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THESIS

PRESSURE MEASUREMENTS ON A PROPOSED OPTICAL WINDOW FAIRING FOR THE ALTUS II / UNMANNED AIR VEHICLE

by

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September 1999

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PRESSURE MEASUREMENTS ON A PROPOSED OPTICAL WINDOW FAIRING FOR THE ALTUS II UNMANNED AIR VEHICLE

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Submitted in partial fulfillment of the requirements for the degree of

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ABSTRACT

Low-speed wind tunnel tests were conducted to determine surface pressure measurements on a proposed aerodynamic fairing for the Altus II UAV. These tests were conducted at various angle-of-attack and sideslip positions to determine the effect on the surface pressures for the optical window portion of the fairing. Of particular interests were the pressure contour field located over the optical window region and the total force exerted on this area. Scaled-up loads (lbf) as calculated on the window ran from 1.0 to 1.6 times the freestream dynamic pressure (psf). Pressure measurements were also taken on the upper fuselage of the Altus II UAV model to determine the location of the peak suction area. These measurements provided the data to optimize the placement of external vents on the full-scale version of the airframe.

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LIST OF SYMBOLS, ACRONYMS AND ABBREVIATIONS

AOA	Angle of Attack
cm	Centimeters
C _p	Coefficient of Pressure
GPIB	General Purpose Interface Bus
KTAS	Knots True Airspeed
l	Reynolds Number Reference Length
lbf	Pound - Force
р	Local Static Pressure
p∞	Freestream Static Pressure
psf	Pounds/Foot ²
psid	pound/inch ² differential
$q_{\infty} = \frac{1}{2}\rho V^2$	Freestream Dynamic Pressure
Q-bar	Average Dynamic Pressure
NI	National Instruments
NPS	Naval Postgraduate School
Re	Reynolds Number
Sandia	Sandia National Laboratories
VEG	Valley Engineering Group
VI	Virtual Instrument (Labview Software Program)
α	Angle of Attack
β	Sideslip Angle
ΔΡ	Pressure Difference between Static Ring and Kiel Probe
ρ	Air Density
μ	Air Molecular Viscosity
ν	Air Kinematic Viscosity

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Additionally, I would like to thank the customer support staff of National Instruments for their assistance. Their expertise enabled me to take a dated version of *Labview* and successfully implement it into a data collection process – a very impressive fete conducted by a long-distance telephone call. Also, Valley Engineering Group's engineering drawings proved very valuable during model construction.

This thesis is truly the result of a team effort. I extend my sincere thanks to these individuals, organizations and others that I may have neglected to mention for their assistance in making it all possible.



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I. INTRODUCTION

A. BACKGROUND

In 1998, Sandia National Laboratories (Sandia) contracted the Naval Postgraduate School (NPS) to study the pressure field associated with a proposed aerodynamic fairing, designed to fit beneath the forward fuselage section of the Altus II Unmanned Air Vehicle (UAV). The purpose for this analysis arose from the requirement to fit an Ultraviolet (UV) laser remote sensing payload into the forward fuselage section of the Altus II UAV. The dimensions of the UV laser telescope necessitated that a portion of the telescope protrude into the freestream air beneath the originally configured Altus II airframe. To reduce drag and prevent unacceptable levels of telescope vibration, two proposals were developed to design an aerodynamic fairing that would facilitate the installation of this UV telescope. See Figure 1 for an illustration of the Altus II.



Figure 1. Altus II UAV

The first proposal was to design a fairing with an open cavity window, through which the UV telescope would view. This idea had the advantage of minimizing the optical distortion associated with having the telescope view through an optical window. One disadvantage of the open cavity fairing design was that vibrations associated with the open cavity flowfield could generate considerable stress on the telescope. [Ref. 1] This stress would in turn impose nearly continuous strain on the telescope's gimbal system designed to aim and hold it onto the desired target.

The second proposal was to design a fairing with a transparent optical window, through which the UV telescope would view. The engineers at Sandia concluded that a high quality optical window could be designed to sufficiently minimize the distortions in the UV telescope imagery. One advantage of the closed fairing design was that the strains imposed on the telescope's aiming/holding system would be greatly



Figure 2. Proposed Aerodynamic Fairing

reduced. When all of these considerations were taken into account, the decision was made to proceed forward with the closed fairing design. Figure 2, provided by Valley Engineering Group (VEG), illustrates the proposed shape of the fairing.

B. PURPOSE

The original purpose of the fairing analysis was to measure the open cavity flow field forces exerted on the proposed gimbaled system used to align and hold the telescope in position. The forces and vibrations imposed on the telescope in the open cavity design would have severely restricted the design of the telescope's aiming/holding system. After the decision was made by Sandia to change to the second proposal for the fairing design, the purpose of analysis changed.

Using the closed fairing with an optical window as the baseline design, the purpose of this analysis was to estimate the pressure-induced forces on the optical window and to estimate the pressure characteristics along the longitudinal centerline axis of the Altus II's upper fuselage. Knowing the approximate force exerted on the window will enable design engineers to fabricate a window possessing minimum weight with acceptable distortion and optical characteristics.

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II. TEST EQUIPMENT DESCRIPTION

A. THE MODEL

1. Model Construction

The wind tunnel model used for this analysis was a one-half scale likeness of the forward fuselage section of the Altus II UAV, with the proposed fairing attached. The foundation of the model was cut from a high-quality pine plywood board upon which the upper fuselage and lower fairing surfaces were mounted. To form the shape of these upper fuselage and proposed fairing surfaces as closely as possible to the graphic depiction provided by VEG, cross-sectional ribs were affixed to the baseboard to aid in developing the final surface shapes (Figure 3).



Figure 3. Fairing Shape Before Fiberglass Covering

Blue polystyrene foam, commonly used in fiberglass hand lay-up construction, was inserted between each of the fairing's cross-sectional ribs. The blue foam was then sanded down to the level of the cross-sectional ribs with the contours in the inter-rib regions 'interpolated' by visual observation. Once the blue foam shapes were finished, three layers of fiberglass were applied to the foam core. After the fiberglass set, the foam inside the fairing was removed to facilitate the installation of the pressure ports and the associated *Tygon* tubing. See Figure 4 for the finished fairing.



Figure 4. Painted Fiberglass Fairing

2. Model Instrumentation

The principal area of interest on the aerodynamic fairing was that area where the optical window was to be mounted. Consequently, the entire window surface was instrumented with a pattern of pressure ports. To reduce the total number of pressure ports on the fairing, only the right side of the forward and aft sections was instrumented for pressure measurements. The pressure ports were divided into three sections: the forward section (A Section - 40 ports), the middle section (B Section - 45 ports) and the aft section (C Section - 40 ports). See Figure 5 for details regarding the model port numbers. Dividing the pressure port pattern into these three sections was necessary because the Scanivalve's pressure manifold could only accommodate 48 pressure measurements at one time.



Figure 5. Pressure Port Diagram

Once the holes were drilled for each pressure port, brass fittings were individually glued into every port. Each brass fitting was tailored so that surface flow disruptions on the model were virtually eliminated. Inside the fairing, *Tygon* tubing was attached to each pressure port fitting. Initially, the entire *Tygon* tubing bundle was divided into two smaller bundles to enable the tubing to exit the model and wind tunnel. Once the

two bundles were outside the tunnel, they were divided again to reform three tubing bundles. These three bundles corresponded to the three aforementioned pressure port sections on the model: the forward (A), middle (B) and aft (C) sections.

B. THE WIND TUNNEL

The NPS 3.5' x 5.0' Academic Wind Tunnel (AWT) was used to test the proposed aerodynamic fairing. The vertically oriented closed circuit AWT shown in Figure 6 measures approximately 62.7 feet in length, 33.0 feet in height and 15.0 feet in width with a 14.4 ft² (2079 in²) test section. [Ref. 2] The AWT was originally powered by two 150-hp electric motors that drove two counter-rotating three-bladed variable-pitch fans. As a result of a previous incident involving the fan ingestion of a hand tool, the AWT currently uses only one 150-hp electric motor to drive a single fan. Single motor operation gives the AWT an approximate maximum test speed of 145 KTAS. [Ref. 2]



Figure 6. 3.5' x 5.0' Academic Wind Tunnel

The Altus II UAV operates at low subsonic speeds, typically well below 120 knots. For this reason, the AWT is well suited for testing a model of this type of flight vehicle. The frontal cross-sectional area of the Altus UAV model measures approximately 227 square inches, as shown in Figure 7. Based on this cross-sectional area, the blockage equals 10.9%. The model is relatively large for the given test section; the associated blockage effects are discussed in Chapter III Section B. The model scale was chosen to minimize Reynolds number effects.



Figure 7. Frontal View of Model in Test Section

C. THE DATA COLLECTION EQUIPMENT

Data collection was accomplished by integrating a Scanivalve pressure measurement device with a PC-based National Instruments *Labview* data acquisition program. See Figure 8 for a schematic diagram of the test equipment set-up.



Figure 8. Schematic of Test Equipment Set-up

1. The Scanivalve

The Scanivalve is a differential pressure measurement device that used a calibrated transducer to measure the difference between a test pressure and a reference pressure (ambient pressure at the Scanivalve's rotary switch). The Scanivalve used in this experiment had a +/- 2.5 psid transducer. It mechanically cycled between and measures pressures from 48 individual ports located on its pressure manifold. Combined with a compatible data acquisition system, the Scanivalve was an effective lowcost means of obtaining low speed wind tunnel pressure measurements.

2. The Scanivalve Digital Interface Unit (SDIU)

The SDIU was an analog-to-digital converter that converted analog voltage measurements from the *Scanivalve* (corresponding to discrete differential pressure measurements) into digital voltage readings. It also enabled an operator to select individual numbered pressure ports for measurement. Additionally, the SDIU is equipped with a GPIB link which

enabled it to be operated remotely by an appropriately configured PC. A 486 PC using NI *Labview* software controlled operated the SDIU.

3. The Scanivalve Solenoid Controller

The Controller provided 28 volt DC electrical power to the Scanivalve unit. It also enabled an operator to manually step through or reset-to-home the Scanivalve's pressure ports. This was one of three units interfaced together with the Junction Box discussed below.

4. The Signal Conditioner

The Signal Conditioner enabled an operator to zero and span the SDIU voltage readings. Additionally, it provided the excitation voltage for the Scanivalve. To calibrate the SDIU, a water manometer was used to calibrate the transducer at 30 cm of H_2O differential pressure.

5. The PC and National Instruments Labriew

The software program used to drive the experimental equipment and collect the pressure data was taken from LT Greco's thesis work. [Ref. 5] The NI *Labview* VI used for his experiment also employed a Scanivalve to take pressure measurements. The only modification made to the VI was a small addition to the code that enabled the pressure measurement data to be stored on a PC 3.5 inch floppy disk.

6. The Junction Box

A junction box that interfaced the Scanivalve, the SDIU and the Scanivalve Solenoid Controller was fabricated for this experiment. Using design drawings provided by Dr. Hobson, this junction box was constructed to the specifications of another junction box used in the experimental set-up of LT Greco. [Ref. 5] Properly connected to the other experimental apparatus, this junction box facilitated the

PC/SDIU/Scanivalve interface that enabled the pressure measurement system to function as required.

III. RESULTS AND DISCUSSION

A. TEST PROCEDURE AND RESULTS

After the construction of the wind tunnel model was complete, it was mounted inverted in the test section of the AWT. As shown in Figure 9, the model was supported by two bayonet mounts and one aft-center mount, and was free to pivot about its vertical and lateral axes. The two bayonet mounts were attached to an internal pivoting mechanism that allowed up to five degrees of positive/negative sideslip. The aft-center mount was constructed with a screw-post that allowed up to four degrees of positive/negative AOA.



Figure 9. Side View of Model in Test Section

1. Tunnel Operation Procedure

Several preliminary wind tunnel test runs were conducted to ensure that the model and support structures were robust enough to handle the test velocities. At wind tunnel velocities in excess of $\Delta P = 10$ cm of H₂O pressure (as measured by the H₂O manometer at the AWT Control Panel, shown in Figure 10), model vibration was observed. ΔP measured the difference in pressure between a Kiel probe and a static ring, located just prior to the test section. The conversion from indicated differential pressure (ΔP) at the AWT Control Panel to test section dynamic pressure is discussed in Section B of this chapter.

Two wind tunnel tests were conducted at test section velocities corresponding to $\Delta P = 5$ cm and $\Delta P = 10$ cm H₂O to determine whether Reynolds number significantly affected the pressure measurements.



Figure 10. AWT Control Panel and Water Manometer

See Table 1 for conversion between water pressure, $pound/foot^2$ and airflow velocities.

ΔP (cm H2O)	Q (psf)	Q (psi)	V (feet/sec)	V (KTAS)
5	10.2	0.071	93.0	55.1
10	20.5	0.142	131.5	77.9
15	30.7	0.213	161.0	95.4
20	40.9	0.284	186.0	110.2
25	51.2	0.355	207.9	123.2

Note : density assumed sea-level standard

Table 1. Some Common Conversions for Low-Speed Wind Tunnel Tests

See Appendix A for the tunnel operation checklist used to conduct each test run. In brief, the test equipment was powered up, the SDIU/Scanivalve was calibrated with a stand-alone water manometer, the model was set to the desired AOA/Sideslip (α/β) and the tunnel/test section was inspected for foreign or loose objects. Next, the wind tunnel was powered-up and the flow velocity was steadily increased to $\Delta P = 10$ cm of H₂O pressure. Once the tunnel velocity stabilized, the NI Labview program, which measured and recorded the data taken from the first 48 pressure ports, was enabled. After the initial 48 port measurements were complete, the first 48-port manifold was removed and replaced with the second 48-port manifold while the tunnel maintained its test velocity. This procedure was repeated for each of the three 48-port manifolds until the data for all 125 (40 + 45 + 40) model ports was measured and recorded. Figure 11 illustrates the three 48-port pressure manifolds adjacent to the Scanivalve.

2. Reynolds Number Effect on C_p

Since it was observed that excessive model vibrations might occur at full Reynolds number testing, the effects of reduced Reynolds number testing was observed. Two test-runs, one at $\Delta P = 5$ cm and another at ΔP = 10 cm H₂O water pressure, were conducted to observe the effects on the



Figure 11. The Three 48-Port Pressure Manifolds



Figure 12. Longitudinal Axis of Fairing for Reynolds Number Effects Tests

pressure measurements taken along the longitudinal axis of the model. See Figure 12 for the longitudinal measurement axis used for these Reynolds number effects tests.





Figure 13 illustrates that a reduced Reynolds number has little overall effect on the C_P measurements. The pressure coefficient C_P is given by:

$$C_p = \frac{p - p_{\infty}}{q_{\infty}}$$

where p_{∞} and q_{∞} are freestream ambient pressure and dynamic pressure, respectively. Although some variation in the measurements exists between stations four through eight, the difference in these measured C_P 's is negligible for this type of analysis. The overall intent of these C_P measurements is to estimate the average force exerted on the optical

window area (longitudinal stations 7-15 in Figure 13). It was decided to run at sub-scale Reynolds number to avoid model aerostructural concerns.

The Reynolds number for the 18 test cases is determined from Re = $\frac{\rho V \ell}{\mu}$, where the absolute viscosity of the air is given by Sutherland's

equation
$$\mu = 2.27 \times 10^{-8} \left(\frac{T^{1.5}}{T + 198.6} \right)$$
 (lbf s/ft²). [Ref. 4] The characteristic

length for the Reynolds number is taken as the model's fairing length, $\ell = 4$ ft. Standard sea-level density ρ is assumed and the test velocity is determined from Q-bar, as discussed in section B sub-section 1 of this chapter. Based on these assumptions, test case Reynolds numbers equaled 3.1 million. Based on a standard 5000-ft altitude flight at 70 KTAS, the actual full-scale Reynolds number equals 6.4 million.

B. WINDOW PRESSURE MEASURMENTS

The first step in obtaining the total force exerted on the optical window was to determine the local pressure coefficient C_p at each port location on the model. One calibration and two corrections were applied to the raw experimental data to obtain the C_p 's. The wind tunnel calibration related test section average dynamic pressure Q-bar to measured ΔP , as displayed on the AWT Control Panel H₂O manometer. The two corrections took into account test section blockage effects due the model size and zero voltage readings from the Scanivalve reference pressure.

1. Data Calibration, Reduction and Corrections

a. Tunnel Q-bar Calibration

In Reference 2, the author calibrated the wind tunnel test section Q-bar. After conducting a pressure survey of the AWT test section, a relation between indicated pressure (ΔP) and calibrated dynamic

pressure (Q-bar) was determined. Figure 14 illustrates the results from this calibration. The ratio of the calibrated (Q-bar) to the measured ΔP (as read from the AWT water manometer) is a linear function. After the raw pressure data was collected in the Microsoft Excel spreadsheets, this calibration was applied to all of the other pressure measurements.



Figure 14. Academic Wind Tunnel Calibration

All of the test cases were conducted at approximately $\Delta P = 10$ cm H₂O (20.5 psf), which after unit conversion and calibration, resulted in Q-bar = 20.7 psf.

b. Test Section Blockage Correction

The second modification to the raw pressure data involved the correction for test section blockage effects. Authors Rae and Pope propose a simple correction factor that applies to models of 'unusual shapes': [Ref. 6]

$$\varepsilon = \frac{1}{4} \frac{Model \ Frontal \ Area}{Test \ Section \ Area} \qquad \qquad \varepsilon = \frac{\Delta V}{V_U}$$

 ε is the ratio of the velocity change due to blockage over uncorrected velocity. Rae and Pope state that "a maximum ratio of model frontal area to test section cross-sectional area of 7.5% should probably be used, unless errors of several percent can be accepted." [Ref 6] The model blockage in the current tests is 10.9%. Since average pressure forces are the desired result of this analysis, it was decided that correction errors of "several percent" are acceptable.

c. Zero Pressure Differential Correction

When the pressure measurement data was observed, a small inconsistency was noted in the data. Ambient atmospheric pressure was not always measured as zero volts. Scanivalve pressure manifold port #1 was open to the ambient atmosphere, which is also the Scanivalve's reference pressure when taking the other differential pressure measurements. In theory, a properly calibrated Scanivalve/SDIU should always read zero volts for port #1, since any variation in ambient atmospheric pressure would be sensed by both port #1 and the Scanivalve's reference port located near its rotary switch. Since both of these ports measure ambient atmospheric pressure, the measured pressure difference between them should equal exactly zero.

During the various wind tunnels runs, the Scanivalve/SDIU was calibrated with a stand-alone water manometer for each testing session. Each testing session lasted about one hour and measured between six and nine Scanvalve pressure manifolds. Three manifold measurements were required to measure the entire model in one configuration. During calibration, the SDIU was zeroed for ambient pressure and set to approximately -1.78 Volts for 30 cm of H_2O pressure on the manometer. The signal conditioner was used to set this zero and span. Setting the
span (of -1.78 Volts) sometimes slightly shifted the zero pressure reading, so an iterative process of zero and span setting was used to confirm that each reading was stable.

During the test runs a small measurement drift occurred for the ambient atmospheric pressure reading. To correct this problem, the voltage (and corresponding pressure) reading of Scanivalve port #1 was subtracted from all of the other pressure port measurements for each individual test run. This action applied an average correction to the measured data, which removed the error induced by the measurement drift of the Scanivalve's reference pressure.

2. Pressure Coefficient Profiles on the Fairing

This section contains Figures 15 through 32, which depict the contour plots of the measured C_p 's on the aerodynamic fairing. Appendix C contains the MATLAB program code used to convert the Microsoft Excel spreadsheet data into these pictorial C_p representations. Table 2 presents a summary list of the 18 test cases run at the specified values of α and β .

Test Case #	AOA (deg)	Sideslip (deg)	Test Case #	AOA (deg)	Sideslip (deg)
1	0	0	10	-4	-2.5
2	-2	0	11	-4	-5
3	2	0	12	-4	2.5
4	4	0	13	-4	5
5	-4	0	14	4	5
6	0	-2.5	15	4	2.5
7	0	-5	16	4	-2.5
8	0	2.5	17	4	-5
9	0	5	18	0	0

Note: test case #18 conducted with antenna installed

Table 2. List of α and β Test Cases

Included in the discussion of each test case is the pressure-induced force on the window. These force calculations assume a flight condition of 100 KTAS at sea level and are discussed in more detail in the next section.







Figure 16. Case 2 - C_P at -2° α and 0° β







Figure 18. Case 4 - C_P at +4° α and 0° β







Figure 20. Case 6 - C_P at 0° α and -2.5° β



Figure 21. Case 7 - C_P at 0° α and -5° β



Figure 22. Case 8 - C_P at 0° α and +2.5° β







Figure 24. Case 10 - C_P at -4° α and -2.5° β



Figure 25. Case 11 - C_P at -4° α and -5° β



Figure 26. Case 12 - C_P at -4° α and +2.5° β



Figure 27. Case 13 - C_P at -4° α and +5° β



Figure 28. Case 14 - C_P at +4° α and +5° β







Figure 30. Case 16 - C_P at +4° α and -2.5° β







Figure 32. Case 18 - C_P at 0° α and 0° β with Antenna

Figure 15 illustrates the results of the baseline test case, which was conducted at 0° α and 0° β . The stagnation line (C_P =1) occurred near the model leading edge, located well before the pressure measurement area. Consequently, the pressure contours do not depict it. The highest surface pressures were measured immediately aft of the leading-edge area and the lowest surface pressures were located just forward of the window. The window area experienced a relatively constant pressure field of C_P \approx -0.35. Additionally, there were two small areas of local low pressure (C_P \approx -0.5) located aft of the window in line with the window longitudinal edges. See position (±5, -10) on Figure 14. The total force on the window for test case 1, extrapolated to full scale for the nominal flight condition described, was 51.3 lbf suction.

Figure 16 illustrates the next test case, which was conducted at -2° α and 0° β . Compared to Figure 15, the leading-edge area of high pressure remained largely unchanged. The local suction region forward of the window was also similar to the previous case, except that the area aft this region experienced a greater *increasing* pressure gradient across the leading edge of the window. After this *increasing* gradient, the remaining window area experienced a relatively constant pressure of C_P \approx -0.3. The total force on the window for test case 2 was 40.4 lbf suction.

Figure 17 illustrates test case 3, which was conducted at +2° α and 0° β . The leading-edge area of high pressure was approximately twice as large as the two previous test cases. The *increasing* pressure gradient associated with the local suction region forward of the window was less than the previous two test cases. This case had a $C_P \approx -0.4$, vice a $C_P \approx -0.5$ from the two previous test cases, for this local suction region. The center of the window area experienced a relatively constant pressure of $C_P \approx -0.17$, compared to -0.35 and -0.30 from test cases 1 and 2, respectively. The trailing edge of the window experienced a *decreasing*

pressure gradient from $C_P \approx -0.2$ to $C_P \approx -0.35$. The total force on the window for test case 3 was 40.4 lbf suction.

Figure 18 illustrates test case 4, which was conducted at +4° α and 0° β . The leading-edge area of high pressure was similar to test case 3. The local suction region forward of the window was also similar to test case 3, except $C_P \approx -0.43$ instead of $C_P \approx -0.4$. The *increasing* pressure gradient located aft of this suction region was less than test case 3. The center window area experienced a relatively constant pressure of $C_P \approx -0.25$, compared to -0.17 from test case 3. The total force on the window for test case 4 was 37.0 lbf suction.

Figure 19 illustrates test case 5, which was conducted at -4° α and 0° β . The leading-edge area of high pressure (C_P > 0) was the smallest yet, as compared to the previous test cases. The local suction region forward of the window was the strongest of the test cases discussed so far with a C_P \leq -0.5. The center window area experienced a relatively constant pressure of C_P \approx -0.35. There was no significant pressure gradient at the window trailing edge, as in test case 3. The total force on the window for test case 5 was 48.7 lbf suction.

Figure 20 illustrates test case 6, which was conducted at 0° α and -2.5° β . This test case was the first in the series of non-zero sideslip runs. The leading-edge area of high pressure is skewed slightly in the direction of the sideslip. The model was tested upside down, so negative sideslip angles *appear* as relative wind coming from the right. The local suction region located forward of the window is similar to test case 1, but it was skewed slightly due to the -2.5° β . The center window area experienced a relatively constant pressure of $C_P \approx -0.27$. Located at position (-4, -12) on Figure 20, a small local suction region developed due to the -2.5° β . The total force on the window for test case 6 was 41.1 lbf suction.

Figure 21 illustrates test case 7, which was conducted at 0° α and - 5° β . This test case was similar to the previous one, except the skew

angle of the leading-edge area of high pressure was more pronounced. The local suction region located forward of the window was also more skewed than test case 6. The center window area experienced a relatively constant pressure of $C_P \approx -0.30$. The leeward local suction region at position (-4,-12) increased in strength, compared to test case 6. The total force on the window for test case 7 was 44.9 lbf suction.

Figure 22 illustrates test case 8, which was conducted at 0° α and +2.5° β . This run was the mirror image of test case 6. The results were similar to test case 6, except that the skew angle of the pressure field was in the opposite direction due to +2.5° β , vice -2.5° β . The total force on the window for test case 8 was 46.2 lbf suction.

Figure 23 illustrates test case 9, which was conducted at 0° α and +5° β . This run was the mirror image of test case 7. The results were similar to test case 7, except that the skew angle of the pressure field was in the opposite direction due to +5° β , vice -5° β . The total force on the window for test case 9 was 50.7 lbf suction.

Figure 24 illustrates test case 10, which was conducted at -4° α and -2.5° β . This test case was the first in the series of ones examining the combination of non-zero α and β . The leading-edge area of high pressure was relatively small (similar to test case 5) and also had the skew angle due to the -2.5° β . The local suction region located in front of the window was strong (similar to test case 5), but was more skewed than test case 6. Apparently, the -4° α in combination with the -2.5° β increased the skew angle effect of the pressure field. The center window area experienced a relatively constant pressure of C_P \approx -0.34. The total force on the window for test case 10 was 52.2 lbf suction.

Figure 25 illustrates test case 11, which was conducted at -4° α and -5° β . At the maximum negative α and β , these results were similar to test case 10. The skew angle effect was more pronounced than test case

10 due to the $-5^{\circ}\beta$, vice the $-2.5^{\circ}\beta$. Otherwise, the results of test cases 10 and 11 were very similar. The total force on the window for test case 11 was 51.1 lbf suction.

Figure 26 illustrates test case 12, which was conducted at -4° α and +2.5° β . This run was the mirror image of test case 10. The results were similar to test case 10, except that the skew angle of the pressure field was in the opposite direction due to +2.5° β , vice -2.5° β . The total force on the window for test case 12 was 50.5 lbf suction.

Figure 27 illustrates test case 13, which was conducted at -4° α and +5° β . This run was the mirror image of test case 11. The results were similar to test case 11, except that the skew angle of the pressure field was in the opposite direction due to +5° β , vice -5° β . The total force on the window for test case 13 was 53.2 lbf suction.

Figure 28 illustrates test case 14, which was conducted at +4° α and +5° β . The leading-edge area of high pressure was similar to test case 4, except that it was skewed similar to test case 9. The local suction region located in front of the window was similar to test case 4 in strength with $C_P \approx -0.43$. The center window area experienced a relatively constant pressure of $C_P \approx -0.27$. The +5° β caused a local suction region on the leeward surface of the fairing located at position (+5,-12) with a pressure of $C_P \approx -0.44$. The total force on the window for test case 14 was 45.2 lbf suction.

Figure 29 illustrates test case 15, which was conducted at +4° α and +2.5° β . The results of this run were similar to test case 14, except that the skew angle was less pronounced because of the +2.5° β , vice +5° β . The center window area experienced the same relatively constant pressure as test case 14. The total force on the window for test case 15 was 43.8 lbf suction.

Figure 30 illustrates test case 16, which was conducted at +4° α and -2.5° β . This run was the mirror image of test case 15. The results were similar to test case 15, except that the skew angle of the pressure field was in the opposite direction due to -2.5° β , vice +2.5° β . The total force on the window for test case 16 was 40.3 lbf suction.

Figure 31 illustrates test case 17, which was conducted at +4° α and -5° β . This run was the mirror image of test case 14. The results were similar to test case 14, except that the skew angle of the pressure field was in the opposite direction due to -5° β , vice +5° β . The total force on the window for test case 17 was 43.2 lbf suction.

Figure 32 illustrates test case 18, which was conducted at 0° α and -0° β with the external antenna installed. The purpose of this run was to determine what effect, if any, the presence of the external antenna had on the measured surface pressures. When compared to test case 1, which was conducted at the same α and β with no external antenna installed, these two pressure contour patterns were very similar. There did exist a very small asymmetry in the pressure field on the antenna side of the fairing, but this had a minimal effect on the window pressures.

The model antenna was not constructed at the time the first 17 test cases were conducted. Given the results of test case 18, the presence of the external antenna was deemed as insignificant as it relates to the surface pressure measurements on the window. Therefore, the previous 17 test cases were not repeated with the external antenna installed. The total force on the window for test case 18 was 46.9 lbf suction.

In summary, as α increased, the contour lines where suction pressure began (C_P = 0) moved aft toward the optical window. When β was non-zero, the asymmetry of the pressure contour patterns on the lee corner of the fairing illustrated a local suction region. This agrees with what one would intuitively expect. For all 18 test cases, relatively

constant pressures were measured across the aft one-third of the fairing. This indicates that the flow was probably separated in this aft region of the fairing.

Recall that only the right side of the forward and aft sections of the model was instrumented for pressure measurements. Left side data was mirrored from the appropriate right side data, as determined by the Sideslip angle β . For $\beta=0$, current test case data was mirrored from the right to the left side. For non-zero β , data from the opposite-sign β test case was mirrored from the right side to the left.

The optical window area experiences relatively constant C_P for every test case configuration. This observation is significant in that it suggests that the position of the optical window is relatively well suited, in terms of minimizing distortions due to large pressure gradients across the surface of the glass. Test cases 1 through 17 were conducted with no external antenna installed on the model. Test case 18 was conducted with the external antenna installed on the model. It was determined that the measured C_P variation due to the presence of the antenna was negligible. Therefore, test case configurations 1 through 17 were not repeated with the antenna installed.

3. Total Pressure Induced Forces on the Fairing Window

To determine a representative total force exerted on the optical window during flight, a flight condition of 100 KTAS at sea level was assumed. Q-bar at this condition equals 33.9 psf. Given this assumption, the calculated C_P at each pressure port on the window was converted to a local pressure and integrated across the area of the window. Summing these local pressures across each of their respective rectangular elemental areas results in the total pressure force on the window. The pressure exerted on the inside surface of the window was assumed to be freestream atmospheric. The dimensions of each rectangular area were determined by

equaling dividing the vertical and horizontal distances between each of the pressure ports located in the optical window area.

Test Case #	Window Force	*Force/Q-bar	Test Case #	Window Force	Force/Q-bar
1	-51.3	-1.51	10	-52.2	-1.54
2	-40.4	-1.19	11	-51.1	-1.51
3	-40.4	-1.19	12	-50.5	-1.49
4	-37	-1.09	13	-53.2	-1.57
5	-48.7	-1.44	14	-45.2	-1.33
6	-41.1	-1.21	15	-43.8	-1.29
7	-44.9	-1.32	16	-40.3	-1.19
8	-46.2	-1.36	17	-43.2	-1.27
9	-50.7	-1.50	18	-46.9	-1.38

Note: test case #18 conducted with antenna installed

Table 3. Summary of Window Force for the 18 Test Cases

Table 3 depicts the total pressure force exerted on the window (measured in lbf) for each of the 18 test cases. The window force varies from 37 lbf suction for test case 4 and to about 53 lbf suction for test case 13. These total force figures were determined by extrapolating to fullscale. Also provided in Table 3 are the ratios of window force to Q-bar for each test case, so estimates at other freestream dynamic pressures can easily be made.

C. CENTERLINE LONGITUDINAL PRESSURE VARIATION

Sandia requested that pressure measurements also be taken on the upper fuselage section of the wind tunnel model. This information will assist them in their effort to properly position an external NACA vent to provide cooling for the onboard instrumentation. To accomplishment this, 25 pressure ports were installed along the centerline longitudinal axis of the upper fuselage section at two-inch intervals, as measured along the surface. One wind tunnel test run was conducted at zero α /zero β with $\Delta P = 20.5$ psf.

Figure 33 illustrates how C_P varies along the upper fuselage of the full-scale airframe. The shape of this curve is similar to that of a typical airfoil section. Stagnation C_P is observed near the leading edge and peak suction occurs approximately ten inches measured longitudinally aft of the leading edge. This information can assist Sandia in optimizing the placement of an external cooling vent. Ideally, this air exhaust vent should be placed in the forward fuselage surface section where suction is maximized. This results in maximum cooling airflow. However, even aft of the suction peak, the pressure remains below its freestream value, providing sources for external venting.



Full Scale Upper Fuselage Cp vs Longitudinal Position

Figure 33. Upper Fuselage C_P vs Longitudinal Position

IV. CONCLUSIONS AND RECOMMENDATIONS

A. CONCLUSIONS

The surface pressures on the proposed aerodynamic fairing for the Altus II UAV have been successfully characterized. Using a half-scale model, a wind tunnel experiment conducted at one-half the Reynolds number experienced in full-scale flight has estimated the surface pressure coefficients. Two wind tunnel test runs were conducted initially to determine that this Reynolds number difference would be expected to have a minimal impact on data accuracy.

Seventeen wind tunnel test runs, conducted at various α and β combinations, illustrated the effect of small attitude changes on the fairing's surface pressures. Of particular interest was the fact that the pressure contours over the fairing's optical window remained relatively constant for these test runs. After measuring these window pressures, integration was performed to determine the estimated total force on the window area. Loads extrapolated to full scale varied from 37 to 53 lbf suction for a reference flight condition of 100 KTAS at sea level. An eighteenth test run determined that an antenna that was not available for the initial runs did not significantly affect the measured data.

Lastly, pressure ports were installed on the upper fuselage of the model to take pressure measurements along its centerline longitudinal axis. These measurements illustrated the position of peak suction and characterized the flow aft of this peak. This information may be used to optimize the installation of external exhaust vents used for payload cooling.

B. RECOMMENDATIONS

This study provides baseline information for Sandia's installation of the full-scale version of the proposed aerodynamic fairing onto the Altus

II UAV. The window forces that were calculated may be used to determine the required glass thickness needed to minimize weight, but also to minimize distortion. The pressure measurements on the upper fuselage may prove useful in optimizing the placement of external cooling vents.

For the Naval Postgraduate School, a more permanent test equipment set-up should be acquired for future AWT testing. Virtually all of the equipment used for this thesis research was borrowed from other research areas. The AWT is an excellent research tool for low speed testing, but it needs dedicated test equipment to realize its full potential.

APPENDIX A. EXPERIMENTAL PROCEDURE CHECKLIST

This section contains the checklist used to operate the wind tunnel and run each of the 18 test cases. A single test case took approximately 40 minutes to conduct. The following checklist to conduct the wind tunnel experiment is presented below:

- 1. Ensure the Solenoid Controller, SDIU, Signal Conditioner, PC 486 and AWT Control Panel are turned ON.
- 2. Set model AOA and Sideslip.
- 3. Ensure the tunnel and test-section are clear of foreign objects and all access doors properly closed.
- 4. Calibrate the SDIU/Scanivalve with the stand-alone H₂O manometer. Using the Signal Conditioner, set the zero and span voltages which correspond to zero and 30 cm H₂O pressure. Zero pressure should read zero volts and 30 cm H2O pressure should read about negative 1.8 volts.
- 5. Select port #45 on the SDIU to ensure sufficient overlap of collected data. Select remote operation mode on the SDIU.
- On the PC 486, NI Labview program starts automatically after bypassing the User Login. Select FILE – OPEN – "Vi.lib" – "SDIU 4-20-99" – "SVWorking". [Ref. 5]
- Once the "SVWorking" VI is activated, enter the file path for the 3.5-inch floppy disk output data file. Enter "10" in the time delay field. Select ON for "Append to File".
- 8. At the AWT Control Panel, start the wind tunnel motor.
- After the AWT motor has stabilized, slowly advance the fan pitch angle and set 10 cm H₂O indicated dynamic pressure on the AWT H₂O manometer.
- 10. Activate the Iterative run option on the "SVWorking" VI.

- 11. After "SVWorking" has measured and recorded the data from all 48 ports, stop the VI. Change the pressure manifold on the Scanivalve to the next one. Select local mode on the SDIU, reselect port #46 and return the SDIU to remote mode. Restart the VI to begin measuring and recording pressure data again. Repeat this procedure for each of the three pressure manifolds, for each test case.
- 12. Use Notepad or another similar ASCII text editor to verify the data recording on the 3.5-inch floppy. Remove overlapping data elements and transfer the edited data into a Microsoft Excel spreadsheet program for further data reduction.

APPENDIX B. MICROSOFT EXCEL SPREADSHEETS

This section includes the Microsoft Excel spreadsheets used for each of the 18 test cases. Also included is an expanded discussion of how Scanivalve/SDIU voltage measurements are converted to pressure measurements. The last two spreadsheets illustrate how the pressure forces on the optical window are integrated across its area to determine the total exerted force.

For each test case, SDIU voltage readings are imported into the left-most columns of each Excel worksheet. Next, the voltages were converted to pressure measured in pounds/foot² using the following relations:

 $\Pr essure(psf) = \frac{30 \, cm H_2 O}{-1.8 \, Volts} \times \frac{2116.2 \, psf}{1033.68 \, cm H_2 O}$

The calibration voltage of -1.8 volts corresponding to 30 cm H₂O on the stand-alone manometer varied slightly for each test run, but the basic conversion equation remained the same for all the runs. Recall that the pressure measured in Scanivalve port #1 was subtracted from all of the other 47 ports for all 18 test cases. This was the zero reference correction discussed in Chapter III Section B.

In the last column set, the C_P is determined with the tunnel calibration and blockage correction applied according to the following equation:

$$C_{p} = \left\{ \frac{p - p_{\infty}}{[.98831 + .00102 \times (qbar)] \times qbar} \right\} \times \left(\frac{V_{2}}{V_{1}} \right)^{2}, \text{ where } Qbar = p_{total} - p_{\infty} \text{ and}$$

$$\varepsilon = \frac{V_{2} - V_{1}}{V_{1}} = \frac{1}{4} \times \frac{Model \ Frontal \ Area}{Test \ Section \ Area}. \text{ So, therefore } \frac{V_{2}}{V_{1}} = \varepsilon + 1.$$

The spreadsheets are presented in the following pages.



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cm B - 10 cm C	4 27E-02	\$13£-01	1.63E-01	1.62E-01	1.655-01		1.716-01	1.74E-01	1.83E-01	1.71E-01	1.77E-01	1.74E-01	1625-01	1.535-01		101001		1.43E-01								1.50E-01						-		-								1.685-01				1.74E-01	1.83E-01	1.865-01	1 745-01	1 ARE-01	1.80E-01												
A - 10 cm		- 10-941 -	-8.24E-02	-6.41E-02	-1.02E-02		6.102-03	4.58E-02	7.936-02	8.65E-02	9.46E-02	1.28E-01	1.405-01	1.625-01	1 020 01		10-310.2	2.236-01	2.38E-01	2.996-01	3.06E-01	3.11E-01	9 7 AC.01	2012	2,816-01	2.90E-01	2.93E-01	2.84E-01	2.47E-01	9 255 01	2.355-01	2.41E-01	2.38E-01	2.47E-01	2 36E.01	2 44E-01	0 3 2 2 2		2.11E-01	2.046-01	2.14E-01	2.11E-01	2.17E-01	2.14E-01	2.00E-01	2,14E-01																	
C - 10 cm	4.278-02	SOIE-OI	10 353						CONTRACT OF	10-BBort	2,016.01	2016-01		0.310.4					10 3002	2.142-01	10.0000	0.00				0.302	10-302-2	2,116.01	0.415-01			2.18-01	3066-01	2016-01							1.9000	10 3002	1.446.01	IC BLL'L	E ATELON	0.000.0																	
B - 10 cm	3.00E-02	4.73E-01	0.000					in start	10 928		LO BEAT	10.210		No.					10-3691		(02) PA						10.1001	TAGON 1					10-300 1	10 926 1	51 - A - C						6. I 6. E	E I E OI	2048.01	POLE OF	10-Bad L	10-100-0	2176-01	2016-01		1.1.1.0	SITE OF												
A - 10 cm	4.275.00	01 4 76E 01 4 73E 01 4 04E 01 4 79E	2145-02			Ì					10.306.0	1,000-01							4.17E-03	10-201-6							NO HODE	0.498.02	1000				No.	10.101	Contraction of							CALL OF	10-306-01	2410.01	0.300.0	10-2027																	
C - 10 cm	3,568-02 3,766,02	·5.166-01	1.43E-01	1.776-01	1.835-01		1.895-01	1.83E-01	1.835-01	1.865-01	1.896-01	1.95E-01	2.0AE-C	1 PRE-C	0.016			2.23E-C	2.26E-0	2.35E-C	2.35E-C	2.38E-C	2.41E-C		2.4/6-0	2.665	2.41E-C	2.386-0	2.69E-C			2.41E-C	2.386-0	2.326-0	2 145.4	2 1 LE-2	0.000		2.296.0		2.32E-01	2.63E-01	1.95E-01	2.04E-01	2.59E-01	2.14E-01																	
1 = A - 10 cm B - 10 cm C - 10 cm A - 10 cm B - 10 cm C - 10 cm B - 10 cm C -	0012000	4.866-01	1.50E-01	1.95E-01	1.986-01	10-324-1	2.01E-01	2.01E-01	2.01E-01	2.006-01	2.04E-01	1.98E-01											1 805-01			1.86E-01							1.836-01				1 OFF-DI						1.95E-01		1.92E-01	2.08E-01	2.17E-01	2.08E-01	2.01E-01	2 04F-01	2.14E-01		n kh	Ê.	den F								
1-10 cm	1000E+00	-Soution	-9.24E-02	-8.85E-02	9.465-02		3.055	3.66E-02	5.80E-02	5.80E-02	7.02E-02	1.106-01	1.265-01	1.595-01	0 380 0			2.595-01	2.76E-01	3.63E-01	3.45E-01	3.54E-01	2 DRF-01		2,846-01	2.93E-01	3.02E-01	3.05E-01	2.69E-01	2 415-01		2.35E-01	2.35E-01	2.47E-01	1 2 35F.01	2 50F-01	2 20E 01		2.046-01	2.016-01	1.956-01	2.04E-01	2.01E-01	2.01E-01	1.985-01	2.08E-01				_			30.14	1.06	2								
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Ű		-0.058	0.000	-0.273	-0.273	-0.273	-0.278	-0.331	-0.320	-0.336	-0.352	-0.341	-0.331	-0.331	-0.325	-0.346	· -0.336	-0.346	-0.346	-0.352	-0.362	-0.362	-0.346	-0.388	-0.378	-0.346	-0.331	-0.325	-0.304	-0.310	-0.304	-0.310	-0.325	-0.299	-0.299	-0.357	940.0-									
	B-Co	-010.0-	0.000	-0.352	-0.316	-0.347	-0.342	-0.367	-0.367	-0.362	-0.393	-0.372	-0.332	-0.327	-0.311	-0.321	-0.321	-0.352	-0.342	-0.321	-0.316	-0.321	-0.316	-0.316	-0.316	-0.327	-0.332	-0.321	-0.321	-0.327	-0.332	-0.321	-0.337	-0.347	-0.332	-0.332	240.0	-0.352	-0.332	-0.342	2002-0-		reading	n speed		
	A-Co	-0.026	0.000	0.010	0.015	0.015	0.103	-0.210	-0.262	-0.169	-0.246	-0.334	-0.395	-0.529	-0.529	-0.575	-0.595 -0.608	-0.672	-0.682	-0.559	-0.559	-0.5/0	-0.590	-0.472	-0.462	-0.457	-0.457	204.0-	-0.573	-0.452	-0.390	-0.395	-0.395	-0.390	-0.395	-0.410	104.0-					-1.68 V	dter pressure	un 2 - 10.2 cr elav	ľ	
	0-C0	0.000	0.000	-0.290	-0.270	-0.295	-0.319	-0.285	-0.270	-0.270	-0.290 -0.290	CR7.0-	-0.319	-0.319	-0.309	-0.295	-0.314	-0.324	-0.329	-0.334	-0.359	-0.349	-0.329	-0.427	-0.388	-0.354	-0.349	-0.324	0.309	-0.354	-0.433	-0.370	-0.451	-0.311	-0.275	-0.368	607.0-					0 cm H2O = ·	I2O to Schmi	cm speed; R a read time d		
ADA / 0 SS	B-Cp	0:000	0.000	-0.265	-0.260	-0.230	-0.265	-0.250	-0.240	-0.240	-0.270	0070-	-0.219	-0.230	-0.225	-0.230	-0.230	-0.209	-0.225	-0.235	-0.214	-0.230	-0.209	-0.214	-0.189	-0.199	-0.235	-0.219	-0.240	-0.245	-0.235	-0.219	-0.240	-0.260	-0.260	-0.270	-0.281	-0.270	-0.265	-0.260 -0.281	10210-	Schmidter: 30 cm H2O = -1.68 V	add 0.6 cm H2O to Schmidter pressure reading	Hun 1 - 10.3 cm speed; Run 2 - 10.2 cm speed 10 msec data read time delav		
7	A-Cp	0.000	0.000	0.155	0.240	0.230	0.060	0.035	0.000	-0.030	-0.050	-0.105	-0.205	-0.290	-0.324	-0.339	-0.484	-0.489	-0.509	-0.399	-0.419	-0.444	0.439	-0.354	-0.349	-0.344	-0.354	-0.349	-0.354	-0.314	-0.285	CR2.0-	-0.300	-0.295	-0.285	-0.304	100.0					Notes: 1)	5	(e) (4		
-	C Pg-psf	-1.34	-0.11 10.86	-5.91	-5.91	6.9 5	-6.69	-7,14	-6.92	-7.25	-7.58 -7.96	-7.25	-7.14	-7,14	-7.03	-7.48 -7.5	-7.59	-7.48	•7.48	-7.59	-7.81	-7 02	-7.48	-8.37	-8.14	-7.48	-7.04	-6.69	-6.58	-6.69	-9:58 -9:58	-0.09 -6.58	-7.03	-6.47	-6.47	-7.4R	2					No				
-4 AOA / 0 SS	B Pg-psf		-0.22	-7.92	-7.14	1977-	-7.70	-8.26	-8.26	-8.14 2.21	-0.81 -0.81	-7.70	-7.48	-7.36	-7.03	-7.25 -7.25	89.7-	-7.92	-7.70	-7.25	-7,14 7 oc	-7.25 -7.25	-7,14	-7.14	-7.14	-7.38	-7.95	-7.36	-7.25	-7.36	•7. 4 8 •7.8	-7.36	-7.59	-7.81	-7.48 7.40	₽. ²	-7.70	-7.92	-7.48	-7.70 -8.14						
4	A Pg-psf		0.11 20.53	0.33	0.45	0.45 0.45	-2.12	-4.46	-5.58	-3.67	-7.44 -7.44	-7.81	-8.48	-11.38	-11.88 	80.21	-15.06	-14.50	-14,73	-12.05	-12.05	-12.27	-12.72	-10.15	-9.83	-9.82	-120.4	•10.04	-12.36	-9.71	-8.37 o 4o	-9:40 -9:50	-8.48	-8.37	6.68 100	-9.82 -9.82							deg F deg F	deg F	deg F	deg F
	C Pg-psf		0.00 21.31	-6.58	6.14	8 9 9 9	-7.25	-6.47	-6.14	-6.14 e.co	0.0 99.9-	-7,48	-7.25	-7.25	-7.03	8.7	-7,48	-7.36	-7.48	-7.59	-7 00	-8.14	-7.48	-9.71	-8.81	9.89 4.98	-8.14	-7.36	-7.03	-8.03	20.9- 0 10	9.12	-10.24	-7,07	-0.20 a 37	-6.56								88		
+4 AOA / 0 SS	B Pg-psf (000 2053	-5.80	-5.69 - 5.69	-5.24	-5.80	-5.47	-5.24	-5.24 F 01	-5.47	-5.24	-4.80	-5.02	-4.91 	2, 2, 2, 2, 4	-4.91	-4.57	-4.91	-5.13	-4.69 -5 13	-5.02	-4.57	-4.69	-4.13	-4.85 5 5 5	513	-4.80	-5,24	-5.38	-0,13 14 BN	-5.58 -5.58		-5.69	9.0 7 9	5.91	-6.14	-5.91	-5.80	-5.09 -6.14			Tinf= Tinf=	ž.	Tinf= Tinf=	L ju L ju L ju
7	A Pg-psf	0.00	20.98		200	2.34	őę.	ЧĿ,		92		-2.79	1.83	-6.47	-7.25	80.7. 80 8.	-10.82	-10.93	-11.38	8,8 8,8	15.9	•10.04	-9.82	-7.92	-7.81	9 S 7 S	-7.59	.7.81	-7.92	-7.03 e e e	8.0- 8.7	-6.69	-6.69	-6.58	8.0- 78.8-	-6.81						Run Order				
) SS			5.07E-01			2.01E-01	2.20E-01	2.32E-01	2.26E-01	2.35E-UT	2.38E-01	2.35E-01	2.32E-01	2.32E-01	2.29E-01	2.41E-01	2.44E-01	2.41E-01	2.41E-01	2.44E-01	2.50E-01	2.53E-01	2.41E-01	2.66E-01	2.596-01	2.41E-U1	2.29E-01	2.20E-01	2.17E-01	2.20E-01		5₽		2.14E-01	цц 4 Ц	14	- <i></i>	171	<u>, s</u> ,	<u>Na ngo</u>		œ				
SDIU (V) -4 AOA / 0 SI	m B - 10 cm	2 1.22E-02	0 1.63E-01		0 2.08E-01					1 2.35E-01		_	_		1 2.04E-01					1 2.11E-01						2.14E-01				2.14E-01				2.26E-01			2.23E-01	2.29E-01	2.17E-01	2.35E-01						
		400 1.22E-02			01 0.00E+00				01 1.65E-01	_					01 3.24E-01			-	4	01 3.42E-01	_	-			01 2.84E-01					01 2.78E-01				3 2.41E-01		N										
(V) / 0 SS	0 cm C - 10	0.00E+00 0.00E+00	E-01 -5,83E-01		.56E-01 1.68E-01 37E-01		-		43E-01 1.68E-01						-01 1.92E-01					-01 2.08E-01					-01 2.41E-01					-01 2.20E-01				01 0.1933			ġ	53	58	0		~	u.			
SDIU (V) +4 AOA / 0 SS	-10 cm B - 10 cm C - 10 cm	0.0000000000000000000000000000000000000	-5.74E-01 -5.62E-01		-1.40E-01 1.30E-01 -1.40E-01 1.37E-01		-		0.00E400 1.43E-01	-		-	* ** '		1.98E-01 1.34E-01 2.08E-01 1.37E-01		-	-	3.11E-01 1.34E-01	1.40E-01 1.40E-01		-	-		2.14E-01 1.13E-01 2.11E-01 1.13E-01		. –	Ċ	*** (.92E-01 1.46E-01 .74E-01 1.40E-01		-	-	E-01 1.56E-01 E-01 1.56E-01		-	1.68E-01	1.62E-01	1.59E-01	1.68E-01		20 in Hg				
Test 519 Manifold	Port # A-		3 5.7	-						- 0	2				- ~		20 2.96						0				2	~	~ ~	_		-		40 1.80E-01 41 1.74E-01			44	5 9	40	48		e 1	la≖ 65			
Ξ Ξ	-														-			<u> </u>			_			_												-	_					a. F	-			

	8	0.062	0.000 0.937	-0.303	-0.298	-0.240	-0.317	-0.288	-0.293	-0.288	-0.298	-0.308	806.0-	-0.303	-0.303	-0.312	-0.317	-0.322	-0.327	-0.317	-0.332	-0.356	-0.341	-0.322	-0.356	-0.317	-0.322	-0.303	-0.293	-0.298	-0.298	-0.312	-0.322	-0.322	-0.274	0.317	-0.279						8	-		
0 AOA / -5.0 SS	B.Cp		0.000			-0.289		•					- 0.200-					-0.304						-0.264						-0.294				-0.299				-0.329	-0.334	667.0-	-0.334		add 0.6 cm H2O to Schmidter pressure reading	Run 1 - 10.2 cm speed; Run 2 - 10.6 cm speed 10 msec data read time delav		
0	A-Cp	0.000	0.000	0.151	0.125	0.110	0.047	-0.083	-0.172	-0.031	-0.167	-0.261	-0.282	-0.464	-0.480	-0.506	-0.537	-0.689	-0.668	-0.584	-0.574	-0.574	-0.579	-0.558	-0.475	-0.443	-0.470	-0.449	-0.454	-0.475	-0.412	-0.402	-0.391	-0.396	-0.381	-0.402	-0.402					0 = -1.66 V	chmidter pre	ed; Run 2 - 1 me delav		
ş	с. С	0.000	0000	-0.306	-0.301	-0.311	-0.321	-0.296	-0.296	-0.291	-0.301	-0.316	-0.330	-0.326	-0.316	-0.326	-0.326	-0.631	-0.361	-0.336	-0.351	-0.351	-0.356	-0.306	-0.386	-0.311	-0.306	-0.331	-0.296	105.0-	-0.291	-0.311	-0.336	-0.336	-0.256	-0.371	-0.271					Schmidter: 30 cm H2O = -1.66 V	cm H2O to S	Run 1 • 10.2 cm speed; Run 2 10 msec data read time delav		
0 AOA / -2.5 SS	B-Cp	0.000	0.000	-0.318	-0.308	-0.267	-0.288	-0.288	-0.283	-0.288	-0.293	-0.277	-0.267	-0.257	-0.252	-0.252	-0.247	292.0-	-0.262	-0.262	-0.242	-0.257	-0.242	-0.232	-0.247	-0.237	-0.252	-0.257	-0.237	-0.257	-0.252	-0.252	-0.267	-0.262	C0270-	-0.283	-0.298	-0.293	-0.288	2020-	-0.288	1) Schmidte	2) add 0.6 (3) Run 1 - ' 4) 10 msec		
	A-Cp	Ň	0.000	0.119	0.144	0.129	0.010	-0.088	-0.144	-0.062	-0.150	-0.227	-0.253	-0.423	-0.444	-0.459	-0.485	9AC'A-	0.609 -0-	-0.511	-0.526	-0.485	-0.500	-0.433	-0-408 -0-408	-0.408	-0.413	-0.418	-0.413	-0.438	-0.351	-0.346	-0.366	-0.356	0.346	-0.351	-0.366					Notes:				
	C Pg-psf		0.11	-7.00	•6.89 • • • •	889	.7.34	-6.66	-6.77	-6.66	-6.89	11.7	-1.1.7 	-7.00	-7,00	-7.23	-7.34	-1.45 7.45	7:2	-7.34	-7.68	-8.24	-7.90	€4.)- 19 a.	-8.24	-7.34	-7.45	-7,00	ç. Ç. Ş	80.0- 80.1-	6.89	-7.23	-7.45	-7.45 	÷ 6	-7,34	-6.44									
			0.11 21.34	-8.13	-7.57	-8.44	-7.34	.7.34	-7.34	-6.77	H:7-	-7.00 11 -	1-9- 1-2-	-6.65	-6.32	-6.77	-6.10 	-0.//	3. 11. 14.	-6.21	-5.87	-6.21	-6.10	-0.0/ -5.87	-6.10	-6.32	-6.55	-6.21	-6.21	CC.0-	-6.55	-6.55	-6.55	-6.06 -7.03	37. 1	-8.77	-7.23	-7.34	04/)- 88.8-	885-	-7.45					
	A Pg-psf		0.00 20.32	3.27	2.71	2.37	1.02	-1.81	-3.73	-0.68	-3.61	8 ç ç	9 9 9 9 0 9	-10.05	+10.39	-10,95	-11.63	00.41-	-14.45	-12.65	-12.42	-12.42	-12.53	-10.73	-10.28	-9.60	-10:16	-9.71	-9.82	10 73	-8.92	-8.69	-8.47	8.9 8.9	-8.24	-8.69	-8.69						deg F	deg F deg F	ц ар Ц	deg F Tgeb
SS	C Pg-psf	6000000	0.00 21.12	-6.89	-6.77 •	8. 9	-7.23	-6.66	-6.66	-6.55	-6.77	·7.11	-7.23	46.7-	-7.11	-7.34	4.5	₽75	6.13 -	÷7.57	-7.90	-7.90	8,8	8 9 9	8;8; 9;9;	·7.00	-6.89	-7.45	9 9 9 9	-0.0	-6.55	-7.00	-7.57	/0/- 10-/-	-5.76	-8.36	-6.10						63		8	
-	m	1000000	0.00 21.00	•11.7	69.9- 	5.98 8.5	-8.44	-6.44	-6.32	-6.44	-6.55 -	5,6 7	-5.98	-6.76	-5.65	-5.85	-5.53					S.		5.0 2 g	-5.53	-5.31	-5.65	-5.76	-5.31 e 7e	5.6 15.78	-5.65	-5.65	8.; ;)9.0 19.0	-5.87	-6.32	-6.66	-6.55	6 6 ‡ €	. A 44	-6.44		T inf =	T inf = T inf =	T Inf =	- 19 - 19 -
	n A Pg-psf			ЫŃ	3.16		23	1 -1.92			<u> </u>	972 	-5.53	1.67	26	1 -10.05			2022			623	1 -10.95						-9.03 -9.03			60	1 - 8 .8				<u></u>					Run Order	0	8 <	< 0	<u>ہ</u> ہ
5.0 SS			3 3.36E-02 1 -5.62E-01	ξ	1 2.23E-01	-						1 2.295-01						1 2.30E-01					1 2.50E-01						1 2.20E-01					1 2.38E-01			1 2.11E-0									
SDIU (V) 0 AOA / -5.0 SS	cm B-10 cm	0 8.10E-03	0 3.05E-03	-02 2.26E-01	-02 2.11E-01			N	•••	- 1	- 1		01 1.74E-01	-	-	-	01 1.71E-01			-	-		01 1.71E-01			-	•		01 1.74E-01			-		01 1.805-01	1	•	01 2.01E-01	2.04E-01	Z.U6E-U1	1.95F-0	2.08E-01					
	A - 10	00 0.00E+C	00 0.00E+00 . 01 -5.49E-01 -	1 -8.85E-C	-7.325	- 6.41E	-2.75E	4.80E	1.01 1.01	1.83	9.77E	1.001	1.65	2.72E-	2.81E	2.96E		1 3 60E-01		3.42E	3.36E	3.36	3.395	100 C	2.78E	2.59E	2.75E	2.62F	2.66E-	2.90E-	2.41E	2.35E	2.29E	1000	2.23E	2.35E	I 2.35E									
	m C-10 ci	00 0.00E400				01 1.71E-01		-	•	- 1		01 9 04E-01					01 1.98E-01						01 2.17E-01						01 1.80E-01		-			01 2.04E-01			01 1.65E-01	5 2	5 5	. =						
SDIU (V) 0 AOA / -2.5 SS	-10 cm B - 10 cm C		00 0.00E+00		02 1.86E-01		-	-		- 1		11 1.00E-U1		-	-	- 1	01 1.50E-01	- +				- 1	01 1.46E-01		• •-	-	-		01 1.43E-01		• •••	-	-	1 1.38E-UI		-	-	1.77E-01	1./4E-01	1.74E-0	1.74E-01		deg F			
	×	0.00E+00	0.00E+(-5.55E-(-7.02E-02	-8.555-02	-4.88E-02	-6.10E-03	5.19E-02	8.55E-02	3.66E-02	8.85E-02	1.34E-01	1.50E-01	2.50E-01	2.62E-01	2.72E-01	2.87E-01	3.54F-01	3.60E-01	3.02E-01	3.11E-01	2.87E-01	2.96E-01	3.03E-01	2.41E-01	2.41E-01	2.44E-01	2.47E-01	2.44E-01	2.47E-01	2.08E-01	2.04E-01	2.17E-01	2.11E-U1 2.08E-01	2.04E-01	2.08E-01	2.17E-C				_	30.20	65			
Test 520 Manifold	Port #		N 00	41	<u>ه</u> م	~	80	თ	₽	= :	29	2 \$	<u>t</u> 5		12	₽ :	6	2 2	3	33	24	33	88 6	2 6	2 8	8	31	88	83	5 K	88	37	88	8 9	₹	42	4	4 4	6 4	47	4	Pa=	Ta=			

-	_k	-115 -115	0.00	2000	313	333	269	377	387	5	1/2/0	0.411	0.421	406	-0.396	396	-0.401	-0.401	-0.431	-0.416	0.420	0.431	0.445	-0.460	-0.436	-0.509	-0.485	-0.450	<u>8</u>	88	9 F	26	39	登	57	8		67	2					1		
5003	2																ġ	ộ (Ş e	Ģ d	Ì	ġĞ	ç	ò	ò	ę	ġ.	°,	-0.450	ç, c	678 Q-	-0.426	-0.465	ė,	-0.357	-0.450	030.0-	9	-0.254					ading Deed		
	AUAU	0100	0.000	0.940	-0.299	-0.338	-0.289	-0.343	-0.357	-0.347	-0.30/	0.372	-0.343	-0.343	-0.333	-0.313	-0.323	-0.308	872.0-0	-0.382	10000	0.333	-0.323	-0.318	-0.303	-0.308	-0.313	-0.333	-0.352	B20.0-	672 O	-0.347	-0.328	-0.328	-0.328	-0.367	2000	-0.347	-0.367	-0.357	-0.357	-0.352	0.396	ssure re 0.1 cm s		
	2	0.133	0.00	-0.025	0.054	0.084	-0.039	-0.118	-0.148	2/1.0-	0.216	-0.271	-0.285	-0.418	-0.448	-0.453	-0.517	-0.522	0.000	0.004	0.586	-0.566	-0.571	-0.566	-0.595	-0.512	-0.487	-0.472	-0.467	1/6/0-	-0.512	-0.443	-0.418	-0.423	-0.418	-0.423	-0.418	-0.423	-0.472) = -1.83 V hmidter pre	e delay	
g		40.134	0000	-0.328	-0.366	-0.366	-0.341	-0.376	-0.361	-0.360	-0.391	0.396	-0.388	-0.396	-0.381	-0.386	-0.396	9/2/0	0.410	014-0-	-0.411	-0.401	-0.450	-0.425	-0.420	-0.495	-0.460	-0.425	0.406		-0.356	-0.411	-0.430	-0.361	-0.391	-0.287	-0.322	-0.435	-0.302				-	 Schmidter: 30 cm H2O = -1, 83 V add 0.8 cm H2O to Schmidter pressure reading 3) Run 1 - 10.5 cm speed; Run 2 - 10.1 cm speed 	4) 10 msec data read time delay	
0 404 / 42 6 85		-0212	0.000	-0.271	-0.281	-0.313	-0.271	-0.304	0.513	-0.313	-0.331	-0.322	-0.294	-0.290	-0.294	-0.271	-0.290	-0.281	2020	-0.285	-0.276	-0.276	-0.290	-0.262	-0.267	-0.258	-0.271	-0.271	-0.290	-0.285	-0.299	-0.304	-0.290	-0.290	-0.290	-0.304	-0.308	-0.308	-0.313	-0.327	-0.313	0.913	-0.327	Schmidter add 0.6 cm Run 1 - 10	10 msec d	
¥0	1.00	-0.125	0.000	0.028	0.079	0.116	0.042	-0.032	-0.42	212	0.171	-0.231	-0.268	-0.338	-0.435	-0.435	-0.476	-0.527	0.618	0.643	-0.555	-0.548	-0.546	-0.541	-0.559	-0.486	-0.453	-0.449	-0.458 0.45P	0.458	0.467	0.416	-0.375	0.379	0000	0.384	0.398	0.375	0.412					Notes: 1) 2) 3)	4	
- SS	C Po-per	2.56	0.81 20.28	-5.03	-5.94	-9.35 -9.35	2 12 2 12	12.1	7.07	.127	-7.89	-7.99	-8.19	-7.89	-7.68	-7.68	81.14	0,0	808	8.30	2.78	1.05	100	278	-	-	22	500	25	08	-7.27		•	6.56 6.56	202	5.02	640		• 12.4					Not		
0 AOA / +6.0 SS	B Perbal C		1,13 20 70					5.0 20		1	-7.58			-6.04		5.5 7	3	574	độ C						2	895	5.43 e e e		ñ.		U)		74				.6.66			6.35	8.8	329	.17			
4 0	Pa-pel B		0.61 20.04		50	2.25								3			10.24						-2		-11.88							-9.71 -6		-8.30 				30 -6	82 19	φ i	P a	P 4	÷7	L L	երոր	
	Ł				- 35		<u>.</u>			<u>.</u> 17					1 <u>8</u> 2 14	iai Na	veig Nord		Sile unit		-94 196		0.0		888 11 10	-44)); [6]]2		38) 36)				¢.	æ, .	n a		í ↑	8.	œ.	¢.					deg F deg F	а С С С С С С С С С С С С С С С С С С С	1
88	C Po-pet		0.61	-6.26	60'2-	-7.07	7 6 9 1	12.1	-0 <i>1</i> -	-7.07	-7.58	-7,68	-7.48	-7,68	-7.37	94'),	8.7	198 <i>1-</i>	-8.09	-9.09	66'2-	-7.78	-8.81	-8.30	9.18 •	R.6-	5.4	7.80	888	.7.89	-6.86	66'1-	-8.40	8 9 9 5	849	-5.43	-6.15	-8.50	-5.74					89 20	2223	
0 AOA / +2.5 SS	B Pc-pa	-3.18	1.54 22.43	4.5	£. 1	-5.43	54	270-	-543	-5.43	-5.84	-5.63	2 :83	-4.92	-5.02	55	72.4	. 4 .81	-5.22	4.81	-4.61	-4.61	-4.92	4.30	₽ 8 ¥	4,20	ç i	607	4.81	-4.81	-5.12	-522	87	26F	185	-522	-5.33	-5.33	-5.43	4.74 6.14	590 197	-5.63	-5.74	T inf = T inf =		
	100	-228	0.61 21.30	£11	2.25	3.07		-154	-2.66	-3.28	•3.28	4.61	-5.43	-6.96	-9,12	21.5	11 18	-13.01	-13.62	-13.72	+11.78	-11.57	-11.67	-11.47	88'll-	-10.24	2 6 9 9	10.63	.9.63	-9.63	-9.83	-8.71	•7.78	-1.03 -8.10	-8.30	667.	-8.30	·7.76	-8,60					Run Order B C	≪ < ⊡ ∪	
830	C - 10 cm	7.638-02	2 3135-12 3435-12 5805-02 11 5315-01 5315-01 5286-01	2.44E-01	2.53E-01	2.66E-01	2 03E-01	2.99E-01	2.93E-01	2.93E-01	3.11E-01	3.14E-01	3.20E-01	3.11E-01	3.055-01	0.000	3 DRF-01	3.27E-01	3.17E-01	3.24E-01	3.24E-01	3.27E-01	3.36E-01	3.45E-01	20E-01	3.60E-01	3.39F-01	3.39E-01	3.42E-01	3.24E-01	2.93E-01	3.24E-01	3.48E-01	2.815-01	3.395-01	2.26E-01	2.26E-01	2.87E-01	2.17E-01	9.10E-UZ	8.24E-02	93E-02	7.93E-02	œ		
SDIU (V) 0 AOA / +5.0 8\$	1 - 10 cm	9925-02	5.31E-01	2.17E-01			2.695.01			2.84E-01	3.14E-01				2.625-01								2.56E-01		2.44E-01						:69E-01 2								2.84E-01 2				02E-01 7			
80	- 10 cm	716-02	5.31E-01 -	71E-02	83E-02	7 895-00								3.116-01 2										4.03E-01 2		10	10	1 01			~	~ ~	3.11E-01 2.	1 (1		N	~		3.455-01 2.			7.32E-02 2.	~]			
	- 10 cm A	715-02 6	-5.28E-01 -8	53E-01 6	2.78E-01 1						2.93E-01 1.		-	2.905-01 3.		-	-	-	3.08E-01 4.	-			÷	3.14E-01 4.				-	-		-	3.05E-01 3.2	-	-			-	3.20E-01 3.1								
SDIU (V) 0 AOA / +2.5 SS	10 cm C-	6E-02 6.	4E-01 -5.	9E-01 2.1	2.35E-01 2.7		10	1 01	~				_	241E-01 2.9											_			_	_											_			.88E-01 6.71	무느		
SDH 0 AOA	A - 10 cm B - 10 cm C - 10 cm	E-02 9.4(5.08E-01 -5.74E-01	E-02 2.2	0.00E+00 2.35		1 01	~									~	N	_	_	-		N					~~	~								••••	-01 2.536-01			2	2	~	t in Hg deg F		
_ 5	_	6.71	89	3.36	0.0	2.44	7.32	1.13	1.46	1.65			2.295-01	-							-			4 246-01						3.54E-01		3.2/E-01		-		3.05E-01	3.14E-01	2.99E-01	9 16F-02	7.63E-02	7.02E-02	7.02E-02	6.71E	30.14 64		
Test 524 Manifold	Port #	- (41	0 4			бл 	\$	=	₽ \$	23	4 4	2 \$		18	19	20	2	2	ន	5 b	88	86	i 8	ດ ຄ	8	3	32	8	88	88	36	R	39	9 :	÷ ;	24	7	\$	48	47	\$	Pa ≕ Ta ⊨		

Turnin b Total and training Total and traini	-	20°2	0130	89	270	405	327	374	379	338	358	395	0.400	400	358	364	379	374	405		390	400	452	-0.415	6/270	473	379	431	369	353	0.421	0.374	0.441	-0.462	0.400	424	0.426	-0.379	_	_								
BUILVI SULVI SULVI <t< th=""><th>90 0 3 1</th><th>3</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>5</th><th>2</th><th>40</th><th>. 9</th><th></th><th>reading</th><th>n speed</th><th></th><th></th><th></th></t<>	90 0 3 1	3																																					5	2	40	. 9		reading	n speed			
BUILVI SULVI SULVI <t< th=""><th></th><th>B.C</th><th>-0.18</th><th>00.0</th><th>-0.36</th><th>0.35</th><th>10.04</th><th>-0.36</th><th>-0.37</th><th>-0.36</th><th>-0.35</th><th>-0.37</th><th>19.0</th><th>-0.34</th><th>-0.34</th><th>-0.33</th><th>-0.33</th><th>-0.31</th><th>25.0-</th><th></th><th>0.33</th><th>-0.33</th><th>-0.32</th><th>0.29</th><th></th><th>-0.29</th><th>-0.30</th><th>-0.35</th><th>-0.34</th><th>-0.32</th><th></th><th>-0.32</th><th>-0.30</th><th>-0.32</th><th>-0.32</th><th></th><th>-0.3</th><th>-0.33</th><th>-0.34</th><th>0.0</th><th></th><th>-0.34</th><th>2</th><th>pressure</th><th>- 10,0 C</th><th></th><th></th><th></th></t<>		B.C	-0.18	00.0	-0.36	0.35	10.04	-0.36	-0.37	-0.36	-0.35	-0.37	19.0	-0.34	-0.34	-0.33	-0.33	-0.31	25.0-		0.33	-0.33	-0.32	0.29		-0.29	-0.30	-0.35	-0.34	-0.32		-0.32	-0.30	-0.32	-0.32		-0.3	-0.33	-0.34	0.0		-0.34	2	pressure	- 10,0 C			
BUILVI SULVI SULVI <t< th=""><th></th><th>A-Co</th><th>-0:130</th><th>0.000</th><th>0.080</th><th>0.035</th><th>0.005</th><th>-0.055</th><th>-0.200</th><th>-0.275</th><th>-0.160</th><th>-0.250</th><th>0320-</th><th>-0.375</th><th>-0.585</th><th>-0.605</th><th>-0.585</th><th>-0.665</th><th>-0.795</th><th>002.0-</th><th>-0.620</th><th>-0.605</th><th>-0.595</th><th>0.60</th><th>-0.540</th><th>-0.480</th><th>-0.495</th><th>-0.465</th><th>-0.505</th><th>-0.490</th><th>-0.585</th><th>-0.465</th><th>-0.425</th><th>-0.460</th><th>-0.430</th><th>-0.430</th><th>-0.410</th><th>-0.435</th><th></th><th></th><th></th><th></th><th>20 = -1.76</th><th>Schmidter</th><th>eo; Hun 2 me delay</th><th>•</th><th></th><th></th></t<>		A-Co	-0:130	0.000	0.080	0.035	0.005	-0.055	-0.200	-0.275	-0.160	-0.250	0320-	-0.375	-0.585	-0.605	-0.585	-0.665	-0.795	002.0-	-0.620	-0.605	-0.595	0.60	-0.540	-0.480	-0.495	-0.465	-0.505	-0.490	-0.585	-0.465	-0.425	-0.460	-0.430	-0.430	-0.410	-0.435					20 = -1.76	Schmidter	eo; Hun 2 me delay	•		
BUILVI SULVI SULVI <t< th=""><th></th><th>0-0</th><th>-0.094</th><th>0.000</th><th>-0.343</th><th>-0.323</th><th>-0.323</th><th>-0.353</th><th>-0.353</th><th>-0.358</th><th>-0.358</th><th>222</th><th>0.393</th><th>-0.378</th><th>-0.353</th><th>-0.368</th><th>-0.358</th><th>-0.373</th><th>-0.378</th><th>9.269</th><th>-0.383</th><th>-0.388</th><th>-0.403</th><th>-0.408</th><th>0.649</th><th>-0.432</th><th>-0.368</th><th>-0.388</th><th>-0.363</th><th>-0.323</th><th>0.358</th><th>-0.333</th><th>-0.373</th><th>-0.368</th><th>-0.358</th><th>-0.358</th><th>-0.398</th><th>-0.368</th><th></th><th></th><th></th><th></th><th>30 cm H</th><th>H2O to S</th><th>.∡ cm spe ata read ti</th><th></th><th></th><th></th></t<>		0-0	-0.094	0.000	-0.343	-0.323	-0.323	-0.353	-0.353	-0.358	-0.358	222	0.393	-0.378	-0.353	-0.368	-0.358	-0.373	-0.378	9.269	-0.383	-0.388	-0.403	-0.408	0.649	-0.432	-0.368	-0.388	-0.363	-0.323	0.358	-0.333	-0.373	-0.368	-0.358	-0.358	-0.398	-0.368					30 cm H	H2O to S	.∡ cm spe ata read ti			
BUILVI SULVI SULVI <t< th=""><th>98.3 C. / N</th><th>00-</th><th>0.036</th><th>88</th><th>0.393</th><th>0.338</th><th>0.278</th><th>0.363</th><th>0.378</th><th>0.378</th><th>0.363</th><th>2020</th><th>0.358</th><th>0.338</th><th>0.338</th><th>0.328</th><th>0.328</th><th>0.323</th><th>1323</th><th>0.363</th><th>0.333</th><th>0.323</th><th>0.328</th><th>0.318</th><th>0.318</th><th>0.308</th><th>0.318</th><th>0.358</th><th>0.328</th><th>0.323</th><th>0.338</th><th>0.333</th><th>0.323</th><th>0.328</th><th>0.328</th><th>0.348</th><th>0.348</th><th>0.343</th><th>0.348</th><th>0.348</th><th>0.338</th><th>0.363</th><th>Schmidter</th><th>idd 0.8 cm</th><th>0 msec d</th><th></th><th></th><th></th></t<>	98.3 C. / N	00-	0.036	88	0.393	0.338	0.278	0.363	0.378	0.378	0.363	2020	0.358	0.338	0.338	0.328	0.328	0.323	1323	0.363	0.333	0.323	0.328	0.318	0.318	0.308	0.318	0.358	0.328	0.323	0.338	0.333	0.323	0.328	0.328	0.348	0.348	0.343	0.348	0.348	0.338	0.363	Schmidter	idd 0.8 cm	0 msec d			
BUILY SOLV SOLV SOLV A TOTAL STATE ADDITE	U V V				•			·	·	·					•	·		·			ġ							•					·					_	Ŧ	7 7		Ţ		ົລີ	5			
atom SDU(N) SDU(N) SDU(N) AtoM (4.93) AtoM (4.93) <th>-</th> <th>-</th> <th></th> <th></th> <th>331</th> <th></th> <th><u>.</u></th> <th>en e</th> <th>- </th> <th>- 535</th> <th>25.,</th> <th></th> <th>¥.,</th> <th>0.</th> <th>- 5.80</th> <th>-</th> <th></th> <th>58</th> <th></th> <th></th> <th></th> <th>1912</th> <th>23</th> <th></th> <th></th> <th></th> <th>ÉÚ</th> <th>-334</th> <th>310</th> <th>20</th> <th></th> <th>1967</th> <th>- 109</th> <th></th> <th>•</th> <th></th> <th>Gâi</th> <th>Ŷ</th> <th></th> <th></th> <th>2009 23</th> <th>23</th> <th>Notes</th> <th></th> <th></th> <th></th> <th></th> <th></th>	-	-			331		<u>.</u>	en e	- 	- 535	25.,		¥.,	0.	- 5.80	-		58				19 12	23				ÉÚ	-334	310	20		1967	- 109		•		Gâi	Ŷ			2009 23	23	Notes					
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-		620.0+	0:000	0.040	-0.357	-0.362	-0.336	-0.378	0.380	-0.405	-0.441	-0.399	-0.399	-0.394	480.0-	460.0-	-0.420	-0.405	-0.389	-0.426	-0.405	-0.431	-0.410	-0.405	-0.462	-0.410	-0.410	-0.378	-0.373	-0.326	-0.368	-0.399	-0.310	0.00	-0.252	-0.289	-0.336	-0.278				7	<u>B</u>	þ		
		-0.168	0.000	0.276 -0.276	-0.373	-0.368	-0.332	-0.383	-0.383	-0.398	-0.460	-0.383	-0.337	-0.347	140.0-	270.0-	-0.337	-0.373	-0.424	-0.337	-0.322	-0.312	-0.327	-0.317	-0.327	-0.352	-0.393	-0.327	10.0-	-0.332	-0.337	-0.337	-0.347	515-0-	-0.347	-0.347	-0.332	-0.347	-0.347	-0.358	-0.393	-0.424	Schmidter: 30 cm H2O = -1.77 V add 0.8 cm H2O to Schmidter pressure reading	10.1 cm spe		
		0116	0.000	0.089	-0.037	0.005	-0.078	-0.188	-0.277	-0.282	-0.308	-0.350	-0.402	-0.475	0.000	8090-	-0.616	-0.684	-0.705	-0.721	-0.643	-0.616	-0.637	-0.658	-0.549	-0.522	0.538	-0.538	-0.559	-0.569	-0.481	-0.454	-0.454	-0.454	-0.460	-0.454	-0.481	-0.564					1) Schmidter: 30 cm H2O = -1.77 V 2) add 0.8 cm H2O to Schmidter pr	ed; Hun 2 - me delay		
ç	2.0	-0.064	0,000	-0.211	-0.320	-0.320	-0.285	620-	-0.339	-0.334	-0.384	-0.344	-0.349	-0.344		-0.359	-0.364	-0.354	-0.354	-0.369	-0.359	0000-0-	-0.369	-0.339	-0.403	-0.398	-0.369	-0.344	0.310	-0.290	-0.325	-0.315	0.295	0.354	-0.256	-0.285	-0.393	-0.329				1	:: 30 cm H; n H2O to 5	2.1 cm spe lata read ti		
00 3 6T / YUY F	- U	020.0-	0000	-0.341	-0.336	-0.331	-0.297	-0.346	-0.361	-0.356	-0.405	-0.341	-0.311	2620-	2020-	-0.311	-0.292	-0.326	-0.400	-0.356	-0.336		-0.341	-0.336	-0.341	-0.341	-0.381	-0.351	-0.336	-0.356	-0.346	-0.356	-0.355 ABE 0-	-0.395	-0.381	-0.361	-0.366	0000	-0.376	-0.371	-0.391	-0.405	Schmidter add 0.8 ci	3) Hun 1 - 10.1 cm speed; Hun 2 4) 10 msec data read time delay		
	A- Ca	-0.025	0000	-0.040	-0.025	-0.015	-0.044	-0.227	-0.287	-0.242	-0.262	-0.336	-0.361	-0.420	0.520	-0.549	-0.598	-0.717	-0.662	-0.697	-0.588	-0.572	-0.598	-0.618	-0.499	-0.484	-0.460	-0.489	-0.480	-0.539	-0.450	-0.400	-0.410	-0.425	-0.415	-0.410	-0.430	-0.304					Notes: 1)	री क		
1 22 03	C Po-net	-1.38	0.21	-5.08	-8.99	-7.10	/0.9-	167.	-7.62	-7.94	-8,68	-7.84	8.	8.). E C	-7.73	-8.26	-8.26	-7,84	-7.82	-8.37	-7.94 7.47	-8.26 -8.26	-8.05	-7.94	-9.11	-8.05	-8.05 7 1 1	÷ 8	-7.31	-6.35	-7.20	5 2	5 9 9 9	-7.84	-4.87	-5.61	-8.57 - 5.5	7 ?					Ž			
4 AOA / 450 SS	Pa-pa	2.25	1.08	-4.68	-6.87	-9.57	29.C-	80.2-	•6.88	-7.20	-8.47	-6.88	9.9 8.9		-5.61	-6.14	-5.93	-6.67	-7.73	8°5.	19.0- 18.40	5.79	-5.72	-5.51	-5.72	-6.25	8 F 7	5.51 •5.51	-5.72	-5.82	5.83	<u>8</u> ,0	-6.67	-7.31	-8.14	6.14 -	-5.82 • • •	t y	-8,14	-6.35	8; ;	•1.13				
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-4 AOA / +2.5 SS	Pg-psf	0:00	0.42 20 54	-6.08	-6.78	\$. \$	88	-6.99	-7.31	-7.20	-8.26	8.9 9	020	10.0	-5.83	-8.25	2.83 5.83	-8.57	5 12 1 20 1	8.). 87.9	-0.10 -0.67	-6.88	-6.88	-6.78	- 6 .88	89 F	2. 2. 80 2	989 989	-6.78	-7.20	89	2 Se L	-7.41	-8.65	-7.73	57	1.41 7.41	7.69	-7.62	7.52	7.94	0.20			Tinf=	
4 A(A Pg-psf B Pg-psf	0.11	0.64 20.78	-0.21	0.11	× 8	5.85	4.24	-5.08	4.65	-4.98	-8.67	87.7.	-10.70	-10.70	-11.12	-12.18	-14.72	13.25	20 F	-11.33					9.74					-9.00 7.04			-8.47	8.26	619 619	0.00 10 17						Run Order A B			
l ss l	Ę	3.87E-02	3.36E-02 -5.13E-01	1.86E-01	416-01	10-345-01	53E-01	.50E-01	.59E-01	.69E-01	.90E-01	2.66E-01	2.62F-01	62E-01	2.62E-01	.78E-01	2.78E-01	695-01	2.09E-01	var.	i de la	<u>89</u>	(73) A	2.69E-01	3.02E-01	-/2E-01	53E-01	2.59E-01	82.;	Ra	2.47E-01		.26E-01	2.66E-01	1.80E-01		1.95E-01	41E-02	4.58E-02	58E-02	58E-02		n N			
SDIU (V) 4 AOA / +5.0 SS	• 10 cm C	1.41E-02	20E-02	.98E-01 1	:.56E-01 2	30E-01 2	2.62E-01 2	2.69E-01 2	2.62E-01 2	2.72E-01 2	3.08E-01 2	2.102E-01 2						2.56E-01 2						23E-01 2							35E-01 2.	• • •	0	•••	2.41E-01 1.						2.69E-01 4.					
0 T	-10 cm	5.19E-02 6	1 -5.13E-01 -5.28E-01	1.85E-02 1	80E-02 2	24E-00 2	1.46E-01 2	.83E-01	.98E-01			2.41E-U1 2 9.79E-01 9						4.36E-01 2			10	2	-	~ •		3.51E-01 2	1 CI	0	~	3.69E-01 2.	20	1 01	0		3.05E-01 2.						5.80E-02 2.1					
SDIU (V) SDIU (V) -4 A0A / +2:5 SS -4	- 10 cm A	.97E-02	6.01E-01 5.92E-01 5.55E-01 3	.59E-01	201-01-202	04E-01	32E-01	.41E-01	.38E-01		2.66E-01 2		2.41E-01 3		-	-	_		_					2.38E-01 4	_	_				2.08E-01 3.					1.86E-01 3.						4.2/E-02 5.1 3.97E-02 5.1					
SDIU (V) (0A / +2.5 \$	- 10 cm C	00E+00 3	SEE-01 -6	.98E-01 1	2 10-108	.71E-01 2	01E-01 2	2.01E-01 2	116-01 2										2.08F-01 2					.95E-01 2			2.04E-01 2.		1.95E-01 2.				2	2.32E-01 2.				_		T '	38E-01 4.		in Hg deg F			
SI SI	10 cm B	06E-03 0	016-01 -8	05E-03 1		106-03	41E-02 2	19E-01 2	43E-01 2	1.28E-01 2				-	-	-	3.48E-01 1.		4.09E-01 2		-	-		3.60E-U1 1.			2.81E-01 2.			3.11E-01 2.				416-01 2.				0.00E+00 2.5		~ ~	0.00E+00 2.3		30.19 Ir 63 di			
	Port # A	- c	3 6	41	ф 4		8	6		-	-		-		-						-							-	-				38 2.3		0.0		43 2.9			9 0	8	1	11 21			
Щ. М	-										• •					_	_							_		.,				_					_	4	-	•					Ра Та			

2.5 55	0-Cp		000000000000000000000000000000000000000							7 -0.327	·	•	0.395	•••	2 -0.369							Ċ		-0.410	•••	·	•		0.395			52 -0.390		•		24 -0.379	•	<u> </u>	8	5		reading	neads 1		
+4 AOA / +2.5 SS	A-Co B-Co		0.000 0.000		0.194 -0.277	0.226 -0.272		0.000 -0.283			·	•	-0.158 -0.283			·		0.525 -0.257	-0.552 -0.298		•	Ċ	0.504 -0.272	-0.433 -0.241 .0.462 -0.241				0.426 -0.288		•	·	-0.368 -0.262 -0.378 -0.262				0.357 -0.324		-0.308	-0.298	-0.303	-1.77 V	2) add 0.8 cm H2O to Schmidter pressure reading	delay delay		
	0.00		0000	<u> </u>		-0.384	_	_	-	-	_		824.0						0.449				-0.492					-0.530				-0.368		-	-	-0.351					Schmidter: 30 cm H2O = -1.77 V	m H2O to Schi	 4) 10 msec data read time delay 		
+4 AOA / + 5 88	B-Co	-0.072	0.000	-0.232	-0.331	-0.305	-0.284	-0.300	-0.289	-0.279	-0.294	-0.331	-0.300	00200-	-0.279	-0.269	-0.253	-0.258	0.320-	-0.300	-0.289	-0.294	-0.274	0.253	-0.248	-0.258	-0.325	-0.325	-0.305	-0.294	-0.274	-0.269	-0.279	-0.367	-0.341	0.341	100.0	-0.320	-0.310	-0.300	1) Schmidte	2) add 0.8 c	4) 10 msec		
-			0000		0.166	499	80	8.8-	•	•				èces All and	2015)	• 8.0	• 03.	0.534	ula:		18%	•	-0.492	N	262	•	203	-0.401	<u>a</u> sz		•	-0.358	22	973		0.331	23		23		Notes:				
+4 A0A / +2.5 8S	B Pg-pef C Pg-pel	20006	1.27 0.53 20.65 19.70	2	3	9.04 -0.0	4.65 -6.57		ः ्	4.45 -6.14		2	4.00 1.02 1.02	2	-4.34 -6.94		3.81 -6.99		4.87 -7.6			4.55 -8.47	4.34 -8.26 3.84 -7.04			Š	4.66 -9.00					4.13 -7.41 4.24 -8.15				5.40 -7.20		508 508	4.87	4.98 5.26					
AOA 4+	A Pg-ps(B P	0.85	0.42 1 19.38 20		1 1 1			8		-1.69			0/2-	ð	i.			1.01					-9.74				-7.94								-6.78				•			deg F deg F	deg F	dan F	Ban
S	C Po-pel /		18.96	-8.04	9,52 9,52	58'0-	-731	-6.78	-6.46	-6.35	6.67	-7,62	5 F	-7.52	-7.31	-7.20	67.7- 5	- C / C	-8.26	-8.15	-8.05	-9.21	-9,11 - 6.66	10.11.	-10.17	-9.32	-9.85	86 0	50.9	-9.42	.10.17	-0.0/	-9.00	-5.19	57	889 19 5						23	58	67	;
+4 AOA / + 5 SS	af BPg-paf		20.01		8, I								9 9 9 9				4.45				j	ġ	-4.87 -4.86		13						4.9		4.98		-6.25	-8.25 .A.M	52	-5.82	-5.61	-5.40 -5.73		- 19(1 - 19(1 -	Tinf =	Tin/=	
	A Pg-p		-02 0.11 5-01 18.74	-01 1.38	¥1	ୁର	ŝ	17 Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Constantino Con		24	Χ.	-2.75	14	2. An		22	-01 -8.47	<u>ि</u> ः	.15	00	-01 -9.53	83	-01 -0.84 -0.85	٥Ĉ			.84E-01 -7.73	2	50	8.4 1		4	Ŷê	-01 -6.78	-01 -6.46	.32E-01 -6.46 50E-01 -7.09	2	6	-02	88	Run Ordei	< 4	0	o	,
SDIU (V) +4 AOA / +2.5 SS	cm B - 10 cm C - 10 cm	86-02 2.446-02	5.486-01 -5.436-01		1.776-01 1.986			N	_	2	01 0	.92E-01 2.32E-01	80E-01 2.41E-01	1 (1)	~	ŝ	.59E-01 2.26E-01	N 0	1 (1)	_		80E-01 2.69E-01	.74E-01 2.62E-01 69E-01 2.62E-01	10		~	.83E-01 2.84E-01	4 0		_	.77E-01 2.87E-01		. 60	Ξ	- 1	2.04E-01 2.32E-01 2.01E-01 1.50E-01				1.92E-01 2.44E-02					
SDI 14 AOA	1-10 cm B-	2.44E-02 4.8	5.34E-01 - 6.4	-5.80E-02 1.1			•	-	-	-	- 1	7.93E-02 1.9			-	-	2.59E-01 1.5			Ξ	-		3.05E-01 1.7 3.02E-01 1.6		. –	Ξ	2.53E-01 1.8			÷.	2.29E-01 1.7		-	~		2.20E-01 2.0 2.32E-01 2.0		•	-	3.36E-02 1.9 3.36E-02 2.0					
SS	B - 10 cm C - 10 cm A - 10	1.536-02	0.00E+00 -6.31E-01	1.89E-01	1.95E-01	1.925-01	2.26E-01	2.11E-01	2.01E-01	1.98E-01	-	2.32E-01	2.4/5-01	2.32E-01	2.26E-01	2.23E-01	2.20E-01	2.385-01			_		2.78E-01	3.33E-01	3.08E-01	2.84E-01	2.99E-01	-	2.47E-01		3.08E-01	-	-		_	1.98E-01	3 DEE-02	1.83E-02		2.14E-02	•				
SDIU (V) +4 AOA / + 5 SS	cm B · 10 cm	00 2.14E-02	03 0.00E400 01 -6.56E-01	02 1.37E-01		00 1.22E-01	•	-	Ξ.	-			M 1 71E-01		-	-		01 1.53E-01	-	-	÷.	- 1	01 1.62E-01 01 1.56E-01	•	-	-	01 1.92E-01		-	-	01 1.62E-01		÷			01 2.01E-01			÷	00 1.77E-01 00 1.86E-01		deg F			
	A - 10 c		-3.09E-03	-3.97E-02	-9.77E-02	0-305-0	0.00E+00	0.00E+00	0 1.53E-02	0	01	1 7.93E-02		_	-			3.02E-01					2.78E-01		- 0	-	2.23E-01	~			2.08E-01		0 2.01E-01	-		2 1.86E-01		0.00E+00	3 6.10E-03	0.00E+00	1	۳ 8			
Test 530_1 Manifold	Port #	[N (7)	4				6	5	=		23	ž ž	÷ 9	÷	3	₩ 8	N 6	18	N	2	11	2 2	18	ន	8	66	18	5 8	8		58	8	9	4 ;	44	-	- 4	46		Pa=	Ta=			

-	0.55	1000	0000	0.940	-0.232	-0.242	-0.197	-0.263	-0.283	-0.278	-0.308	-0.288	-0.293	-0.288	-0.278	-0.293	-0.288	-0.293	00303	-0.303	-0.323	-0.333	-0.318	962'0-	-0.364	-0.328	-0.313	-0.303	-0.293	-0.318	-0.318	-0.308	-0.303	-0.328	0.258	0.308	0.222					57	
	H AUA/ -6.0 55	-050 -0230	0.000	1960	-0.274	-0.290	-0.235	-0.295	-0.323	-0.334	-0.334	-0.317	-0.285	-0.285	-0.279	-0.285	-0.268	-0.290	-0.279	-0.252	-0.263	-0.274	-0.274	-0.2/4	-0.279	-0.295	-0.274	-0.268	-0.274	-0.285	-0.290	-0.290	-0.306	0.334	0.323	-0.312	-0.328	-0.339	0.350	0.367	0.372	sure readin .1 cm spee	
		V	0.00	0.303	0.237	0.193	0.176	0.116	-0.066	-0.028	-0.083	-0.154	-0.193	-0.336	-0.369	-0.396	-0.418	-0.523	-0.561	-0.517	-0.506	-0.512	-0.512	-0.517	-0.429	-0.429	-0.429	-0.429	-0.440	-0.429	-0.380	-0.358	-0.374	-0.380	166.0-	-0.396	-0.418	-				i≂ -1.77 V imidter pres ; Run 2 - 10 ∋ delay	
g		40.078	0.000	0.459 -0.108	-0.235	-0.240	-0.171	-0.254	-0.269	-0.264	-0.279	-0.279	6/2/0-	-0.279	-0.279	-0.284	0.279	-0.2R4	0.289	-0.289	-0.308	-0.318	-0.303	0 35 0	-0.333	-0.323	-0.323	-0.308	0.289	-0.318	-0.328	-0.298	-0.313	-0.367	-0.230	-0.328	-0.245					 Schmidter: 30 cm H2O = -1.77 V add 0.8 cm H2O to Schmidter pressure reading 3 Run 1 - 10.1 cm speed; Run 2 - 10.1 cm speed 4) 10 msec data read time delay 	
AOA / .º E GO		-0.076	0000	-0.179	-0.207	-0.212	-0.141	-0.248	-0.248	-0.253	-0.253	-0.268	0.258	-0.273	-0.273	-0.268	-0.253	-0.278	-0.268	-0.248	-0.258	-0.268	-0.263	-0.258	-0.263	-0.268	-0.273	-0.268	6/2/0-	-0.278	-0.283	-0.278	-0.288	-0.293	-0.308	-0.298	-0.318	-0.318	0300-	-0.323	-0.323	1) Schmktter. 2) add 0.8 cm 3) Run 1 - 10 4) 10 msec d	
1	<u> </u>	- 283	0.000	0.242	0.284	0.252	0.210	0.042	0.00	0.005	-0.037	-0.116	0.189	-0.315	-0.357	-0.373	GRE'O-	-0.494	-0.515	-0.478	-0.468	-0.478	-0.483	-0.415	-0.410	-0.410	-0.405	-0.415	-0405 0420	-0.384	-0.347	-0.352	1362	-0.362	-0.357	-0.357	-0.378					Notes: 3 3	
A0A / - 60 SS	C Po-nef		0.21	-4.02	4.66	4.87	26.9	529	-5.72	-5.61	-6.25	-5.82	-5.72	-5.82	-5.61	89	8 9 8 9	-5.82	-6.14	-6.14	-6.57	-6.78	-6.46 -6.04	47.	-7.10	-6.67	-6.35	-6,14 6 74	2 G 2	-6.46	-6.46	-6.25	4(.)4	5.40	-5.19	-6.25	4 45			jų įk		2	
44 A0A /.			223	-2.97	-3.07	-3.39 -3.39	877 7	4.02	-4.02	-4.24	4.24	-3.92 -3.92	-3.18	-3.28	-3,18	-328	167-	-3.81	-3.18	-2.65	-2.86	-3.07	205- 205-	-2.86	-3,18	-3.49	-307	-2.97	-2.97	-3.28	-3.39	8.9 7 38	1.5	-3.81	-4.02	-3.81	5 T.	5 2 7 7	-4.66	4.87	-4.98		
	A Po-pel	-0.21	0.21	6.04	47	3.92	89	0.21	-1.06	-0.32	1,38 1-1	0/ 2.	-3.49	-6.25	9°9	1 6 .).	5 4 5 4	-10.27	-10.59	-9.74	-9°6	-9.64	57. 72. 9-	.00.6-	-8.05	-8.05	-8.05	5.8 8	-8.26	-8.05	•7,10	-6.67 - 6.67	5R-0-	-7,10	-7.31	-7,41 - 7,41	¥.,					9999999 9999999 777777	Ren
SS	C Pa-bel A	10000	0.21 20.84	4.02	-4.87	4,98 4	8 20	5.61	-5.81	5.61	-5.82	5 8 5 8 8	-5.72	-5.82	5.82	5 9 V	-5.82	-5.93	8 8	-8.0 4	6.46	19.9-	6.9 6 14	-7.41	-6.89	-6.78	6.78	8-9- 10-10-	59	-6.67	-6.88	-6.25 - 6.25	10.0	-5.19	4.7	89 Y	8 •					72 73 75 75 75	2
+4 AOA / -2.6 SS	A Po-pei B Po-pei	-1.27	0.32	3.28	4.02	4.13	424	4.87	4.87	4.88	4 8	8 8 ? 7	-5.08	-5.40	-5.40	R 8	879 7	-5.61	-5.29	4,87	288 2	87.9	2.9 7	-5.08	-\$ 5.19	-5.29	5.40 5.40	0 2 2 9 9	5.40	-5.51	5.61	5 6 7 4	21.0- 81.8-	-5.82	-6.14	5.83	8.6 1	824 923	-6.46	-6.46	-6.46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
_	A P 0- D	100.00	0.32	87. 1	2.13	8 B. L	2.97		3Ú	ŵ	Şa.	-2.87	<u>_</u>	-6.04	8 (9	222	20	86	-10,06	-9.32	-9- 		-9.32 -9.32	-8.05	180. 190.	22/	-7.84	50'0-	-8.15	-7.41	-9.67	28	-7.31	-6.99	-6.86	-6.88						Run Order ACCBA BCCCBA	:
-5.0 \$\$	- 10 cm B - 10 cm C - 10 cm A - 10 cm B - 10 cm C - 10 cm	5 4.27E-02	2 0:00E+00 0:00E+00 3:06E-02 1 -8:22E-01 -6:26E-01 -6:31E-01	1.59E-01	1.77E-01	1.83E-01	1.95E-01	-		2.04E-01					2.04E-01						2.32E-01						2.26E-01	• • •		2.29E-01	2.29E-01	2.23E-01	2.35E-01	1.98E-01	1.92E-01	2.23E-01							
SDIU (V) +4 AOA / -5.0 SS	n B - 10 cr	3 6.41E-03	0 0.00E+0 1 -6 26F-0	1 1.50E-01	1 1.535-01	0 1.62E-01	2 1.85E-01	-		2 1.86E-01			-	-	1.565-01			-	-		1.465-01			-	1.56E-01	1.65E-01			1.50E-01	1.59E-01	1.62E-01	1.71E-01	1.86E-01	1.74E-01	1.80E-01	1.74E-01	1.895-01	1.95E-01	1.98E-01	2.04E-01	2.086-01		
	m A - 10 cl	2 6.10E-0	2 0.00E+0	1 -1.68E-0	1 -1.315-0	-1.0/E-0	1 -6.41E-02			1 1.53E-02			-	-	2.04E-01	-			-			2 84E-01				2.38E-01	_	1 (1			2.11E-01		-	2.11E-01	2.17E-01	2.20E-01	2.0FL						
SS 3.	n C-10 cl	2 4.27E-0	2 3.66E-02 1 -6.49E-01	1 1.59E-0	1 1.836-0	1.435-01		_	_	2.01E-01					2.11E-U1						2.29E-01					2.38E-01					2.41E-01				1.80E-01	2.41E-01							
SDIU (V) +4 AOA / -2.6 SS	m B - 10 ci	2 3,065-0	2 2./5E-02 1 -6.40E-01	1 1.31E-0	1 1.53E-01		-	-	- 1	2 1.80E-01		-	-	1 1.92E-01			-	-	1.895-01				-	-	- 1	1.895-01		-	-		10-386-01	2.01E-01	2.14E-01	2.04E-01	2.14E-01	2.20E-01	2.20E-01	2.26E-01	2.23E-01	2.23E-01	2.20E-01	in Hg deg F	
	Ľ	3.365-0	5.22E-01 -	-1.16E-0	1.405-01	-1.22E-01	-5.19E-02	0.00E+00	2.44E-02	2.14E-02	9.16E-02	1.19E-01	1.34E-01	2.08E-01	2.415-01	2.50E-01	3.02E-01	3.11E-01	3.24E-01	3.025-01	3.02F-01	3.05E-01	3.02E-01	2.66E-01	2.62E-01	2.625-01	2.66E-01	2.59E-01	2.69E-01	2.47E-01	10-302.2	2.35E-01	2.44E-01	2.35E-01	2.32E-01	2.44E-01						30.12 63	
Test 530_2 Manifold	Port #	- (ч ю 	•				6 (₽;	= \$: £	4	5	≌;	= =	2	ຊ	2	8	3 3		8	27	8	ສ ສ	37	5 8	8	8	88	86	8	69	9 :	4 5	\$ \$	4	45	\$!	47	2	Taa aa	

| 19.66 0.940 0.940
-4.17 0.098 -0.204
6.14 0.118 -0.217
6.65 0.131 -0.317 | -6.04 0.057 -0.291 | -6.66 0.000 -0.317
-6.66 -0.067 -0.332 | -6.56 -0.128 -0.327
-6.35 -0.128 -0.327 | -6.77 -0.134 -0.337
-6.87 -0.211 -0.322 | -0.257 -0.301
-0.298 -0.307 | -0.396 -0.296 | -7:08 -0.457 -0.296 -0.380
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Schmidter: 30 cm H2O = -1.80 V
 add 0.8 cm H2O to Schmidter pressure reading
 Run 1 - 10.1 cm speed
 10 msec data read time delay

Test Man Port

Pa= Ta=

			Rased on tab Balltinnel Ta)	Approx length of fairing)	Tinnel temp)	Sutherland's Fon)	(Based on calibrated/corrected abar)				TAS		Standard density at 5040	Annox actual length of fairing	Standard Ta at 5kft)	Sutherland's Edu)													
	_	Heynoids lest	0.00238 shur/ft3 /B		7 den B	s-trace			3107225		Revnolds 5000 ft - 70 KTAS		0.002463 shin/ft3 (St		9 dea R	7 sluc/ft-s	ft/s	2	64027/20										
		Q-Dar	density	17.98 length		viscositv	velocity						density	length	temp	viscositv	velocity												
		-0.0R2	0.000	0.942	0.954	0.830	0.618	0.442	0.082	-0.336	-0.771	-0.571	-0.495	-0.436	-0.395	-0.324	-0.283	-0.277	-0.318	-0.330	-0.347	-0.324	-0.330	-0.324	-0.300	-0.312	-0.318	-0.294	-0.300
	A Drnet	-0.74	0.74	17,68	17.90	15.67	11.86	8.68	2.22	-5.29	-13.13	-9.53	-8.15	-7.10	-6.35	-5.08	-4.34	-4.24	-4.98	-5.19	-5.51	-5.08	-5.19	-5.08	-4.66	-4.87	-4.98	-4.55	-4.66
		2146-02	0.00E+00	-4.88E-01	-4.94E-01	-4.30E-01	-3.20E-01	-2.29E-01	-4.27E-02	1.74E-01	4.00E-01	2.96E-01	2.56E-01	2.26E-01	2.04E-01	1.68E-01	1.46E-01	1.43E-01	1.65E-01	1.71E-01	1.80E-01	1.68E-01	1.71E-01	1.68E-01	1.56E-01	1.62E-01	1.65E-01	1.53E-01	1.56E-01
	Eul Y	V AN	AN	NA	2.54	4.6	7	9.98	13.22	16.8	20.74	24.7	28.7	32.7	36.7	40.7	44.7	48.7	52.7	56.7	60.7	64.7	68.7	72.7	76.7	80.7	84.7	88.7	92.7
-	X-Position	NA	AN	NA	1.27	2.3	3.5	4.99	6.61	8.4	10.37	12.35	14.35	16.35	18.35	20.35	22.35	24.35	26.35	28.35	30.35	32.35	34.35	36.35	38.35	40.35	42.35	44.35	46.35
Test 723		-	0	ෆ	4	5	ø	7	æ	0	9	1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

-	ŀ	900		0.134	0.057	0000	-0.067	0.128	-0.128	0.134	-0.211	-0.257	-0.298	-0.398	-0.457	0.478	-0.509	-0.601	-0.817	-0.847	-0 560	-DEAE			2020						-	570	1910			300		2000	ATE C	-0.370	-0.385
14 40 4 / H 84		We o	1100	0.193	0.178	0.116	0.000	990'0-	0.028	-0.083	-0.154	-0.193	-0.193	-0.336	-0.369	-0.396	-0.418	-0.523	-0.645	-0.561	-0.617	-0 FM			1.10	017.0					1979	117.0	2010			124.5	0829	and a	1989	-0.396	-0.418
4 40 4 1.2 5 85		0.240	0.284	0.252	0.210	0.131	0.042	0,000	900.0	-0.037	-0.116	-0.163	-0.189	-0.315	-0.357	-0.373	-0.389	-0.478	-0.494	-0.515	-0.478	-0.466	0.47e	A 484	110	-0.41E		2110	A And	0.415	2010	0470	A TAL			0.465	-0 378	0.460	-0.357	-0.357	-0.378
***************************************	a t	0121	0.194	0.226	0.084	0.021	0000	-0.032	-0.105	-0.084	-0.116	-0.158	-0.284	-0.336	-0.368	-0.389	-0.426	-0.525	-0.541	-0.552	667.0	-0.494	0.610	Dish.	A des	0460	w v	204.00	0.416	9439	W PU	-0.426	1304	0 27a	-0.76B	-0.37a	996.0-	5124	-0.357	-0.367	-0.378
+4 AOA / 5 88 -	F	0.064	0.168	0.267	-0.006	-0.005	900.0-	-0.032	-0.166	-0.102	-0.144	-0.171	-0.305	-0.337	-0.347	-0.401	-0.433	-0.634	-0.561	-0.683	-0.608	-0.466		607 U	.0800	0.454	670	1010	0.306	0.401	-0.366	-0.422	9070	045 U	-0.15H	-0.356	-0.358	72.0-	-0.331	-0.331	-0.363
-1 ADA (45 85	Ē	-0.069	0.037	900.0	-0.078	-0.188	-0.261	-0.277	-0.282	-0.308	-0.350	0.402	-0.475	-0.638	-0.659	9090	-0.816	-0.684	-0.705	-0.721	-0.643	-0.616	0.627	0.637	-0 RFA	0549	0.620	0.538	90 C 30	-0.636	-0.659	-0.669	10.461	1.00	1.454	0.470	0.454	0.460	-0.454	-0.481	-0.564
4 AOA / +2.5 89	13	0,040	-0.026	-0.015	-0.044	-0.138	-0.227	-0.267	-0.242	-0.262	-0.336	-0.361	-0.420	-0.629	-0.529	-0.549	-0.598	-0.717	-0.662	-0.697	-0.668	-0.569	-0.673	-0.698	0.618	-0.499	-0.484	0460	-0.489	66) 0-	-0.460	-0.639	-0.450	007.0	040	-0.416	2.425 2.425	-0.415	0110	8 4 9	40.504
-4 AOA/-5 85 -	F	0.080	0.035	-0.020	0.005	-0.055	0.200	-0.276	0.160	-0.250	-0.335	-0.370	-0.376	-0.585	9090	-0.585	-0.665	-0.744	-0.726	-0.700	-0.620	-0.605	-0.695	-0.600	-0.500	-0,640	-0.480	-0.405	-0.466	-0.605	0.490	-0.485	0.585	20,466	-0.426	-0.460	-0:430	504.05	0430	-0.410	-0.435
-4 AOA / -2.5 89	₽	0.034	0.026	-0.025	-0.010	960.0-	-0.221	-0.300	-0.226	-0.310	-0.393	-0.438	-0.447	-0.575	-0.610	0.634	9/8/0-	-0.767	-0.742	-0.767	-0.650	-0.844	-0.639	-0.669	-0.664	-0.610	-0.500	-0.541	-0.656	-0.666	-0.670	-0.570	-0.580	-0.608	-0.492	-0.601	-0.477	-0.492	-0.487	-0.482	-0.501
0 AOA / +5 89	•	-0.025	0.054	0.084	-0.039	0.118	-0.148	-0.172	0.248	-0.218	0.271	-0.285	0.418	9448	24.0	119'0-	-0.522	-0.635	-0.654	-0.650	-0.566	99990	-0.671	-0.666	-0.595	-0.612	-0,487	-0.472	-0.467	-0.477	-0.462	-0.612	-0.443	-0.418	-0.423	-0.418	S¥??	-0.408	-0.418	-0423	-0.472
0 AOA / +2.5 35		0.028	0.079	0.116	0.042	-0.032	-0.092	-0.143	-0.171	-0.171	-0.231	-0.266	-0.338	50,435	0.435	0.4/6	-0.627	0.610	-0.638	-0.643	-0.656	-0.548	-0.646	-0.641	-0.669	-0.496	-0.453	9h9-0-	-0.458	-0.456	-0.456	-0.467	-0.416	-0.376	-0.379	-0.393	-0.396	-0.364	-0.396	-0.375	-0.412
0 AOA / -5 55	4	0.151	0.125	0.110	0.110	0.047	-0.083	-0.172	-0.031	-0.167	-0.261	-0.282	-0.282	-0.464		000.0	156.0-	A90'7-	-0.631	900.0-	-0.594	-0.574	-0.574	-0.679	-0.668	-0.496	-0.476	0.413	024.0-	-0.449	-0.454	-0.476	-0.498	-0.412	-0.402	-0.301	-0.306	0.396	-0,381	2 4 2	-0.4uz
0 AOA / -2.5 55		0.119	0.144	0.129	0.083	0.010	-0.088	1110	-0.062	-0.150	-0.227	-0.268	0.263			101 C	0400		B6970-	609:0-	-0.611	-0.628	-0.485	-0.500	-0.516	0.433	901/0	-0.408	-0.413	-0.418	-0.413	954.0	-0.416	-0.351	-0.346	-0.366	-0.356	-0.351	-0.346	-0.351	-0.300
-4 AOA / 0 85	8	0.010	0.015	0.015	0.015	9.9	-0.210	-0.262	-0.169	-0.246	0.33			0.020	0.676	010.0	0.00		2/9/0-	700.7	33.9	0.559	-0.670	-0.670	-0.590	-0.472	-0.482	0.457	-0.457	-0.452	297 O	-0.673	-0.452	-0.390	-0.395	00†00	-0.365	-0.390	-0.396	0410	-0.451
+4 AOA / 0 SS	4	0.155	0.240	0.230	0.105	0.060	0.035	0000	0:00	0.050	-0.085	021.0	02.0	202.0	175°0-	0.00	100.0		-0.462	500.0-	M207	-0.419	1110	-0.449	-0.439	-0.354	-0.340	-0.344	-0.354	-0.339	0.349	-0.354	-0.314	-0.285	-0.295	-0.300	-0.300	-0.295	-0.285	0.280	507
+2 AOA / 0 89	3	0.225	0.192	0.203	0.110	990'0	0.00	80.0	1/0.0-		101.0		412.0-	807.0-	870-	1950	2000	111	2407	-0-0-	8 6 7	\$ € ?	-0.445	-0,461	0434	-0.368	-0.348	-0.357	-0.352	-0.368	-0.346	-0.363	-0.324	-0.302	-0.291	-0.308	-0.302	-0.313	-0.308	0.287	046 0-
-2 AOA / 0 85	2	0.116	110.0	110.0	0.028	0.03	1110	22.5		11.0-	1240	1/2/0-		0.10	0110	10400				200	-102	-0.503	-0.492	-0.620	-01609	-0.448	-0.416	60 70-	-0.416	8.5.	0.416	877	-0.399	-0,360	-0.348	-0.365	-0.360	-0354	-0.360	0364	1010
0 AOA / 0 SS	-	0.149	0.161	0.172	0.075	0000	9/0.0				0.212	1000		2440	10401			- O DEA	-0.00	10.0	201	-0.539	0.667	0.674	-0.580	-0.488	-0.450	-0.446	9770	-0.470	9779	-0,478	-0418	-0.390	-0.364	E2E-0-	-0.380	0394	-0.384	0.379	~~~~~
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		-0.317	-0.327	0.29	-0.317	1000	126.0	120.0	1957	1050	20:307	-0.296	-0.296	-0.286	-0.291	-0.296	-0.307	-0.291	-0.286	-0.281	-0.307	0.286	187.0	0177	0/2/0		50.00	0.296	-0.312	-0.312	-0.296	-0.296	-0.298	100:0-	1957	-0.317	-0.512	1.257	100.0	10.01	0322	-0.322
	ê i	17.0	-0.290	-0.235	0.295		57F.0-			0.285	0.279	-0.285	-0.279	-0.285	-0.268	-0.290	-0.312	-0.279	-0.252		-0.274	-0.274	12.0	0100	4/2.0-	0.274	0.268	-0.274	-0.268	-0.285	-0.290	0.290	0.308		21212	200	210.0	0.100	0.00	2000	0.367	-0.372
	2000	102.0-	-0.212		-0.217		0.040	220	0.264	-0.258	-0.258	-0.273	-0.273	-0.268	-0.253	-0.268	-0.278	-0.268	-0.248	-0.258	892.0	22.7	-0.202		507/0-	0.273	-0.268	-0.273	-0.273	-0.278	-0.283	-0.278	0.200				0.210	0.010	10.00	-0.320	0.323	-0.323
-		1.2.0-	0.2/2	147.0	2000 C		212.0	0.281	0303	-0.283	-0.283	-0.283	-0.272	-0.262	-0.247	-0.257	-0.257	-0.296	-0.272	202.0-	-0.283	2/2/1-		100	120	0.286	-0.288	-0.277	-0.293	-0.288	-0.277	-0.262	197.1-	120	120.0	0.00	10.00				0.305	-0.318
0000		100.0	0000	102.0-	197.0-		0.270	0.204	-0.331	00:00	-0.289	-0.300	-0.279	-0.269	-0.253	-0.258	0.279	0.320	0.300	492.0-	10.0	12.0-	0.450		0.259	-0.326	-0.325	-0.300	-0.305	-0.294	-0.274	0.269	012.0	12.0	1970	1120		123	1990	016 4	-0.300	-0.316
			0000		2000	100	9966.0-	0.480	0.383	-0.337	-0.347	-0.347	0.32	-0.347	-0.337	-0.373		1999			126.0	1960	10.07	0.350	0.393	-0.327	-0.317	-0.327	-0.332	-0.337	-0.337	-0.347	2020	142	-	1000	2020	0.350	10347	0.356	0.393	-0.424
1111	12.0		1000		0.346	1361	0.356	0.405	0.341	0.311	0.292	0.302	0.297	0.311	0.292	9.326	00400					0.236	0.341	0.341	0.361	0.351	0.341	0.336	0.356	0.346	0.356	0000	305	0.361	0.261	0.366	0.366	0.376	0.376	0.371	0.391	0.405
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1-0.271	-0.281	-0.313	-0.271	-0.304	-0.313	-0.313	-0.313	-0.331	-0.322	-0.294	-0.290	-0.294	-0.271		102.01		-0.2RC	0.278	-0.278	0.280	-0.262	-0.267	-0.258	-0.271	-0.271	-0.290	-0.285	-0.285	567.0-			0.280	-0.294	-0.304	-0.308	-0.308	-0.313	-0.327	-0.313	-0.313	-0.317	-0.327
-0.364	-0.339	-0.314	0.280	-0.329	-0.329	-0.320	10 .0 .	-0.319	-0.314	-0.289	-0.279	0.294	0.284	100°0	1000	1000	-0.310	0.270	-0.264	-0.279	-0.274	-0.264	-0.264	-0.274	-0.284	-0.294	-0.279	-0.279				0.204	0.299	-0.324	-0.319	-0.304	-0.324	-0.329	-0.334	-0.299	-0.314	-0.334
916.0-	-0.306	-0.293	-0.267	-0.280	-0.288	-0.283	-0.288	-0.203	-0.277	-0.262	-0.267	-0.257	0.292	1020	0.050	0.287	-0.262	-0.262	-0.242	-0.257	-0.242	-0.232	-0.232	0.247	-0.237	-0.252	-0.257	162.0	102.0	02.0	636.0	-0.267	-0.262	-0.283	-0.262	-0.283	-0.296	-0.293	-0.288	-0.272	-0.288	-0.288
-0.352	-0.316	-0.347	-0.311	-0.342	-0.367	-0.367	-0.362	-0.393	-0.372	-0.342	-0.332	136.0-	10.0	0.321	CEE U	-0.352	-0.342	-0.321	-0.316	-0.321	-0.321	-0.316	-0.316	-0.316	-0.327	-0.332	-0.321	126.0-	120.0	1955	0.321	-0.327	-0.337	-0.347	-0.332	-0.332	-0.342	-0.342	-0.352	-0.332	-0.342	-0.362
-0.265	-0.280	-0.230	-0.240	-0.265	-0.250	-0.240	-0.240	-0.270	-0.250	0.240	0.219	1000	022.0	0.230	0.235	-0.209	-0.225	-0.235	-0.214	-0.235	-0.230	-0.209	-0.214	-0.189	0.199	-0.235	-0.235	01210	0.245	0.256	-0.219	-0.265	-0.240	-0.260	-0.260	-0.270	-0.270	-0.281	-0.270	-0.265	-0.260	-0.281
-0.258	-0.276	-0.280	-0.231	-0.291	-0.297	-0.313	-0.291	-0.302	-0.297	-0.275	86N.0-	0.10		0.231	0.231	-0.226	-0.231	-0.220	-0.226	-0.253	-0.225	-0.225	-0.225	-0.220	-0.225	-0.253	22.0	2020	1276	-0.258	-0.258	-0.269	-0.286	-0.291	-0.302	-0.297	-0.297	-0.313	-0.319	-0.297	-0.319	-0.50
-0.235	-0.252	-0.269	-0.241	-0.263	-0.263	-0.263	-0.263	-0.280	0.258	67.7P	1000	100.0	1000	-0.218	-0.230	-0.246	-0.230	-0.224	-0.213	-0.235	-0.235	-0.248	-0.258	-0.269	-0.280	9992.0	0.200	and of	262.0-	-0.291	-0.286	-0.297	-0.314	-0.302	-0.302	-0.291	-0.308	-0.325	-0.297	0.306	-0.302	07570-
-0.266	-0.377	-0.382	-0.371	-0.388	-0.368	198C.0-	0.400		0.382			255	0.350	-0.347	-0.353	-0.377	-0.353	-0.347	-0.347	-0.359	-0.335	-0.335	-0.335	-0.341	-0.353	-0.450	0.100	-0.365	-0.377	-0.359	-0.365	-0.365	-0.371	0.377	0.388	0.371	0.400	-0.418	0.400	-0.388	162.0	
4.5	4.5	4.5	4.6	4.6	4 .6	9			0.0			1	3	2.6	2.5	2.6	•	•	•	•	•	•	• •	• •	- ¹		2	55	-25	-2.5	-2.5	-2.5	-2.5	9.9	9 9 9	9 : •		÷.	9	-	4 4 7 7	
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-0.1221 -0.1687 -0.1953 -0.1755	-0.1058 -0.1795 -0.2532 -0.2553 -0.1652 -0.1642	-0.0890 -0.1186 -0.1736 -0.1736 -0.1697 -0.1162 -0.1162	-0.1246 -0.1594 -0.2078 -0.2078 -0.2373 -0.2373	-0.1318 -0.1565 -0.2422 -0.2537 -0.2537 -0.1582	-0.1483 -0.1616 -0.2647 -0.3144 -0.2699 -0.2699	-0.1068 -0.1285 -0.2220 -0.2220 -0.1359 -0.1359	-0.0754 -0.1375 -0.1386 -0.1886 -0.1376 -0.1376	-0.0680 -0.1210 -0.1408 -0.1188 -0.0680	
-0.1351 -0.1844 -0.2107 -0.1809 -0.1317	0.1148 0.1980 0.2689 0.2289 0.2772 0.2772 0.2772	-0.1330 -0.1688 -0.1688 -0.2673 -0.2600 -0.1413	-0.1870 -0.2416 -0.3382 -0.3382 -0.3327 -0.3327 -0.2299 -0.1870	-0.2043 -0.2554 -0.3948 -0.3948 -0.3948 -0.2468	-0.1901 -0.2377 -0.3392 -0.3392 -0.3327 -0.3327 -0.2416 -0.1852	0.1371 0.1586 0.2865 0.2865 0.714 0.1714	0.0761 0.1365 0.1865 0.1865 0.1841 0.1841 0.1366		
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8=a Lavel - 100 KTAS q = 33.90 Ib/NY2 P-atm = 2116.8 Ib/NY2

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APPENDIX C. MATLAB GRAPHICS PROGRAMS

This section contains the MATLAB programs that transformed the Microsoft Excel spreadsheet data into the color pressure contour charts. These programs were written by Professor Howard to maximize the visualization of the collected data. A summary of these MATLAB programs follows:

1.	'conplot' plots fairing, window & color pressure contours
2.	'dots'plots fairing, window & port positions
3.	'fairing_plot' data file for fairing plot
4.	'window' data file for window plot
5.	'data824' data file of C _P 's for 'conplot'

The data file (e.g. 'data824') changed periodically as data reduction matured. The '824' portion of the filename referred to the date 24 August 1999, the date of the latest reduced data. The MATLAB codes for the 'conplot' and 'dots' programs are presented in the following two pages.

MATLAB PROGRAM 'CONPLOT'

```
load data824.m -ASCII
a = data824;
x = a(:,1);
y = a(:,2);
for i = 1:18
z = a(:,i+2);
xlin = linspace(min(x),max(x),100);
ylin = linspace(min(y),max(y),100);
[X,Y] = meshgrid(xlin,ylin);
Z = griddata(x,y,z,X,Y,'cubic');
contour(X,Y,Z,15)
caxis([-0.6 0.1])
colorbar
%axis off
%
hold on
load fairing_plot.m -ASCII
b = fairing_plot;
x2 = b(:,1)/2;
y^2 = b(:,2)/2;
plot(x2,y2,'k')
xlabel('Model Dimension, inches')
ylabel('Model Dimension, inches')
title('Pressure Coefficients')
load window.m -ASCII
a3 = window;
x3 = a3(:,1);
y3 = a3(:,2);
x3 = x3/2;
y3 = y3/2;
plot(x3,y3,'k')
%axis ([-15 15 -30 25])
%axis equal
axis ([-30 30 -30 30])
hold off
%
%axis off
figure
end
```

MATLAB PROGRAM 'DOTS'

```
load data824.m -ASCII
a = data824;
x = a(:,1);
y = a(:,2);
plot(x,y,'.')
axis ([-30 30 -30 30])
axis equal
%
hold on
load fairing_plot.m -ASCII
b = fairing_plot;
x^2 = b(:,1)/2;
y2 = b(:,2)/2;
plot(x2,y2,'k')
xlabel('Model Dimension, inches')
ylabel('Model Dimension, inches')
title('Pressure Port Locations')
load window.m -ASCII
a3 = window;
x3 = a3(:,1);
y3 = a3(:,2);
x3 = x3/2;
y3 = y3/2;
plot(x3,y3,'k')
%%axis equal
hold off
```

• •

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