.79 | 29.79 | 29.82 | 29.86 | 29.86 | 29.90 | 29.81 |
|             | SD      | .193  | .220  | .212  | .173  | .119  | .111  | .090  | .096  | .123  | .144  | .171  | .181  | .166  |
|             | TOT OBS | 310   | 283   | 309   | 300   | 310   | 300   | 310   | 310   | 300   | 310   | 300   | 310   | 3652  |
| ALL HOURS   | MEAN    | 29.86 | 29.83 | 29.77 | 29.72 | 29.74 | 29.75 | 29.78 | 29.78 | 29.81 | 29.85 | 29.85 | 29.90 | 29.80 |
|             | SD      | .201  | .223  | .223  | .182  | .128  | .116  | .094  | .101  | .128  | .147  | .179  | .185  | .172  |
|             | TOT OBS | 2480  | 2263  | 2478  | 2398  | 2480  | 2400  | 2480  | 2478  | 2400  | 2480  | 2398  | 2480  | 29215 |

|         |           |          |           |         |
|---------|-----------|----------|-----------|---------|
| PPPPPPP | AAAAA     | RRRRRRR  | TTTTTTTTT | GGGGG   |
| PPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTT | GGGGGGG |
| PP PP   | AA AA     | RR RR    | TT        | GG GG   |
| PP PP   | AA AA     | RR RR    | TT        | GG      |
| PPPPPPP | AA AA     | RRRRRRR  | TT        | GG      |
| PPPPPPP | AAAAAAAAA | RRRRRRR  | TT        | GG GGG  |
| PP      | AAAAAAAAA | RR RR    | TT        | GG GGGG |
| PP      | AA AA     | RR RR    | TT        | GG GG   |
| PP      | AA AA     | RR RR    | TT        | GGGGGGG |
| PP      | AA AA     | RR RR    | TT        | GGGGGG  |

PART G  
CROSSWIND SUMMARY

CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST) | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |      | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |      |
|------------|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|
|            | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 930 |             |      |      | 930  |             |      |      | 930  |             |      |      | 930  |
| CATEGORY B | .4          |      |      | 998 | .2          |      |      | 1023 | .4          | .1   |      | 1044 | 1.1         | .1   |      | 1044 |

| TIME (LST) | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|------------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
|            | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 930  | .2          |      |      | 930 | .1          |      |      | 930 | .1          |      |      | 930 |
| CATEGORY B | 2.1         | .5   |      | 1024 | 1.5         | .4   |      | 989 | 1.2         | .5   | .1   | 986 | 1.0         | .7   | .1   | 986 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
|            | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A | .1          |      |      | 4650 | .1        |      |      | 7440 |
| CATEGORY B | 1.3         | .3   | .0   | 5087 | 1.0       | .3   | .0   | 8094 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
 FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  | .2          |      |      | 849 |             |      |      | 849 |             |      |      | 849  | .1          |      |      | 849 |
| CATEGORY B  | 1.0         | .2   | .2   | 904 | .7          | .2   |      | 947 | .7          | .1   |      | 1008 | 1.3         | .5   | .1   | 971 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 849 | .1          |      |      | 849 |             |      |      | 849 | .2          |      |      | 849 |
| CATEGORY B  | 2.8         | .5   |      | 940 | 3.0         | .9   | .2   | 909 | 1.3         | .3   |      | 916 | .9          | .1   | .1   | 906 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A | .0          |      |      | 4245 | .1        |      |      | 6792 |
| CATEGORY B | 1.8         | .5   | .1   | 4744 | 1.5       | .4   | .1   | 7501 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |      | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930  |             |      |      | 930  |             | .2   |      | 930  |
| CATEGORY B  | .1          |      |      | 995 | .2          |      |      | 1036 |             |      |      | 1088 | 1.2         | .2   | .1   | 1065 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  | .2          |      |      | 930  | .1          |      |      | 930 |             |      |      | 928 |             |      |      | 927 |
| CATEGORY B  | 1.5         | .5   | .3   | 1012 | 3.0         | .9   | .1   | 987 | 1.6         | .1   |      | 978 | .3          |      |      | 970 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A | .1          |      |      | 4648 | .1        |      |      | 7435 |
| CATEGORY B | 1.4         | .3   | .1   | 5130 | 1.0       | .2   | .1   | 8131 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: APR

.....  
CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)  
.....

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  | .1          |      |      | 900 |             |      |      | 900 | .1          |      |      | 900 |             |      |      | 900 |
| CATEGORY B  | .3          | .1   | .1   | 917 |             |      |      | 942 | .1          | .1   |      | 939 | 1.2         | .4   |      | 930 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 900 | .2          |      |      | 900 |             |      |      | 900 |             |      |      | 900 |
| CATEGORY B  | 4.1         | .5   |      | 940 | 2.5         | 1.0  | .3   | 928 | .7          | .1   |      | 919 | .5          | .2   |      | 914 |

| TIME (LST)  | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|-------------|-------------|------|------|------|-----------|------|------|------|
| SPEED - KTS | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A  | .1          |      |      | 4500 | .1        |      |      | 7200 |
| CATEGORY B  | 1.7         | .4   | .1   | 4656 | 1.2       | .3   | .1   | 7429 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  |             |      |      | 952 |             |      |      | 969 |             |      |      | 996 |             |      |      | 949 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  | .2          |      |      | 960 | 1.4         | .2   | .1   | 988 | .5          | .1   |      | 977 | .1          | .1   | .1   | 962 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4650 |           |      |      | 7440 |
| CATEGORY B | .4          | .1   | .0   | 4870 | .3        | .1   | .0   | 7753 |



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 900 |             |      |      | 900 |             |      |      | 900 |             |      |      | 900 |
| CATEGORY B  |             |      |      | 928 |             |      |      | 980 | .1          |      |      | 981 | .1          |      |      | 929 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 900 | .1          |      |      | 900 | .1          |      |      | 900 |             |      |      | 900 |
| CATEGORY B  |             |      |      | 947 | .9          | .5   | .2   | 940 | .2          | .1   |      | 940 |             |      |      | 931 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A | .0          |      |      | 4500 | .0        |      |      | 7200 |
| CATEGORY B | .3          | .1   | .0   | 4737 | .2        | .1   | .0   | 7576 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: +5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST) | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |     |
|------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
|            | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B |             |      |      | 948 |             |      |      | 976 |             |      |      | 999 | .1          |      |      | 945 |

| TIME (LST) | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
|            | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B | .7          | .2   | .2   | 993 | .9          | .3   |      | 998 | .5          | .3   | .3   | 981 | .1          | .1   |      | 960 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
|            | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4650 |           |      |      | 7440 |
| CATEGORY B | .4          | .2   | .1   | 4916 | .3        | .1   | .1   | 7800 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |      | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930  |             |      |      | 930  |             |      |      | 930 |
| CATEGORY B  |             |      |      | 975 |             |      |      | 1017 |             |      |      | 1078 |             |      |      | 996 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930  |             |      |      | 930  |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  | .3          | .1   |      | 1000 | .4          |      |      | 1001 | .1          |      |      | 988 | .1          | .1   | .1   | 984 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4650 |           |      |      | 7440 |
| CATEGORY B | .2          | .0   |      | 5063 | .1        | .0   | .0   | 8039 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST) | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |     |
|------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|-----|
|            | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 900 |             |      |      | 900 |             |      |      | 900  |             |      |      | 900 |
| CATEGORY B | .3          | .1   |      | 959 | .3          | .2   |      | 993 |             |      |      | 1044 | .1          |      |      | 987 |

| TIME (LST) | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
|            | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 900 |             |      |      | 900 |             |      |      | 900 |             |      |      | 900 |
| CATEGORY B | .1          |      |      | 935 | .1          |      |      | 940 | .2          |      |      | 942 |             |      |      | 936 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
|            | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4500 |           |      |      | 7200 |
| CATEGORY B | .1          |      |      | 4848 | .1        | .0   |      | 7736 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  |             |      |      | 962 |             |      |      | 965 |             |      |      | 990 |             |      |      | 983 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  | .3          |      |      | 968 | .2          |      |      | 958 |             |      |      | 953 |             |      |      | 951 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4650 |           |      |      | 7440 |
| CATEGORY B | .1          |      |      | 4852 | .1        |      |      | 7730 |

OPERATING-LOCATION "A"  
USAFETAC, ASHEVILLE. NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST) | 0000 - 0200 |      |      |      | 0300 - 0500 |      |      |      | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |      |     |
|------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-----|
|            | SPEED (KTS) | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 900  |             |      |      | 900  |             |      |      | 900  |             |      |      |      | 900 |
| CATEGORY B |             | .1   |      | 955  |             |      |      | 984  |             |      |      | 1024 |             | .2   | .2   |      | 985 |

| TIME (LST) | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |      | 2100 - 2300 |      |      |      |     |
|------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-----|
|            | SPEED (KTS) | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS         | GE20 | GE25 | GE30 | OBS |
| CATEGORY A |             |      |      | 900  |             |      |      | 900  |             |      |      | 900  |             |      |      |      | 900 |
| CATEGORY B |             | .8   | .2   | 958  |             | .4   | .1   | 934  |             |      |      | 939  |             | .2   |      |      | 944 |

| TIME (LST) | 0400 - 2000 |      |      |      | ALL HOURS |      |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|------|
|            | SPEED-KTS   | GE20 | GE25 | GE30 | OBS       | GE20 | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      |      | 4500      |      |      |      | 7200 |
| CATEGORY B |             | .3   | .1   |      | 4840      |      | .2   | .1   | 7723 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|------|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS  | GE20        | GE25 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930  |             |      |      | 930  |
| CATEGORY B  | .2          |      |      | 978 |             |      |      | 986 | .3          | .1   |      | 1001 | .7          | .2   |      | 1002 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS | GE20        | GE25 | GE30 | OBS |
| CATEGORY A  |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |             |      |      | 930 |
| CATEGORY B  | 1.5         | .3   |      | 983 | 1.5         | .5   |      | 976 | .8          | .1   |      | 962 | .2          | .1   | .1   | 963 |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS  | GE20      | GE25 | GE30 | OBS  |
| CATEGORY A |             |      |      | 4650 |           |      |      | 7440 |
| CATEGORY B | 1.0         | .2   |      | 4924 | .7        | .2   | .0   | 7851 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
 FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 040-220

STATION NUMBER: 747900 STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: APR 79 - MAR 89  
 MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |       | 0300 - 0500 |      |      |       | 0600 - 0800 |      |      |       | 0900 - 1100 |      |      |       |
|-------------|-------------|------|------|-------|-------------|------|------|-------|-------------|------|------|-------|-------------|------|------|-------|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   |
| CATEGORY A  | .0          |      |      | 1099  |             |      |      | 10959 | .0          |      |      | 10959 | .0          |      |      | 10959 |
| CATEGORY B  | .2          | .0   | .0   | 11471 | .1          | .0   |      | 11818 | .1          | .0   |      | 12192 | .5          | .1   | .0   | 11786 |

| TIME (LST)  | 1200 - 1400 |      |      |       | 1500 - 1700 |      |      |       | 1800 - 2000 |      |      |       | 2100 - 2300 |      |      |       |
|-------------|-------------|------|------|-------|-------------|------|------|-------|-------------|------|------|-------|-------------|------|------|-------|
| SPEED (KTS) | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   | GE20        | GE25 | GE30 | OBS   |
| CATEGORY A  | .0          |      |      | 10959 | .1          |      |      | 10959 | .0          |      |      | 10957 | .0          |      |      | 10956 |
| CATEGORY B  | 1.2         | .2   | .0   | 11660 | 1.3         | .4   | .1   | 11548 | .6          | .1   | .0   | 11481 | .3          | .1   | .0   | 11407 |

| TIME (LST) | 0600 - 2000 |      |      |       | ALL HOURS |      |      |       |
|------------|-------------|------|------|-------|-----------|------|------|-------|
| SPEED KTS  | GE20        | GE25 | GE30 | OBS   | GE20      | GE25 | GE30 | OBS   |
| CATEGORY A | .0          |      |      | 54793 | .0        |      |      | 87667 |
| CATEGORY B | .7          | .2   | .0   | 58667 | .5        | .1   | .0   | 93363 |



|         |         |         |          |          |          |
|---------|---------|---------|----------|----------|----------|
| PPPPPPP | AAAAAA  | RRRRRRR | TTTTTTTT | HH       | HH       |
| PPPPPPP | AAAAAAA | RRRRRRR | TTTTTTTT | HH       | HH       |
| PP PP   | AA AA   | RR RR   | TT       | HH       | HH       |
| PP PP   | AA AA   | RR RR   | TT       | HH       | HH       |
| PPPPPPP | AA AA   | RRRRRRR | TT       | HHHHHHHH | HHHHHHHH |
| PPPPPPP | AAAAAAA | RRRRRRR | TT       | HHHHHHHH | HHHHHHHH |
| PP      | AAAAAAA | RR RR   | TT       | HH       | HH       |
| PP      | AA AA   | RR RR   | TT       | HH       | HH       |
| PP      | AA AA   | RR RR   | TT       | HH       | HH       |
| PP      | AA AA   | RR RR   | TT       | HH       | HH       |

PART H

DEGREE DAY SUMMARIES

DEGREE DAYS.

CREATED FROM HOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (\*\*\*\*) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

\*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE-NC

HEATING DEGREE DAYS  
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
LST TO UTC: + 5

PERIOD OF RECORD: JAN 42 - MAR 89

| YEARS | JAN | FEB | MAR | APR | MAY | JUN | JUL  | AUG | SEP | OCT | NOV | DEC | ANN  |
|-------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|
| 1942  | 579 | 585 | 269 | 87  |     |     |      |     | 18  | 35  | 227 | 558 | 2358 |
| 1943  | 514 | 358 | 336 | 129 | 2   |     |      |     | 3   | 84  | 323 | 547 | 2296 |
| 1944  | 535 | 348 | 279 | 109 | 6   |     |      |     |     | 77  | 312 | 656 | 2322 |
| 1945  | 552 | 365 | 105 | 46  | 48  |     |      |     |     | 75  | 252 | 693 | 2136 |
| 1946  | 521 | 380 | 128 | 91  | 9   |     |      |     |     | 54  | 151 | 405 | 1739 |
| 1947  | 429 | 624 | 528 | 44  | 15  |     | **** |     | 24  | 17  | 370 | 525 | 2576 |
| 1948  | 740 | 484 | 242 | 51  | 1   |     |      |     | 5   | 138 | 181 | 430 | 2272 |
| 1949  | 287 | 270 | 302 | 121 | 4   |     |      |     | 7   | 12  | 299 | 453 | 1755 |
| 1950  | 226 | 331 | 387 | 159 | 3   |     |      |     | 24  | 16  | 411 | 689 | 2246 |
| 1951  | 524 | 420 | 291 | 98  | 2   |     |      |     | 2   | 39  | 403 | 433 | 2212 |
| 1952  | 359 | 400 | 295 | 113 | 10  |     |      |     |     | 144 | 252 | 550 | 2123 |
| 1953  | 396 | 361 | 234 | 99  |     |     |      |     | 2   | 39  | 297 | 479 | 1907 |
| 1954  | 480 | 300 | 318 | 47  | 38  |     |      |     |     | 95  | 355 | 578 | 2211 |
| 1955  | 580 | 399 | 238 | 40  |     |     |      |     |     | 82  | 339 | 616 | 2294 |
| 1956  | 625 | 318 | 293 | 126 | 10  |     |      |     | 22  | 43  | 323 | 242 | 2002 |
| 1957  | 501 | 275 | 315 | 75  | 30  |     |      |     | 18  | 132 | 242 | 463 | 2051 |
| 1958  | 726 | 628 | 417 | 101 | 17  |     |      |     | 1   | 114 | 186 | 632 | 2822 |
| 1959  | 597 | 386 | 331 | 83  | 2   |     |      |     |     | 93  | 293 | 486 | 2271 |
| 1960  | 547 | 516 | 621 | 62  | 27  |     |      |     |     | 58  | 233 | 668 | 2732 |
| 1961  | 646 | 402 | 257 | 231 | 16  | 2   |      |     | 5   | 82  | 259 | 518 | 2398 |
| 1962  | 605 | 370 | 406 | 162 |     |     |      |     | 17  | 104 | 356 | 659 | 2679 |
| 1963  | 715 | 634 | 205 | 102 | 42  |     |      |     | 19  | 75  | 302 | 784 | 2878 |
| 1964  | 632 | 568 | 327 | 105 | 19  |     |      |     | 3   | 177 | 185 | 445 | 2461 |
| 1965  | 538 | 395 | 361 | 101 |     | 1   |      |     |     | 129 | 275 | 535 | 2335 |
| 1966  | 749 | 499 | 362 | 120 | 21  | 2   |      |     |     | 96  | 323 | 562 | 2734 |
| 1967  | 494 | 532 | 229 | 47  | 36  | 9   |      |     | 16  | 88  | 362 | 422 | 2235 |

|      |     |     |     |     |    |   |    |     |     |     |      |
|------|-----|-----|-----|-----|----|---|----|-----|-----|-----|------|
| 1968 | 769 | 687 | 312 | 87  | 19 |   |    | 82  | 306 | 625 | 2887 |
| 1969 | 658 | 541 | 404 | 75  | 7  |   |    | 86  | 349 | 579 | 2704 |
| 1970 | 745 | 447 | 214 | 44  | 10 |   |    | 58  | 342 | 474 | 2338 |
| 1971 | 581 | 458 | 403 | 102 | 31 |   |    | 9   | 292 | 231 | 2107 |
| 1974 | 242 | 399 | 184 | 92  | 11 |   |    | 19  | 155 | 339 | 1981 |
| 1975 | 437 | 363 | 334 | 145 |    |   |    | 2   | 63  | 268 | 2192 |
| 1976 | 665 | 248 | 152 | 77  | 15 | 1 |    | 170 | 446 | 629 | 2403 |
| 1977 | 913 | 506 | 196 | 53  | 9  |   |    | 104 | 205 | 490 | 2476 |
| 1978 | 730 | 669 | 331 | 61  | 24 |   |    | 74  | 142 | 455 | 2486 |
| 1979 | 666 | 584 | 245 | 55  | 9  |   |    | 5   | 104 | 245 | 2444 |
| 1980 | 555 | 595 | 377 | 93  | 14 |   |    | 7   | 127 | 329 | 2627 |
| 1981 | 715 | 412 | 338 | 34  | 19 |   |    | 2   | 128 | 302 | 2569 |
| 1982 | 713 | 408 | 277 | 166 | 6  |   |    | 7   | 133 | 258 | 2357 |
| 1983 | 676 | 504 | 314 | 203 | 12 |   |    | 20  | 75  | 318 | 2718 |
| 1984 | 648 | 413 | 305 | 154 | 22 |   |    | 15  | 14  | 383 | 2253 |
| 1985 | 723 | 488 | 283 | 80  | 7  |   |    | 19  | 32  | 84  | 2311 |
| 1986 | 656 | 344 | 278 | 79  | 4  |   | 10 | 64  | 178 | 485 | 2098 |
| 1987 | 603 | 532 | 362 | 169 | 8  |   |    | 206 | 286 | 487 | 2653 |
| 1988 | 805 | 581 | 331 | 125 | 19 | 4 |    | 2   | 229 | 278 | 2944 |
| 1989 | 464 | 428 | 315 |     |    |   |    |     |     |     | 1207 |

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|      |        |        |       |       |       |      |      |      |       |       |        |
|------|--------|--------|-------|-------|-------|------|------|------|-------|-------|--------|
| MEAN | 588    | 451    | 304   | 98    | 13    | 0    | 0    | 6    | 89    | 285   | 527    |
| SD   | 145.33 | 112.60 | 93.17 | 44.76 | 12.18 | 1.50 | 1.49 | 8.16 | 51.00 | 75.67 | 112.92 |

\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*

|      |        |        |       |       |       |      |  |      |       |       |        |
|------|--------|--------|-------|-------|-------|------|--|------|-------|-------|--------|
| MEAN | 595    | 460    | 308   | 92    | 14    | 0    |  | 5    | 93    | 294   | 526    |
| SD   | 140.90 | 121.05 | 95.93 | 40.70 | 12.43 | 1.75 |  | 7.37 | 40.40 | 68.61 | 116.33 |

OPERATING LOCATION "A"  
 USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS  
 FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 747900

STATION NAME: SHAW AFB SC  
 LST TO UTC: + 5

PERIOD OF RECORD: JAN 42 - MAR 89

| YEARS | JAN | FEB | MAR | APR | MAY | JUN | JUL  | AUG | SEP | OCT | NOV | DEC | ANN  |
|-------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|
| 1942  |     |     | 13  | 126 | 253 | 470 | 569  | 462 | 377 | 105 | 33  | 1   | 2409 |
| 1943  | 12  | 1   | 22  | 84  | 299 | 542 | 530  | 550 | 252 | 83  | 11  | 6   | 2392 |
| 1944  | 5   | 20  | 16  | 100 | 350 | 556 | 453  | 457 | 372 | 96  | 4   |     | 2429 |
| 1945  |     | 14  | 121 | 143 | 191 | 467 | 501  | 446 | 394 | 60  | 27  |     | 2364 |
| 1946  | 13  |     | 40  | 96  | 210 | 408 | 477  | 424 | 290 | 95  | 35  | 4   | 2092 |
| 1947  | 7   |     | 1   | 100 | 272 | 385 | **** | 482 | 364 | 156 |     |     | 1767 |
| 1948  |     | 10  | 40  | 111 | 263 | 471 | 533  | 455 | 252 | 24  | 30  | 5   | 2194 |
| 1949  | 11  | 9   | 50  | 49  | 265 | 420 | 547  | 480 | 259 | 160 | 1   | 4   | 2255 |
| 1950  | 25  | 7   | 2   | 78  | 276 | 449 | 425  | 409 | 261 | 110 | 22  |     | 2084 |
| 1951  |     | 6   | 22  | 50  | 206 | 454 | 518  | 525 | 319 | 149 | 12  | 12  | 2273 |
| 1952  | 10  |     | 8   | 59  | 306 | 565 | 542  | 466 | 278 | 49  | 6   |     | 2289 |
| 1953  |     |     | 19  | 73  | 403 | 442 | 534  | 487 | 310 | 116 | 14  |     | 2398 |
| 1954  | 3   | 1   | 34  | 142 | 151 | 468 | 583  | 583 | 426 | 179 | 5   | 3   | 2578 |
| 1955  |     | 3   | 59  | 119 | 309 | 318 | 536  | 523 | 331 | 81  | 22  | 6   | 2307 |
| 1956  |     | 7   | 21  | 81  | 273 | 433 | 530  | 508 | 261 | 96  | 20  | 19  | 2249 |
| 1957  | 9   | 12  | 7   | 135 | 275 | 444 | 507  | 456 | 375 | 29  | 29  |     | 2278 |
| 1958  |     |     | 84  | 261 | 402 | 534 | 505  | 325 | 56  | 40  |     |     | 2207 |
| 1959  |     | 4   | 9   | 121 | 312 | 447 | 474  | 524 | 317 | 152 | 24  |     | 2384 |
| 1960  |     |     | 10  | 121 | 258 | 438 | 495  | 493 | 334 | 143 | 2   |     | 2294 |
| 1961  |     | 2   | 28  | 35  | 158 | 379 | 496  | 438 | 374 | 72  | 79  |     | 2061 |
| 1962  | 3   | 16  | 7   | 62  | 366 | 333 | 461  | 427 | 255 | 133 | 1   |     | 2064 |
| 1963  |     |     | 33  | 102 | 212 | 407 | 456  | 467 | 206 | 56  | 1   |     | 1940 |
| 1964  |     |     | 17  | 90  | 250 | 433 | 392  | 400 | 267 | 44  | 26  | 7   | 1926 |
| 1965  |     | 13  | 6   | 89  | 332 | 296 | 437  | 4   | 291 | 71  |     |     | 1989 |
| 1966  |     |     | 7   | 66  | 178 | 298 | 498  | 421 | 259 | 75  | 7   | 6   | 1815 |
| 1967  |     | 1   | 49  | 121 | 193 | 325 | 436  | 420 | 173 | 61  | 3   | 9   | 1791 |

|      |    |    |    |     |     |     |     |     |     |     |    |    |      |
|------|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|------|
| 1968 |    |    | 19 | 72  | 164 | 364 | 476 | 540 | 328 | 140 | 11 |    | 2114 |
| 1969 |    |    | 5  | 80  | 213 | 447 | 538 | 386 | 260 | 128 | 3  |    | 2060 |
| 1970 | 4  |    | 14 | 178 | 319 | 472 | 557 | 499 | 401 | 93  |    | 7  | 2544 |
| 1971 |    | 10 | 6  | 76  | 153 | 396 | 492 | 500 | 391 | 198 | 33 | 51 | 2306 |
| 1974 | 14 | 5  | 65 | 96  | 279 | 332 | 427 | 403 | 246 | 31  | 22 |    | 1920 |
| 1975 | 7  | 4  | 11 | 77  | 256 | 370 | 443 | 525 | 308 | 110 | 43 |    | 2154 |
| 1976 |    | 12 | 69 | 108 | 175 | 346 | 511 | 417 | 275 | 58  | 3  |    | 1974 |
| 1977 |    |    | 47 | 131 | 314 | 486 | 634 | 521 | 421 | 72  | 59 | 5  | 2690 |
| 1978 |    |    | 6  | 118 | 245 | 448 | 530 | 498 | 356 | 68  | 17 | 18 | 2304 |
| 1979 |    |    | 10 | 52  | 187 | 314 | 427 | 434 | 262 | 65  | 24 |    | 1775 |
| 1980 |    |    |    | 71  | 213 | 347 | 522 | 526 | 408 | 54  | 3  |    | 2144 |
| 1981 |    |    | 12 | 150 | 199 | 533 | 523 | 400 | 265 | 47  |    |    | 2129 |
| 1982 |    |    | 27 | 30  | 239 | 348 | 427 | 394 | 224 | 74  | 10 | 14 | 1787 |
| 1983 |    |    | 3  | 19  | 187 | 331 | 516 | 518 | 296 | 72  | 1  |    | 1943 |
| 1984 |    |    | 14 | 49  | 173 | 388 | 405 | 413 | 210 | 161 | 8  | 8  | 1829 |
| 1985 | 3  | 2  | 30 | 111 | 228 | 361 | 429 | 351 | 220 | 144 | 64 | 2  | 1945 |
| 1986 |    |    | 21 | 121 | 250 | 464 | 627 | 411 | 356 | 143 | 56 | 7  | 2456 |
| 1987 |    |    | 9  | 43  | 260 | 371 | 509 | 529 | 302 | 2   | 4  |    | 2029 |
| 1988 |    |    | 2  | 46  | 157 | 324 | 475 | 495 | 275 | 19  | 6  |    | 1799 |
| 1989 |    | 15 | 13 |     |     |     |     |     |     |     |    |    | 28   |

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|      |      |      |       |       |       |       |       |       |       |       |       |      |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MEAN | 2    | 3    | 22    | 90    | 245   | 410   | 498   | 467   | 305   | 91    | 18    | 4    |
| SD   | 5.28 | 5.51 | 22.95 | 35.43 | 61.09 | 69.75 | 55.06 | 52.47 | 62.84 | 46.86 | 19.21 | 8.64 |

\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*

|      |      |      |       |       |       |       |       |       |       |       |       |       |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 1    | 3    | 21    | 93    | 248   | 400   | 499   | 476   | 312   | 92    | 18    | 5     |
| SD   | 3.71 | 4.87 | 19.85 | 32.68 | 67.85 | 66.64 | 53.10 | 50.46 | 64.73 | 45.30 | 19.19 | 10.51 |

A W S  
CLIMATIC BRIEF  
OCT 89

STATION NAME: SHAW AFB SC  
LATITUDE/LONGITUDE: 33 58 N 080 28 W  
HOURLY OBS POR: APR 79 - MAR 89  
SUMMARY OF DAY POR: JAN 42 - MAR 89  
HOURS SUMMARIZED: 0000 - 2300 LST  
LST TO UTC: +05

FIELD ELEV: 242 FT  
STATION MSC: 747900  
CALL SIGN: KSSC  
SUPERCEDED: NOV 84

| MONTH                  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   | YOR |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| EXTRM MAX TEMP (F)     | 81    | 82    | 90    | 95    | 99    | 106   | 105   | 104   | 101   | 99    | 88    | 82    | 106   | 47  |
| MEAN MAX TEMP (F)      | 55.1  | 58.5  | 65.9  | 75.1  | 82.2  | 87.8  | 89.6  | 88.5  | 83.6  | 74.8  | 66.0  | 57.3  | 73.7  | 47  |
| MEAN TEMP (F)          | 45.9  | 48.6  | 55.7  | 64.4  | 72.2  | 78.4  | 80.9  | 79.8  | 74.8  | 64.9  | 55.8  | 47.9  | 64.1  | 47  |
| MEAN MIN TEMP (F)      | 36.4  | 38.4  | 45.1  | 53.3  | 61.7  | 68.6  | 71.7  | 70.8  | 65.7  | 54.5  | 45.2  | 38.2  | 54.2  | 47  |
| EXTRM MIN TEMP (F)     | 3     | 9     | 16    | 29    | 40    | 50    | 57    | 53    | 44    | 30    | 16    | 8     | 3     | 47  |
| D/W TEMP GE 100 (F)    | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | #     | 0     | 0     | 0     | 3     | 47  |
| D/W TEMP GE 90 (F)     | 0     | 0     | #     | 1     | 4     | 12    | 16    | 14    | 6     | 1     | 0     | 0     | 54    | 47  |
| D/W TEMP LT 33 (F)     | 11    | 8     | 2     | #     | 0     | 0     | 0     | 0     | 0     | #     | 2     | 9     | 32    | 47  |
| D/W TEMP LT 20 (F)     | 1     | 1     | #     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | #     | 1     | 3     | 47  |
| HEATING DEGREE DAYS    | 588   | 451   | 304   | 98    | 13    | #     | #     | #     | 6     | 89    | 285   | 527   | 2361  | 47  |
| COOLING DEGREE DAYS    | 2     | 3     | 22    | 90    | 245   | 410   | 498   | 467   | 305   | 91    | 18    | 4     | 2155  | 47  |
| MEAN DEWPOINT TEMP (F) | 28.8  | 32.9  | 39.1  | 45.8  | 56.4  | 63.8  | 68.1  | 68.0  | 62.2  | 50.7  | 43.1  | 33.8  | 49.5  | 10  |
| MEAN WET BULB TEMP (F) | 37.6  | 41.5  | 47.3  | 54.1  | 62.3  | 68.4  | 71.8  | 71.3  | 66.2  | 56.2  | 49.7  | 41.9  | 55.8  | 10  |
| 99.95% WCPA (FT)       | 650   | 750   | 800   | 750   | 550   | 500   | 400   | 450   | 500   | 500   | 600   | 600   | 650   | 10  |
| MEAN REL HUM 07 LST(%) | 67.8  | 69.5  | 71.1  | 71.3  | 77.3  | 78.8  | 82.1  | 85.3  | 82.6  | 78.6  | 75.6  | 69.5  | 75.8  | 10  |
| MEAN REL HUM 13 LST(%) | 50.2  | 49.1  | 47.7  | 43.6  | 48.2  | 52.2  | 55.7  | 57.7  | 55.7  | 50.5  | 51.0  | 48.9  | 50.9  | 10  |
| MAX 24HR PRECIP (IN)   | 3.78  | 2.70  | 5.65  | 2.98  | 4.90  | 7.51  | 3.97  | 4.91  | 6.55  | 3.90  | 3.10  | 2.89  | 7.51  | 47  |
| MAX PRECIP (IN)        | 7.37  | 6.52  | 12.73 | 10.08 | 10.64 | 17.83 | 13.35 | 14.50 | 14.84 | 9.11  | 8.09  | 7.38  | 62.65 | 47  |
| MEAN PRECIP (IN)       | 3.41  | 3.57  | 4.23  | 3.24  | 3.61  | 4.89  | 5.48  | 4.70  | 3.64  | 2.52  | 2.60  | 3.21  | 45.30 | 47  |
| MIN PRECIP (IN)        | .65   | .32   | .53   | .35   | .40   | 1.15  | .66   | .74   | .31   | .03   | .33   | .27   | 27.71 | 47  |
| D/W PRECIP GE .01 (IN) | 10    | 9     | 10    | 8     | 9     | 9     | 12    | 10    | 8     | 6     | 7     | 9     | 107   | 47  |
| D/W PRECIP GT .50 (IN) | 2     | 2     | 3     | 2     | 2     | 3     | 4     | 3     | 2     | 2     | 2     | 2     | 29    | 47  |
| MAX 24HR SNFL (IN)     | 3.5   | 13.8  | 4.1   | #     | 0     | 0     | 0     | 0     | 0     | #     | #     | 4.6   | 13.8  | 43  |
| MAX SNFL (IN)          | 3.5   | 16.5  | 4.2   | #     | 0     | 0     | 0     | 0     | 0     | #     | #     | 4.6   | 20.3  | 43  |
| MEAN SNFL (IN)         | .4    | 1.0   | .3    | #     | 0     | 0     | 0     | 0     | 0     | #     | #     | .2    | 1.8   | 43  |
| D/W SNFL GE .1 (IN)    | 1     | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | #     | 3     | 43  |
| D/W SNFL GE 1.5 (IN)   | #     | 1     | #     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | #     | 1     | 43  |
| MAX DLY SNO DEPTH (IN) | 3     | 17    | 5     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3     | 17    | 43  |
| MEAN SFC WND DIR (DEG) | \$030 | \$030 | \$030 | \$270 | \$210 | \$240 | \$210 | \$210 | \$030 | \$030 | \$030 | \$030 | \$030 | 10  |
| MEAN WND SPD (KTS)     | 5.0   | 5.4   | 5.5   | 5.7   | 4.6   | 4.0   | 3.7   | 3.6   | 3.8   | 4.0   | 4.3   | 4.5   | 4.5   | 10  |
| MAX WND SPD (KTS)      | 50    | 68    | 58    | 52    | 56    | 68    | 58    | 72    | 47    | 50    | 42    | 47    | 72    | 42  |
| SKY COVER GT 1/2 (%)   | 52.0  | 57.4  | 52.0  | 45.0  | 50.0  | 49.5  | 53.0  | 50.1  | 47.0  | 44.3  | 49.0  | 50.3  | 50.2  | 10  |
| D/W THUNDERSTORMS      | 1     | 1     | 2     | 4     | 7     | 8     | 12    | 9     | 4     | 1     | 1     | 1     | 51    | 40  |
| D/W FOG (VSBY LT 7 MI) | 14    | 12    | 14    | 12    | 16    | 17    | 18    | 21    | 20    | 16    | 14    | 13    | 187   | 40  |

LEGEND: ANN = ANNUAL  
D/W = MEAN NUMBER OF DAYS WITH  
& = BASED ON LESS THAN FULL MONTHS  
\*\* = INSTANTANEOUS PEAK WINDS  
\* = DATA NOT AVAILABLE

POR/YOR = PERIOD/YEARS OF RECORD  
WCPA = WORST CASE MAXIMUM PRESSURE ALTITUDE  
# = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE  
\$ = PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN WIND DIRECTION

CB-1

|   |  | PERCENT OCCURRENCE FREQUENCY OF CEILING AND VISIBILITY |      |      |      |      |      |      |      |      |      |      |      |      |     |
|---|--|--|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MONTH   |  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANN  | YOR |
| CIG<br>LT 3000 FT<br>AND/OR<br>VSBY<br>LT 3 MI  | LST  |  |      |      |      |      |      |      |      |      |      |      |      |      |     |
|   | 00 - 02  | 22.2   | 21.9 | 18.0 | 9.1  | 10.3 | 7.4  | 6.9  | 8.8  | 15.2 | 13.0 | 18.1 | 18.9 | 14.1 | 10  |
|   | 03 - 05  | 25.3   | 24.5 | 22.6 | 13.9 | 15.7 | 16.2 | 15.3 | 16.7 | 21.6 | 20.4 | 26.0 | 21.8 | 20.0 | 10  |
|   | 06 - 08  | 27.5   | 27.8 | 27.2 | 17.0 | 23.2 | 23.2 | 28.6 | 35.6 | 34.9 | 29.2 | 30.6 | 25.7 | 27.5 | 10  |
|   | 09 - 11  | 26.8   | 26.1 | 21.4 | 12.1 | 13.0 | 12.2 | 13.7 | 17.5 | 21.3 | 20.5 | 24.7 | 24.3 | 19.5 | 10  |
|   | 12 - 14  | 25.1   | 21.3 | 17.4 | 8.9  | 5.6  | 5.0  | 6.5  | 7.5  | 14.3 | 12.7 | 20.4 | 20.8 | 13.8 | 10  |
|   | 15 - 17  | 22.0   | 18.3 | 14.2 | 7.0  | 3.0  | 3.6  | 4.3  | 5.7  | 10.9 | 10.8 | 14.9 | 17.5 | 11.0 | 10  |
|   | 18 - 20  | 20.2   | 17.2 | 13.0 | 6.3  | 4.1  | 4.4  | 3.9  | 5.6  | 9.0  | 9.8  | 15.3 | 16.7 | 10.5 | 10  |
|   | 21 - 23  | 19.4   | 20.1 | 11.8 | 7.4  | 6.9  | 6.2  | 4.7  | 7.0  | 10.9 | 10.3 | 16.0 | 16.1 | 11.4 | 10  |
|   | ALL  | 23.5   | 22.2 | 18.2 | 10.2 | 10.2 | 9.8  | 10.5 | 13.1 | 17.3 | 15.8 | 20.7 | 20.2 | 16.0 | 10  |
| CIG<br>LT 1500 FT<br>AND/OR<br>VSBY<br>LT 3 MI  | 00 - 02  | 18.9   | 17.8 | 14.0 | 6.6  | 7.5  | 5.8  | 4.8  | 6.2  | 13.0 | 10.5 | 14.3 | 16.5 | 11.3 | 10  |
|   | 03 - 05  | 21.2   | 21.2 | 17.6 | 11.8 | 12.8 | 14.3 | 13.2 | 13.8 | 19.7 | 17.0 | 21.8 | 19.5 | 17.0 | 10  |
|   | 06 - 08  | 22.7   | 23.6 | 22.0 | 13.4 | 20.1 | 19.3 | 26.5 | 33.9 | 32.0 | 25.7 | 25.9 | 23.1 | 24.0 | 10  |
|   | 09 - 11  | 22.6   | 21.4 | 17.2 | 8.2  | 7.7  | 5.8  | 8.3  | 12.2 | 16.8 | 15.8 | 20.2 | 19.5 | 14.6 | 10  |
|   | 12 - 14  | 19.8   | 16.5 | 11.5 | 3.6  | 3.3  | 1.4  | 2.5  | 2.6  | 7.8  | 7.7  | 11.7 | 14.3 | 8.6  | 10  |
|   | 15 - 17  | 16.5   | 13.8 | 7.6  | 3.3  | 2.0  | 1.9  | 2.3  | 3.2  | 6.1  | 6.6  | 9.8  | 11.8 | 7.1  | 10  |
|   | 18 - 20  | 14.8   | 13.0 | 7.5  | 4.1  | 2.8  | 2.8  | 1.8  | 3.2  | 6.2  | 6.8  | 10.6 | 11.9 | 7.1  | 10  |
|   | 21 - 23  | 15.2   | 15.9 | 9.0  | 5.1  | 4.3  | 4.2  | 2.8  | 3.8  | 7.9  | 6.6  | 12.3 | 12.4 | 8.3  | 10  |
|   | ALL  | 19.0   | 17.9 | 13.3 | 7.0  | 7.6  | 6.9  | 7.8  | 9.9  | 13.7 | 12.1 | 15.8 | 16.1 | 12.2 | 10  |
|   | CIG<br>LT 1000 FT<br>AND/OR<br>VSBY<br>LT 2 MI | 00 - 02  | 16.3 | 13.8 | 9.1  | 5.0  | 5.1  | 4.2  | 3.9  | 4.5  | 10.1 | 7.5  | 12.2 | 12.2 | 8.7 |
| 03 - 05   |  | 19.0   | 17.4 | 13.8 | 8.3  | 9.8  | 10.1 | 8.8  | 10.8 | 15.3 | 12.9 | 17.1 | 15.6 | 13.2 | 10  |
| 06 - 08   |  | 19.1   | 19.7 | 17.4 | 10.4 | 14.0 | 12.7 | 14.7 | 19.1 | 22.9 | 18.7 | 20.1 | 19.0 | 17.3 | 10  |
| 09 - 11   |  | 18.3   | 16.1 | 12.2 | 4.8  | 3.9  | 2.2  | 3.5  | 5.1  | 10.3 | 11.1 | 15.7 | 15.8 | 9.9  | 10  |
| 12 - 14   |  | 15.2   | 12.0 | 7.1  | 2.1  | 1.5  | .6   | 1.1  | 1.4  | 3.1  | 4.7  | 8.0  | 10.5 | 5.6  | 10  |
| 15 - 17   |  | 13.2   | 10.5 | 4.6  | 1.8  | .9   | .8   | 1.1  | 1.8  | 3.4  | 4.2  | 7.6  | 8.3  | 4.8  | 10  |
| 18 - 20   |  | 12.9   | 10.6 | 5.1  | 2.0  | 1.4  | 1.0  | .9   | 1.4  | 3.8  | 4.5  | 8.6  | 8.6  | 5.1  | 10  |
| 21 - 23   |  | 13.7   | 12.2 | 6.1  | 4.3  | 2.5  | 2.8  | 2.0  | 1.8  | 5.6  | 5.4  | 10.7 | 9.7  | 6.4  | 10  |
| ALL   |  | 16.0   | 14.0 | 9.4  | 4.8  | 4.9  | 4.3  | 4.5  | 5.7  | 9.3  | 8.6  | 12.5 | 12.5 | 8.9  | 10  |
| CIG<br>LT 200 FT<br>AND/OR<br>VSBY<br>LT 1/2 MI |  | 00 - 02  | 4.4  | 1.5  | .9   | .4   | .4   | .1   | .0   | .1   | .9   | 1.1  | 1.7  | 2.3  | 1.1 |
|   | 03 - 05  | 3.1  | 2.2  | 1.9  | 1.0  | 2.0  | .9   | 1.5  | 2.0  | 3.8  | 3.1  | 3.7  | 4.7  | 2.5  | 10  |
|   | 06 - 08  | 2.9  | 4.1  | 3.8  | 1.4  | 2.4  | 1.8  | 2.3  | 3.7  | 3.4  | 4.3  | 4.3  | 5.7  | 3.3  | 10  |
|   | 09 - 11  | 2.3  | 1.5  | .9   | .1   | .0   | .0   | .0   | .0   | .0   | .8   | 1.3  | 2.0  | .7   | 10  |
|   | 12 - 14  | .5   | .6   | .0   | .0   | .0   | .0   | .0   | .0   | .0   | .0   | .1   | .5   | .1   | 10  |
|   | 15 - 17  | .4   | .2   | .0   | .1   | .1   | .0   | .1   | .0   | .0   | .0   | .0   | .2   | .1   | 10  |
|   | 18 - 20  | .9   | .8   | .2   | .0   | .1   | .0   | .0   | .0   | .0   | .0   | .2   | .9   | .3   | 10  |
|   | 21 - 23  | 2.6  | 1.3  | .1   | .0   | .1   | .0   | .0   | .0   | .0   | .3   | 1.2  | .8   | .5   | 10  |
|   | ALL  | 2.1  | 1.5  | 1.0  | .4   | .6   | .3   | .5   | .7   | 1.0  | 1.2  | 1.6  | 2.1  | 1.1  | 10  |

HURRICANES/TROPICAL STORMS OBSERVED FOR THE PERIOD : 1900 - 1986

|       |      |       |       |      |     |      |        |
|-------|------|-------|-------|------|-----|------|--------|
| HR/TS | JAN  | FEB   | MAR   | APR  | MAY | JUN  |        |
| 60NM  | 0/0  | 0/0   | 0/0   | 0/0  | 0/0 | 0/2  |        |
| 120NM | 0/0  | 0/0   | 0/0   | 0/0  | 0/1 | 0/7  |        |
| 240NM | 0/0  | 0/1   | 0/0   | 0/0  | 0/3 | 2/15 |        |
| HR/TS | JUL  | AUG   | SEP   | OCT  | NOV | DEC  | ANN    |
| 60NM  | 2/3  | 2/6   | 1/6   | 0/5  | 0/1 | 0/0  | 5/23   |
| 120NM | 4/7  | 4/11  | 5/12  | 1/8  | 0/1 | 0/0  | 14/47  |
| 240NM | 6/10 | 16/23 | 15/27 | 7/20 | 2/2 | 0/0  | 48/101 |

CB-2



## DISTRIBUTION

|  |    |
|--|----|
| 5WW/DN, Langley AFB, VA 23665-5524 .....                         | 1  |
| 3WS/DON, Shaw AFB, SC 29152-5070.....                            | 1  |
| Det 1, 3WS, Shaw AFB, SC 29152-5410.....                         | 1  |
| USAFETAC/LDD, Scott AFB, IL 62225-5438 .....                     | 1  |
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| AWSTL, Scott AFB, IL 62225-5438 .....                            | 10 |