



# PATHS OF MOVEMENT FOR SELECTED BODY SEGMENTS DURING TYPICAL PILOT TASKS

DEPARTMENT OF INDUSTRIAL ENGINEERING TEXAS TECH UNIVERSITY LUBBOCK, TEXAS 79409 and AEROSPACE MEDICAL RESEARCH LABORATORY

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FOR THE COMMANDER

CHARLES BATES, JR.

Chief, Human Engineering Division Aerospace Medical Research Laboratory

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three different seat back rest angles (13°, 30° and 65°) were employed to represent the conventional and high acceleration seat configurations. To adequately describe the movements of all body segments, the following landmarks on the body were studied using photogrammetric techniques: Nasion, Cervicale, Suprasternale, Acromion, Shoulder joint center, Elbow joint center, Wrist center, Grip center and Greater Trochanter.

This study was performed as part of the COMBIMAN {COMputerized BIomechanical MAN} model program of Aerospace Medical Research Laboratory. COMBIMAN when completed will be a computer controlled 'manikin' representing a pilot under cockpit environment. This model as a 'Biomechanical Analog' of the pilot, requires as input, certain kinematic data pertaining to the movement of body segments within a cockpit doing typical pilot tasks. This effort was undertaken to provide this movement data for the primary aircraft controls from which kinematic information can be developed.

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#### PREFACE

This study was initiated by the Human Engineering
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performed by the Department of Industrial Engineering, Texas
Tech University, Lubbock, Texas, under contract #F33615-73C-4307. Dr. M. M. Ayoub was the principal investigator.
Dr. S. Deivanayagam and Mr. Kenneth W. Kennedy were research
associates.

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### INTRODUCTION

A large body of literature has been generated during the past few decades in the field of human-motion recording and analysis. However, in most of these studies body landmarks are limited to only a few while a body-member movement was executed under certain given conditions. Very few studies, if any, deal with real world activities involving the whole body or The highly controlled conditions under which its segments. movements are performed and studied undoubtedly produce deviations from what one would find during "real-world" conditions. It is true that these experimental conditions are imposed in order to make meaningful comparisons within the particular investigative effort as well as with other efforts. Nevertheless, these artificial conditions severely limit the general applicability of the results and knowledge derived thereof. For example kinesiologists have studied human motion with the aim of developing the best techniques for performance in sports. Psychologists have studied motion characteristics to learn about the effects of such factors as training and stress on human task performance. Such studies, no doubt, satisfy the primary needs of the investigators; however, they are of limited help to the designers of work stations.

An engineering designer's interest in human motion is not limited to the motion characteristics of a single point on the human body. He is interested in the dynamic histories of various segments of the body involved in executing the movements during the entire period of motion. For example, when an operator

reaches from one control to another, the movement of the hand is brought about by a complex combination of rotary movements at the wrist, elbow and shoulder, and motions of smaller, but significant amounts at other joint centers of the body. It is essential for the designer to have information about all body segments in order to comprehend the interactions and constraints involved within and without the work station. The research reported here is an attempt in providing such data for selected, typical movements required of the aircraft pilot.

## Scope

The ultimate objective of this research is to provide engineering anthropometric data for guiding the selection of cockpit control placements, specifically for the location, arrangement and optimum operation of controls under normal and stressful situations. The specific objective is to record, analyze, and describe the paths of movement of the hand, arm, shoulder, eye and other relevant landmarks of the body, while the operator reaches from one control point to another. The control points selected are typical of those located in aircraft cockpits and other manned aerospace work stations.

The data generated from this effort are expected to help in designing future cockpits and in evaluating the existing ones. An important purpose of this research is to provide kinematic data to the COMBIMAN program. COMBIMAN is a COMputerized Blomechanical MAN model of a human operator in a cockpit.

"COMBIMAN is being developed as an engineering tool to represent geometric, physical and ergonomic properties of man at his work station, and to assess interactions between man, equipment, and environment during task performance." (Kroemer, 1973, p. 75)

In order that the above objectives be achieved, the model has to provide good representation of a human operator at his work station taking into account the relevant anthropometry, biomechanics and ergonomics. In order to develop the "Biomechanical Analog" in this model, certain kinematic data are needed. Such data include paths of movement of the pilot's body segments while performing typical cockpit activities. Presently no such data for an aircraft pilot under cockpit environment is available that can be readily used in the COMBIMAN model. Hence, this study was undertaken to provide this kind of kinematic data needed to meet the COMBIMAN model requirements.

# Past Human Motion Investigations

The 15th century artist-scientist, Leonardo da Vinci, is generally credited with the first attempt to make a systematic study of human motion. That was well before Sir Isaac Newton (1642-1727) postulated his laws of motion and principles of mechanics. A number of investigators since the days of da Vinci have performed theoretical analysis of human movement and have contributed significantly to the present state of knowledge in this area.

Fisher in 1906 described a theoretical "n" link system of the living human body with freely movable joint systems. Each joint was described in a kinetic sense and the states of motion and equilibrium were analyzed based on principles of mechanics. Amar (1920) performed further analysis of bodily movements especially oriented to work stations. In addition to describing the structural mechanics and functional kinetics, he also discussed the effect of physiological fatigue on work performance. Other authors involved in analyses of human motion include Dempster (1955), Nubar and Contini (1961), Rashevsky (1962), Karras and Stapleton (1968), Vukobrotovic and Juricic (1969).

### Experimental Techniques in Human Motion Study

Experimental investigations of human movement employ a number of different techniques. Such techniques can generally be classified into the following three methodological groups, according to Ayoub (1972):

- 1. Photographic techniques
- 2. Electronic and/or electro-mechanical methods
- 3. Stereogrammetry

Figure 1 shows the classification of the techniques adopted in human motion analysis.

Photographic techniques generally involve taking pictures while the movement is being executed and afterwards analyzing the photographs for points of interest. There are three general methods that are available for photographic analysis of human motion:

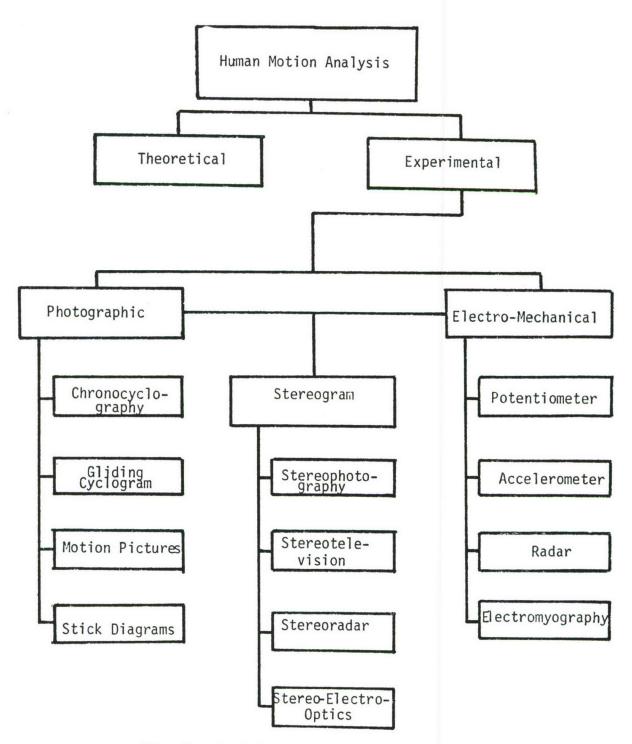


Fig. 1. Techniques of human motion analysis. From Ayoub (1972)

- (a) Cyclography, chronocyclography, and interrupted light photography (Marey, 1895, 1902; Gilbreth, 1917; Popova, et al., 1934; Polnauer, 1952)
- (b) Gliding cyclograms (Drillis, 1960)
- (c) Motion pictures (Eberhart and Inman, 1947; Taylor and Blaschke, 1951; Plagenhoef, 1966)

Motion analysis by electro-mechanical and electronic devices employ transducers to convert the displacements into electrical signals and record them in some form. The signals recorded have some definite relation to the characteristics of the movement performed. These techniques can be classified into three basic systems:

- (a) Potentiometric systems (Karpovich, et al., 1960; Raheja, 1966; Ramsey, 1968)
- (b) Radar-like systems (Goldman, 1955; Covert, 1965)
- (c) Accelerometer systems (Liberson, 1936; Ayoub, 1966)

Human motion analysis has been performed employing stereogrammetrical techniques which include three basic systems: stereophotography, stereotelevision, and stereoradar. All the three systems use the technique of observing the movements from different angles. Stereophotography has been employed by a number of researchers in the study of human motion (Zeller, 1953; Brewer, 1962; Nakumara and Tamura, 1966; Preston, 1967; Gutewort, 1968; Ayoub, 1969).

# Factors Affecting Paths of Movement of Human Body Segments

Movement of human body members is the result of a complex interrelated activity involving the nervous system, musculoskeletal system, and the metabolic processes. In addition to the internal, structural, and functional factors involved, there are a large number of other highly relevant factors, both internal and external to the human body which have an effect on the motion characteristics of any limb. Listed below are the more important factors that should be considered when the primary interest is to describe the geometry of paths of movement of body segments; i.e., when the hand travels between specific locations:

- (i) Degree of skill and training of the operator
- (ii) Encumbrances and obstacles affecting free motion
- (iii) Stresses under which the motion is performed
  - (iv) Limb orientations at start and end of movement
    - (v) Direction of motion
  - (vi) Eye-hand coordination necessary for the task
- (vii) Stochastic nature of human motion
- (viii) Mechanics of the external environment

Degree of skill and training of the operator. The skill and familiarity of the operator with the kind of movement being performed has a definite effect on the path of movement. An operator, skilled in the task, generally has a smoother pattern of movement and less variability in repeated trials compared to unskilled operators.

Encumbrances to free motion. The encumbrances and restraints placed on the operator in general and on the moving body segments in particular, affect the path of movement to a large extent. Even under otherwise very similar conditions, the movement pattern of a pilot fully encumbered in a flight suit would be very different from that when performing the same movement without encumbrances. Similarly, the path of movement may be significantly altered due to any obstacles encountered.

Stresses under which the movement is performed. The degree of stress under which the task is performed has a bearing on the resultant path the moving segments follow. The stress can be physical, psychological and/or environmental in its origin and nature.

Limb orientations at start and end of movement. Based on recent studies of motion recording and analysis at Texas Tech University, it is evident that limb configuration at the start and end points of a movement have a significant effect on the path of the hand. (Ayoub, 1966; Ayoub, et al., 1970; Petruno, 1973; Ayoub, et al., 1974). The distance through which the hand travels also affects the paths of movement. Generally, the shorter the distance traveled by the hand, the flatter is the path of motion taken by the hand (Ayoub, 1966). The configuration of the musculoskeletal system at the starting point of the movement influences the path of the segment involved This is due to the initial and final characteristics of the

lever system (the bones and joints) and the forces involved and their directions of application (the muscle tensions).

Direction of motion. Direction of motion has been shown to influence not only the path of motion of the hand, but also the path of motion of any point on the upper extremity. For example, a movement along the mid-sagittal plane performed in the horizontal plane of the work surface shows a different path of motion for the elbow than does the path of motion made in the horizontal plane of the work surface but at 45° on either side of the mid-sagittal plane. In addition, whether the movement is made away from the body or toward the body, as well as with gravity or against gravity, can significantly change the path of motion.

Eye-hand coordination necessary for the task. The degree of eye-hand coordination necessary to perform the task can affect the path of motion of the hand and the other body segments involved when reaching for a specific control. Further changes in this path of motion can be observed if, in addition to reaching to a specific control requiring eye-hand coordination, other tasks requiring the visual apparatus are performed simultaneously.

Stochastic nature of human motion. Although this is not a variable, it is included here, since the path of motion taken by a body segment may not always be identical under repeated trials while performing the same task under essentially identical conditions.

Mechanics of the external environment. The external environmental conditions such as acceleration, vibration, etc. have an effect on the movement characteristics of body segments. The intensity and duration of exposure to such conditions are critical factors to be considered in analyzing human body member movements under such environmental conditions. Johnson and Ayoub (1972) reported some effects of vibration on voluntary movement.

#### THE PHOTOGRAMMETRIC SYSTEM

The summary of the system adopted and the steps involved in the present investigation are outlined in the flow chart shown in Figure 2. The various steps are discussed in detail in the following sections.

An effective system to collect data on human movement for this investigation must be able to meet the following technical requirements:

- (i) To monitor a large number of body landmarks simultaneously
- (ii) To provide a permanent record of the movement so that the analysis can be performed at a later time
- (iii) To be technically simple, but versatile and easily adaptable to provide any workplace set up

The technique employed in this investigation is a combination of slow speed motion pictures and interrupted photography.

It consists of recording two orthogonal views of the task, side by side, on a single frame of the film. The graphic information

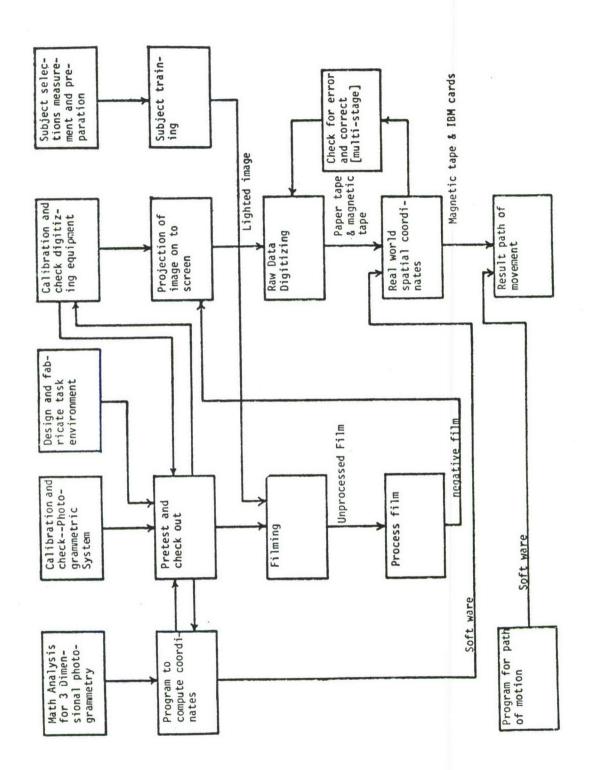


Fig. 2 Flow Chart - Paths of Movement Research Effort

available in a photographic picture is a scaled down version of the real world situation. However, there are two important differences that make it difficult to employ a simple photograph for an accurate three-dimensional measurement. A simple photograph, by nature, being two-dimensional, does not lend itself easily to three-dimensional information presentation. Also, the scaling factor between the real world and image is not a constant; but is a function of the lens to object distance.

The second deficiency, parallax, is explained schematically in Figure 3. Equidistant from the focal axis of the camera are two points A and B. However point A, at a distance  $\mathbf{d}_A$ , is farther away from the lens than point B, which is at a distance  $\mathbf{d}_B$  from the lens. Their corresponding images are a and b at distances  $\mathbf{X}_a$  and  $\mathbf{X}_b$  respectively from the center of the image plane. It can be seen that  $\mathbf{X}_b$  is greater than  $\mathbf{X}_a$  even though in real world both A and B are at equal distance X, from the focal axis. This apparent displacement at the focal plane is due to parallax, which in general causes reduction in image size of objects farther away from the lens.

It is possible to overcome the above problem by taking pictures of the same object as viewed at two different angles. The information available from the resulting two photographs can be pooled together to obtain three-dimensional coordinates of any point in the space covered by both pictures. The

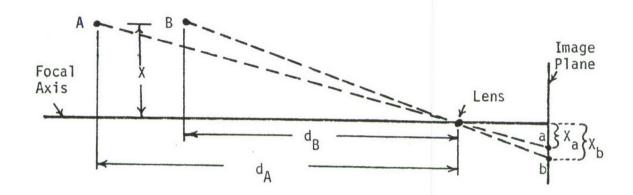


Fig. 3. Showing the Effect of Parallax

computational procedures are simplified when the viewing angles are at 90° to each other. The technique in this case is called Orthogonal Photogrammetry.

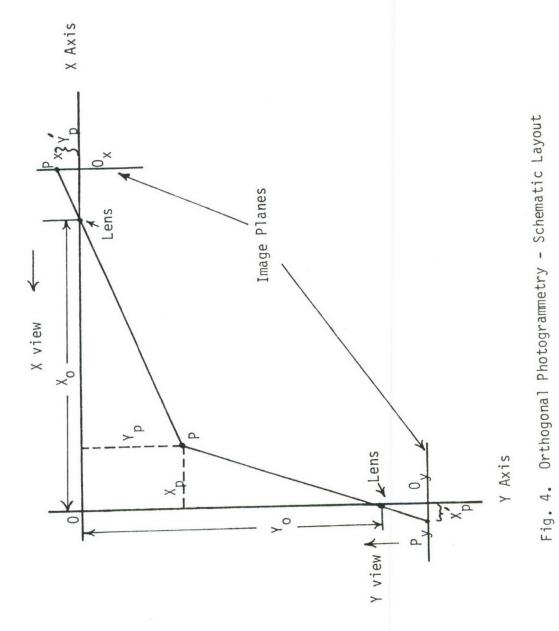
# Coordinate Relationships in Orthogonal Photogrammetry.

Consider a situation as presented in Figure 4. A point P is viewed (or photographed) along x and y axes as shown. The imaginary point of intersection of the focal axes (x and y) is 0 and is assumed to be the origin of the system. With respect to 0, point P has coordinates  $\mathbf{x}_p$  and  $\mathbf{y}_p$ . The lenses are at distances  $\mathbf{X}_0$  and  $\mathbf{Y}_0$  from 0 along x and y axes respectively. The images of 0 and P are  $\mathbf{0}_x$  and  $\mathbf{P}_x$  on one image plane and  $\mathbf{0}_y$  and  $\mathbf{P}_y$  on the other.  $\mathbf{P}_x$  is at a distance of  $\mathbf{y}_p^+$  from  $\mathbf{0}_x$  and  $\mathbf{P}_y$  is at a distance  $\mathbf{x}_p^+$  from  $\mathbf{0}_y$ . Also assume that the lenses have identical focal lengths, f. [This assumption is not a requirement for the analysis. It is made only to be consistent with the technique described later, where a single camera (lens) replaces the two cameras.] It can be shown from properties of similar triangles that,

$$\frac{x'_p}{x_p} = \frac{f}{y_0 - y_p} \quad \text{and} \quad \frac{y'_p}{y_p} = \frac{f}{x_0 - x_p}$$

solving the above two equations for  $x_p$  and  $y_p$ , we get:

$$x_{p} = \frac{x'_{p} (fy_{o} - x_{o}y'_{p})}{f^{2} - x'_{p}y'_{p}}$$



and

$$y_p = \frac{y_p' (fx_o - y_o x_p')}{f^2 - x_p' y_p'}$$

In the above, f,  $x_0$ ,  $y_0$  are system parameters and are constants for a given set of cameras and their locations.

# Photogrammetric Facility at the Aerospace Medical Research Laboratory (AMRL)

The photogrammetric facility at AMRL which was employed for this research is based on the principle of using two orthogonal views to compute three-dimensional coordinates of an object. However, it is unique in the sense that the two orthogonal views are not obtained using two cameras positioned with their optical axes perpendicular to each other. Instead only one camera is used and the orthogonal views were obtained on the same picture frame, side by side. This is made possible by using two pairs of front surface distortion-free mirrors suitably placed with respect to the camera and the task area. The system was designed by Mr. Kenneth W. Kennedy of AMRL, fabricated and erected under his supervision by the Aernonautical Systems Division personnel at Wright Patterson Air Force Base. Figure 5 presents a pictorial layout of this system. The entire system is housed in a room 23' -6" x 18' -3". The task area is centrally located at one end of the room and is an approximately 7' -6" square. On both sides and forward of this task area are two large mirrors, 7' -3" square in size.

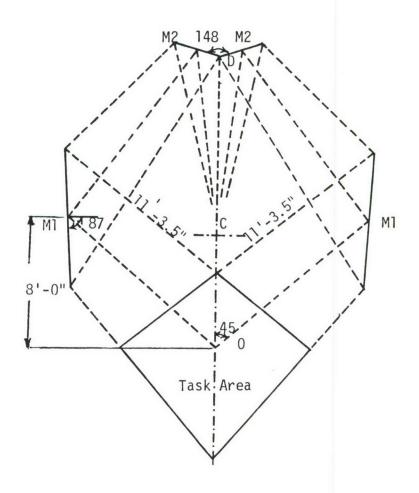


Fig. 5. Schematic Layout of Photogrammetric System
M1 - 7'3.5" sq. Mirror
M2 - 2' 6" sq. Mirror
C - Camera. 0 - Center of Task Area
CD - 9' 7.25" OC- 6' 7.25"

(Modified from the original drawing by K. W. Kennedy, AMRL, Wright-Patterson AFB, Dayton, OH)

These mirrors are vertically mounted on stable framework to avoid distortion and displacement. A pair of small mirrors, 2' -6" square each, is placed in front of the task area and beyond the large mirrors. The camera is placed between the front mirrors and the task area, facing the small mirrors. The mirrors are not parallel to each other but are converging toward the task area. The large mirrors converge toward the center line of the system at an angle of 3° each and the small mirrors intersect at an included angle of 148°. Also the mirrors are placed symmetrically about the optical axis of the camera lens.

# Equipment

Camera. The Hulcher 70, Model 102 camera was used in recording the movements. This camera uses 70 mm roll film available in lengths of 100 ft/roll. The camera can be operated either as a still camera or as a fast sequence (motion picture) camera at varying speeds of 5 to 20 frames per second. It provides negatives of 2 1/4" x 2 1/2" on 70 mm films. Thus it has the advantages of a large negative area and relatively fast film rates.

Strobe lights. The strobe light system known as "sequistrobe" consists of 4 lights coupled to 2 power units.

Both units were synchronized with the camera shutter. The duration of the strobe flash is approximately 7 1/2 microseconds.

<u>Digitizer unit</u>. A Viable Systems x-y digitizer unit was employed to extract coordinates from the film projections. It consists of a 70 mm projector, a rear projection screen with a mirror, x-y digitizer with a movable cursor and a paper tape punching unit. The system was assembled using commercially available components.

Cockpit chair. The experimental cockpit chair to support the subject was designed by Systems Research Laboratory, Dayton, Ohio and fabricated at the AMRL workshop. This chair had the following ranges of adjustability:

\*Seat height - from 2" to 10" height above the heel rest

\*Seat pan angle - from 6° to 25° to horizontal

\*Back rest angle - from 0° to 70° to vertical

\*Head rest angle - from 0° to 40° to plane of back rest

For purposes of this research, the imaginary point of intersection of the midlines of seat and back rest (the seat reference point, or SRP) is defined as the reference or origin point.

Foot rests were provided in front of the chair to simulate rudder controls at neutral position [36.25" in front of and 3.5" below SRP].

Task area. The simulated cockpit chair was placed in the task area shown in Figure 5. A rectangular hardwood platform was erected over the task area to provide a level surface. A semi-circular platform rotatable about the center of the

area provided the base on which the chair, foot rest and other control supports were mounted. This rotatable platform also provided a means to change the orientation of the subject with respect to the photogrammetric system. The camera as positioned in relation to the mirrors covered this entire area (approximately 53 square feet) to a height of 8 feet above the task platform.

Controls and control switch system. The primary controls were simulated using cylindrical handles mounted in such a way as to permit placement and orientation of each control in space according to aircraft design practices. In addition, an event switch system was designed and mounted on all of the controls. Figure 6 shows a typical control assembly system. The control point could be moved forward or backward and up or down easily and could be fixed at any position. Six such units were fabricated. Thus these units can be fixed at any desired location in space, within reach of the subject, above the platform and around the seat. These units represented the following six controls.

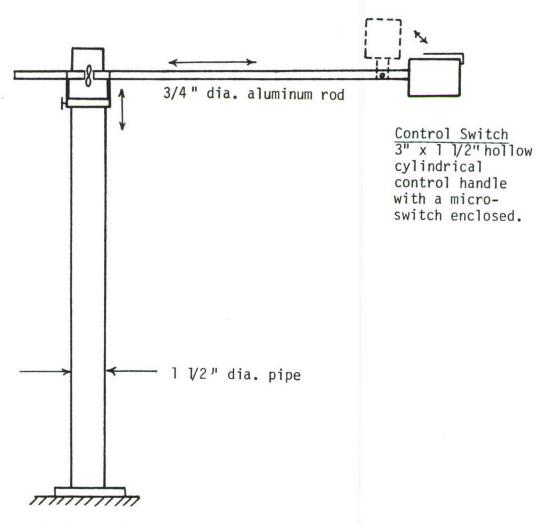
1. Stick

- 2. Throttle
- 3. Panel

4. Hatch

- 5. Side Arm
- 6. Overhead

<u>Chronometer</u>. A chronometer positioned in the task area was used to verify the camera speed and also provide information on movement time.



Fixed to platform

Fig. 6. A typical control assembly

#### TESTING AND CALIBRATION

# Testing the Projection System

The projection system made available at the anthropology unit laboratory of AMRL was tested for its accuracy. The procedure outlined below was adopted for this purpose. A 16"x16" grid pattern of 2" squares was drawn accurately on white paper. The grid was photographed and a glass slide suitable for use with the projector was made. During this process the 16"x16" dimension was reduced to 1 9/16" and the 2" small squares were reduced correspondingly. A suitable slide carrier for the projector was also made. This slide was then projected through the system. Digitizer readings of each intersection of the projected image were recorded. The intersection at the center was taken as origin or (0,0). (See Figure 7 for the digitizer readings.) The X coordinates are noted below and the Y coordinates are noted above the respective intersections. Ideally, the Y coordinates of all points lying on any single horizontal line should be the same and similarly the X coordinates along a vertical line. However, it can be observed that this is not the case. There seems to be some distortion of the image caused by the projection system. Figure 7 also shows the maximum difference observed along any particular line. These differences suggest a systematic error coupled with some random error. The random error could be due solely to "human error," while the systematic error could be due to some distortion in

+31	5	-23	-16		6		∞ +		1		7 -		4		α +		.ììiū.
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+1301	+1326	+1325	+0650	+1327	+0324	+1327	-0007 x	+1329	-0340	+1330	-0672	+1334	-1340	+1334	-1340	+1339	+1332
+1302	9660+	+0994	+0653	+0995	+0325	+0894	-0005	+0995	-0338	+0997	-0668	6660+	-1005	+1001	-1338	+1003	6660+
+1303	+0665	+0979	+0656	+0664	+0328	+0663	-0003	+0664	-0334	+0663	-0664	-0667	-1005	9990+	-1338	+0667	9990+
+1311	+0336	+0336	+0658	+0334	+0330	+0335	0	+0335	-0332	+0334	-0665	+0334	-1004	+0334	-1338	+0334	+0333
\\ +1311	+0007	+0000+	+0659	+0003	+0333	+0001	0	0	-0331	0	-0663	-0001	-1002	-0005	-1338	-0003	0
+1314	-0323	+0989	+0663	-0327	+0330	-0330	+0003	-0330	-0329	-0332	-0663	-0334	-0998	-0337	-1338	-0339	-0333
+1318	-0656	+0991	+0665	-0655	+0336	-0659	+0005	1990-	-0328	>990-	-0662	-0668	1-0997	-0672	-1337	9 2 9 0 -	9990-
+1321	-0984	+0994	6990+	-0988	+0336	-0992	+0000	-0995	-0327	6660-	-0661	-1003	-0997	-1007	-1338	-1013	6660-
+1325	-1317	+0997	+0671	-1323	+0338	-1328	+0008	-1331	-0327	-1337	-0662	-1342	-0997	-1345	-1337	-1354	-1332
>	· ×	<b>&gt;</b> ×	>-	×	>	×	>-	×	>	×	>-	×	>	×	>-	×	True Values

Digitizer readings of a square pattern, showing errors along X and Y axes during projection. Each square is 2"x2" and is equivalent to 333 x 333 units of digitizer counts. The largest maximum difference between individual readings and its true value occurring at upper right hand corner (Y coordinate reading) is 31 digitizer units. This is equivalent to about 2.23% Figure 7.

-10

-15

+22

Max. Diff.

the projection. It was also observed that this systematic error varied with orientation of the focusing lens of the projection. For example, the readings in Figure 7 were obtained with a projected image having the bottom-most line horizontal (note that the difference is only 3 units over its entire length) and the intersection at the center in best focus. It was found that if any one of the vertical lines were to be adjusted for true vertical, an entirely different set of readings was obtained. This suggests some distortion caused by the focusing lens. The maximum error caused by this distortion was 2.23% (appearing in X coordinate of the upper right hand corner, see Figure 7) which was felt to be acceptable for this application. To avoid increase in the errors of the projection system, it was decided that during the analysis of any particular sequence of film, the focusing would not be altered.

## Testing the Stereophotogrammetric System

Testing the camera. For purposes of testing the camera for any abnormal distortion, a large grid pattern was used. This was constructed of two plexiglass plates of 5'x5' and 1/4" thick each and glued together. A 2"x2" grid pattern made of 1/32" wide black vinyl tape was placed between the two plexiglass plates. The glass plates were supported by steel frames and a suitable base. This grid pattern was placed about 8' in front of the camera and a set of pictures was

taken. Extreme care was taken to place the grid pattern exactly perpendicular to the focal axis of the camera. An engineer's transit (theodolite) and plumbobs were used to achieve this. Negatives of the pictures taken were carefully examined visually and no distortion could be detected. However when projected through the system some distortion could be noticed. It was believed that this distortion was caused by the projection system and was not in the picture itself. Errors detected here were within the 3% maximum attributable to the projection system. At this point it was concluded that the performance of the camera was satisfactory and no further testing was necessary.

Testing the photogrammetric system. It was also necessary to test the entire photogrammetric system. The following procedure was adopted for this purpose. The semicircular rotatable platform was removed and the grid (mentioned earlier) was placed on the stage as shown in Figure 8. A 9" offset from the center of the stage was chosen because the supporting base for the semicircular platform was mounted at the center of the platform. Again a set of plumbobs was used to align the grid properly with the camera. A check for the placement of the grid was performed by placing a transit in the position of the camera and measuring the angles of eight selected points on the grid as viewed through the mirrors. Four of these points were displaced from the center of the grid at distances of 10"

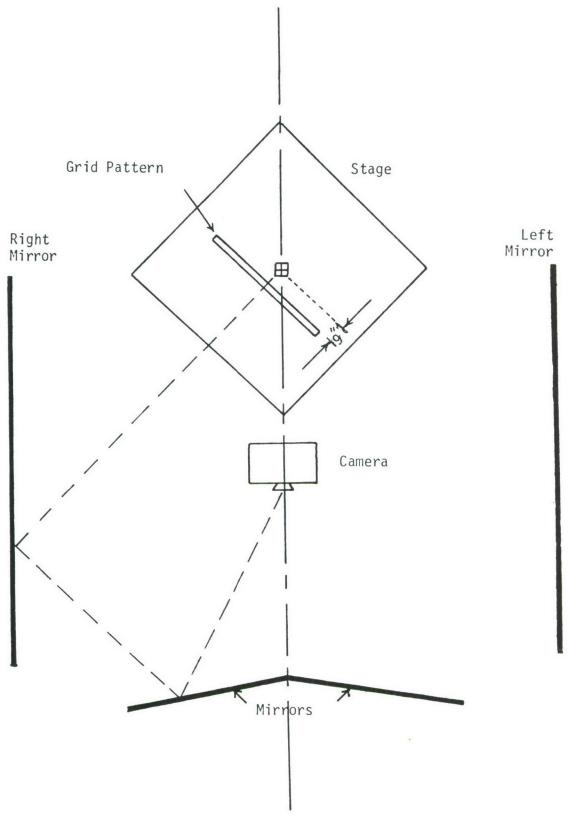


Fig. 8. Set up for Testing the Stereophotogrammetric System

horizontally and vertically and four others at distances of 20" horizontally and vertically. Based on the alignment angles read off the transit, the coordinates of these eight points were computed with the center of the grid as origin. The resulting average error of the system was found to be less than 1.5%, which was considered acceptable for this investigation.

The next step was to take pictures of the grid facing:

(i) right side mirror, and (ii) left side mirror. The processed pictures were then projected and digitized using the projection system already tested. In each view, 40 different measurements were made. The lengths varied from 14.14" to 56.56". The average error was found to be less than 0.5" or 2.5%. This level of error is considered acceptable. Again, it must be remembered that the projection system itself is 1iable to a maximum error of about 2.23%.

On the basis of the above testing procedures, the following relationships were obtained.

- (i) The projection system magnification factor is 6.8192. In other words, a length of 0.1466" on the film is magnified to 1" on the screen.
- (ii) A length of 10" on the stage is equivalent to about 245 units of the digitizer. This approximate ratio was not used for any computational purposes. Instead, exact computations based on the focal length of the camera lens were used to obtain a ratio between the real world

distances and the distances on film. The projector magnification factor mentioned in (i) above was used further to convert the film distances to digitizer units. (It is known that each digitizer unit is equal to 0.004" on the projector screen).

# Subject Placement and Choice of System Coordinates

In principle, orthogonal photogrammetry requires that in order to compute the spatial coordinates of any point its image should be visible in both orthogonal views. In this case it was found impossible to achieve this for all the bodily points that were of interest. In other words, the subject could never be so positioned with respect to the mirrors that all points can be seen in both views of the photograph simultaneously. This is due to interference of the subject's own body and other hardware such as chair and control assemblies with camera view. Hence it was decided that only those points on either the right or the left side of the subject's body be monitored at a time during a movement. Thus, for recording any movement on film the subject was first positioned and oriented such that at least one side of his body was seen entirely in both views of the photograph. After filming once, the platform was rotated 180° so that the other side of the subject's body was visible in both views. Then a second recording of the same movement was made. From these two sets of film a complete record of the movement showing all targets of interest was compiled.

No assurance can be given that the movements were identical in all respects when repeated. However, in the case of a well-trained subject, the deviations can be reasonably assumed to fall within a small range. Also when a number of subjects are considered, then the individual paths of movement would form an "envelope" representing the most likely path.

Figures 9a and 9b show schematically the orientations of the subject with respect to the camera. They also show the relationship between the coordinate axes for the mirror-camera system and the coordinate axes for the subject in both orientations. This relationship was used in the computational procedures to yield results compatible with COMBIMAN input. Markings were made on the fixed platform so that the rotatable platform could be positioned at the same two locations, even after repeated rotations.

As can be seen in Figure 9, positioning the subject as described above yields pictures viewed at an angle of 45° to the subject's mid-sagittal plane. This required certain computational procedures to be performed on the data in order to obtain results in a form compatible with other related research efforts.

Following is the subject's own coordinate system:

- origin -- seat reference point
- x axis -- forward positive, anterior-posterior axis
- y axis -- left positive, transverse axis
- z axis -- up positive, vertical axis

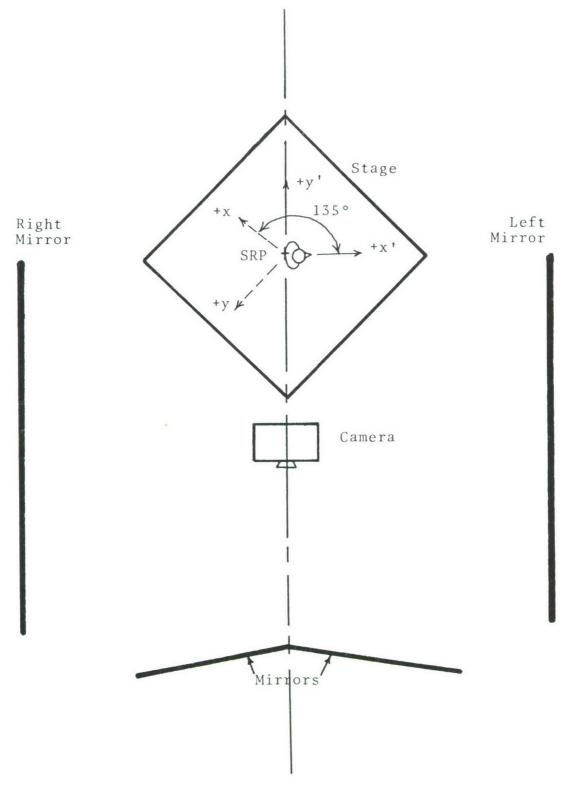
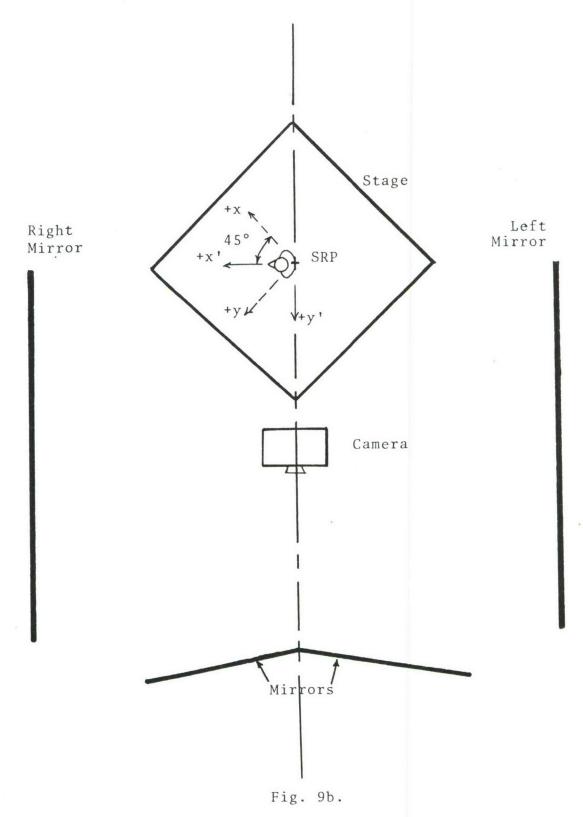


Fig. 9a.

The orientation when subject's right side is toward camera.



The orientation when subject's left side is toward camera.

 The coordinates for mirror-camera systems are:

- origin -- seat reference point (SRP)
- x axis -- view line through right hand side mirror,
  away from mirror is positive
- y axis -- view line through left hand side mirror, towards mirror is positive
- z axis -- vertical, up is positive

Figure 9 also shows that the two systems of coordinates have common origin and z axis. It is then possible to rotate the mirror-camera system axes about the origin by:

(i) 135° clockwise in the case where the subject's right hand side is toward the camera, or (ii) 45° counterclockwise in the case where the subject's left hand side is toward the camera and obtain the coordinates in terms of the subject's own system of axes.

Since the SRP is not visible in the pictures, a translation of the origin from SRP was also needed for practical reasons.

All measurements were taken with an external point as origin.

This point had coordinates (6.01, 6.01, 0) with respect to the mirror-camera system of axes. The measurements were then transformed with respect to SRP as the origin. Both the translatory and rotary transformations were carried out at the computational stage.

#### EXPERIMENTATION AND RECORDING OF MOVEMENTS

The initial step in planning for the experiment involved identifying the following:

- 1. Seat geometry
- 2. Controls to be included in the study
- 3. Movement sequence to be studied
- 4. Body surface landmarks of interest

### Seat Geometry

The subject was seated on the chair without restraints and with both feet resting on the rudder pedals at neutral positions, i.e., 3.5" below and 36.25" in front of SRP (reference). Seat pan was maintained at 6° to horizontal sloping backwards. This is the standard slope of the seat pan provided in most aircraft cockpits in use. However, for back rest, in addition to the standard 13° inclination, two more configurations were chosen. These were 30° and 65° which are typical back rest angles proposed for future conventional and high acceleration cockpits.

## Controls

In consultation with the research personnel involved with the COMBIMAN program, the following controls were selected to be considered in this study.

- 1. Stick control
- 2. Throttle control
- 3. Overhead control
- 4. Panel control
- 5. Side arm (right) control
- 6. Hatch release control

Each of the six controls had a different spatial position (with respect to SRP) at the three different back rest angles. These positions are listed in Table 1. Control positions for 13° back angle are standardized and available. In the cases of 30° and 65° back angles, new positions had to be determined. After some trial and error attempts, new positions were chosen on the basis of the following two criteria.

- (i) The controls shall be within the reach envelope of the entire population under consideration.
- (ii) Neither the control nor its supports shall interfere with the anticipated movements and shall, as far as possible, not interfere with camera viewing of the subject.

#### Movement Sequence

The basic movement for this investigation would originate with one of the upper extremities. For the purposes of this study, a movement is defined as being completed when a hand leaves its initial or starting position, reaches for a specific control (forward movement), and then returns to the starting position (return or reverse movement).

The following two different starting positions were considered in this investigation:

- (a) Right hand on stick and left hand on throttle
- (b) Right hand on side arm and left hand on throttle

TABLE 1

Controller Positions with Respect to

Seat Reference Point in Inches

			Back Rest Angle	
#	Controller	13°	30°	65°
1	Stick	12.4 above	15.0 above	
		20.0 forward	20.0 forward	Not
		in Centerline	In Centerline	Applicable
2	Throttle	12.4 above	12.4 above	5.0 above
		20.0 forward	18.0 forward	7.0 forward
		10.0 left	10.0 left	10.0 left
3	Overhead	47.3 above	45.0 above	35.0 above
		0.0 forward	0.0 forward	12.0 rear
_		10.0 left	10.0 left	10.0 left
4	Pane1	23.0 above	23.0 above	15.0 above
		24.7 forward	23.0 forward	10.0 forward
_		10.0 left	10.0 left	10.0 left
5	Side Arm	4.8 above	4.8 above	5.0 above
		15.0 forward	13.0 forward	7.0 forward
_		13.0 right	13.0 right	10.0 right
6	Hatch	23.0 above	23.0 above	15.0 above
		12.0 forward	11.0 forward	5.0 rear
		13.0 right	13.0 right	13.0 right

When one hand is in motion, the other hand remains at the starting position. One exception to this rule is when the right hand is in motion starting from the control stick. In this case the right hand does not start the movement until the left hand leaves the throttle and takes control of the stick. Also, the movement is completed only when the left hand returns to the throttle after the right hand has taken control of the stick. Thus with this starting position, it is assured that at least one hand is at the stick at all times. Also, starting position "A" is considered irrelevant, at 65° back angle, as the stick was well out of the reach envelope.

### Coding System for Movements

In order to identify the movements precisely, a numerical coding system was adopted. A typical code for any movement consists of a four digit number. The left most column would identify the orientation of the subject. The second or next right column would identify the starting position of the hands. The third column would identify the major hand involved in the movement. The fourth column identified the control to which the major hand travels. This coding system is explained in Table 2.

## Points of Interest on Human Body

In view of the expected use of the results on this investigation, the following body surface landmarks and/or joints were considered important.

TABLE 2
Movement Coding System

Column #	Code	Description
1	1	Views of Right hand side
	2	Views of Left hand side
2	1	Starting position: R.H. on stick and L.H. on Throttle
	2	Starting position: R.H. on side arm and L.H. on Throttle
3	1	Major movement involves R.H.
	2	Major movement involves L.H.
4	-	Number of control major hand moves to FIRST (From starting position)

 $\underline{\underline{\text{Note}}}$ : A movement is completed only when the hand returns to the starting position identified in Col. 2.

## Code Numbers Adopted for Controls

Control #	Control Name
1	Stick
2	Throttle
3	Overhead
4	Panel or Canopy Jettison
5	Side Arm
6	Hatch

- 1. Nasion. The skin surface point overlying the point on the mid-sagittal plane at the junction of nasal and frontal bones.
- 2. Cervicale. The skin surface point over the spinous process of the seventh cervical vertebra.
- 3. Shoulder Joint. In general, the area of attachment and articulation of upper arm with torso. The center of gleno humeral joint is taken as the center of shoulder joint.
- 4. Elbow Joint. The joint between upper and forearm. The center of this joint is taken to be the midpoint of a straight line connecting medial epicondyle and radiale.
- 5. Wrist Joint. The joint between forearm and hand. The center of the joint is taken to be the midpoint of medial lateral axis connecting the styloid processes of ulna and radius.
- 6. Grip Center. The center of hand grip, which is taken to be the surface (palmar) point lying over III meta-carpal joint.
- 7. Hip Joint. The area of attachment and articulation of thigh with pelvis. This joint will be represented by the most lateral palpable point on the femoral greater trochanter.
- 8. Knee Joint. The joint between thigh and lower leg.
  This joint will be represented by the top most point over the knee of a seated person.

In order to obtain the position of the above landmarks or joint centers during a typical movement, it was decided to monitor a set of skin surface points on the human body. These skin surface points were identified by attaching suitable targets. Table 3 lists the skin surface points with the corresponding type of target. All skin surface points, except for the knee points, were identified and targets attached while the subject was standing. Knee surface points were located after the subject was seated in order to identify the top most points on right and left knees.

#### Targets

In order to identify clearly the skin surface points listed in Table 3, two different types of targets were used. The surface target is a simple one, made up of adhesive cloth and vinyl material in black and white and directly attached to the skin.

However, this surface type target could not be used over all the skin landmarks, because during some of the movements, the target was hidden from the camera view. For this reason, it became necessary to employ extension targets at these landmarks.

An extension target consists of a white plastic tube 1/4" in diameter and 4 1/2" long. A black mark 1 1/2" from one end is made on the tube surface. A piece of foam with double side coated adhesive tape is used to affix the target to the subject. When the target is placed on the body landmark, the free end projects out of the body. With reference to Figure 10, the distance A to B is 1 1/2" and B to C is 3". When a photograph is made A and B will always be visible since they extend well beyond the body surface. If A and B are seen, then

TABLE 3
List of Skin Surface Landmarks
and the type of Target Used

Point #	Description	Target Type
1.	Nasion	Short* 1:1
2.	Cervicale	Surface
3.	Suprasternale	Short 1:1
4.	Rt. Acromion	Long** 1:2
5.	Lt. Acromion	Long 1:2
6.	Rt. Elbow, Lateral	Short 1:1
7.	Lt. Elbow, Lateral	Short 1:1
8.	Rt. Elbow, Medial	Surface
9.	Lt. Elbow, Medial	Surface
10.	Rt. Wrist, Dorsal	Surface
11.	Lt. Wrist, Dorsal	Surface
12.	Rt. Wrist, Ventral	Surface
13.	Lt. Wrist, Ventral	Surface
14.	Rt. Grip Center, Dorsal	Surface
15.	Lt. Grip Center, Dorsal	Surface
16.	Rt. Grip Center, Palmar	Surface
17.	Lt. Grip Center, Palmar	Surface
18.	Rt. Trochanter	Long 1:2
19.	Lt. Trochanter	Long 1:2
20.	Rt. Knee	Short 1:1
21.	Lt. Knee	Short 1:1

\*Short 1:1 refers to 2" long target.
\*\*Long 1:2 refers to 4 1/2" long target.

# Double side coated adhesive tape

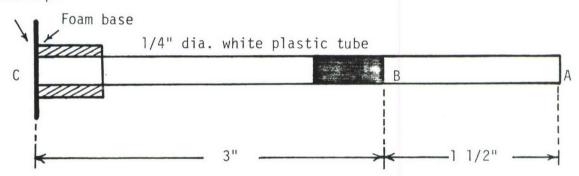


Figure 10. Extension Target (Long 1:2)

C will be along the same vector AB at a distance of 3" from B. This target is identified as a long (1:2 ratio) target. Figure 10 shows a long target and the corresponding dimensions. Table 3 presents the information regarding the locations on the body and the types of targets used. The necessary computational procedures required to determine the surface point location from the information available from extension targets, were incorporated in the computer program.

#### Subjects

Twenty young, healthy, male volunteer subjects were employed as subjects for this investigation. All were naive subjects and had no aircraft piloting experience. However, the subjects were given enough practice time to acquaint themselves with the location of controls and the movements to be executed. If during the recording of any movement, some fumbling by the subject was noticed by the experimenter, then this particular movement was repeated and re-recorded on film.

All the subjects performed the movements without any of the restraints or encumbrances of normal flight suits. They were nude except for a small brief. Subjects were selected to represent the US Air Force pilot population in height and weight. These and other selected anthropometric dimensions of the subject were measured. The subject anthropometric information is shown in Table 4.

## Experimental Procedure

A set of test pictures was made to determine the exact

TABLE 4
ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

				S	Subject Number	umber		
		_	2	3	4	2	9	7
# • O • I		03	04	0.5	90	07	0.8	60
Age	years	19	26	23	21	21	20	20
Stature	inches	67.01	69.21	69.33	71.81	71.73	68.54	67.84
Weight	lbs.	130.07	154.21	172.14	184.47	190.53	121.59	134.80
Sitting height	inches	32.24	33.74	34.96	35.95	35.79	36.50	36.34
Sitting knee height	inches	20.95	21.45	21.93	22.28	22.17	20.47	20.83
Sitting acromial ht.	inches	20.55	22.01	22.48	23.31	24.09	23.90	24.53
Shoulder-elbow length	inches	14.45	15.28	14.88	15.00	14.88	13.78	13.47
Buttock-knee length	inches	22.91	24.06	23.43	24.96	24.29	21.73	21.18
Acromion-radiale length	inches	13.66	14.09	13.50	13.94	14.21	13.35	12.60
Radiale-stylion length	inches	96.6	10.28	9.84	10.67	10.35	9.76	10.08
Forearm grip length	inches	14.33	14.29	13.70	14.69	14.17	13.82	14.09
Bi-acromion breadth	inches	15.83	15.28	16.69	15.51	16.06	15.24	13.82

# refers to the identification number used during filming. Note:

TABLE 4 (Continued)
ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

		α	σ	Su	Subject Number		6	۲
		$\infty$	2	0 -	_	7	13	7 -
		10	11	12	13	14	15	16
	years	21	21	21	21	21	18	19
	inches	71.50	75.63	66,61	64.53	74.61	72.44	69.69
	lbs.	192.18	223.46	176.87	132.49	199.78	160.24	165.53
	inches	35.39	36.50	34.17	33.78	36.58	35.47	35.00
	inches	22.56	24.37	20.32	18.86	23.54	22.91	21.89
	inches	22.84	24.09	22.09	23.62	23.86	21.61	22.32
	inches	15.20	15.20	13.07	13.07	15.91	15.35	14.29
	inches	24.57	26.97	23,37	21,46	26.61	25.71	24.37
Acromion-radiale length	inches	14.17	14.45	12.17	11.97	14.45	13.94	13.19
Radiale-stylion length	inches	10.63	11.34	9.92	9.29	11.18	10.91	96°6
	inches	14.84.	15.43	13.94	12.95	16.02	14.80	14.61
	inches	16.30	17.01	15.63	13.62	15.16	15.35	16.14

I.D. # refers to the identification number used during filming. NOTE:

TABLE 4 (Continued)
ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

34.80 22,48 14.76 25.12 11.38 20 02 22 70.55 169.93 22.56 13.78 15.71 16.18 5.00 34.76 20.95 22.36 13.98 22.28 13.23 9.88 13.82 67.91 22 132.49 19 0 1 Subject Number 15.75 18 20 37.60 25.35 26.22 11.42 5.67 6.34 14.21 20 288.55 23.54 74.21 10.55 36.26 15.00 13.86 16.22 21.73 14.17 17 71.54 23.27 24.61 19 20 169.27 36,85 11.10 5.55 23.62 23.35 15.55 25.00 14.13 9 | 17.24 8 22 73.98 193.50 .13,86 16.65 21.26 23.94 12.80 69.6 34.21 15 164.98 20.95 14.21 21 68.82 inches years lbs. Acromion-radiale length Radiale-stylion length Shoulder-elbow length # acromial ht. knee height Bi-acromion breadth Buttock-knee length Forearm grip length I.D. height Sitting Sitting Sitting Stature Weight Age

to the identification number used during filming. I.D.# refers NOTE:

camera setting for optimum negative quality. Based on this, the following settings were used throughout this study: f/8.0, 1/30 sec. and 10 frames/sec. The following procedure was followed in recording the movements on film.

The above settings were checked before any series of pictures were taken. Focusing and alignment of the camera were also checked prior to any series. A large dial chronometer (1 division=1/100 sec.) and a wooden frame carrying plastic numbers of the movement code and the subject number were placed within the task area so that they were visible in the photograph.

When the subject arrived at the laboratory, he was advised about the procedure to be followed, the aim of the experiment, and his duties in detail. Then he filled out a questionnaire of personal information. After this, the subject was told to remove all his clothing except a small brief. All the relevant skin surface points (such as acromion, radiale, etc.) were identified by palpitating and an X mark was made using a marking pen on each of these locations.

Next, all the necessary anthropometric dimensions were measured using an anthropometer and calipers. These measurements were immediately recorded. The targets were then attached on the surface of his body at proper locations.

The rotatable platform was properly positioned and the chair was adjusted to proper back angle. Then the subject was seated centrally on the chair with his buttocks all the way

back to the backrest. He was also told to plant his feet firmly on the foot rest with the in-steps of his shoes on rudder controls. He was told to sit straight at all times and not to slump forward or sideways, except when necessary to accomplish a movement.

Next the controllers were adjusted to the proper positions. The subject was then permitted to practice some movements and acquaint himself with the orientation and position of each of the controls. He was also told to perform these movements at his "natural" speed. As mentioned earlier, enough practice time was allowed for the subject to attain familiarity with the task.

Meanwhile, the camera and strobe system were made ready for filming. Recording the movement on film was accomplished automatically whenever the subject moved his hand away from the starting position. This was achieved by means of proper electrical circuits connecting controller switches and the camera. Illumination in the room was kept at a low level so that the negatives would not show any "blurs" due to residual lighting. Each subject performed a total of 60 movements. During filming, the subject had a number of rest breaks while seated on the chair. These were the periods required to make the necessary adjustments for each back angle and to reload the camera. On the average, it was found that a subject spent about 3 hours in the laboratory to complete the entire sequence of movement recording.

The sequence of movement for a given back angle and subject orientation was determined randomly. For a subject, the sequence of back angles was also determined randomly. Figures 11A through 11X show, at intervals of one-tenth of a second, the sequence of motion as recorded for a typical movement involving both right and left hands. Figures 11A to 11M show the forward phase and 11N to 11X show the return phase of the movement.

## Data Extraction and Computations

Exposed film rolls containing records of subject movement were processed at the Technical Photo Service at Wright-Patterson Air Force Base. Negatives were directly used in the projection and digitizing system described earlier (Section 3.3) to obtain the x, y, z coordinates of selected landmarks. A number of paid student volunteers were employed to carryout this phase of the study. In order to decrease the individual variations in data extraction practices, each student was trained for at least one week using a standardized procedure. At this stage of the investigation, two additional body landmarks or points were added to the list of the 21 landmarks mentioned in Table 3. For simplicity, they were called shoulder centers, but in reality being the locations of right and left gleno-humeral joint centers, as estimated to the best ability of the digitizer operator. A number of sketches of human

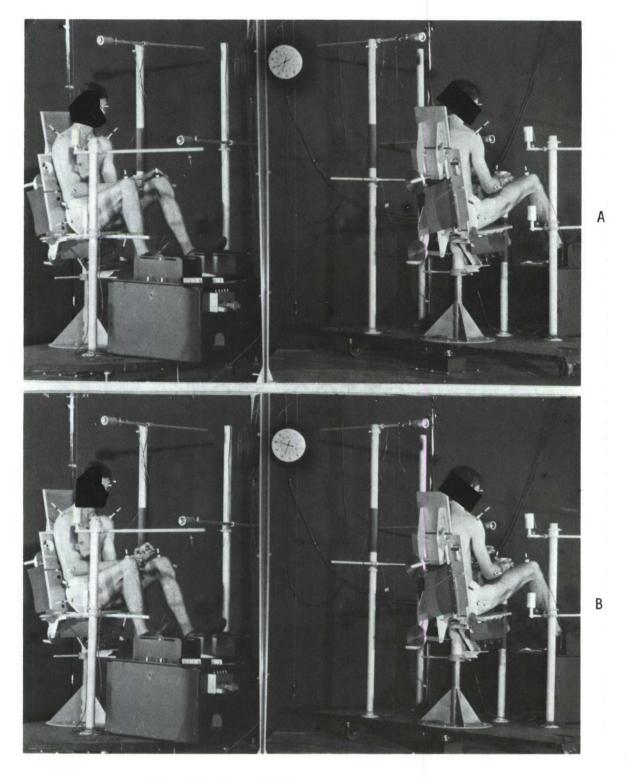
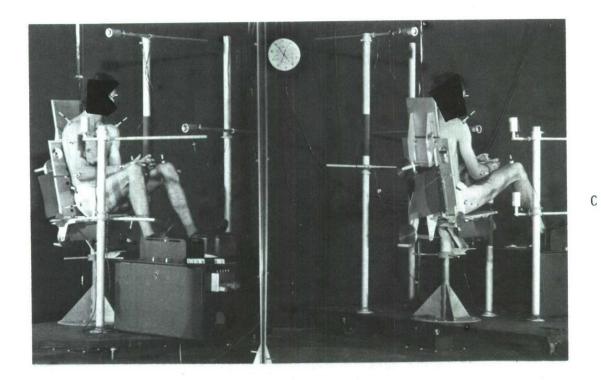
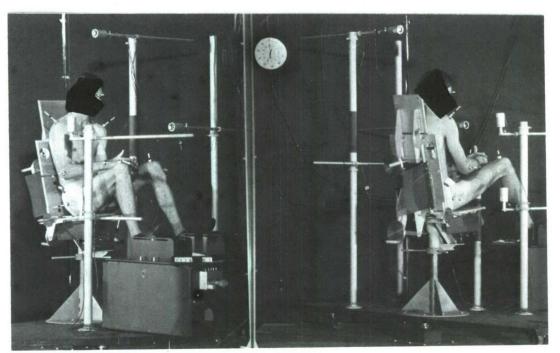


Fig. 11 A typical movement sequence

A - Forward Phase, 0.1 sec. after start

B - Forward Phase, 0.2 sec. after start



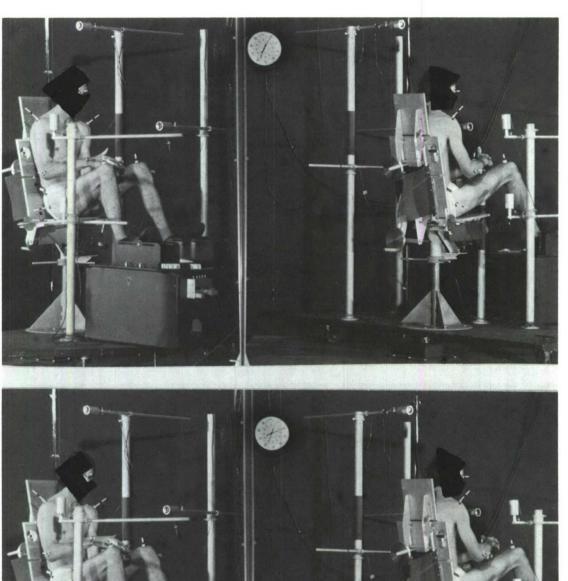


D

Fig. 11 (continued) A typical movement sequence

C - Forward Phase, 0.3 sec. after start

D - Forward Phase, 0.4 sec. after start



E

Fig. 11 (continued) A typical movement sequence

E - Forward Phase, 0.5 sec. after start

F - Forward Phase, 0.6 sec. after start

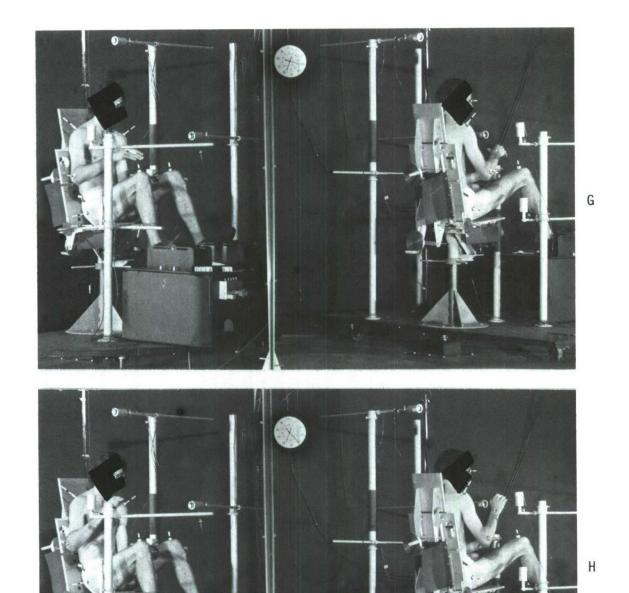
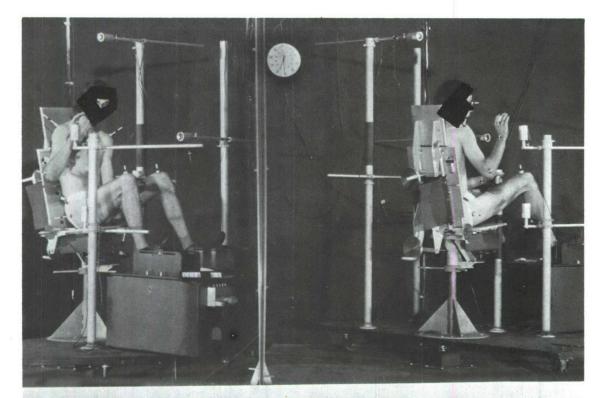


Fig. 11 (continued) A typical movement sequence

G - Forward Phase, 0.7 sec. after start

H - Forward Phase, - 0.8 sec. after start



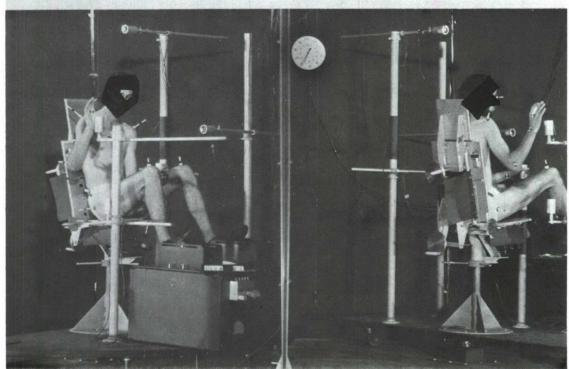


Fig. 11 (continued) A typical movement sequence

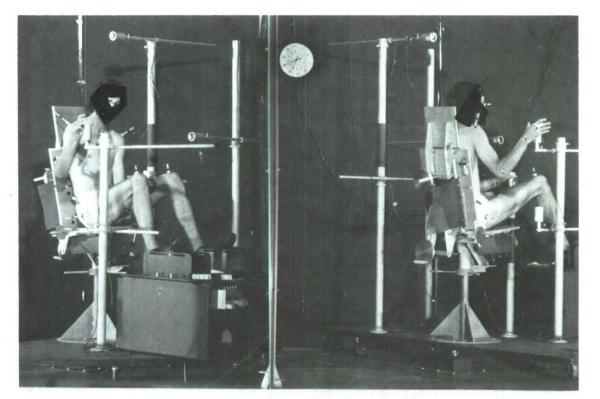
I - Forward Phase, 0.9 sec. after start

J - Forward Phase, 1.0 sec. after start

63

I

J



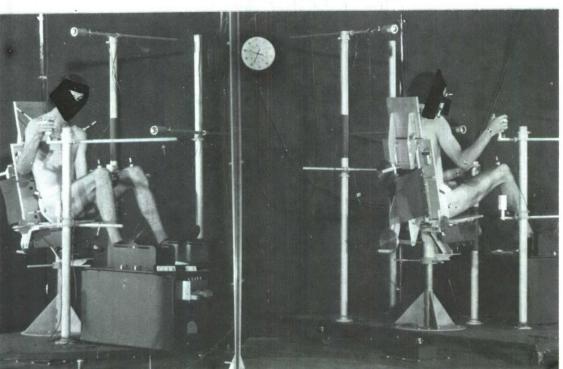


Fig. 11 (continued) A typical movement sequence

K - Forward Phase, 1.1 sec. after start

L - Forward Phase, 1.2 sec. after start

64

K

L

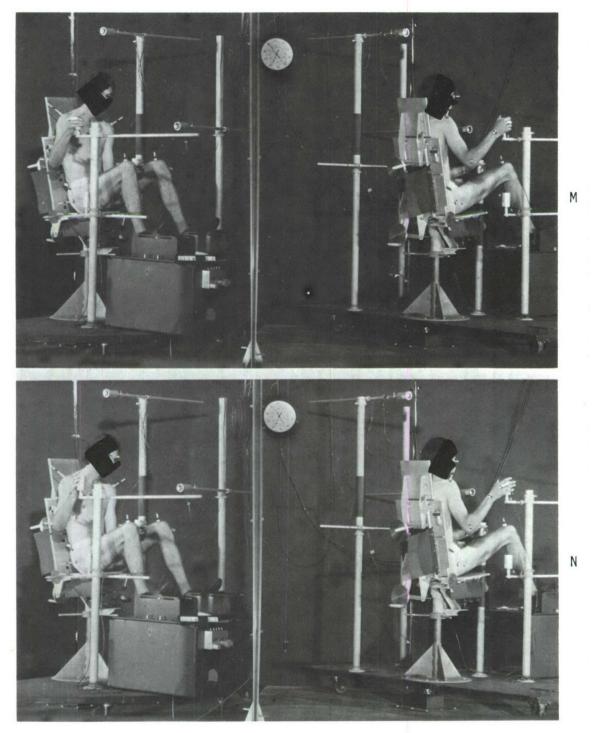
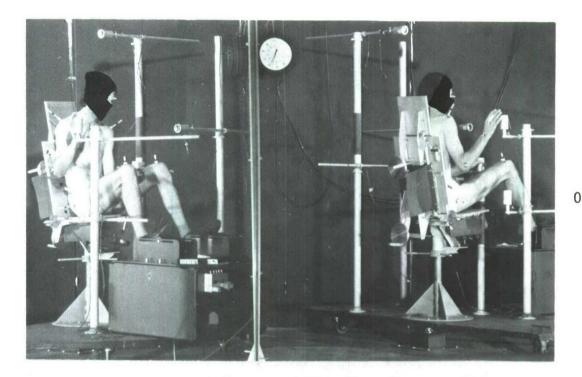


Fig. 11 (continued) A typical movement sequence

M - Forward Phase, 1.3 sec. after start

N - Return Phase, 0.1 sec. after start of return movement



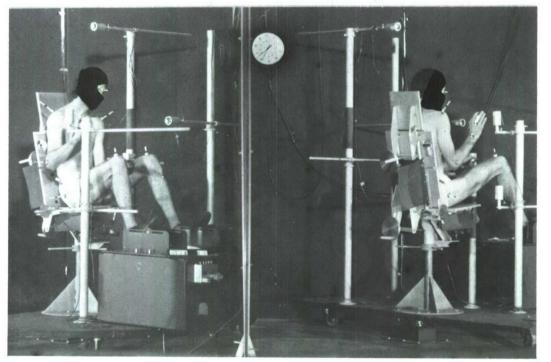
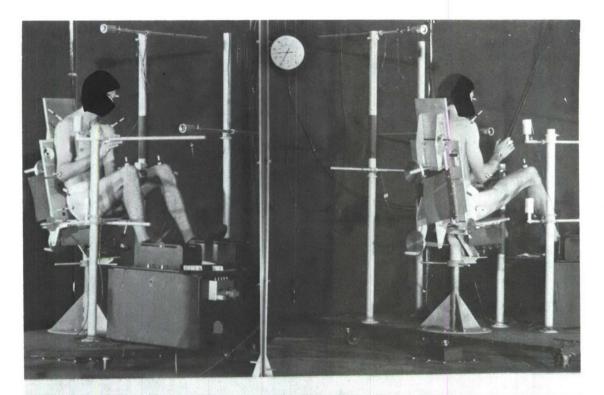


Fig. 11 (continued) A typical movement sequence

0 - Return Phase, 0.2 sec. after start

P - Return Phase, 0.3 sec. after start



Q

R

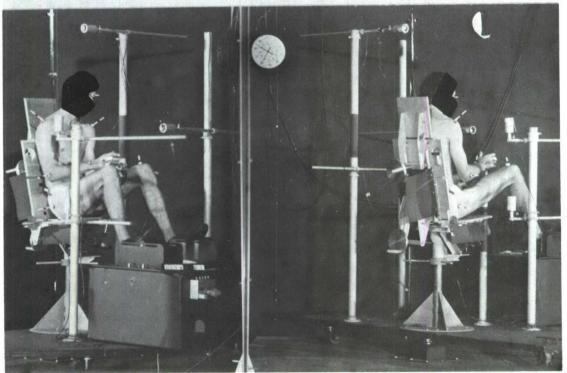
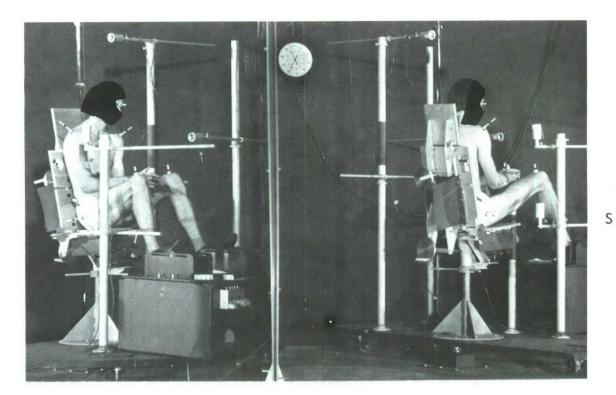


Fig. 11 (continued) A typical movement sequence

Q - Return Phase, 0.4 sec. after start

R - Return Phase, 0.5 sec. after start



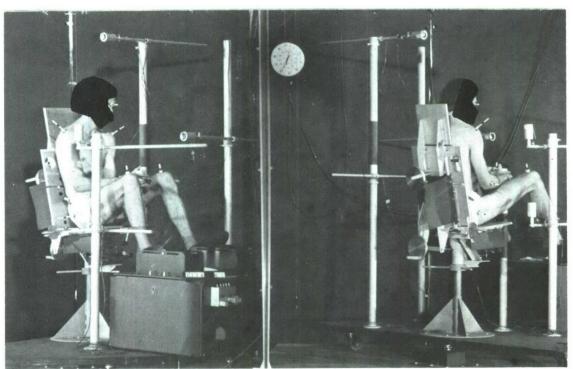
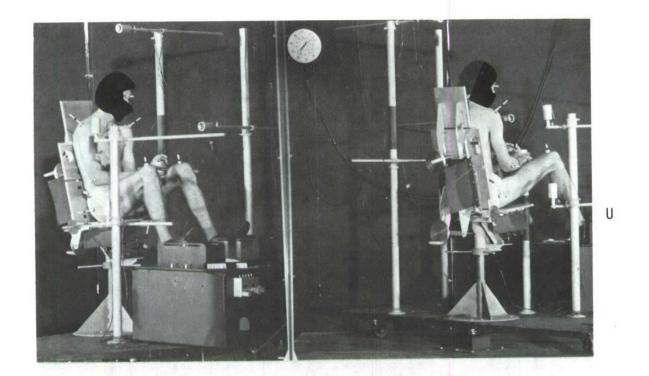


Fig. 11 (continued) A typical movement sequence

S - Return Phase, 0.6 sec. after start

T - Return Phase, 0.7 sec. after start



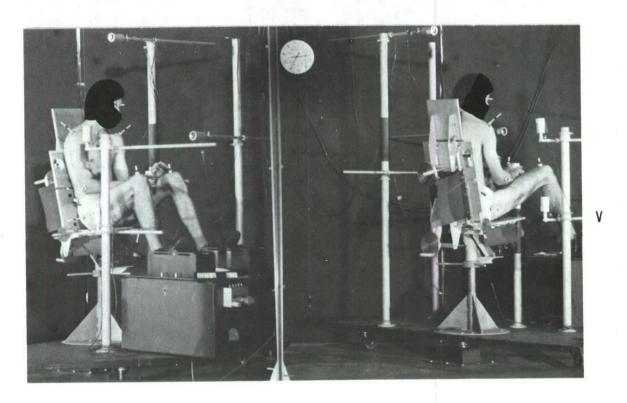


Fig. 11 (continued) A typical movement sequence

U - Return Phase, 0.8 sec. after start

V - Return Phase, 0.9 sec. after start

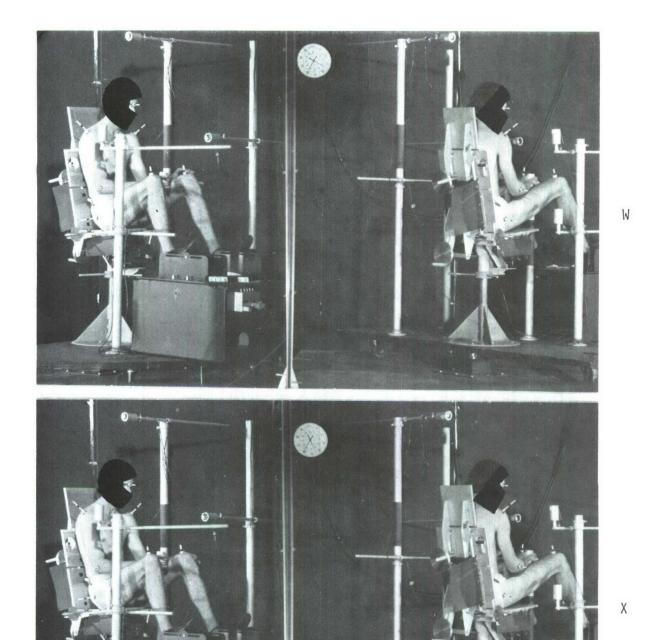


Fig. 11 (continued) A typical movement sequence

W - Return Phase, 1.0 sec. after start

X - Return Phase, completion after 1.1 sec. after start

body showing different upper extremity configurations with locations of shoulder centers marked were made available to the digitizer operators to help in making good and uniform estimates.

The information output from the digitizer was first converted, wherever necessary, to correspond to skin surface points. This procedure was necessary for all points marked by extension type targets. The next step was to convert the digitizer measurements into real-world measurements or coordinates with a known system of axes. The final step was to convert the measurements thus obtained into coordinates of specific body points in relation to the standard system with SRP as origin. The computer program written in FØRTRAN language to carryout the above computations is reported in Appendix A.

## RESULTS

The results presented in the following sections are based on data gathered from only 7 of the 20 subjects used. This decision was made after it became apparent that analyzing the data from 20 subjects would be an unusually large task requiring more data extraction time than was available. These seven subjects (about one-third of the original sample size) were chosen based on their weight and stature to represent, as closely as possible, the U.S. Air Force population. The relevant anthropometric characteristics of these seven subjects are shown in Table 4 (subject numbers 1 through 7).

A comparison of the means and standard deviations of these anthropometric measurements of the seven subjects with those of the student/pilot population of the Air Force as determined in 1967 is presented in Table 5.

A cursory analysis of the anthropometric data shows that the subject sample (n=7) used compares favorably with the 1967 U.S.A.F. Survey (student pilots) in all the anthropometric variables considered for this study. Using Chi-square tests, it can be concluded that the standard deviations for the subject sample did not significantly differ at 5 percent level from those of the 1967 survey. Also t-tests performed on mean values did not show any significant differences at 0.05 level for stature, weight, sitting, knee height, sitting acromial height, shoulder-elbow height, buttock knee length, elbow-grip length and bi-acromial breadth. Mean values of age, sitting height and radiale-stylion length were not significantly different at 0.02 level and those of acromial-radiale length were not significantly different at 0.01 level. The results of the Chi-square and t-test are given in Table 6.

The initial set of results for the paths of movements was obtained in a graphic form representing the real world coordinates of the locations of the various body landmarks at 0.1 second intervals. This was made using a CALCOMP plotter integrated with a CDC 6600 computer. Such sets of graphic data were very useful in identifying any gross errors made during earlier data reduction and computational stages. One

TABLE 5

COMPARISON OF SUBJECT SAMPLE WITH PILOT POPULATION\*

(Sample Size = 7)

Anthropometric Variable	S	Presen	t study	1967 USAF	Survey
		- X	σx	ž.	σx
Age	years	21.42	2.27	24.03	2.84
Stature	inches	69.37	1.69	69.88	2.28
Weight	lbs.	154.20	25.60	170.00	20.80
Sitting height	inches	35.08	1.46	36.73	1.18
Sitting knee height	inches	21.34	1.10	21.97	0.94
Sitting acromial height	inches	22.99	1.30	23.94	1.10
Shoulder-elbow length	inches	14.57	0.67	14.09	0.63
Buttock-knee length	inches	23.23	1.26	23.74	0.98
Acromion-radiale length	inches	13.62	0.51	12.99	0.63
Radiale-stylion length	inches	10.12	0.31	10.63	0.55
Elbow grip length	inches	14.17	0.31	13.90	0.59
Bi-acromial breadth	inches	15.47	0.83	16.02	0.79

<sup>\*</sup>A Review of Anthropometric Data of German Air Force and United States Air Force Flying Personnel 1967-1968, Edited by H. J. Grunhofer and G. Kroh, AGARD-AG-205, 1975.

Table 6

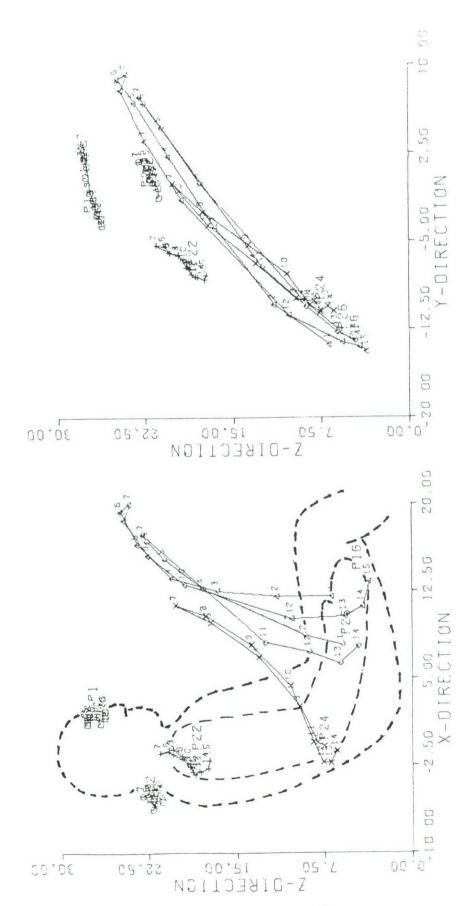
RESULTS OF STATISTICAL TESTS ON SUBJECT'S ANTHROPOMETRIC VARIABLES

	Test	Test on Standard Deviation		Test on Mean	Mean
Anthropometric Variables	×	x <sup>2</sup> 0.025,6	x <sup>2</sup> 0.975,6	٠	t 0.025,6
Age	3.833	14.449	1.237	3.042*	2.447
Stature	3.296	14.449	1.237	0.0798	2.447
Weight	9.089	14.449	1.237	1.633	2.447
Sitting height	9.185	14.449	1.237	2.990*	2.447
Sitting knee height	8.216	14.449	1.237	1.515	2.447
Sitting Acromial height	8.380	14.449	1.237	1.933	2.447
Shoulder-elbow length	981.9	14.449	1.237	1.896	2.447
Buttock-knee length	9.918	14.449	1.237	1.071	2.447
Acromion-radiale length	3.932	14.449	1.237	3.268**	2.447
Radiale-stylion length	1.906	14.449	1.237	4.353*	2.447
Elbow-grip length	1.656	14.449	1.237	2.304	2.447
Bi-acromial breadth	6.623	14.449	1.237	1.753	2.447

\*Significant at 0.05 level but not at 0.02 level \*\*Significant at 0.05 level but not at 0.01 level

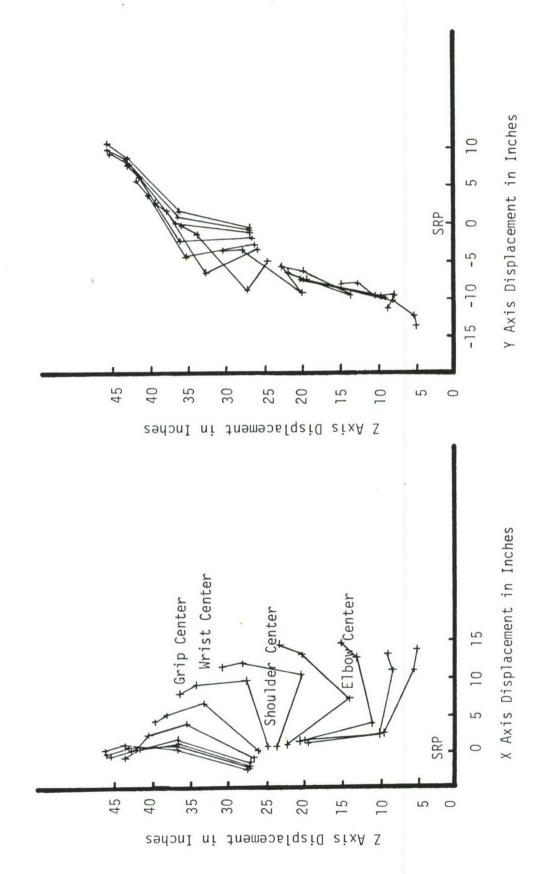
such set of graphic data showing the paths of movement of the various body landmarks under a specific combination of seat configuration and control location is presented in Figure 12. While the usual path of movement of a body segment is a smooth curve, straight line combinations are often employed. This can be seen in Figure 12. Similar graphical representation of paths of movement were obtained for all the movements performed by each of the seven subjects. The individual graphic data sets along with the supporting tabular data have been deposited with the Crew Station Integration Branch of Human Engineering Division Aerospace Medical Research Laboratory. Due to the large amount of data generated, they are not included in this report.

Figure 12 shows the spatial coordinates for the various body landmarks at successive intervals of 0.10 seconds. The upper extremity can now be represented by a series of stick diagrams to show its movement. This is obtained by connecting the grip center, wrist center, elbow center and shoulder center locations for each frame. Figure 13 shows such a series of diagrams constructed during the forward movement of the right hand from the side arm controller to the overhead control as performed by Subject #3. The various limb configurations of the same subject during return movement, i.e., from overhead to side arm controller, are presented in Figure 14. In both these figures the time interval between succeeding configurations is 0.1 second. The total time taken for upward

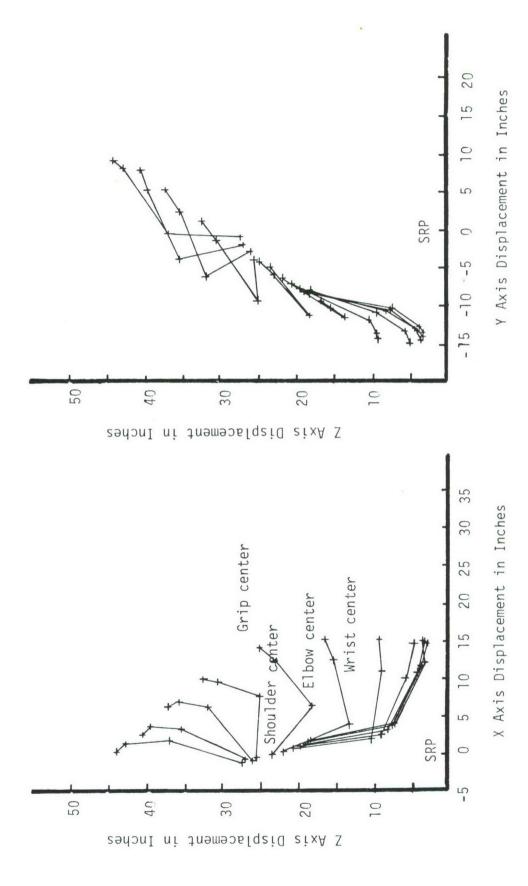


Paths of movement of certain selected body landmarks during right hand movement from side arm controller to panel release and return. Back rest angle = -30°; Subject #4.

y-Nasion; • - Cervical; △ - Right grip center; ◆ -Right wrist center; <- Right shoulder center. Figure 12.



Stick diagrams of right upper extremity when right hand moves from side arm controller to overhead controller at  $13^\circ$  back angle. Subject #3 Figure 13.

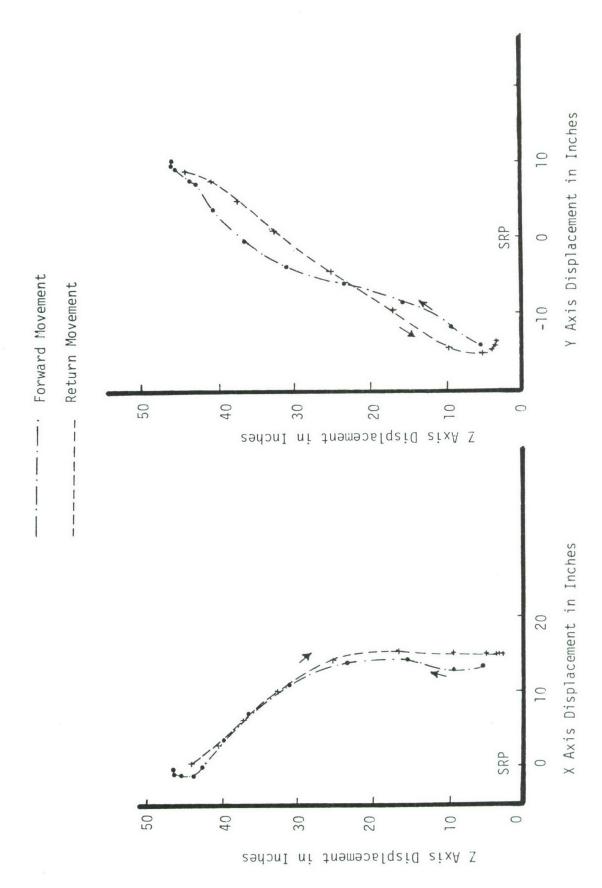


Stick diagrams showing right upper extremity when right hand moves back to stick controller from overhead controller at 13° back angle. Subject #3Figure 14.

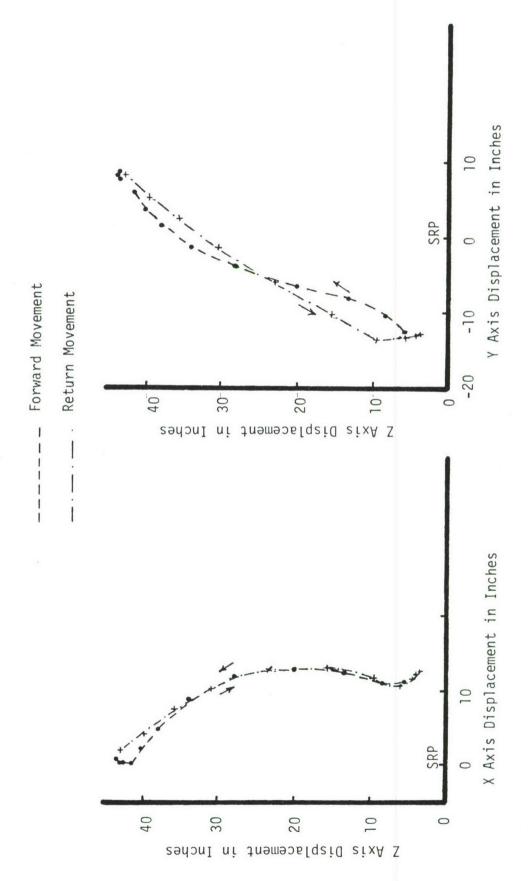
movement was 1.2 seconds and that for return movement was 1.1 seconds. Figures 15 through 19 show the spatial locations, at 0.1 second time intervals, respectively, of grip center, wrist center, elbow center, shoulder center and nasion, respectively, during these same movements. It can be observed that the paths of grip center (Figure 15) and wrist center (Figure 16), while displaced in space from each other, exhibit a general similarity in pattern. They seemed to differ in pattern only when the hand is near a control. This is because of the necessity to effect a wrist rotation in order to orient the hand properly with respect to the control. In general, it can be said that during large phases of the movement very little movement is noticed at the wrist joint.

A note of explanation is needed for Figure 19 showing nasion for subject #3. In this figure, the starting points of forward and return paths are displaced farther from the rest of the points on the curves. This is because the photographic system was synchronized with hand controller and a considerable amount of head movement usually preceded the hand release of the controller. Thus a segment of head movement was not recorded at all. This is the reason for the observed wide gap between the assumed starting position and the first recorded position in the paths shown in Figure 19. Paths of Movement

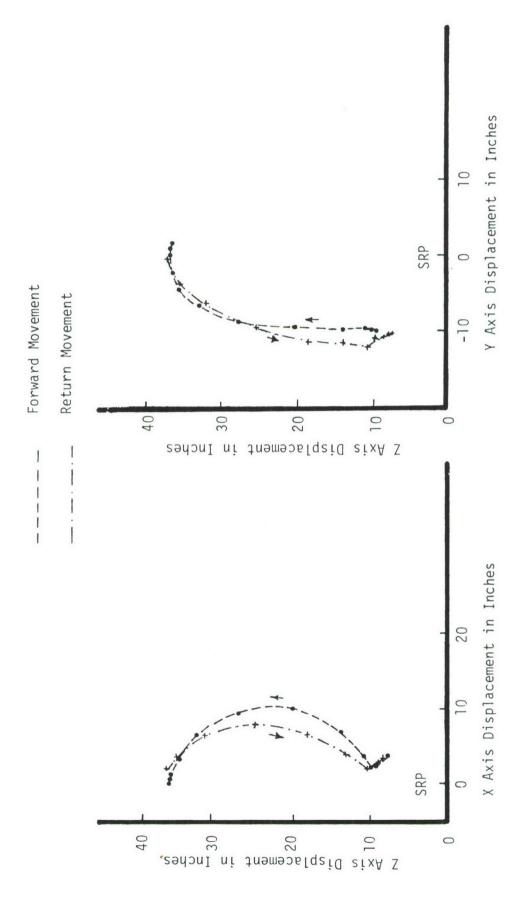
The data gathered on the seven subjects were pooled and further analyzed to obtain the statistical average or mean



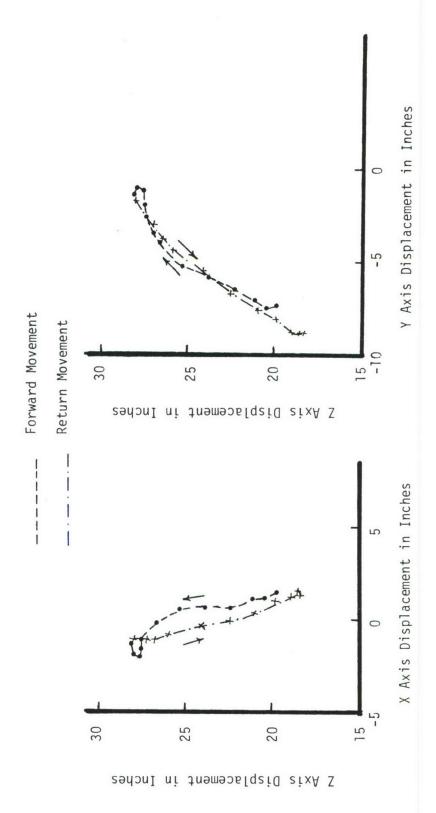
Paths of movement for right hand grip center during forward and return movement starting from side arm controller to overhead controller at 13° back angle. Subject  $\#\,3$ Figure 15.



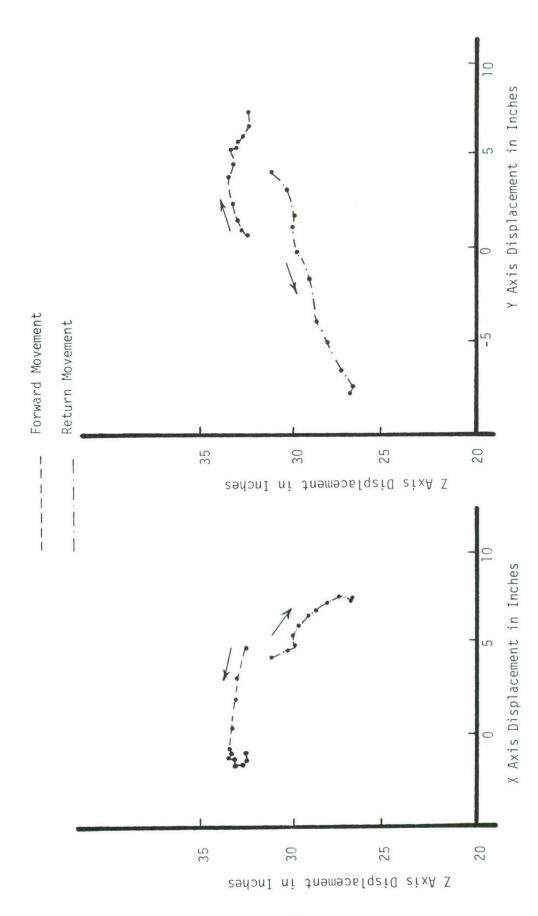
Path of movement of the right wrist joint center for forward and return movement starting from side arm controller to overhead controller at 13° back angle. Subject #3Figure 16.



Path of movement of right elbow joint center for forward and return movement starting from side arm controller to overhead controller at  $13^\circ$  back angle. Subject #3 Figure 17.



Path of movement of shoulder joint center. Forward and return movement starting from side arm controller to overhead controller at  $13^\circ$  back angle. Subject #3. Figure 18.



Paths of movement of nasion for forward and return movement starting from side arm controller to overhead controller using right hand at  $13^\circ$  back rest. Subject #3Figure 19.

paths of movement. The objective was to obtain three-dimensional limits of the paths of movement. Normally, it will be expected that the path of movement of any joint center, for a given set of starting and ending controller positions, would fall within these three-dimensional limits during the entire movement. Thus, the most probable path for a given joint center will be defined by a path represented by the average or mean path of movement and a set of three-dimensional limits. The three-dimensional limits themselves, will be varying over the length of the mean path.

For the statistical analyses, where average displacement profiles and stick diagrams were made, the movement time for each subject was divided into 10 equal periods. Under these conditions, it was possible to consider the X, Y, and Z coordinates for each landmark at 10 equal time intervals during the movement expressed as a percentage of the total movement time. Since movement time varied between subjects, it was essential to use the above described procedure to obtain the movement data excluding the effects of the speed of movement.

The first frame of recorded pictures represents the position exactly 0.10 second after the start of the movement.

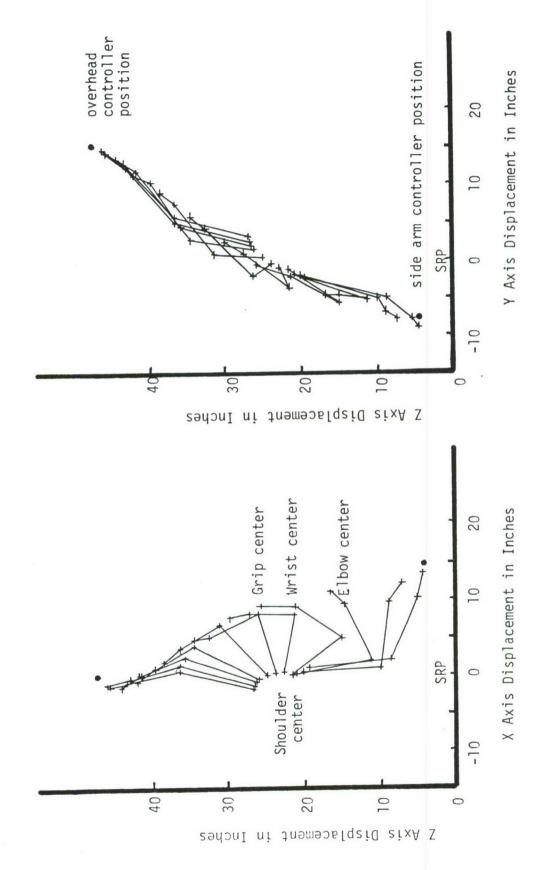
For the purpose of this analysis it was assumed that the starting position from one controller was identical to the ending or movement completing position towards the same control for any given joint center location.

The limb configurations for forward and return phases of the movement between side arm controller and overhead controller at 13°, back rest angles are presented in Figures 20 and 21. These configurations are based on averaged locations of the various joint centers. They are comparable to those presented in Figures 13 and 14 for Subject #5. The forward phase of the movement is further represented as individual joint center movements in Figures 22 through 26. In these figures, in addition to the mean or average path, the actual paths of movements of two selected subjects are also presented. One of the subjects (#5) is large, about 80th percentile for stature and weight and the second, Subject #1, is small, about 10th percentile of stature and weight of the Air Force population. No limb dimensions were considered. From Figures 22 and 23, it can be seen that Subject #5 effected a very different path from others. No explanation can be given for this deviation.

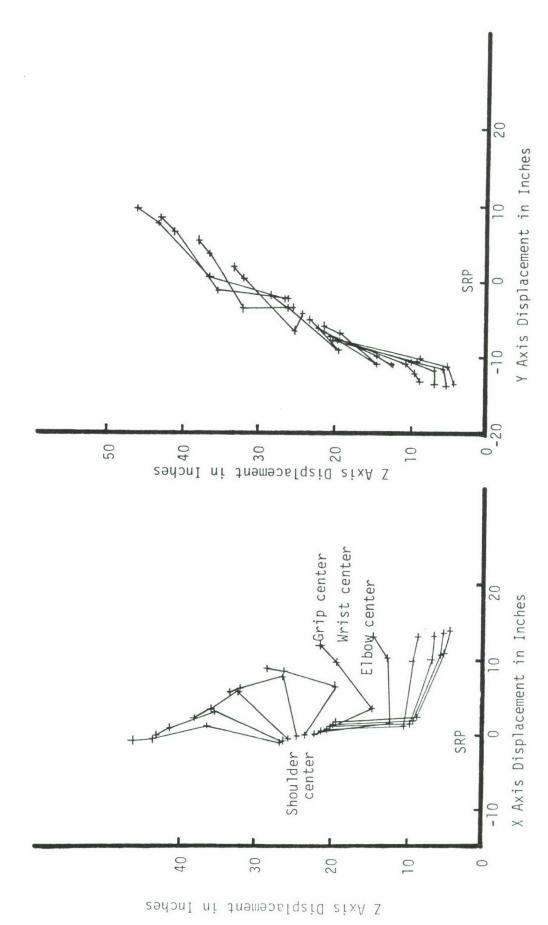
Figures 27 and 28 show stick diagrams for forward movement between side arm controller and overhead controller at 30° and 65° back rest angles, respectively. In comparing Figures 20, 27 and 28, it must be noted that control location has been changed according to Table 1.

## Displacement-Time Relationships

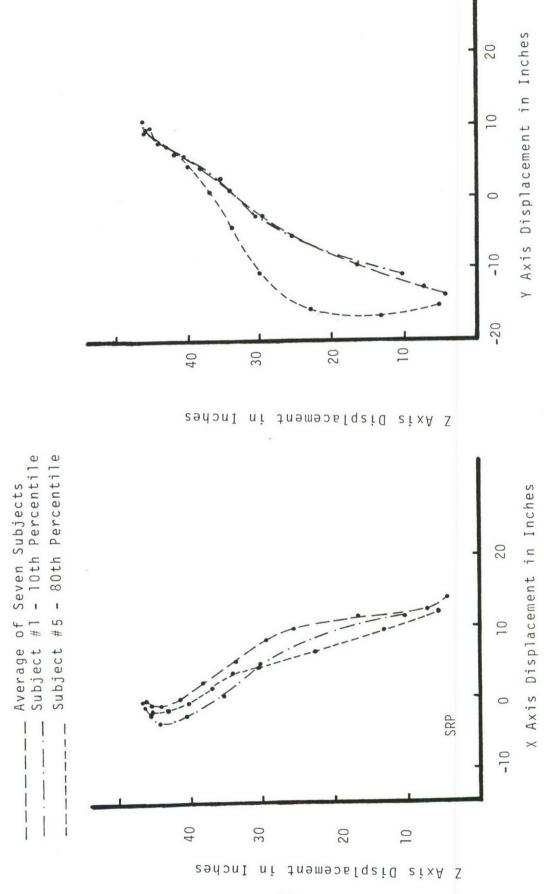
From a COMBIMAN input viewpoint, it is also useful to look at the results of this investigation as displacement-time profiles along the coordinate axes. Figures 29 through 32 present this kind of information for various joint centers as the right hand moves from side arm controller to overhead



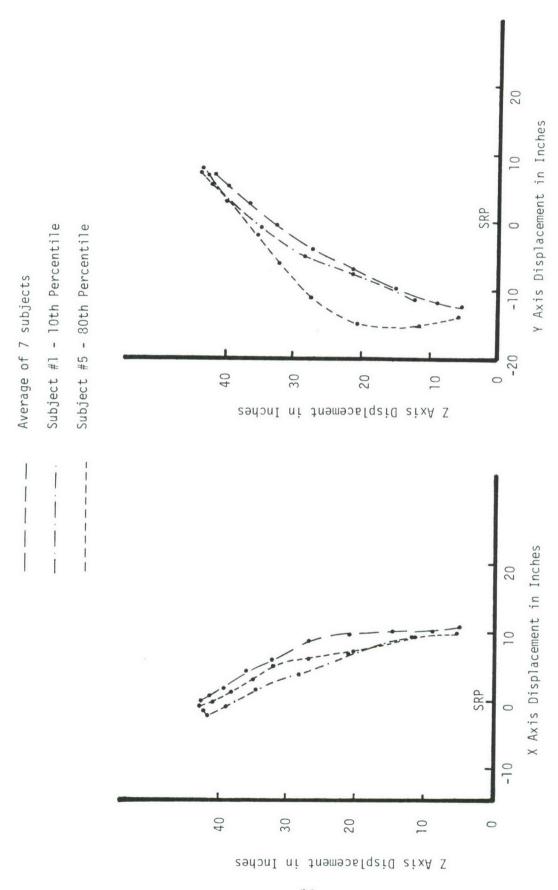
Stick diagrams of right upper extremity (shoulder, elbow, wrist and grip centers)at time intervals of 1/10th the average total movement time. Movement made from side arm controller to overhead controller at 13° back angle -- average for 7 subjects. Figure 20.



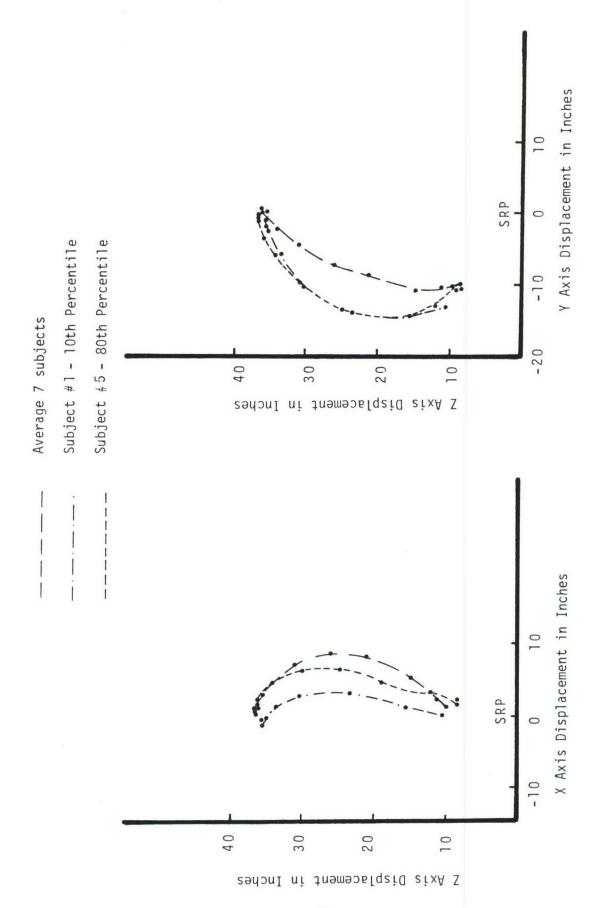
Stick diagrams of right upper extremity (shoulder, elbow, wrist, and grip centers)at time intervals of 1/10th of average total movement time. Movement made from overhead controller to side arm controller at 13° back angle -- average for 7 subjects. Figure 21.



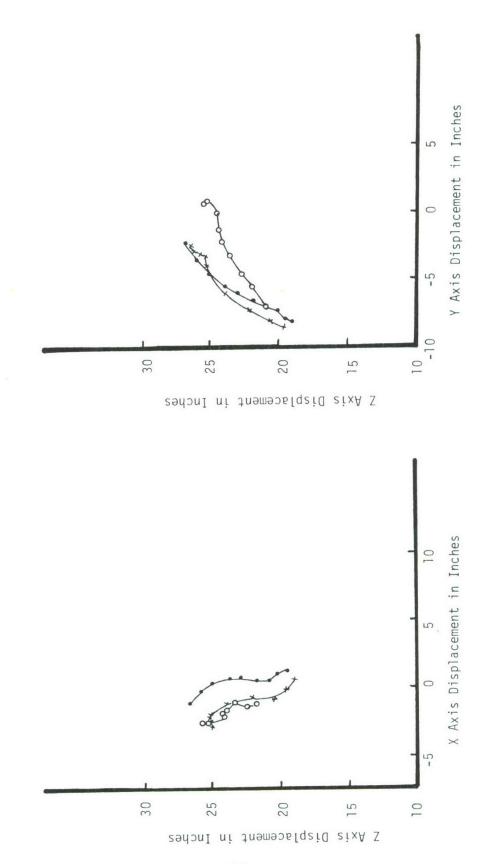
Right Hand Grip Center Paths of Movement from Side Arm Controller to Overhead Controller at 13° Back Angle for Subjects 1 and 5 vs. the Average Path for all Seven Subjects. Fig. 22.



Right wrist center path of movement from side arm controller to overhead controller at 13° back angle for subject #1 and 5 vs. the average path for all 7 subjects. Figure 23.



Right elbow joint center paths of movement from side arm controller to overhead controller at 13° back angle for subjects 1 and 5 vs. the average path for all 7 subjects. Figure 24.



5- 80th Percentile

Subject #

Average of 7 subjects

Subject # 1- 10th Percentile

Right shoulder joint center path of movement from side arm controller to overhead controller at  $13^\circ$  back angle for subjects #1 and 5 vs. the average path for all 7 subjects. Figure 25.

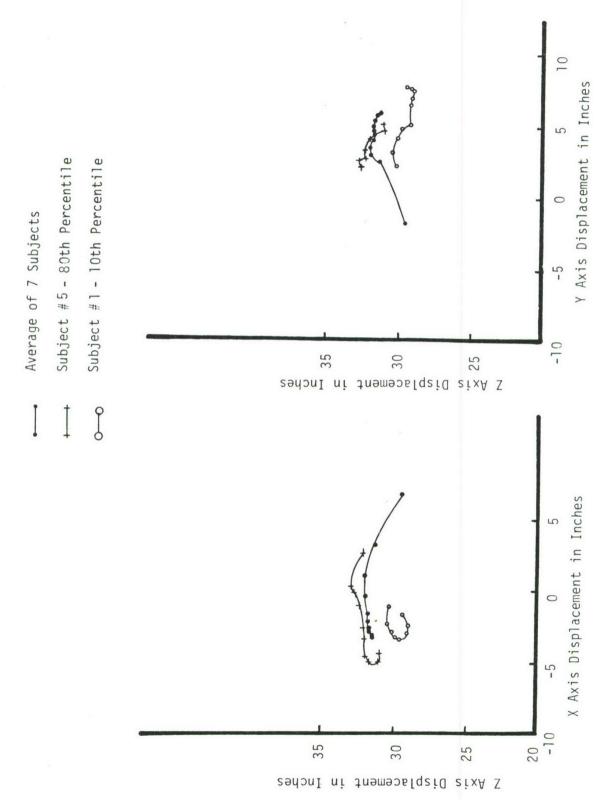
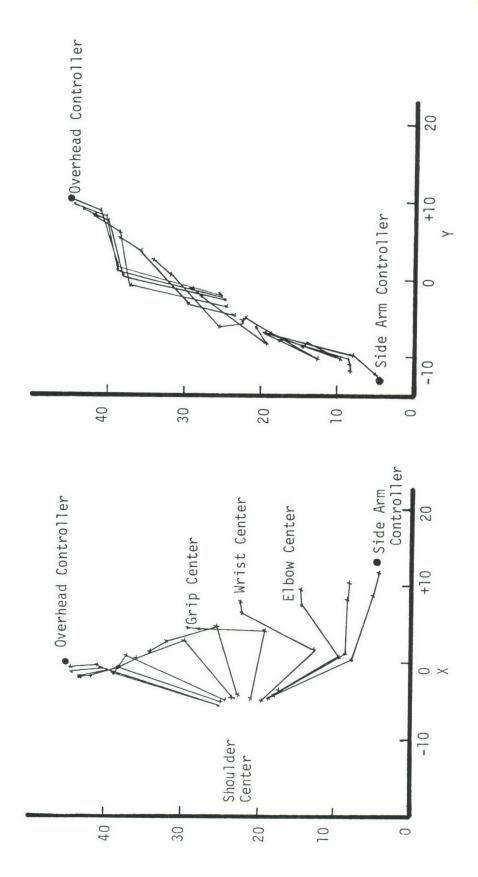
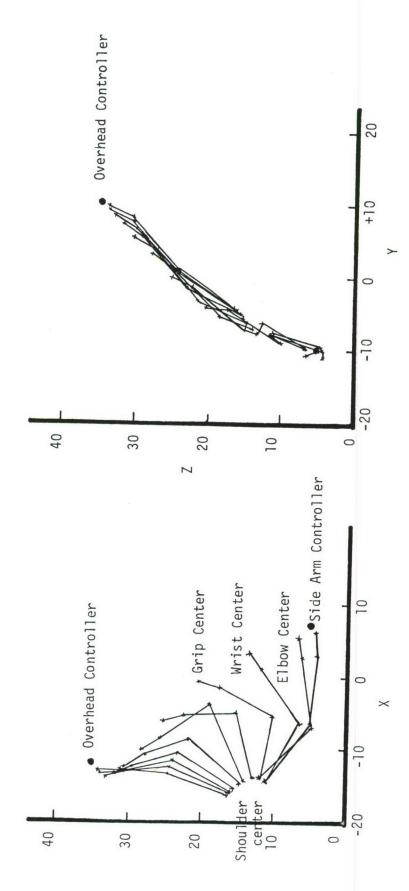


Figure 26. Path of movement of nasion when right hand moves from side arm controller to overhead controller at 13° back angle.



Stick diagram describing forward movement from side arm controller to overhead controller at 30° back angle.-- average for 7 subjects. Figure 27.



Stick diagrams describing forward movement from side arm controller to overhead controller at 65° back angle -- average for 7 subjects. Figure 28.

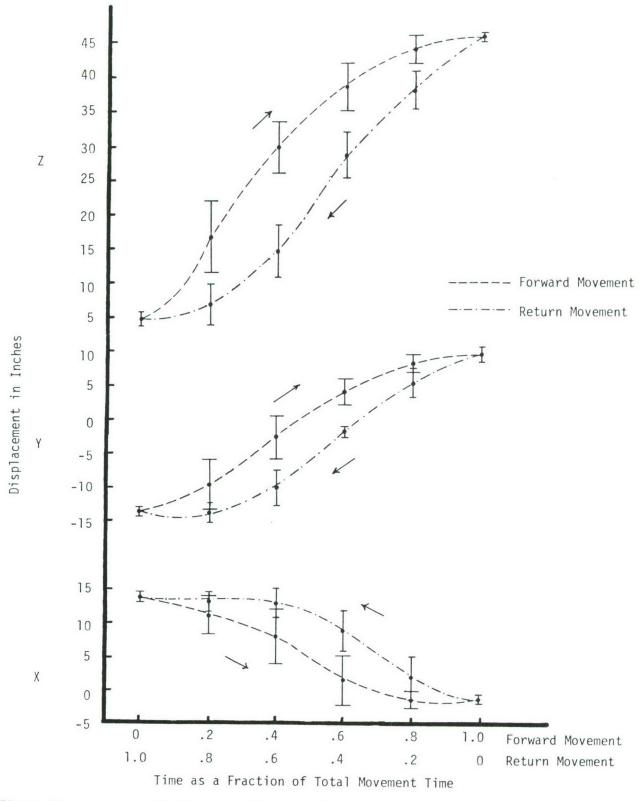


Figure 29. Displacement time relationship for right hand grip center for forward and return movement starting from side arm controller to overhead controller at 13° back angle

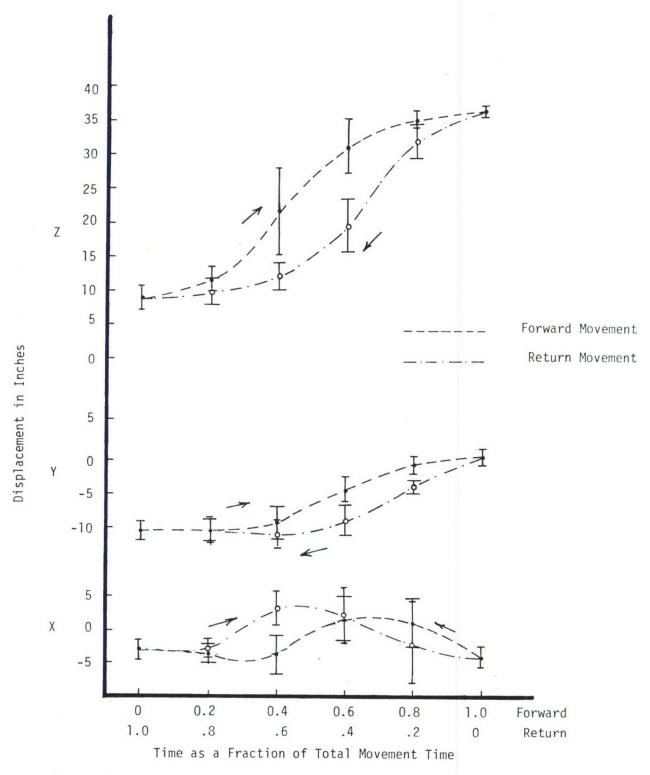


Figure 30. Displacement-time relationship for right elbow joint center for forward and return movement starting from side arm controller to overhead controller at 13° back angle.

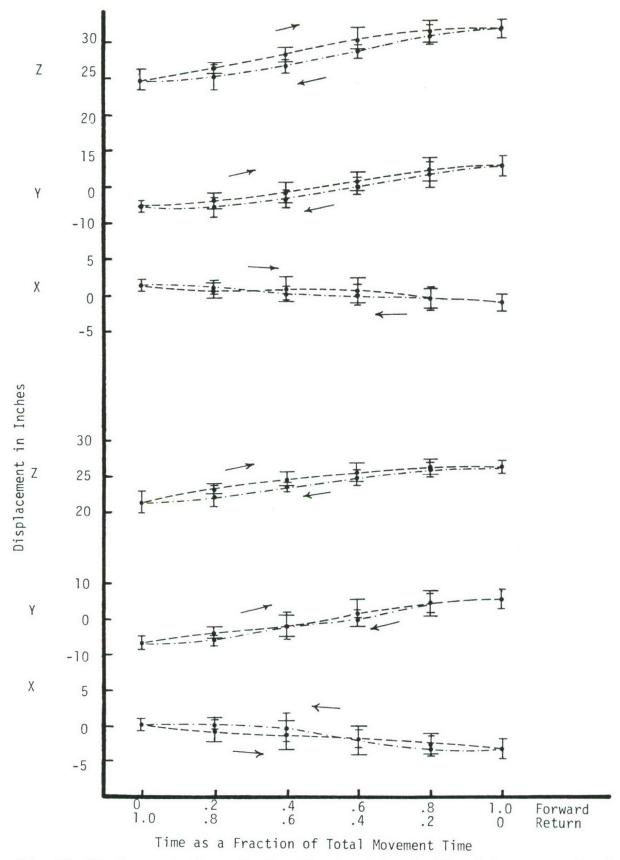


Fig. 31 Displacement time relationship for right shoulder joint center (top) and right acromion (bottom) for forward and return movement starting from side arm controller to overhead controller at 13° back angle

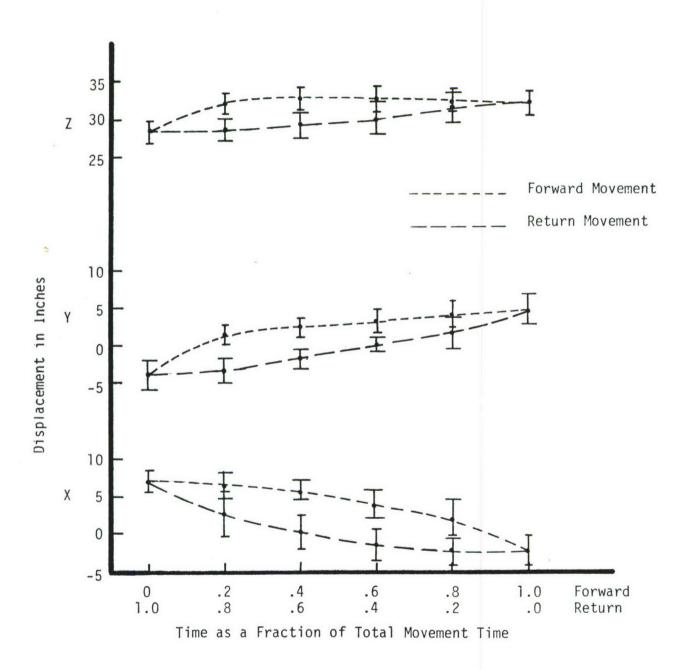


Figure 32. Displacement-time relationship for nasion for forward and return movement starting from side arm controller to overhead controller at 13° back angle

controller. (This is the same movement presented in the earlier section involving Figures 12 through 26.)

Grip center (Figure 29). The grip center moved about 43 inches along z axis, 23 inches along y axis and 15 inches along x axis. Thus, displacement along z axis was the major component. This fact is suspected to contribute to the wider difference between the profiles of forward and return movements along z axis than the same along the other two axes. Additionally the larger variations from the average path along z axis than the other two axes can also be partly attributed to this. A second factor believed to be contributing to the later effect is the variations in segment lengths among the subjects.

The larger variations over the middle part of the displacement curves than the end parts are due to the fact that nearer a controller, the movement becomes more controlled and slower in speed.

The rate of displacement on leaving a controller is seen to be higher than that when approaching a control. Rate of displacement over the middle part of the movement is observed to be significantly higher than the same at either ends.

Elbow center (Figure 30). Elbow displacement profiles along z and y axes look similar in pattern to those of grip center. However, x axis displacement profile is very different. This is because in order to reach for the overhead controller, at a height of more than 47 inches above seat level, the

initially semiflexed elbow has to extend out (forward) while being raised upwards. And then, the fact that the overhead controller is at 0 inches from SRP along x axis (forward), makes it necessary for the elbow to move backwards while maintaining an extended position. Thus an approximately bell-shaped curve is generated for the profile. The return movement profile is similar to forward profile except that it is displaced (phase shift) along the time axis. This is because releasing and moving away from the overhead controller is achieved relatively faster than moving towards and grasping the same controller.

Shoulder center (Figure 31). The shoulder joint is one of the most complex joints in the human skeletal system, both anatomically and kinesiologically. The joint itself is really composed of three different joints (Dempster, 1955). Hence, any attempt in analyzing and isolating the various joint movements can be complicated. For the purpose of this study, the gleno-humeral joint center was chosen as the joint center representing shoulder movement. Additionally acromion was chosen as a reference landmark to be used in following the paths of movement of shoulder joint. Hence, Figure 31 contains the displacement profiles of the right acromion and right shoulder center.

A point to bear in mind here is that the apparent final movement of the shoulder joint center of acromion is the resultant of the movement necessary to effect the distal

extremity motions plus any displacements of the trunk and the neck found necessary from visual and comfort points of view. It can be observed that while at the start of the forward motion the acromion is above the shoulder center along z axis (as can be reasonably expected) at the end of the movement the shoulder center is located slightly above the acromion. This is partly due to the fact that as the upper extremity moves upwards, acromion moves slightly backwards and drops down somewhat in order to facilitate the upward swing of the humeral head. Also there is an artifact introduced as the surface marker for acromion slides downwards due to stretching of the skin over the area under consideration.

Nasion/head movement (Figure 32). The head displacement profiles have to be studied carefully bearing in mind that the first part of the movement was never recorded as it preceded the hand movement activating the recording system.

During the forward movement of the hand, head moves upwards a little bit only initially, but continues to tilt to the left and backwards till the overhead controller is sighted and grasped by the moving hand. A very similar pattern but in reverse can be noticed during return movement. The head drops down only initially but continues to tilt to the right and forward till the hand movement is completed.

Statistical summaries of displacement-time relationship.

Complete statistical summaries for each body landmark are given

in Appendix B. In addition, several displacement-time relationships are graphed for quick reference (Figure A-3 through Figure A-22).

## APPENDIX A

COMPUTER PROGRAM DOCUMENTATION

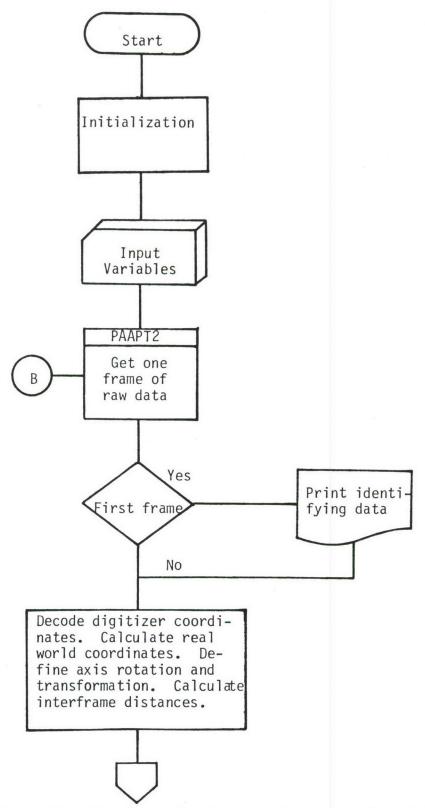


Fig. A-1 Flow Chart for Computer Program employed in obtaining real-world coordinates from digitizer data

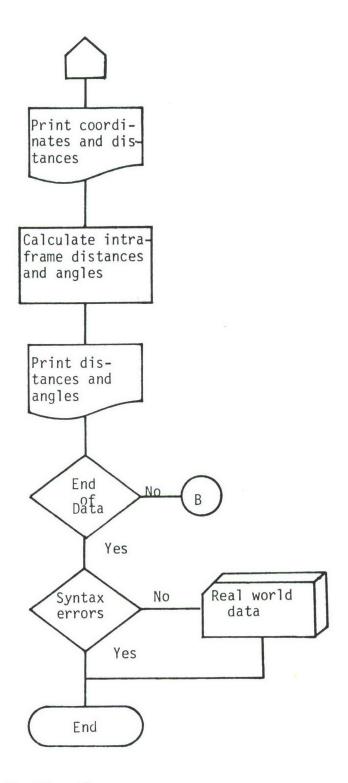


Fig. A-1 (Continued)

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1V G LEVEL 21 PAAKT2 DATE = 75055  REAL XYZ(3,30), PXYZ(3,30)  REAL CD(30)	INTEGER ICI1(200), ICZ(200), IXI(30), IYI(30), IXZ(30), IYZ(30), IXE(30), I	DATA TARGET/30*0/ INTEGER IA1(20),1A2(200) INTEGER PELG(30),5FLG(30) INTEGER ICAT(30)	C INITIALIZATION AND VALICATE  C READ(5.1001) F1.01, F2.02.5C.NP.NS.RX.RY.RZ.TX.TY.TZ.TOL  WRITE(6.1002) F1.01, F2.02.5C.NP.NS.RX.RY.RZ.TX.TY.TZ.TOL  IF (1.07.0.0.200.4.1.1.1000.0) G0 T0 100	MAITE(6,2C31) F1   F1   F2   F3   F3   F3   F3   F3   F3   F3	110 TF(F2.GT.C.3.ANG.F2.LT.1000.0) GO TO 120  MF(TF(6.203) F2 F2=1.0 F2=1.0 F2=1.0	MATTE(6,25,34) D2 D2=1,0 25 CCNTINUE 30 TF(MP.GT.1.AND.NP.LT.31) G0 T0 1 WRITE(6,2010) NP NP=30	140 IF(NS.GE.1.AND.NS.LI.41) 50 IO 141  NS-40  NS-40  NS-1057) NT;(TARGET(I),I=1,NT)  NRITE (5,1038)  WRITE (5,1018) (I,TARGET(I),I=I,NT)	CREAD THETA  CREAD THETA  CREAD THETA  CREAD THETA  CREAD THETA	REAC (5,1013) IPNCH WRITE (5,1022) THET COSTH=COS(THETA) SINTH=SIN(THETA) IF (NA,65.0.AND.KA.L WRITE(6,2014) NA	142 IF (NA.LE.S) GO TO 15C READ(5.1017) (1A1(1),1A2(1),1=1,NA) RITE(5.1020) CO 144 1=1,NA

21  WRITE(5, 20:5) 1,1A:(1)  F(1A2(1) 1) 17.7.4(D.142(1)  CAZ(1) 1 D C CAZ(1) 1 D C CAZ(1)  CAZ(1) 1 D C CAZ(1) 1 D C CAZ(1)  WRITE(6, 20:1) 1 D C C C C C C C C C C C C C C C C C C
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75055	Y3,X4,Y4,MOVE,I ISU3,MOVE,ISEQ,		
DATE	2,72,X3,		
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!	TZ - OATA		ARITE (5,1009) LINE=0 WRITE (5,1029) LINE=LINE+1 WRITE (5,1029) IF (LINE-LINE+1 LINE=0 ARITE(5,1039) LINE=LINE+1 WRITE(5,1039) FILINE=1 FI
G LEVEL 21	202	204 HR WAS WEEN LOOP LIST OF L	201 LI 207 LF 207 LF 215 LI 215 LI 221 LF
FORTRAN IV G.L	0102 0103 0104 0104 0105 0106 0108 0109 0110	0115 0118 0118 0119 0120 0122 0123 0124 0128 0128 0128 0128 0128 0128	0133 0135 0135 0135 0137 0139 0141 0142 0143
F.O.	000000000000000000000000000000000000000	109	000000000000000000000000000000000000000

C** THE ANOLE NUMBER  WRITER(A,1015) IANGI,IANG2,IANG3  JANG=IANG  C. PRUCESSING FOR SKIN POINTS  CDETERMINE LEFT AND RIGHT SKIN POINTS  IF (X2(I), GF, 5000) Y2(I)=X2(I)-10000  JF (X2(I), GF, 5000) Y2(I)=X2(I)-10000  JF (X2(I), GF, 5000) Y2(I)=X2(I)-10000  JF (X2(I), GF, 5000) Y2(I)=X2(I)-10000  DX=X1(I)-X2(I)  IF (X2(I), GF, 5000) Y2(I)=X2(I)-10000  DX=X1(I)-X2(I)  DX=X1(I)-X2(I)  IXI(I)=X2(I)-DX  IXI(I)=X2(I)-DX  IXI(I)=X2(I)-DX  IXI(I)=X2(I)-DX  IXI(I)=X2(I)-DX  IXI(I)=X2(I)-DX  DX=X1(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)  DX=X1X3(I)-X4(I)-DY  CSET FLAGS WHERE NECESSARY  CSET FLAGS WHERE NECESSARY  CSET FLAGS WHERE NECESSARY  IXI(I)=D  IXI(I	0129500 01310000 01310100 01310200 01310400 01310405 01310400 01310400 01310400 01310400 01310400 01310400 01310400 01310400 01310400 0131000 0131000 01311000 01311000 01311200 01311200 01311500 01311500	
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CDETERMINE LEFT AND RIGHT SKIN POINTS  IF (X2(1).65.5000) X1(1)=X1(1)-10000  IF (Y2(1).65.5000) X2(1)=X2(1)-10000  IF (Y2(1).65.5000) Y2(1)=Y2(1)-10000  IF (Y2(1).65.5000) Y2(1)=Y2(1)-10000  IF (Y2(1).65.5000) Y2(1)=Y2(1)-10000  DX=X1(1)-X2(1)  DX=XX1ARGET(1)  DX=XX1ARGET(1)  IXI(1)=X2(1)-0X  IXI(1)=X2(1)-1X		
CDE TEFMINE LEFT AND WIGHT SKIN POINTS  IF (XI(I), GE, 5000) X2(I) = X2(I) - 10000  IF (Y2(I), GE, 5000) Y2(I) = X2(I) - 10000  IF (Y2(I), GE, 5000) Y2(I) = X2(I) - 10000  DX = X1(I) - Y2(I)  IXI(I) = X2(I) - DX  IXI(I) = X4(I) - DX  IXI(I) = X2(I) - X2(I) - IXI(I) -	0131 0131 0131 0131 0131 0131 0131 0131	
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F (Y1(1) GE.5000) Y1(1) = Y1(1) = 10000	0131 0131 0131 0131 0131 0131 0131 0131	
	0131 0131 0131 0131 0131 0131 0131 0131	
CY=Y((1)-Y2(1) DX=DX*TARGET(1) DX=DX*TARGET(1) IXI(1)=X2(1)-DX IXI(1)=X2(1)-DX IXI(1)=X2(1)-DX IXI(1)=X2(1)-DX IXI(1)=Y2(1)-Y2(1)-DX IXI(1)=Y2(1)-Y2(1)-DX IXI(1)=Y2(1)-Y2(1)-DX IXI(1)-Y2(1)-Y2(1)-Y2(1)-Y2(1)-10000 DX=X3(1)-X4(1) DX=X*TARGET(1	0131 0131 0131 0131 0131 0131 0131 0131	
DX=DX*TARGET(1) DY=DX*TARGET(1) IXI(1)=X2(1)=0X IYI(1)=X2(1)=0X IYI(1)=Y2(1)=0X IF (X3(1).GE.5000) X3(1)=X3(1)=10000 IF (X4(1).GE.5000) Y3(1)=Y4(1)=10000 UX=X3(1)-X4(1) UX=X3(1)-X4(1)-0X UX=X3(1)-X4(1)-1X UX=X3	0131 0131 0131 0131 0131 0131 0131 0131	
IXI(I) = \( 2(1) - 0 \)	0131 0131 0131 0131 0131 0131 0131 0131	
	0131 0131 0131 0131 0131 0131 0131	
F (x3(1).GE.5000) x3(1)=x3(1)-100C0	0131 0131 0131 0131 0131 0131	
F	01311020 01311030 01311040 01311100 01311200 01311300 01311500 0131500	
	01311030 01311040 01311100 01311200 01311300 01311500 0131500	
D X = X = X = X + X + X + X + X + X + X +	01311040 01311100 01311200 01311300 01311400 01311500	
DY=Y3(1)-Y4(1) DX=DX*TARGET(1) DY=DX*TARGET(1) IX2(1)=X4(1)-DX IY2(1)=X4(1)-DX IX2(1)=X4(1)-DX IX2(1)=X4(1)-DX  LE (IXI(1)-ME1.AND.IY)(1).NE1) GO TO PFLG(1)=1 IX1(1)=0 IY1(1)=0 IY1(1)=0 IX1(1)=0 IX2(1)=0 IX	01311200 01311300 01311300 01311400 01311500	
DX=DX*TARGET(1) DY=DY*TRRGET(1) DY=DY*TRRGET(1) IX2(1)=X4(1)-DX IY2(1)=X4(1)-DX IY2(1)=Y4(1)-DX IY1(1)=D IX1(1)=D IX2(1)=D IX2(1)	01311300 01311400 01311500 0131500	
DY=DY*TARGET(1)  1x2(1)=x4(1)-0x  1x2(1)=x4(1)-0x  IYZ(1)=x4(1)-0y  CSET FLAGS WHERE NECESSARY  C.IF (IXI(1)-0y  IF (IXI(1)=0)  IXI(1)=0  IXI(1)=1  IXI(1)=1  IXI(1)=1  IXI(1)=1  IXI(1)=1  IXI(1)=1	01311400 01311500 0131500	
X2(I) = X4(I) - DX   Y2(I) = Y4(I) - DY   CSET FLAGS WHERE NECESSARY   CSET FLAGS WHERE NECESSARY   IF (IXI(I) - NE1.AND.IY1(I).NE1) GO TO   PFLG(I) = 1   IXI(I) = 0   IXI(I)	01311500	
CSET FLAGS WHERE NECESSARY  C. IF (IXI(I).ME1.AND.IY1(I).NE1) GO TO PFLG(I)=1	01315000	
CSET FLAGS WHERE NECESSARY  L [ [IXI(I) = 0]   [	03031510	
TYI(I)   WE1.AND.IY1(I).NE1) GO TO	01315060	
PFLG(I)=1 IXI(I)=0 IYI(I)=0 IV(I)=1 IXZ(I)=1 IXZ(I)=0 IXZ(I)	01315070	
IXI(I) = 0   IYI(I) = 0   IXI(I) = 0   IXI(I) = 1   IXI(I) = 0   IYI(I) = 0	0131	
1Y[(1)=0 214 I (1X2(1)-NE1.4ND.1Y2(1).NE1) GO TO PFLG(1)=1 1X2(1)=0 1Y2(1)=0 219 CCMTINUE 1F (1X1(1).EG.50.ND.1X2(1).EQ.5.AND.1Y1(I	01315200	
219 CCNTINUE   PFLG(I)=1   IY2(I)=3   219 CCNTINUE   F (IXI(I):E9.5.bND:IX2(I):E0.5.bND:IY1(I)   X PFLG(I)=1	1510	
IX2(I)=0 IY2(I)=1 IY2(I)=1 IF (IXI(I)=50.5.0ND-IX2(I)=E0.5.AND.IY1(I	1570	
219 CCNTINUE IF (IXI(1), EG. 5, NYS-1X2(1), EQ. 5, AND, IY1(I	01315600	
219 CCNTINUE IF (IXI(1).E0.J.AND.IX2(1).E0.J.AND.IY1(I X PFLG(1)=1	01315650	
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X PFLG(I)=	1.EQ.3.AND.IY2(1).EQ.0) 0131	
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3	01330000	
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<b>D</b>	01360000	
0185 DO 250 I=1,NP	01370000	
TAICE CON STATE OF TAILOURS	01376100	
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0	01370210	
45 54	05007510	
7 0 35	0330,610	

	C 16,12== 26 C 11,13== 27	01370240	
		01370290	
0186	GO TO 218	01370300	
0138	15 (1.61.25) [1]=1/4+MU(1.4)	01370400	
01 89	J=1111=C	01370600	
21 90	IF (PFLG(111).EQ.1.0R.PFLG(JJJ).EQ.1) GO TO 250	01370700	
21 97	PFLG([1]=0	01370750	
0193	276 XY2(K,11=(XY2(K,1111)+XY2(K,1111)72	01370800	9
2194	,	01371000	
01 95	0	01371100	
2010	WRITE (6,1039)	01371200	
0198	WRITE (6.	01371300	
6610	+1	01371410	* * * * * * * * * * * * * * * * * * * *
0200	TITC)	01371420	
0201	60 10 238	01371500	
	C PACCESS COURDIMATES FOR POINTS 1 - 23	01371600	
		01371800	
2020	218 IF (PFLS(I).E3.1) GO TO 250	01380000	
	The state of the s	01392000	
	CDEFINE TRANSFORMATION	0140000	
		01405000	
	2244010		
11	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01407000	
-	ST TXT TS	01409000	
		01410000	
0203	[x1(1)=-1x1(1)]	01480000	
1	CXII - LEFT SIDE X CORDINATE	014400	
32.04	. X11 = FLOAT (1 X1 (1))	01493000	
		01493100	
0505	YI=FLOAT(IYI(I))*SC*O.CO4+TYI	01494000	
9020	**************************************	01495000	
	SICE Z	01497000	
0207	2=FL04T (1 Y2 (1)) *	01498000	
0208	+1)=X11+(F2+01-X12+021/(F1+F2+X11+X12) +	01520000	
9209	*I)=X12*(F1*C2-X11*D1)/(F1*F2+X11*X12) +	01530000	
0210	1=Y11*(F1*72-X11*D1)/(F1*F2+X11*X12) +	01540000	
1170	*)1-X12*D21/(F1*F2+X11*X12) + R	01550000	
7.70	0.7/(77+77)=/(1.617)4	01550050	
	CFUTATE AXIS THETA FADIANS	01558000	
		01569000	
0213	=XYZ(1,1)*COSTH-XYZ(2,1)*SINTH	01559300	
9214	XYZ(Z,1)=XYZ([,1)*SINTH+XYZ(Z,1)*COSTH	01569400	
677	111714	01569450	
		01569940	
;	C CALCULATE INTEST PAME DISTANCES	01570000	
		0167010	

0220		0167		
22	0.0=03	01574000	7000	
j	.i.) GO TO	0157	2000	
22	TF (PXYZ(1,1).EU.OANIJ.PXYZ(Z,1).EQ.CAND.PXYZ(3,1).EQ.O.)	0157	01575100	
-	11.CA-ABC 10.CA-ABC 11.CA-ABC	010	0075	
0223	DY=ABS(PXYZ(2,1)-XYZ(2,1))	0159	01590000	
n'	3,1	0160	01,600000	
n.		0161	0000	
NI	(1)=CD	0165	0000	
VIC	1.	0167	2002	
10	TELLINE TERMS OF	8910	0000	
101		0170	0170000	
01	WRITE(6,1009)	0171	0000	
01	235 LINE=LINE+1	0172	01720000	ř
01	IF (IXI(I).LT.e) IXI(I)=10000+IXI(I)	01721	1000	
01	(IY1(I) .LT.0) IY1(I)=1	01722000	2000	
ALL	.LT.0) IX2(I)=10000+IX	01723000	3000	
010	(IY2(I).LT.5) I	01724000	4000	
01 /	1 C=10+1	01729300	9300	
NI 1	I (IC)=1		00%	
011	1005)[, (XYZ(J,1), J=1,3), Z1, Z2, IXI(I), IYI(I), IXZ(I)	, 172(1)01730000	0000	
	Upracite 200	0174	01740000	
040	1. 145 125-121-11	01 760000	0000	
	TEAG INCORRECT COURT	01 760100	0100	
-	C TE I PNCHEI, PUNCH REAL WORLD COORDINATES IN GROUPS OF FOUR P	FR 0176	01760500	
	AU.		0090	
1 0		0176	01760700	i
1526	238 CONTINUE	0176	0110	
,	MAILU CUUKLINAIES	0177	0000	
75.42	062 31 0	0178	01780000	
	DECTION THE PRINCE OF LEGISLANDS	6710	0000	
3245	SOTION DIVINE TO SOLICE TO	0100	0180000	-
		00.00	0000	
	C IN IDCHALL BUNCH ANY KRMAINING DATA	0104	840200	
		0184	01840300	
24	IF (IPNCH.EJ.O) GO TO	0184	0001	
3247	RITE (2) IC, (ICN	0184	2000	
1	The same of the sa	0185	0000	
	C CALCULATE INTRAFPAME DISTANCES	0186	01860000	
. 9		0187	0000	
NI	TON1 INC	0187	01871000	
	F ( ND. E 3. 0)	01.88	80000	
21	DC 273 I=1, VD	0189	01890000	
0251	11	01.90	0000	
VI		1610	910000	
11 6	(PFLG(J).E.J.1.(F.PFLG(K).EQ.1) GU 1U 270	1610	915000	
1.	2**((X,2)2YX-(C,2)2YX)+2**((X,()2YX-(C,1)2YX)=	01920	0000	
C	744)	01930	0 (	
71.01	U L U L U L	004010	0000	
. 0	0 123 L 231 C	06610	$\circ$	
. 0	DITE(::10.3)	06610	0000	
1 0	140111	0000000	0000	

AR DISPLACEMENTS  TO 20C  1.0R.PELG(K).EQ.1) GO TO 290  Y2(1,J) Y2(1,J	260 LINE=[INE+1	>	02020000		,
CALCULATE AJGULAR DISPLACEMENTS  723   FIVALED 30   10 20 0  00 200   11 44  **ILI   11	273		0204000		
The control of the	1	DISPLACEMENT	0206000		
DO 200 1=1.44A    Jel 14(1)	283	TO 20C	0208000		
	1=1	The second secon	0210000		
	K=1 A2 (1)	:	0211000		
DELFY-ACTURE ACTURED A	IF (PFLS(J).E2	).EQ.1) GO TO 29	0212000	. 0	
Delfex=2V(13,K)-xV13,J) Delfex	N11212121212	(17.17)	0212100		 !
D DELEXA-2-DIE	DIF Z=XYZ(3,K)-		0212300	0.0	
DESCRIO)  DESCRIO)  DESCRIO)  DESCRIOTOR  DESCRIPTION  DE	D=DIFX**2+015Y	*	0212400	0.0	
DVF0.0 LINE=0.1059) J.K.DX.DY.DZ 295 CINE=1.059) J.K.DX.DY.DZ 295 CINE=1.059) J.K.DX.DY.DZ 295 CONTINUE ENDETE 2 ENDETE 2 ENDET	(C) T S (C)		0215000		
F (ASS(0)-LT.0.1) GO TG 281   DA=8.00   DA=8.00  TKXD) #57.29577958   DY=ARCOS(0 FYZO) #57.29577958   DY=10.00	0.00		0216000		
F (AS(0).LT.0.1) Gn TO 281     DEAARCOS(OIFX/O)*57.29577958     DEAARCOS(OIFZ/O)*57.29577958     DEAARCOS(OIFZ/O)*57.29577958     DEAARCOS(OIFZ/O)*57.29577958     DEAARCOS(OIFZ/O)*57.29577958     DEAARCOS(OIFZ/O)*57.29577959     DEAARCOS(OIFZ/O)*57.29577959     DEAARCOS(OIFZ/O)*57.29577959     LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO     CONTINUE   CONTINUE   LINEO   LINEO   LINEO     CONTINUE   CONTINUE   LINEO   LINEO   LINEO     CONTINUE   LINEO   LINEO   LINEO   LINEO     DEAAR OINTO   LINEO   LINEO   LINEO   LINEO     DEAAR OINTO   LINEO   LINEO   LINEO     CONTINUE   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LINEO   LINEO   LINEO   LINEO   LINEO     LINEO   LIN	0.0=10	The second secon	0217000	0	
DX=ARQUS(DIFX/D)#F7.29577958  DX=ARQUS(DIFX/D)#F7.29577958  DX=ARQUS(DIFY/O)#57.29577958  DX=ARQUS(DIFY/O)#57.29577958  221	IF (A3S(D).LT.	8	0218000	0	
DOTE FOR WATER STREET OF TO 282.  DE STARCOS (DICTYON) #57.25977953  229	DX=ARCUS(DIFX/	m 1	021 9000	0 0	
281 IF(LINE.LI.55) GG TO 282.  KAITE(5,1039) LINE=0 282 LINE=1NE+1 WRITE(6,1019) J.K.DX,DY,DZ 293 CONTINUE 294 CONTINUE 295 CONTINUE 295 CONTINUE 296 CONTINUE 297 CONTINUE 298 CONTINUE 298 CONTINUE 299 CONTINUE 29	DY=ARCOS (OIFY)	S	0221000		
262 LINE=10 1 INE=0 1 INE=10 TO 230 40 JIT (12 LINE +1 LINE -1) GO TO 503 40 JIT (12 LINE -1) GO TO 503 READ (2. END=500) ISUB, 4CVE, ISEQ, IANG FEAD (2. END=500) ISUB, 4CVE, ISEQ, IANG FEAD (2. END=500) ISUB, 4CVE, ISEQ, IANG READ (2. END=500) ISUB, 4CVE, ISEQ, IANG FOUNCH 1026, ISPQ, 4CVE, ISEQ, IANG FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) READ (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) FOR FEAD (2. ED) TO, (ICHT (11), (XYZ(1), ICNT (11)), J=1, 3), I=1, IC) X		2	022500	0	
262 LINE=0 262 LINE=1NE+1 293 CONTINUE 294 CONTINUE 295 CONTINUE 295 CONTINUE 295 CONTINUE 296 CTO 200 297 CONTINUE 297 CONTINUE 298 CONTINUE 299 CO	1	202 01 010	0226000	0	
262 LINE-LINE+1  293 CONTINUE  295 CONTINUE  296 CONTINUE  297 CONTINUE  297 CONTINUE  298 CONTINUE  298 CONTINUE  299 CONTINUE  290 CONTINUE			0227000	0 0	
299 CONTINUE CC 200 407 IF (1701CH-E3.01 GD TD 50) ENDELE 2  IF (1201CH-E3.01 GD TD 50) REWIND 2 REWIND 2 REWIND 2 READ (2.END=500) ISUB, WCVE, ISEQ, IANG PUNCH 1026, ISUB, WCVE, ISEQ, IANG REWIND 2 READ (2.END=500) IC, (ICMT(1), (XYZ(J, ICMT(1)), J=1,2), I=1, IC) READ (2.END=500) IC, (ICMT(1), (XYZ(J, ICMT(1)), J=1,2), I=1, IC)  REWIND 2 REWIND 3 REWIND 2 REWIND 3 REWI	62		0228000		
GC TC 230  FENING 2  FENING 2  FENING 2  FENING 2.6.5.8.4.0.1 GC TO 500  READ (2,6ND=500) ISUB, MCVE, ISEQ, IANG  FENING 2  FENING 2  FC TC 410  GC TO 410  GC TO 410  GC TO 410  FC RAT STATEMENTS  TO F F RAME STATEMENTS  TO F F F F F F T	6.0	J.K. UX. UY. UZ	023000		
407 1F (IPMCH-E3.01 GO TO 500 ENDFILE 2 I [ECVIT.NE.0] GG TO 500 READ (2,END=500) ISUB, MCVE.ISEQ.IANG PUNCH 1026,ISUR, MOVE.ISEQ.IANG 410 READ (2,END=500) ISUB, MCVE.ISEQ.IANG AUCH 1027.(ICHI(I),(XYZ(J,ICNT(I)),J=1,3),I=1,IC) PUNCH 1027.(ICHI(I),(XYZ(J,ICNT(I)),J=1,3),I=1,IC) GC TO 410 GC TO 410 GC TO 420 GC TO 420 GC TO 420 GC TO 420 GC TO 420 GC TO 420 GC TO 420 FGRAT STATEMENTS FGRAT (466.2,F5.2,213,7F5.2,2x,8x) IOC1 FORWAT (466.2,F5.2,213,7F5.2,2x,8x) IOC2 FORWAT (466.2,F5.2,213,7F5.2,2x,8x) X FIL.2716H FIL.47CREEN IS ,F7.27LDX,16HDISTANCE IS X FIL.2716H FIL.47CREEN IS ,F7.27LDX,16HDISTANCE IS X A 13H FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13H FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13HF FRAMES/SUBJECT IS,115/26H S. R. P. P. PELATIVE TO V. I., X A 13H FRAMES/SUBJECT IS,115/26H S. R. P. PELATIVE TO V. I., X A 14HF FRAMES/SUBJECT IS,115/26H S. R. P. PELATIVE TO V. I., X A 14HF FRAMES/SUBJECT IS,115/26H S. R. P. PELATIVE TO V. I., X A 14HF FRAMES/SUBJECT IS,115/26H S. R. P. PELATIVE TO V. I., X A 15HF TO V.	30 66		0231000	0	
ENDFILE 2  FE (IEC'IT.NE.0) GG TO 500  REWIND 2  READ (2.END=500) ISUB, MCVE.ISEQ.IANG  PUNCH 1026.ISUR.MOVE.ISEO.IANG  41C READ (2.END=500) ISUB, MCVE.ISEO.IANG  41C READ (2.END=500) ISUB, MCVE.ISEO.IANG  FOUNCH 1027.(ICHI(I), (XYZ(J.ICNT(I)).J=1,3),I=1,IC)  GC TO 410  GC TO 410  GC TO 410  SC TO 420  FGRMAT STATEMENTS  FGRMAT STATEMENTS  FGRMAT (2.EH.CAMERA 2 FOCAL LENGTH IS.FF.2/10X.16HDISTANCE IS.X FT.2/25H CAMERA 2 FOCAL LENGTH IS.FF.8.2/10X.12HDISTANCE IS.X FT.2/25H CAMERA 2 FOCAL LENGTH IS.FF.8.2/10X.12HDISTANCE IS.X TIL.2/16H FILM/SCREEN IS.FT.2/16H POINTS/FRAME IS.IIT/X X ISHF.8.2/10H FILM/SCREEN IS.FF.8.2/10X.11VE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. FRAMES/SUBJECT IS.II5/26H S. R. P. P. FLATIVE TO V. I X AND FRAMES/SUBJECT IS.II5/26H S. R. P. P. FRAMES/SUBJECT IS.II5/26H S. R. P. FRAMES/SUBJECT IS.II5/26H S. R. P. P. FRAMES/SUBJECT IS.II5/26H S. R. P. FRAME		GD TO 50	025000	0 0	
REMIND 2  READ (2,END=500) ISUB, MCVE, ISEQ, IANG  PUNCH 1926, ISUB, MCVE, ISEQ, IANG  41C READ (2,END=500) ISUB, MCVE, ISEQ, IANG  41C READ (2,END=500) IC, (ICMT(I), (XYZ(J), ICMT(I)), J=1,3), I=1,IC)  5C J 410  5C J 410  5C J 5TOP  FGRMAT STATEMENTS  10CL FORWAT (25HIGAMERA I FOCAL LENGTH IS, F7.2/19%, 16HDISTANCE IS, X F7.2/25H CAMERA 2 FOCAL LENGTH IS, F8.2/10%, 12HDISTANCE IS, X F7.2/25H CAMERA 2 FOCAL LENGTH IS, F8.2/10%, 12HDISTANCE IS, X F7.2/25H CAMERA 2 FOCAL LENGTH IS, F8.2/10%, 12HDISTANCE IS, X TII.2/16H FILM/SCREEN IS, F17.2/16H POINTS/FRAME IS, III// XX A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 2/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A HAMES/SUBJECT IS, III// 3/35H DIGITIZER DRIGIN RELATIVE TO V. I., X A	ENDFILE 2	01	0252000		
FEAD (2, END=500) ISUB, WCVE, ISEQ, IANG PUNCH 1026, ISUR, WOVE, ISEQ, IANG PUNCH 1027, (ICHI (I), (XYZ(J, ICNT(I)), J=1,3), I=1,1C)  5C3 STOP  FC3RAT STATEMENTS  1001 FGRWAT (466, 2, F5.2, 213, 7F5.2, 2X, 8X)  1002 FGRWAT (25HICAMERA I FOCAL LENGTH IS, FF.2/10X, 12HDISTANCE IS, X FT.2/16H FILLY/16H FILLY/16K FT.2/26H POINTS/FRAME IS, II7/ X J3H FRAMES/SUBJECT IS, II5, 28H S. R. P. RELATIVE TO V. I., X J3H FRAMES/SUBJECT IS, II5, IEARS IS B. R. P. RELATIVE TO V. I., X J3H FRAMES/SUBJECT IS, II5, IEARS IS B. R. P. RELATIVE TO V. I., X J3H FRAMES/SUBJECT IS, II5, IEARS IS, IICH FOCAL IS, IICH FORMAT(III4)  1006 FCRMAT(IIS) 1007 FCRMAT(IIS) 11007 FCRMAT(IIS) 11007 FCRMAT(IIS, SIL) 3)	DECTIONS	01 09	025300	0	
### ##################################	READ (2. END=50	-	0254000	. 00	
### ##################################	PUNCH 1026,150	IANG	025500	00	 1
PUNCH 1027 (ICHI (I) (XYZ(J,ICNI(I)) (J=1,5) (1=1) (C) 6C TO 410  6C TO 410  FORMAT STATEMENTS  1001 FORWAT (4F6,2,F5,2,13,7F5,2,2X,8X)  1002 FORWAT (26H1CAMERA 1 FOCAL LENGTH IS,F8,2/12X,12MDISTANCE IS X FT,2/25 H CAMERA 2 FOCAL LENGTH IS,F8,2/12X,12MDISTANCE IS X FT,2/25 H FRAMES/SUBJECT IS, 115,115/26 H POINTS/FRAME IS,IITX X 13H FRAMES/SUBJECT IS,115/15/28 H S. P. P. PELATIVE TO V. I. X 3H P.,3F6,2/13H TOLERANCE IS,F20.3)  1003 FCRWAT(116)  1004 FCRWAT(116)  1005 FCRWAT(115)  1006 FCRWAT(115)  1007 FCRWAT (115,5)=10.3)  11007 FCRWAT (115,5)=10.3)	6	1), (XYZ(J, ICNT(I)), J=1,3), I=1	025600	0.0	
FORMAT STATEMENTS  FORMAT STATEMENTS  10C1 FORWAT(4F6.2,F5.2,213,7F5.2,2x,8x)  10C2 FORWAT(26H1.24FRA 1 FOCAL LENGTH IS,F8.2/12x,124DDISTANCE IS,  X FT1.2716H FILLYSCREEN IS,F7.2/104 POINTS/FPAME IS,117.  X 13H FRAMES/SUBJECT IS,115/28H S. R. P. PELATIVE TO V. I.,  X 3H P.,3F6.2/13H TOLERANCE IS,F20.3)  1003 FCRWAT(116)  1004 FCRWAT(116)  1005 FCRWAT(115)  1006 FCRWAT(115)  1007 FCRWAT(115,510.3)  1007 FCRWAT(115,510.3)  1007 FCRWAT(115,510.3)  1007 FCRWAT(115,510.3)  1007 FCRWAT(115,510.3)  1107 FCRWAT(115,510.3)	PUNCH 1027, (10	, ICNT ( 1) 1, J=1, 51, 1=1, 1	025800	. 00	
FORMAT STATEMENTS  FORMAT STATEMENTS  1001 FORWAT(4F6.2.F5.2.213,7F5.2.2x.8x)  1002 FORWAT(4F6.2.F5.2.213,7F5.2.2x.8x)  1003 FORWAT(4F6.2.F6.2.F6.2.72)  X F7.2/25H CAMERA 2 FOCAL LENGTH IS.F8.2/12x.12HDISTANCE IS.X F7.2/25H CAMERA 2 FOCAL LENGTH IS.F8.2/12x.12HDISTANCE IS.X F7.2/25H FILL.2/16H FILL.2/16H POINTS/FPAME IS.117/  X 13H FRAMES/SUUSCT IS.115/26H S. R. P. PELATIVE TO V. I  X 3H P.,3F6.2/13H TOLERANCE IS.F20.3)  1004 FCRMAT(116)  1005 FCRMAT(116)  1006 FCRMAT(115)  1006 FCRMAT(115,5F10.3)  1007 FCRMAT(115,5F10.3)  1007 FCRMAT(115,5F10.3)  1007 FCRMAT(115,5F10.3)  1008 FCRMAT(115,5F10.3)  1008 FCRMAT(115,5F10.3)  1008 FCRMAT(115,5F10.3)  1109 FCRMAT(115,5F10.3)  1109 FCRMAT(115,5F10.3)  1109 FCRMAT(115,5F10.3)  1109 FCRMAT(115,5F10.3)  1109 FCRMAT(115,5F10.3)			025900	00	
FGRMAT STATEMENTS  1001 FORWAT (4F6.2.F5.2.213,7F5.2.2x,8X)  1002 FORWAT (4F6.2.F5.2.213,7F5.2.2x,8X)  1002 FORWAT (4F6.2.FX.2.213,7F5.2.2x,8X)  X F11.2716H F11.475GEEN IS 'FT.2710X,16HDISTANCE IS 'X F11.2716H F11.475GEEN IS 'FT.2716H POINTS/FRAME IS.117/  X 13HF FRAMES/SU9JECT IS.115/26H POINTS/FRAME IS.117/  X 3H P.,3F6.2/13H TOLERANCE IS.F20.3)  1003 FORWAT(16)  1004 FGRWAT(16)  1005 FGRWAT(15)  1006 FGRWAT(15)  1007 FGRWAT(15)  1007 FGRWAT(15)  1007 FGRWAT(15)  1007 FGRWAT(15)  1008 FGRWAT(15)  1008 FGRWAT(15)  1007 FGRWAT(	25.3		027930	00	
10C1 FORWAT (4F6.2.F5.2.213,7F5.2.x.8X) 10C2 FORWAT (26HJCAMERA 1 FOCAL LENDTH IS ,F7.2/10X,16HDISTANCE IS ,X F7.2/25H CAMERA 2 FOCAL LENGTH IS,F8.2/10X,12HDISTANCE IS ,X F7.2/25H CAMERA 2 FOCAL LENGTH IS,F8.2/10X,12HDISTANCE IS ,X F7.2/25H FIL.3/16H FIL.4/SCREEN IS ,F1.2/16H POINTS/FRAME IS,II1/7/X	FORMAT	S	028000	00	
FORWAI(26H52.75.4.15) (15.4.4.28)  FORWAI(26H52.75.4.15) (15.4.4.28)  FORWAI(26H52.47.28) (15.4.4.28) (15.4.2.15.4.16HDISTANCE IS (16.4.2.12.4.12.16H FIL4.78) (16.4.2.12.4.12.12.16H FIL4.78) (16.4.2.12.4.12.12.16H FIL4.78) (16.4.2.12.12.12.12.12.12.12.12.12.12.12.12.1			0281000	000	
FILE TO SET TO S	100	LENGTH IS ET 2/10% 16HDISTANC	. 0283000	000	
FILE CALL   FRAMES   S.   FIT. 2/16H   POINTS / FRAME IS.   IT.     13H   FRAMES / SUBJECT IS.   IT.   SCANE   S.   R.   P.   PELATIVE TO V.   I.     13H   FRAMES / SUBJECT IS.   IT.   SCANE   S.   R.   P.   PELATIVE TO V.   I.     13H   F.   SE6.   Z/75H   DIGITIZER ORIGIN   RELATIVE TO V.   I.     13H   P.   SE6.   Z/75H   DIGITIZER ORIGIN   RELATIVE TO V.   I.     FCR.   AT (  14)     FCR.   AT (  14)     FCR.   AT (  15)     FCR.   AT (  15	200	FOCAL LENGTH IS FR 2/10X 12HDIST	15.	00	
The state of the s		EEN IS , FI7.2/16H POINTS/FRAME IS.I	11	0.0	
(		15,115/28H S. R. P. PELATIVE TO	1. , 028600	000	
FCRWAT(16) FCRWAT(114) FCRWAT(115)	13HP	2/35H DIGITIZER BRIGIN RELATIVE TO SECOND	-	000	
FCR 47(114) FCR 47(114) FCR 47(115)	C C C C C C C C C C C C C C C C C C C	JEERANCE 131 20.	028900	00	
FCENAT(20X,12,4X,F6,2,2(2X,F6,2),2(3X,F5,2),4(4X,14),5(F6,2)) FCENAT(15,5,510,3) FCENAT (13,7512,77X) FCENAT (10,7,29HPLINIS TARGET-RATIO KEY ,14HTP=0=SURFACE, , X			029000	00	
FORMAT(115,0F10.3) FORMAT (13,012,17X) FORMAT (10,120HPLDINIS TARSET-RATIO KEY ,14HTP=0=SURFACE, ,		,2(2X, F6.21,2(3X, F5.2), 4(4X, 14), 5(F6.2	029100	00	
COT FCRMAT (13, 2012, 17X)  007 FCRMAT (10, 23 PHOLNIS TARGET-RATIO KEY .14HIR=0=SURFACE, ,  X 31H TR=1=1 1 PATIO, TR=2=1 2 RATIO)	FCRMAT(315	3.3)	002620	000	
x = 31H TR=1=1 1 RATIO, TR=Z=1 2 RATIO) 0294500	COT FERMAT (13)	A TARGET-RATIO KEY .14HIR=0=SURFAC	029400	000	
	TOB FUNDAL 1.3.	=1 1 PATIO, TE=2=1 2 RATIO)	029650		

034	-		【 251	C'O TUNAPI	2	1234
IS INVALID & . 034	1(,I3,2H)=,	FO	* D #	CI 5 FORMAT		0 10
D & REPLACED, 034	NA., 16, 22H IS INVALI	VALUE FOR	6 * * * * * * * * * * * * * * * * * * *	CI4 FORMAT	2	7337
15 INVALID & 03400000	ID2(, I3,2H)=, I6,14H	VALUE FOR	13HKHPLACED BY	C13 FORMAT	62	)236
18 INVALID & 03380	ID1(,I3,2H)=,I6,14H	VALUE FOR	1	OIZ FOR JAT	5	2335
D & REPLACED.	ND , , I & , 22H IS INVALI	VALUE FOR	(25H ####################################	2011 FORMAT	4 2	3334
D & REPLACED.	NP.,16,22H IS INVALI	VALUE FUR	*	FORM	3	w
יים פי אנדיראני			9HED BY 1.0)	T C P 4		7332
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	VALUE FOR	T(26H ********	OCH FORMAT	1 2	0331
& REPLACED, 03	NS., 16, 22H IS INVALID	VALUE FOR	(25H ********	006 FORMAT	0 2	2330
1D & REPLACED . 03270000	S,,F7.2, 22H IS INVALI	VALUE FOR	MAT (24H ********	FOR	9 2	0329
D & REPLACED, C3	D2,F7.2,22H IS INVALI	VALUE FOR	D (	FORMAT	8	0328
D & REPLACED, 03:	F2,F7.2, 22H IS INVALI	VALUE FOR	7H BY 1.0)	X FORMAT	7 2	250
03230000 03230000	7110	1	H E	×		3 11
63	D1 E7 2 224 IS 1	n :	7H BY 1.0)	X X X X X X X X X X X X X X X X X X X	6	032
ID & REPLACED . 03200000	F1, F7. 2, 22H IS INVAL	VALUE FOR	1(25H ******** VALUE	2001 FORMAT		0325
-		3x,1HE)	( *+ *, 3 9X, 1HE, 23X, 1HE	,		022
031 96000		3x,1HE)	(++,31X,1HL,2	33		032
03			(417)	1026 FORMAT		0321
MOTION) 03191100	BEGIN BACKWARD	RD MOTION	(46H END FORWA	E.		231
031	m	CCMPUTE	22H ANGLES TO	× ×		
ED. F10.4/ 03180000	XES ARE TO BE ROTAT	FADI ANS	(42H	FORMAT		731
_			(12HIDISTANCE	1021 FORMAT		12,
031			F6.1)	X		
F6-1-5H ANGZ- 03140000	5H ANGX, F6.1, 5H ANGY,	10,13,	(BOX, 4HFROM, 13,	FORMAT	1	w
03120000		TC. 13)	(16,2H <sub>a</sub> ),13,3H	FORMAT		0314
			ANGLES,31	FORMAT		031
031 00000		MEER , IS)	(16	n	-	0311
03060000			(15.3x.II)			0310
03050000	,F9.2)	, 3H TO, 13,	(100x, 6HFRCM, 13	FORMAT	0 00	0308
03040000		TC,13)	,2H. ), [3,3H	RMAT	1	330
. 03020000			(3612,8x)	FORMAT	0	030
1301-7 TM-X 19	(SH ),9(8H		N -	×		
HZ,4X,	£X,1HX,7X,1HY,7X,	RAME	122H SBJCT F	* *		

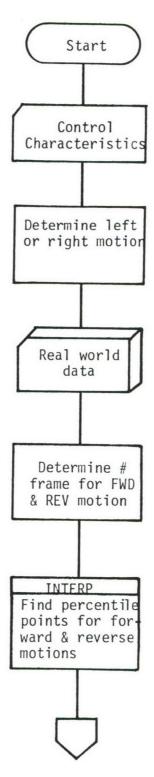


Fig. A-2 Flow Chart for Computer Program used in Statistical Analysis

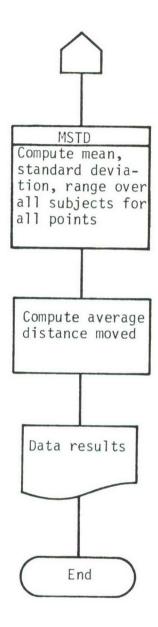


Fig. A-2 (continued)

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REAL ANGL (15,16,41,0x(2),0Y(2),0Z(2),0XYZ(2)
INTEGER HAND,IPT(30),IFRM(10),IFW0(2),ILR(2),LRTBLE(4),FRTBLE(4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ANGLES BETWEEN VARIOUS BODY POINTS ARE ALSO CALCULATED SIMILARILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COM 13N / PSWDIA/NSUB, NTIME, LOOP, IPIS, PISUB, TCL, NPIS, FX32EV, LP
                                                                                                                                                                                                                  THE FIRST STEP IS TO READ IN SUBJECT DATA OFF OF PUNCHED CARDS
                                                                                                                                                                                                                                                                                                                                                                          INTERP - CALCULATES ODY POINT COORDINATES BASED 34 A FRACTION OF THE TOTAL TIME REQUIRED TO COMPLETE
                                                                        PROGRAY RWAYLS CALCULATES THE MEAN, STANDARD CEVIATION, AND FIFTH AND NIVETY-FIFTH PERCENTILES FOR X, Y, AND Z CODROLVATES OF SELECTED POINTS AS CALCULATED IN THE PATH OF
                                                                                                                                                                                                                                    AND CALCULATE BODY POSITIONS AT VARIOUS TIME SLICES. ASTER
                PROGRAM RWAYLS(INPUT,OUTPUT,TAPE5=INPUT,TAPE6=OUTPUT,TAPE4)
                                                                                                                                                                                                                                                 ALL SUBJECTS ARE PROCESSED THIS WAY, THE MEANS, STANDARD DEVIATIONS, FTC. ARE CALCULATED OVER ALL SUBJECTS FOR EACH SUBMOVEMENT, I.E. LEFT (RIGHT) HAND FORWARD (REVERSE).
                                                                                                                                                      THE DATA IS AWALYZED BASED ON ALL AVAILABLE SUBJECTS! PER-FORMANCE FOR A PARTICULAR MOTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - CALCULATES SQUARE ROOT
- CALCULATES ARCCOS(X), WHERE X IS IN MADIAUS
                                                                                                                                                                                                                                                                                                                                                                                                                                      CALCULATES MEANS AND STANDARD CEVIATIONS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INTEGER FWDREV(7,4), IPTS(16,2), PTSUB(15,16,4), FRAME, 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINE FILE 2(200,500,U,IFND)

REAL RWPTX(40,30),RWPTY(40,30),RWPTZ(40,30),

XPCT(7,15,16,4),YPCT(7,15,16,4),ZPCT(7,15,16,4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X95PCT(15,16,4), Y95PCT(15,16,4), Z95PCT(15,16,4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            xSTDV(15,16,41,YSTDV(15,16,41,2STDV(15,16,41,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEAN(4), STD(4), MIN(4), MAX(4), DIST(15, 16, 4)
REAL X5PCT(15, 16, 4), Y5PCT(15, 16, 4),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEAL XMEAU(15,16,4), YMEAN(15,16,4), ZMEAN(15,16,4),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INTEGER NOPTS(16,4), IANGLE(16,3), NOANGL(16,4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCM YON / SUBDIA/ISUB, NF, I4, RWPIX, RWPIY, RWPIZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REAL XLAST(16,4), YLAST(16,4), ZLAST(16,4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DATA LRIBLE/2,1,1,2/,FRIBLE/1,1,2,2/
DATA ILR/94RG/1,44LEFI/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INTEGER LADMRK(5,27), IFWRV(11,2)
                                                                                                                                                                                                                                                                                                                                                                                                                     THE MOTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            POINT CATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DATA IFWO/3HFWD, 3HREV/
                                                                                                                                                                                                                                                                                                                                                        SUBROUTINES CALLED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REAL DUYMY(4,3)
                                                                                                                                     MOTION STUDY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ARCOS
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PAGE OC 32

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PAGE 0003
  13/23/27
                                                                                                                                                                                                                                                                                                                                     - SUBJECT NUMBER
- TOTAL NUMBER OF FRAMES FOR SUBJECT(INSB)
- LAST ERAVE OF FORMARD MOTION
- LAST ERAWES, IF ANY
- LAST FRAWE OF LEFT FORWARD MOTION
- LAST FRAWE OF RIGHT REVERSE MOTION
(141 A12 142 ARE USED IN MOTICNS INVOLVING LEFT AND RIGHT HANDS, CALY)
                                                                                                                                                                        START MAIN LOOP WHICH READS IN SUBJECT DATA AND COMPUTES PERCENTILES -- ONCE PER SUBJECT
  DATE = 75344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52 READ (5,1001) ((IPT(I),(DUMMY(I,J),J=1,3)),I=1,4)
IF (IPT(I),EQ,-1) 50 TO 55
IF (IPT(I),LT,K) I,01=IND1+1
                     DETERMINE PRIMARY HAND INVOLVED IN MOTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                READ (5,1002) INSB, "F,14,1FKM, 141,147 WRITE (6,1060) INSB, NF,14
                                                                                                                                                    WRITE (6,1059) MVMT, LCOP, ILR (LR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF (IFAM(IF1), EQ.0) GO TO 70
IF (IFAM(IF1), EQ.1) GO TO 50
IF (IF1, NE.1) GO TO 45
                                            M1=M05(MVMT,10000)
IF (M1-1100.GE.100) GO TO 20
  RHANLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WRITE (6,1361) (I, I=I1,12) IND2=IFRM(IF1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (IPT(I).E3.31 GC T3 52
                                                                                                                                                                                                          25 DO 33 INDL=1,NFRAME
DO 32 INDZ=1,MPOINT
RMPTX (INDL, INDZ) = 999.99
RWPTY (INDL, INDZ) = 999.99
30 RWPTX (INDL, INDZ) = 999.99
                                                                                                                          M1=M35(41,1003)
IF (41-103.6T.100) LR=2
                                                                                                                                                                                                                                                                                                                READ IN SUBJECT DATA INPUT VARIABLES -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               I1=IF3M(IF2-2) +1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12=1FRM( IF1 )-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IND3=IFRM(IF2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12=1FRM( 1F1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15 (IPT(I) E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 SUB = 1 SUB+1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INDI=IND2
                                                                                           GO TO 23
                                                                                                                                                                                                                                                                                MISIND=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GD TD 47
                                                                                                                                                                                                                                                                                                                                                               I FRM
                                                                                                                                                                                                                                                                                                                                         INSB
                                                                                                                                                                                                                                                                                                                                                                                      141
                                                                              L000P=4
                                                                                                      L000P=2
                                                                                                                                                                                                                                                                   LFRM=3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IF2=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   F1=1
                                                                    1=87
                                                                                                                  L2=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11=1
                                                                                                                                                                                                                                                                                           0=X
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PAGE DOCS
  13/23/27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTS(I,J) = 0 -- NO SURFACE POINTS READ CR CALCULATED FOR THE I-TH MOTION

PTS(I,J) = 1 -- 0NG OR MORE SURFACE FOINTS CALCULATED FOR THE I-TH POINT OF THE J-TH MOTION

(NOPTS(IND2,L),EQ.1) GO TO 113
                                FOR X, Y, AND Z VALUES
  CATE = 75344
                                                                                                                                                                                                                                                                                                                                 FOR TIME VALUES
                                                                                                                                                                                                                                                                                                                                                                                                                                      SUM2=SUW2+11**2

IF (IMIN.GT.I1) IMIN=I1

IF (IMAX.LT.I1) IMAX=I1

CONTINUE

FAN(L)=(SUM/NSUB)/10.

STO(L)=(SART((NSUB*SUM2-(SUM**2))/DENOM))/10.

MIN(L)=IMIN/10.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DO 130 I 471=1,ITIME
03 120 I 472=1,NPTS
IF (?TSU3(IND1,IND2,L),EQ.0) GO TO 120
                                                                                                                                                                                                                                                                                                                                COMPUTE MEAN AND STANDARD ERROR
                               COMPUTE MEAN AND STANDARD ERROR
                                                                                                                                                                         CALL MSTO (XPCT,XMEAN,XSTDV)
CALL MSTO(YPCT,YMEAN,YSTDV)
CALL MSTO(ZPCT,ZMEAN,ZSTDV)
 RMANLS
                                                                                                                                                                                                                                                             25PCT(1, J,K) = 0.0
X95PCT(1, J,K) = 0.0
Y95PCT(1, J,K) = 0.0
Z95PCT(1, J,K) = 0.0
                                                                        00 98 J=1,NPTS

00 98 K=1,LOOP

YMEAN(I,J,K)=0.0

ZMEAN(I,J,K)=0.0

ZMEAN(I,J,K)=0.0

XSTDV(I,J,K)=0.0

ZSTDV(I,J,K)=0.0

ZSTDV(I,J,K)=0.0

SSTDV(I,J,K)=0.0
                                                                                                                                                                                                                                                                                                                                                                                                       00 100 100 100 11 = 1 + NSUB
11 = FWDREV(IND+L)
SUM = SUM + 11
                                                                                                                                                                                                                                          X5PCT(I, J,K)=0.0
                                                                                                                                                                                                                                                    YSPCT(I, J,K)=3.0
                                                                                                                                                                                                         00 99 1=1,1TIME
00 99 J=1,NPTS
00 99 K=1,LOOP
                                                                                                                                                                                                                                                                                                                                                     000 140 L=1, LOOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTE DISTANCES
                                                               39 1=1,1TIME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VJPTS(I,J) = 0
                                                                                                                                                                                                                                                                                                                                                                            C.C=ZMUS
IMIN=999
                                                    95 CONTINUE
                                                                                                                                                                                                                                                                                                           CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                 C=XAMI
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PAGE 0006

RHAMLS

21

FORTRAN IV G LEVEL

13HSECS.

1051 FUR'AT (1H1,/

9:20

X 11H POSITION) ,53X,4HPAGE,13/)
1352 FORMAT (1H),15X,18HPOSITION OF POINT ,15// 1X,12HTIME SAMPLE,3X, 14(,6x,15HX - CO-035INATE,8X,3H) (,6X,15HY - 59-035INATE, 3x,3H) (,6x,1542 - CO-ORDINATE, 3x,16H) DISTANCE MOVED/ 14H MOTICN NUMBER, 16,3H ( , A4,1X, A3, RANSE ,F5.2,3H TO, F6.2,5HSECS./) PCT 2 SE MEAN

1.054 FORMAT (24 \*\*\* THE ,12,374 VERTICE FOR THE ANGLE BETWEEN POINTS, X 13,14,13,44 AND,13,33HEXCEEDS LIMITS AND IS REPLACED BY 1053 FORMAT (IM , F5.2,1X,15,3X,12(F6.2,2X),2F7.2) [3,4H \*\*\*)

0319

0318

1055 FORMAT (1HO,44H TIME(SECS) -- ANGLE(DEGREES) BETWEEN POINTS, 13, 181, CNA HP, 811, 13) ×

1957 FORMAT (20H \*\*\* LAST FFAME READ,13,23H DCES NOT CORRESPOND TO,
X 24H TOTAL NUMBER OF FRAMES,13,134, FOR SUBJECT,12,4H \*\*\*)
1958 FORMAT (1H1, 9X,29H3ACK AUGLE TO BE PROCESSED --,13/10X,

1059 FORMAT (1H-, 9X,6HMOTIGM,16,9H CONTAINS,12,13H SUBMOTIGNS, X 24HPRIMARILY INVOLVING THE ,44,5H SIDE) 1050 FORMAT (TH-,15X,14HSU3JECT NUMBER,13,9H CONTAINS,13,1H

1061 FORMAT (11H \*\*\* FRAMES,13,5H THRU,13,12H MISSING \*\*\*) (15,5(13,3F7.2),5(/4x,5(13,3F7.2))) 1362 FJR4AT × 0326

0328

0329

6H SECS.) 0332

34CUM) 1033 FJR 4AT (1H1)

95 PCT 1,4X, ,6HSIZE,N,2X,3(32H THINGS, 4X, 3HCUK)

5H SE35,2X

1056 FJRMAT (1H ,3X,F4.2,5X,F10.2)

n322

3323 .. 321

214FRAWES PER SUBJECT --, ISTIOX, 21HMAX NUMBER OF POINTS, 234TO BE READ PER FRAME --, ISTIDX, 22HMAX NUMBER OF POINTS, 35H TO BE PROCESSED PER TIME PERIOD --, IS) 25HMOTION TO BE PROCESSED --,16/10x,15HNUMBER OF TIME, 12HINTERVALS --,13/10x,15HTOTAL MUMBER OF, 29H SJ3JECTS TO BE PROCESSED --,12/10x,14HMAX NUMBER OF,

44HFRAMES. THE FORWARD MOTICN ENDS AFTER FRAME, 12

1063 FOR AAT (140,5%,3%4DA RCD NC SUBJ BA MWAT SUBMWMT)
1064 FOR YAT (14,7%,15,5%,12,3%,12,1%,15,6%,11)
1037 FOR WAT (141////////50%,164POTION NUMBER - ,15/63%,5HBACK , BHANGLE - .

12///40x,124SJ3-\*JVEMENT, 5x,12(1H-),9HTIME DATA,12(1H-)/57x,4HMEAN,5X,7HSTD DEV,11x,5HRANGE) ,3(6X,F5.2),4H TO ,F5.2, FJR44T (1H7,40X,A4,1X,43,1X 1381

3HJRDINATE, 3(:4-1,16H) DISTANCE MOVED/6X,1HT, 3X,6HSIZE, N, 1X,3(32H MEAN SE 5 PCT 95 PCT 1,4X,4HINCR,4X, 1382 FORMAT (1H3,42X,11HLAW3WARK - ,5A4,2H (,13,1H)//4X,4HIME,2X,

X 6HSAMPLE,2X,1H(,6(1H-),15HX - CO-ORDINATE,8(1H-),3H) (,

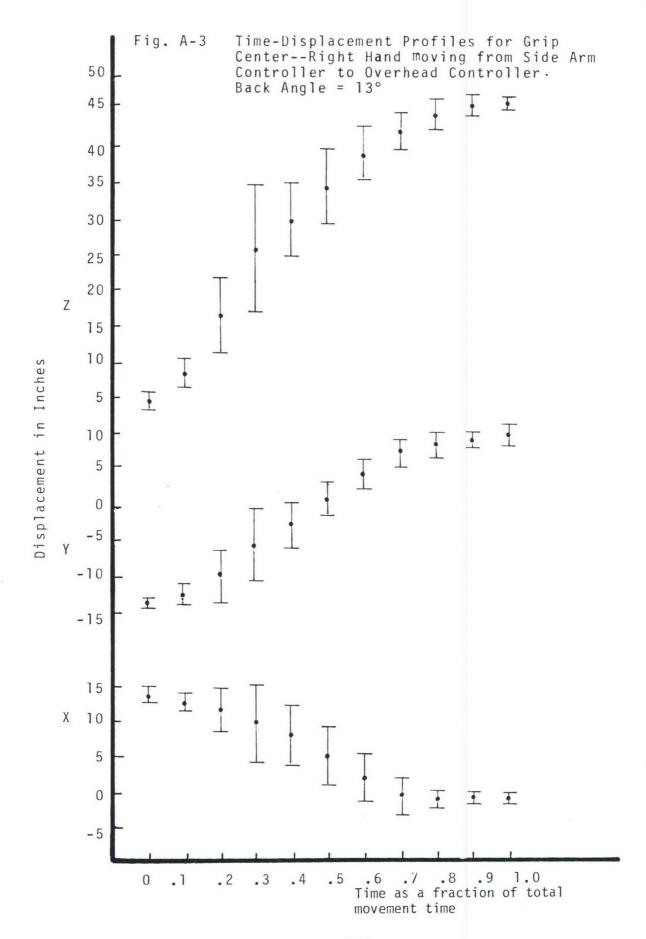
X 6(1H-),15HY - CO-ORDINATE,8(1H-),2H) (,6(1H-),7HZ - CO-,

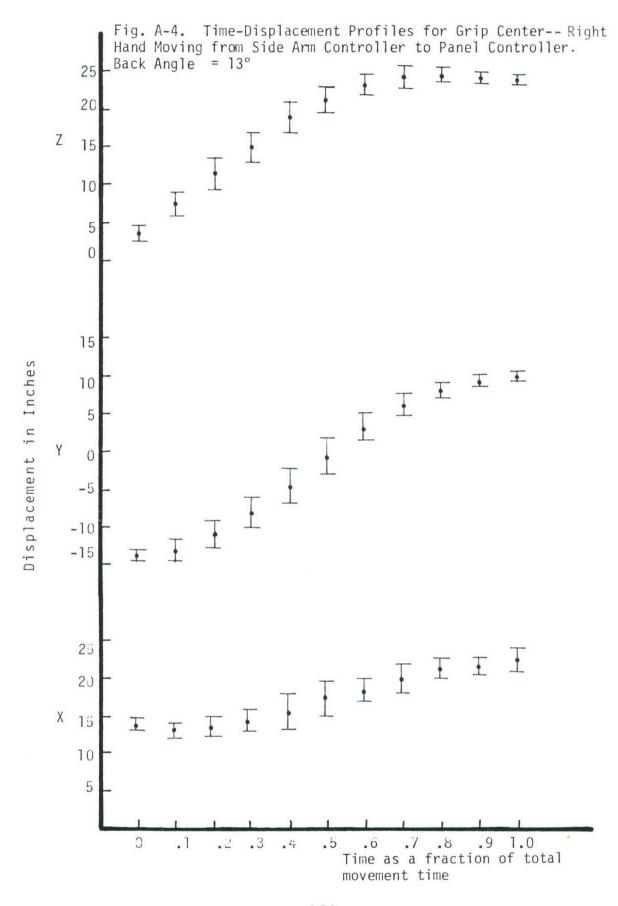
(14 ,1x, A1, 1x, F4.2, 17, 3x, 12 (F6.2, 2x), 2F7.2) (1H-/94 MVMT NO., 1X, 15, 1H/, 12) FOR 4AT (1215) (1H)

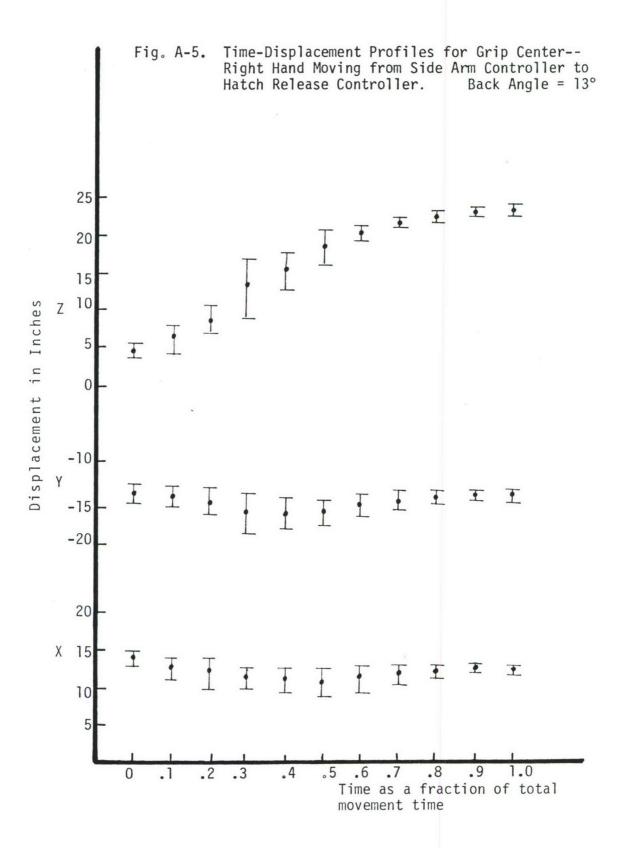
0325

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DETERMINE POINTS FOR EACH SUBJECT AT A SPECIFIED
                                                                                                                        CCMMON /PSMDTA/NSUB,NIME,LCCP,IPTS,PTSUB,TCL,NPTS,FWDREV,LR
CDMMON /SUBDTA/ISUB,NF,14,RWPTX,RMPTY,RWPTZ
                                                                 REAL RWPTX(40,30), RMPTY(40,30), RWPTZ(40,30),
XPCT(7,15,15,4), YPCT(7,15,15,4), ZPCT(7,15,15,16),
INTEGER FWDREV(7,4), IPTS(16,2), PTSUB(15,16,4), FRAME, MPTS(15)
                                                                                                                                                                                                                                                                                                                                        PLACE LOCATION OF POINTS AT END OF MOTION AT THE BEGINNING OF MOTION (I.E. AT TIME T=0.0 SECO:105)
                                                                                                                                                                                                                                                                                                                                                                                 IF (INIT.EQ.O) II=NF
IF (LO3P.EQ.4.AND.IND1.EQ.2) II=F4DREV(ISUB,3)+INIT+FRAME
IF (LO3P.EQ.4.AND.IND1.EQ.4) II=F4DREV(ISUB,1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              POINT = FRAME * FLOAT (IND3)/FLOAT (NTIME)
                                                                                                                                                                                                                                                                                                                                                                                                                                                     XPCT(ISUB,1,1,1ND1)=RWPTX(I1,1PYTR)
YPCT(ISUB,1,1,1ND1)=RWPTY(I1,1PNTR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZPCT(ISUB,1,1,IND1)=RWPTZ(I1,IPNTR)
SUBSOUTING INTERPIXECT, YPCT, ZPCT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CALCULATE FOR INTERMEDIATE POINTS
                                                                                                                                                                                                            00 100 IND!=1,L00P
IF (IND].6T.1) INIT=INIT+FRAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F (FACT.EQ.0.) GO TO 20
                                                                                                                                                                                                                                       FRAME=FWDREV(ISUB, INDI)
                                                                                                                                                                                                                                                     IF (LOOP.LE.2) GO TO 10
                                                                                                                                                                                                                                                                                IF (IND1.LE.2) GO TO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IF (PDINT.SE.).0) GO TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REY = FRAME - I POINT *NTIME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      II=INIT
IF (IV51.E0.1) II=NF
                                                                                                                                                                                                                                                                                                              IF (IND1.EQ.4) LR=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FACT=AMODIPOINT, 1.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IPDINT=AINT (POINT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BWILN ! L=EONI C6 CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OO 95 IND?=1,NPTS
                                                                                                                                                                                                                                                                                                                                                                                                                                       IPNTR=IPTS(I,LR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  I3=IPTS(IMD2,LR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      00 15 J=1,NTIME
                                                                                                                                                                                                                                                                                                                                                                                                                          STAN, 1=1 6 00
                                         TIME INTERVAL
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                           CT BAITUDABLIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MPTS(3)=0
                                                                                                                                                                                                                                                                     LR=3-1ND1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1+1111=61
                                                                                                                                                                  FRAME=0
                                                                                                                                                                                                                                                                                                                                                                    10 Il=INIT
                                                                                                                                                     C=LINI
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PAGE 3002
  13/29/27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        203 FORMAT (20X,24HPOINTS MISSING FOR POINT,13,13H, SUBMOVEMENT,13, X 18H, TIME PERIOD(S) ,1513)
                                                                                                                                         50
                                                                                                                        CHECK FOR BLANK CELLS
30 IF (PMPTX!!1,13).LT.900.0.AND.RWPTX!!2,13).LT.900.0) 30 TO
                                                                                                                                                                                                                                                                                                                                                                                                                                55 XPCT(ISUB, 131 , IND2, IND1) = RWPTX(11, 13) + ((RWPTX(12, 13)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         YPCT(ISU9, I31 , IND2, IND1)=RWPTY(I1, I3)+((RWPTY(I2, I3) - AMPTY(I1, I3))*FACT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZPCT(ISU3,131 ,IND2,IND1)=RWPTZ(I1,13)+((RWPTZ(I2,13)
   DATE = 75344
                                                                                                                                                                                                                                                                                          IF (II.GE.INIT.AND.IZ.LE.INIT+FRAME) GO TO 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MAITE (6,203) 13, INDI, (MPTS(J1), J1=1, MP)
                                                                                                                                                 F (3WPTX(11,13).LT.900.) GO TO 35
                                                                                                                                                                                                                                      IF (IND1.EQ.1) I1=NF
IF (3.4PTX(12,13).LT.930.) GO TO 40
                                                                                                                                                                           IF (INIT.EQ.O.AND.II.EQ.NF) I1=0
                                                                                                                                                                                                                                                                                                                                                       USE FACTOR AND DETERMINE POINT
                                                                                                                                                                                                                                                                                                                                                                                                                                             -RWPTX(11,13)) *FACT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -34PTZ(11,13))*FACT)
   INTERP
                                                                                                                                                                                                                                                                                                                                                                                            I31=IND3+1
IF (ISD.EQ.0) GO TO 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF (MP.EQ.0) GO TO 95
                                                                                                                                                                                                               F (11.NE.0) GO TO 35
                                                                                                                                                                                                                                                                                                                                                                                                                    FACT = (FACT+LS)/ISD
                                                                         CALC FOR EXACT POINT
20 I1=INIT+POINT
                                                                                                                                                                                                                                                                                                                 MPTS (MP)=IND3
                        11=41NT(A1)
                                                                                                                                                                                                                                                                             I + OS I = OS I
                                                                                                                                                                                                    1 SD=1 SD+1
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                                                                                                                                                                                                                                                                                                                                GO TJ 90
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                                     12=11+1
                                                                                                                                                               LS=LS+1
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                                                                                                                                                                                                                                                                   2=12+1
                                                                                                                                                                                        1=11-1
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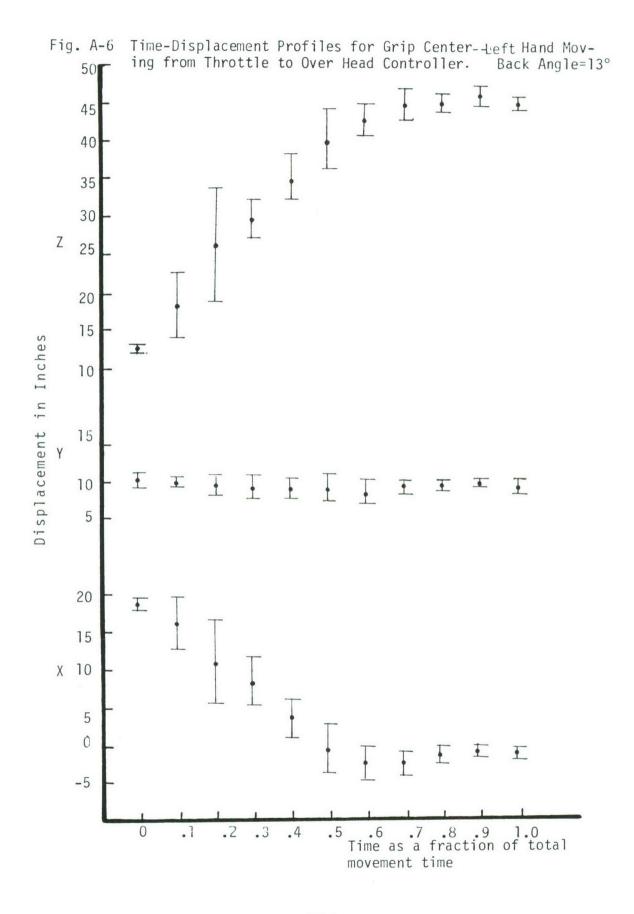
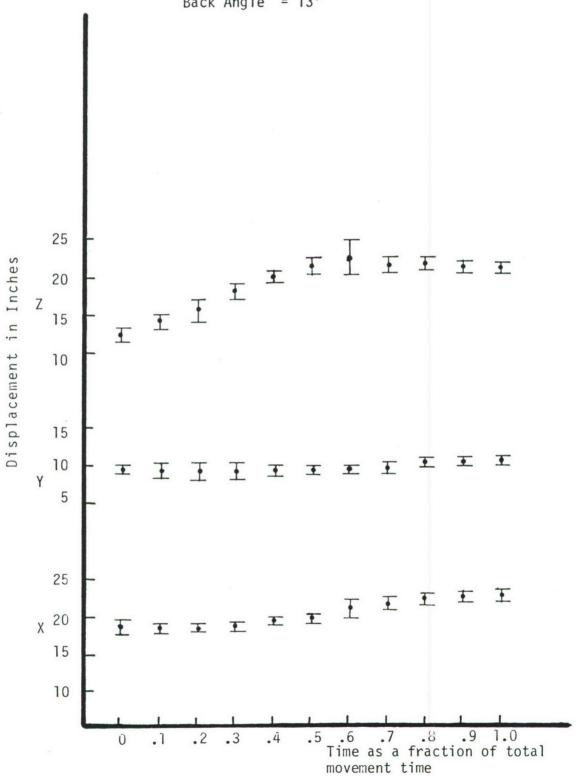


Fig. A-7. Time-Displacement Profiles for Grip Center--Left Hand Moving from Throttle to Panel Controller. Back Angle = 13°



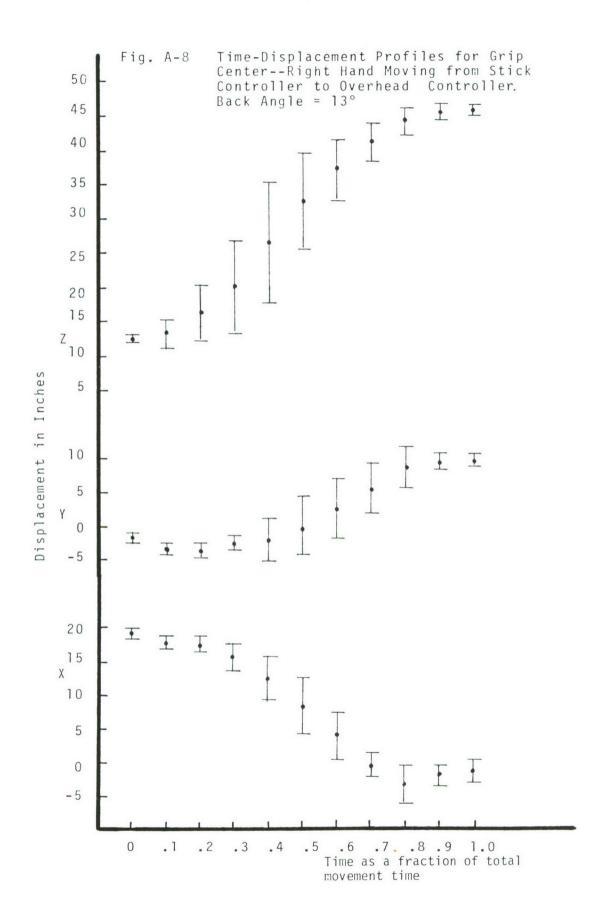


Fig. A-9. Time-Displacement Profiles for Grip Center-Right Hand Moving from Stick Controller to Panel Controller. Back Angle = 13°

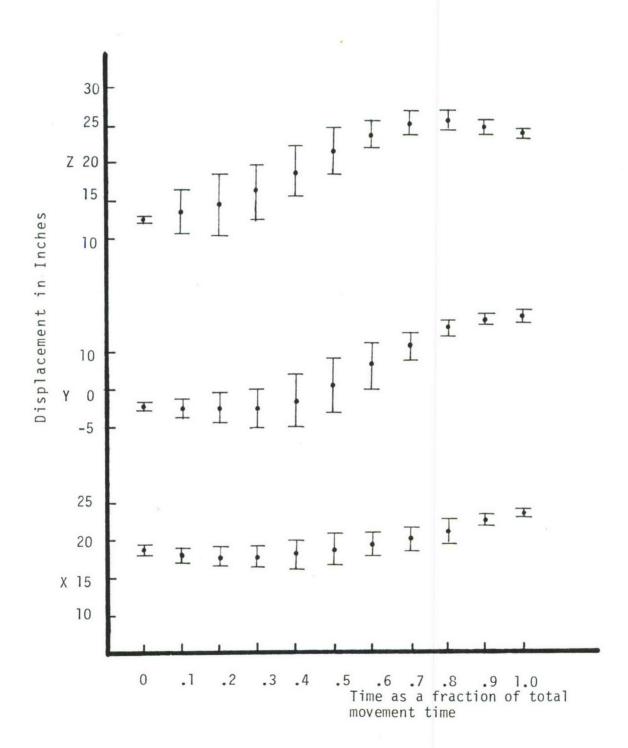
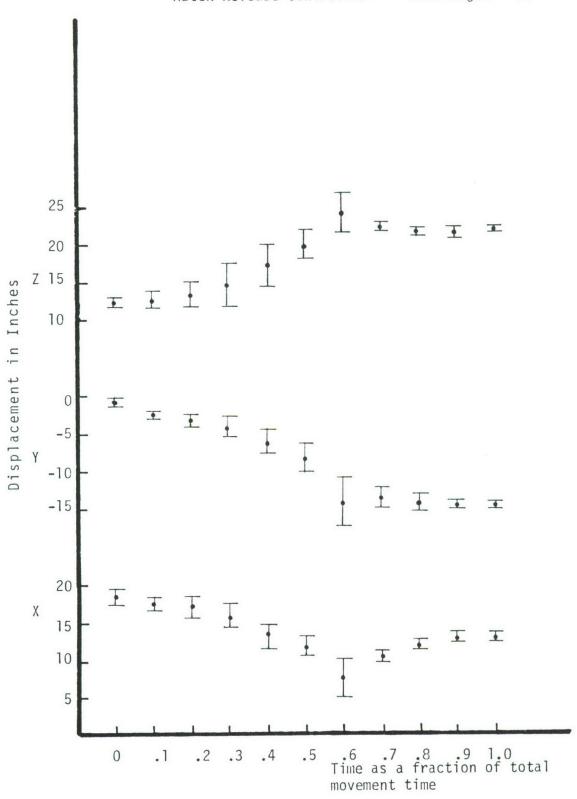


Fig. A-10. Time-Displacement Profiles for Grip Center--Right Hand Moving from Stick Controller to Hatch Release Controller. Back Angle = 13°



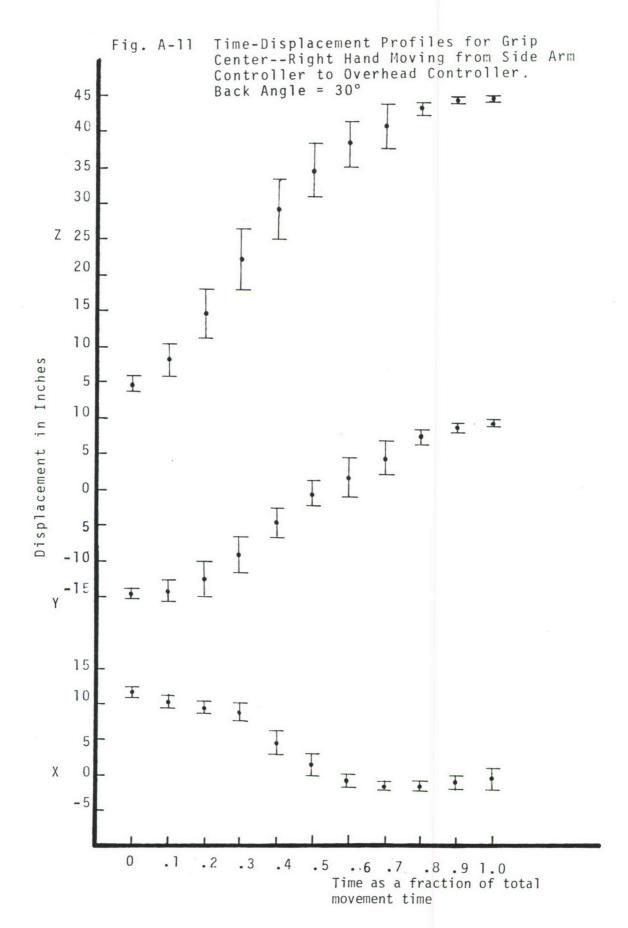
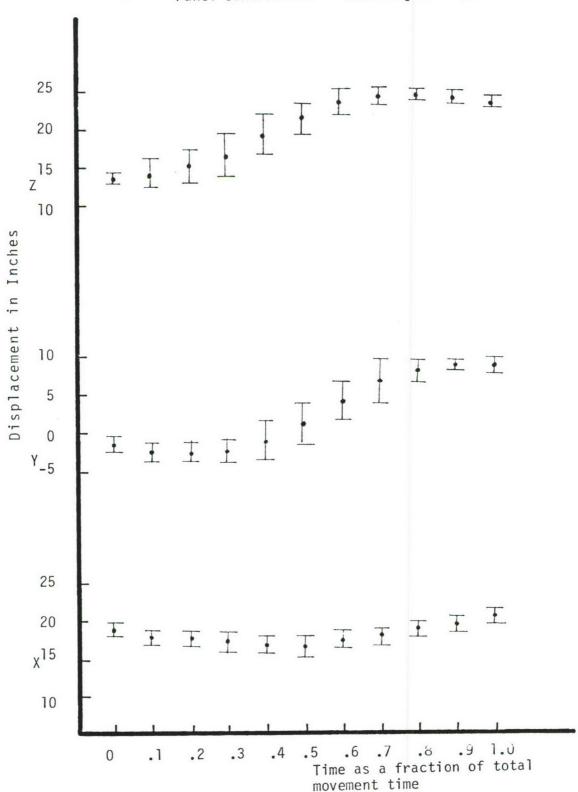


Fig. A-12. Time-Displacement Profiles for Grip Center--Right Hand Moving from Side Arm Controller to Panel Controller. Back Angle = 30° 25 20 15 10 Displacement in Inches Z 5 I I I 10 5 I T 0 -5 -10 I Ŧ Y -15 20 15 X 王 I 10 0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 Time as a fraction of total movement time

Fig. A-13. Time Displacement Profiles for Grip Center--Right Hand Moving from Stick Controller to Panel Controller. Back Angle = 30°



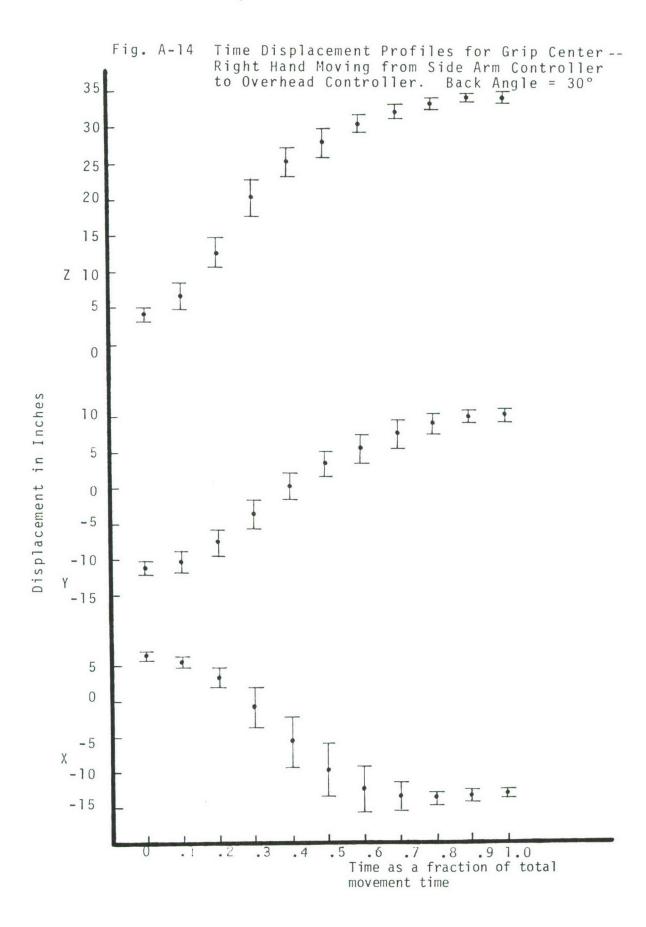


Fig. A-15. Time-Displacement Profiles for Grip Center--Right Hand moving from Side Arm Controller to Panel Controller. Back Angle = 30°

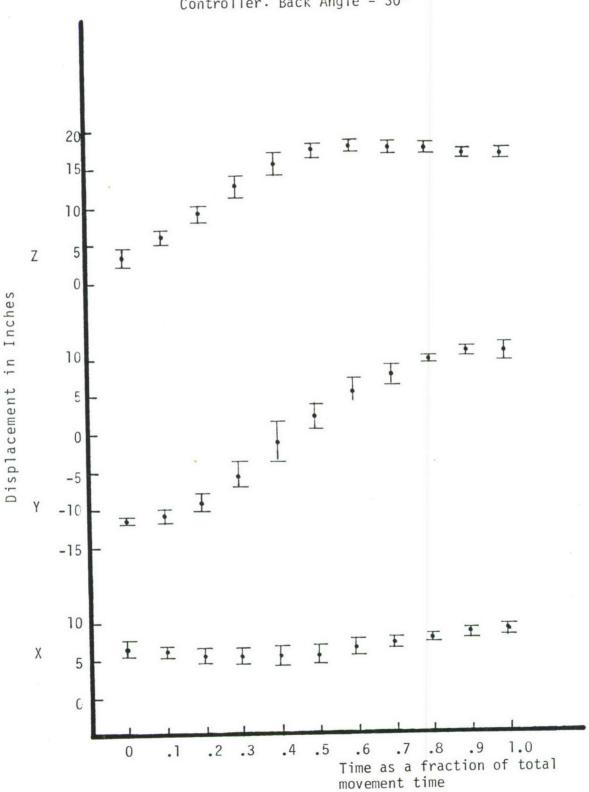
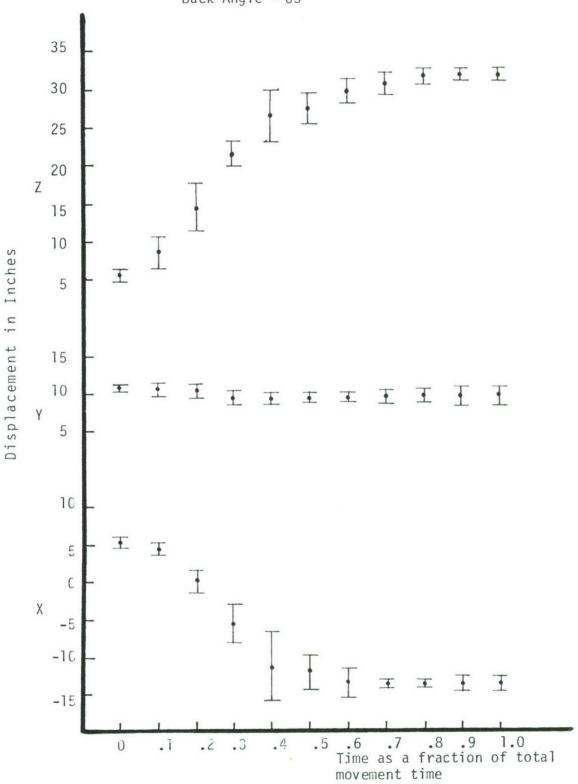


Fig. A-16. Time-Displacement Profiles for Grip Center--Hand Moving from Throttle to Overhead Controller. Back Angle = 65°



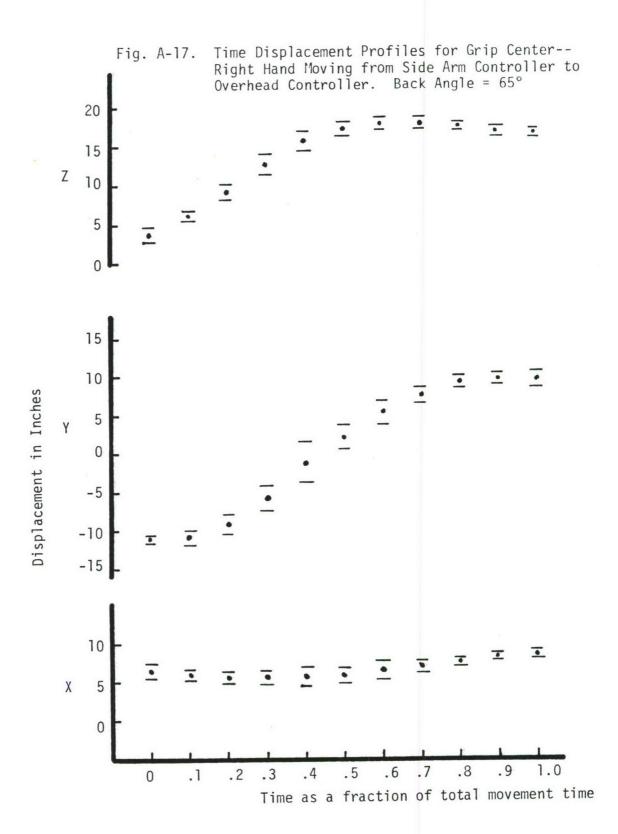


Fig. A-18. Time-Displacement Profiles for Left Grip Center--Movement is from Throttle to Stick Controller. Back Angle = 13° F F F F F F 16 14 Z 12 Displacement in Inches 10 I 10 8 6 4 2 0 20 I I I I X 18 16 .6 .7 .8 .9 1.0 Time as a fraction of total .1 .2 .3 .5 0 .4 movement time

Fig. A-19. Time Displacement Profiles for Left Elbow Center--Movement is from Throttle to Stick Controller. Back Anglé = 13°

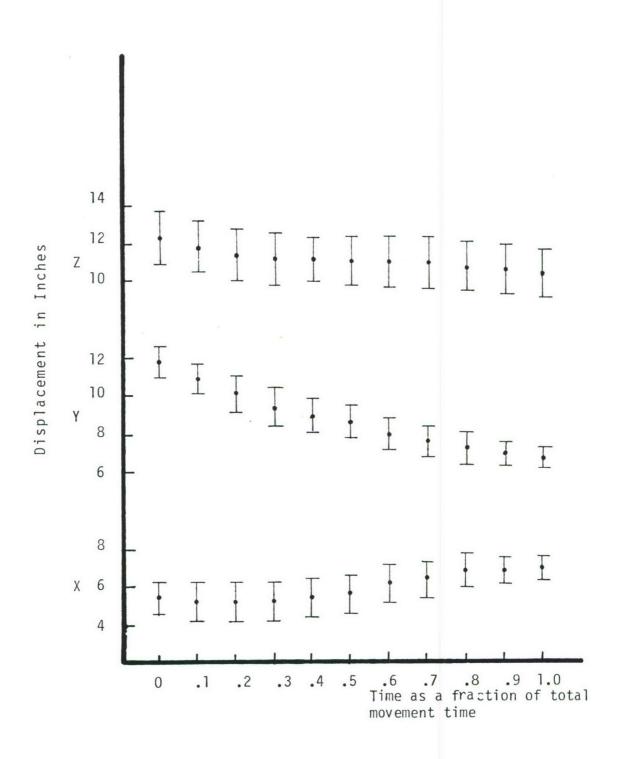


Fig. A-20. Time-Displacement Profile for Left Shoulder Center--Movement is from Throttle to Stick Controller. Back Angle = 13°

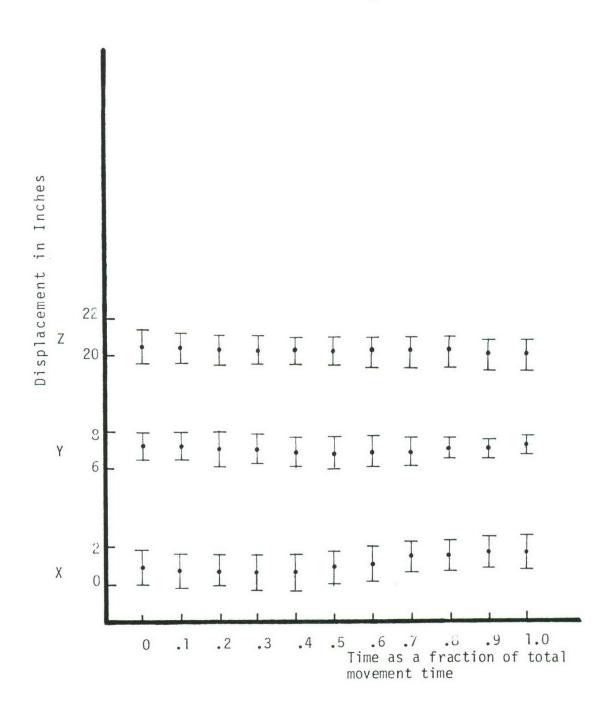


Fig. A-21. Time-Displacement Profiles for Left Grip Center--Movement is from Throttle to Stick Controller. Back Angle = 30°

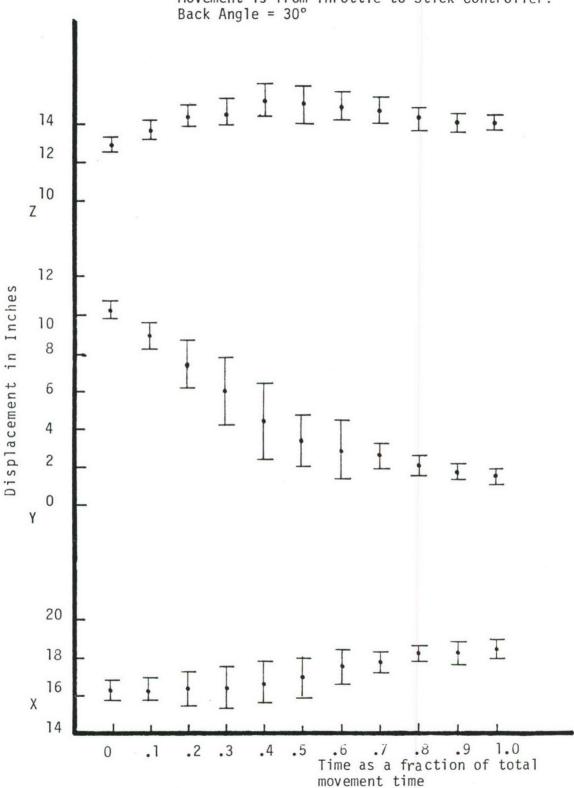
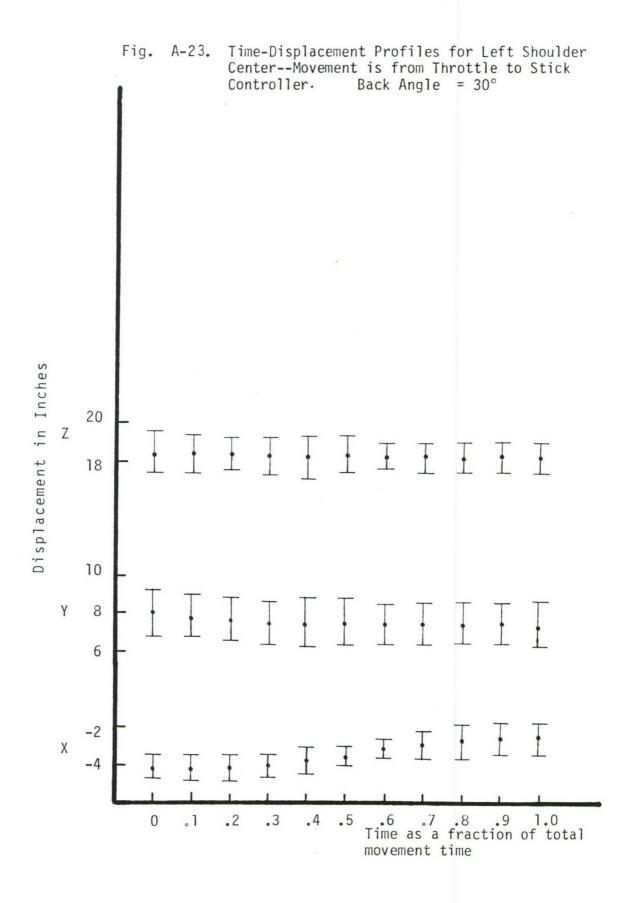


Fig. A-22. Time-Displacement Profiles for Left Elbow Center--Movement is from Throttle to Stick Controller. Back Angle = 30° 14 T T I I I I I I Z 12 Displacement in Inches 12 I I I I I I I 10 Y 8 6 4 8 I I I I I I I I 6 X 4 2 .1 0 .2 .4 .5 .3 .6 .7 8. .9 Time as a fraction of total movement time



## APPENDIX B PATHS OF MOVEMENT DATA

## PATHS OF MOVEMENT TABLES

The following pages contain the essential results of this investigation in tabular form. Each movement is described at the beginning of each set of data indicating the starting and ending points (locations of controller) and the hand that performed the movement. The next page contains a summary of time history of the movement and is followed by the data on paths of movement of the various body surface landmarks and/or joint centers. The data are presented as coordinates of each point of interest at successive time intervals of 1/10th the total movement time for forward or return phase. The x, y, and z coordinates are given with respect to the seat reference point (SRP) as origin. For each coordinate the standard deviation, the 5th and 95th percentile limits are presented (all linear measurements are in inches). The tabulated data also give the successive incremental distances and the cumulative displacements moved for each landmark.

The 5th and 95th percentile limits were obtained using mean values ± 1.645 times the respective standard deviations. It was assumed that the sample mean is an acceptable estimate of the population mean. Also the standard deviation of the population is related to the standard deviation of the sample according to the following:

$$\sigma = \sqrt{\frac{n}{n-1}} \quad S$$

where

 $\sigma$  = population standard deviation

s = sample standard deviation

n = sample size (when less than 30)

The above procedure for determining percentile values implies that the population distribution was assumed to be normal. Also referring to Table 5, it can be seen that the present sample compares favorably with the 1967 USAF survey data in most anthropometric variables measured. The small size of 7 makes is difficult to make any statements regarding the skewness of the distributions of these variables. As already stated, it was assumed that the locations (x, y, and z coordinates) of the various body landmarks are distributed in space according to normal distribution.

DATA FOR 13° BACK ANGLE CONFIGURATION

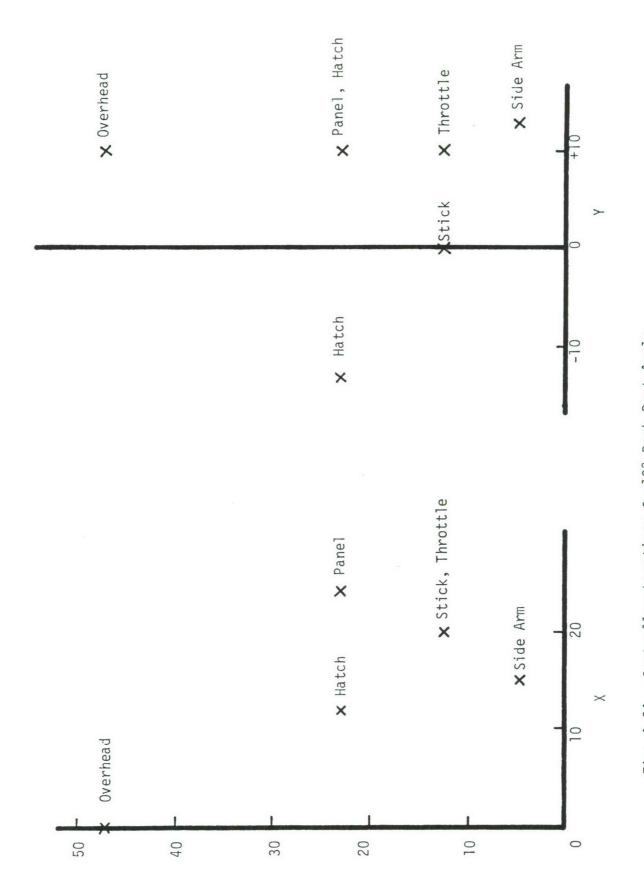


Fig. A-24. Controller Locations forl3° Back Rest Angle.

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 to Over-Head controller AT 0.0, +10.0, +47.3 and returns. This movement is preceded by Left hand moving from Throttle controller at +20.0, +10.0, +12.4 to Stick controller and is followed by Left hand returning back to Stick controller.

MUTICN NUMBER - 11130 BACK ANGLE - 13

SUB-MOVEMENT		TIME DATA	1	1 1 1 1	
	MEAN	STD DEV		RANGE	
RGHT FWD	1.06	0.26	0.80 TJ 1.50 SECS.	1.50	SECS.
RGHT REV	0.94	0.19	0.70 TO 1.30 SECS.	1.30	SECS

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MVMT NO. 11130/13

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3										-	-	11.22		0	2.6	4.0	6.4	5.5	6.3	7.0	8.0	80	7.6	10.05				MOVE	3	0.0	4.0	0.8	1.2	1.7	2.3	2.7	3.3	3.5	3.8	4.17		0.0	0.0	0.0	1.06	1.4	2.08	2.70	3.27	3.74	4.21	4.53
SANTOIG	OLA L	20.0	2.32	1.05	1.19	1.26	1.39	1.09	0.99	0.70	0.48	0.73		0.0	9.	.3	6.	9.	1.	1.	6	30	9	0.57				DISTANCE	INCR	0.0	64.0	0.37	0.42	0.46	0.62	0.40	0.58	0.53	0.33	0.28	c	2 0	0.0	0.15	0.38	0.38	0.64	0.62	0.57	14.0	14.0	0.32
	OF DCT	33.60	35.08	35.23	34.81	34.11	34.15	34.24	34.20	34.21	34.38	34.42		<b>J</b>	7)	"	<b>m</b>	4	4	34.04	3	3	3	33.60				(	95 PCT	26.06	25.65	25.47	25.58	25.53	25.35	25.12	26.00	25.82	25.96	25.98	36 98	24.70	10.02	40.07	20.00	26.01	25.89	25.89	25.99	25.92	26.04	26.06
ROINATE		27.49	27.42	27.81	28.86	30.21	30.71	30.76	30.90	30.68	30.19	29.98	000	20.63	46.67	28.83	28.33	27.82	27.70	27.63	27.30	27.33	27.66	27.49					5 PCT	22.09	21.93	21.99	21.70	21.64	21.94	22.56	22.05	22.18	22.12	21.96	21.96	22.10	31 73	21 010	33 00	50.22	22.41	22.83	55.54	22.35	22.33	25.09
- 00-08	SE	1.86	2.34	2.26	1.81	1.19	1.05	1.06	1.01	1.08	1.28	1.35	1 25	000	07.7	1.40	1.08	1.90	1.95	1.96	2.02	2.00	1.77	1.86				- CU-UK	SE.	17.1	1.13	1.06	1.18	1.19	1.04	0.78	1.21	11.1	1.11	1.23	1.23	1.21	1 4 8	1 20	1 10	41.7	1.04	0.93	1.05	1.08	1.13	1.21
7)	MEAN	30.55	31.25	31.52	31.34	32.16	32.43	32.50	32.55	32.45	32.29	32.20	32.23	21.60	20.00	67.10	20.10	30.93	30.89	33.85	30.51	30.51	30.55	30.55				7	MEAN	24.08	23.19	23.73	23.54	23.59	23.65	23.34	70.47	00.47	40.47	76.67	78.97	24.39	24-16	22.25	26.26	00.47	97.47	24.35	17.47	54.14	24.18	24.08
( 11	95 PCT	3.37	3.73	4.53	4.73	5.18	5.36	5.73	6.38	6 • 83	7.18	7.74	7.74	7 60	100	000	0.	41.7	61.	6 . 84	5.73	4.52	3.84	3.37		2)		100	- DO -	1.00	1.99	2.93	3.43	3.93	4.37	4.08	0.00	0.40	0.00	2.68	5.68	5.55	5.78	5 84	2 . 4	7 20	70.4	3.51	6.10	10.7	1.50	1.05
RD INATE-	5 PCT	-0.56	-3.34	-3.03	16.1-	-1.30	-0.28	0.45	0.10	1.26	1.17	5.66	2.66	2.45	2	1 07	10.4	1.024	1.03	0.52	0.38	0.11	-0-12	-0.56			24444	100		VO.01	76.1-	-1.15	16.1-	-1.71	19.1-	10.1-	01.1	16.01	00.00	00.0-	-0.06	-0-12	-0-11	0.27	-0-0B	000	000	300	10.0	71.0-	10.44	-0.59
	SE	1.20	2.16	2.31	40.7	7.	71.1	79.1	1.13	1.70	1.65	1.55	1.55	1.60	1.52	100	12.	100	0 0	1.93	1.63	1.34	1.51	1.20		W.	0000		200	200	00.	1 45	1.05	1. 11	79.1	76.7	1 03	1 05	1007	1.13	1.75	1.73	1.80	1.70	1.70	1.40	100	70.0	10.0	20.0	60.0	0.50
- NASION	MEAN	1.41	0.20	0.75	1.38	46.7	40.7	20.0	3.04	4.04	4.48	5.20	5.20	5.07	4- AD	4 4 8	4 34	4.01	7701	000	2000	2.31	1.86	1.41		- CERVICAL	>	MEAN	0.23	20.0		60.0	2.0	07-1	1.50	2 11	2 2 2 4	2 54	200	10.7	2.81	2.71	2.84	3.06	2.70	2.23	00-1	1.38	0 0	0.10	00.0	0.23
LANDMARK	95 PCT	9.93	8.71	8.52	76.	0.00	10.4	66.2	77-1	0.00	08.0	0.99	0.99	5.75	6.74	7-04	7.25	7.80	200	11.0	7.10	9.12	7.31	9.93		LANDMARK -	(	95 PCT	0.47	0.73	1 24	0.55	000	87.0	1001	000	-1.28	-1-14	-1 22	67.7	-1.23	0	o	0	0	0	6	-0-47	6	30	100	***
	5 PCT	2.76	0.27	-1.65	12.51	13.80	-4-16	14.12	67.4	-4.03	06.41	-2.26	-5.26	-4.88	-3.26	-1.84	-0.87	00-0	0.70	1 21	77.7	70.7	2000	7.10		_	DINATE	S PCT	-2.40	-3.44	- 3 7B	-3.82	20.02	77.4	- 4 B1	-4-61	-4.59	-5.08	-5.01	-	-5.01	-4.29	-4.46	-4.15	-4.46	-3.92	-3.01	-2.26	-2.12	-2.02	100	04.7
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9	.2	6	1.2	80	6.9		8.6	5.3	3.3
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9	1.6	.3	3.8	0	4.7		7.1	2.2	2.1
9	2.6	.3	4.7	0.4	3.9		6.5	1.6	5.5
2	2.8	.5	5.3	3	3.3		5.1	1.5	5.5
5	2.9	1.	5.7	0.1	2.8		6.4	2.0	5.7
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A 8.0	LSIANC	2 2 2		2.01	4.03	6.30	7	7 16	07.1	7.0	60.0	1.00	98.0	0-0	2.38	3.50	47.7	707	- 0	00.0	5 73		10.7	0 0				DISTANCE	INCR	0	.3	.3	0.13	7		10	-	1 -	0		0	.2	0.16	2.	-	7.	7.	-	7
	0.00	13 70	16 40	23.00	32.31	40.98	44	44.42	45.62	47 53	44 00	10.00	10.0+	46.61	45.72	43.43	41.11	37.26	32.40	26.51	20.40	16.22	13.05	13.79				(	95 PCT	4.88	4.62	4.14	4.73	7104	4.10	4.84	4	16.4	4.95		4.95	4.76	4.19	78.4	10.1	100	000	4.00	000
ROINATE-	S OCT	11.02	10.83	10.02	9.89	12.14	20-80	30.22	36.50	41.86	44.02	45 22	17.66	45.22	42.22	39.55	37.00	32.81	25.53	17.82	12.88	11.59	12-10	11.92				ORDINATE	5 PCT	2.73	2.17	2.91	2.95	2 00	00.6	2.93	2.99	3.06	3.07		3.07	3.15	3.04	0000	2 01	2000	2 01	2.75	1.00
0-00-	) \ ) \ )	0.57	1.72	3.96	6.84	8.79	7.07	4.33	2.78	1.73	06-0	0.42	71.0	0.42	1.07	1.18	1.26	1.36	2.16	2.65	2.29	1.41	0.56	0.57				- C0-09	SE	0.65	0.56	0.56	0.04	25.0	0.54	0.58	0.61	0.57	0.57		0.57	0.00	0.00	200	0 0	0.52	25.0	0.64	
()	MFA	12.8	13.5	16.51	21.1	26.5	32.4	37.3	41.0	44.7	45.5	45.9		16.54	43.97	41.49	39.36	35.33	29.17	22.16	16.54	13.90	13.32	12.05				7)	MEAN	3.81	3.70	3.83	3.04	30.6	3.31	3.88	3.99	3.98	4.01		4.04	1 × × 0	76.0	30.6	3	40.6	3.85	3.81	
()	95 PCT	-1.25	-2.04	-2.00	-0.47	2.98	6.85	9.70	11.77	13.52	10.81	10.74		10.74	77.6	8.02	6.63	4.43	1.63	0.14	-1.31	-1.51	-1.22	-1.25		(18)		(	95 PCT	97.9-	10.40	60.61	-6-22	-6.01	-5.99	-6.18	-6.13	- 3.16	-6.15	31 7-	15.6	10.00	21.9-	-6.21	-6.34	-6.12	-5-94	-6.26	11.1
2	5 PCT	-2.27	-4.10	-4.82	-5.50	-7.11	-6.93	-4.13	19.0-	4.08	7.28	8.15		8.15	6.35	3.65	0.02	-2.37	-4.68	-6.46	-4.64	-2.80	-2.26	-2.27				UKU INATE	> PCT	67.6-	60.01	10.01	60.6.	-9.08	-8.95	-8.91	-8.81	-8.70	-8.67	-B 47	10.01	-B. 70	188	-8-84	-8.98	-9.22	-9.38	-9.15	1
0-00 -			0.63	0.86	1.54	3.08	4.20	4.22	3.79	2.88	1.08	0.79		0.79	1.04	1.33	2.01	2.08	1.53	2.01	1.02	0.39	0.32	0.31		RI TROCHANTER		5 :	300	26.00		0.82	0.86	0.94	06.0	0.83	0.82	0.77	0.77	77	0.95	0.70	0.84	6.80	0.83	0.95	1.05	0.88	
λ)	MEAN	-1.76	-3.07	-3.41	-2.98	-2.06	10.0-	2.79	5.55	8.80	9.05	9.45		6.45	8.06	5.83	3.33	1.03	-1.53	-3.16	-2.97	-2.15	-1.74	-1.76		- RI IRO		1	T 70	-7.67	-7.37	-7.46	-7.62	-7.55	-7.47	-7.54	14.1-	-7.43	-7.41	-7.41	-7-41	-7.55	-7.50	-7.52	-7.66	-7.67	-7.66	-7.71	
(	95 PCT	20.73	19.48	19.38	18.78	17.69	15.58	65.6	2.15	0.74	0.41	0.93		0.93	96.0	3.25	7.35	12.88	17.02	19.28	20.82	20.85	21.04	20.13		ANDMARK		100	5 PC	40.4	5.84	5.34	5.35	4.82	5.45	5.13	4.90	5.60	5.35	5.35	4.85	4.57	5.00	5.36	5.79	6.27	5.82	5.72	-
SO.				15.64		1.50					-4.09		,	-3.33	-3.55	-3.11	-2.35	2.82	9.14	15.76	17.25	17.80	17.78	18.01		7	- OBDINATO	A DOT	2, 22	2.66	1.66	2.36	2.67	2.74	2.39	2.62	2.80	2.46	61.7	2.73	2.83	2.97	2.89	2.62	2.44	2.33	2.49	2.38	2 23
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	OVED	HOU O	40.0	00.0	0.21	0.30	54.0	66.0	69.0	0.11	0.93	1.03	0.0	0.10	0.24	0.33	0.38	0.50	0.57	11.0	16.0	1.03	1.08		OVED	CUM	0.0	0.83	1.40	2.24	3.51	5.10	6.78	9.70	0.64	0.92	0.0	0.85	1.68	2.87	4.45	6.51	8.02	60.6	9.81	0.24	0.50
	<del>У</del>	NC R																			0.20				STANCE									01.1	-	1	0	.85	.83	.18	.55	60.	.51	90.	.72	.43 1	.34 1
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	INATE	5 PCT	9.78	9.88	96.6	9.87	26.6	9.88	16.6	46.6	6.62	9.88	9.88	9.87	9.80	6.61	26.6	6.64	9.85	9.82	9.13	7.0	69.6		INATE	5 PCT	18.56	17.76	18.15	18.15	18.64	19.59	21.55	23.82	23.61	23.68	23.68	24.46	24.50	24.31	23.57	21.72	20.39	19.40	18.80	18.58	18.56
	~	SE											0.95	0.98	66.0	0.93	0.91	06.0	96.0	96.0	1.00	200	1.02		JR.C											1.79	1.79	1.56	1.35	1.09	0.76.	0.86	0.85	0.85	0.89	0.82	69.0
	7	MEAN	11.36	11.39	11.41	11.38	11.40	11.39	11.43	11.48	11.51	11.44	11.44	11.46	11.42	11.50	11.40	11.43	11.43	11.39	11.37	00.11	11.36		7	MEAN	19.69	19.80	20.27	21.36	22.29	23.70	25.15	26.87	26.67	26.61	26.61	27.32	26.71	26.10	24.81	23.13	21.78	20.80	20.26	19.93	19.69
102	) (	35 PCT	1 2	.51	.58	44.	14.	.43	.30	• 36	.18	•16									14.15			221	) (											-1.20	-1.20	-0.58	-1.20	-1.98	-2.22	-4.02	-5.27	-5.74	-6.63	-6.54	-6.43
_	1	5 PCT																			66.8-			TER (	i	_										-3.76	-3.76	-5.07	-5.62	-6.19	-7.20	-7.37	-7.35	-7.56	-7.65	-8.04	-8.48
T0P	CRD	SE	35	43	. 33		040	040	64.	24.	64.										1.29			SHOULDER CENTER	- CO-ORD INAT	SE	0.62	09.0	0.93	06.0	1.17	1.48	1.73	1.18	1-69	0.78	0.78	1.37	1.35	1.28	1.52	1.02	0.63	0.55	0.32	0.40	0.62
RT KNEE	A	MEAN	-6-81	-6.85	-6.77	-6.80	-6.78	-6.73	-6.75	69.9-	-6.62	-6.55	-6.55	-6.59	-6.65	-6.61	-6.64	-6.72	-6.19	-6.72	-6.87	11.0-	-6.19	F.	J	MEAN	-7.46	-7.48	-7.20	-6.92	-6.60	-6.16	-5.26	13.48	-2.75	-2.48	-2.48	-2.82	-3.41	60.4-	-4.71	-5.69	-6.31	-6.65	-7.13	-7.29	-7.46
ANDMARK -	_	95 PCT											21.75								21.24			LANDMARK -	) (	_										1.28	1.28	2.07	2.96	3.83	4.76	5.32	4.84	3.98	4.07	60.4	3.93
LA	i	5 PCT	7.61	7.64	7.17		1.18	1.10	7.81	7.76	7.58										17.57			LA	INATE	5 PCT	1.82	0.79	44.0	0.53	0.14	-0.36	-1.91	-2.30	-3.25	-3.34	-3.34	-2.79	-2.71	-2.05	-1.79	-0.81	0.25	1.54	1.59	2.01	1.82
	- CO-ORD	SE	1.14	1.12	1.09	1.12	1.05	1.19	1.08	1.12	1.31	1.24									1.12				- CO-ORD		.64	.77	.89	17.	16.	. 03	. 78		36	. 41	1.41	1.48	1.74	1.79	2.00	1.87	1.40	0.75	0.76	9.0	9.00
	X)	EC	0	19.48	6	19.64	16.61	19.66	19.51	19.60	19.14	19.72	19.72	19.57	19.54	19.58	19.59	19.61	19.65	19.53	19.41	04.67	16.51		X)	EAN	.8	0.	6.	1.	1.	3	0	7.		-1.03	0	33	7	8	4.	.2	.5	2.76	8	0	00
	SAMPLE	SIZE,N		. ~	1	1	- 1	_	~ 1	1	7	1	7	7	7	7	7	7	1	-	- 1	- 1	-		A	7		7	7	7	7	7	7		7	7	7	7	7	7	7	7	7	7	7	7	7
	TIME	<b>-</b> 0		0	0	R 0.40	0	0	0	0	06.0	1.00	0	-	0.2	3	0.4	0.5	0.0	0.7	N 0 80		0		TIME	-			0	0	0	0	0		3	1.00	0.0	0.10	0.20	0	0	0	0	R 0.70	0	06.0	1.00

UNED	NI C	0.0	1.63	2.88	6.25	**************************************	14.30	60.17	25.90	30.15	32.15	33.12	0.0	2.77	5.59	0.17	. 6.25	22.68	7.50	56.65	31.19	31.84	32.20		TOVED	1	50	2.0	7.07	79.4	4.13	22.02	78.38	32.70	36.86	38.85	39.57	0	2.14	5.47	0.00	4.35	23.74	17 02	30.41	52.65	51.45	38.41	38.71
DISTANCE	)	0.0	1.60	1.28																			0.35		DISTANCE	0 0 14 1	200	0.0	71.7	2.11	0 0 0	7.83	6.36	4.32	4.16	1.99	0.72	0	40.0	7.33	2 0	. 0	. 0		,	0 0	0 0	m (	0
		13.78	14.06	16.49	24.05	30.69	11.16	57.15	38.25	31.69	37.66	31.43	37.43	37.02	35.34	33.41	29.19	23.95	20.05	16.75	15.38	14.05	13.78		(	DE DET	32 PC	15.06	00.00	21 71	36.47	80.04	40-46	43.03	43.39	43.77	43.61	17 67	43.35	47.17	39.17	34.66	30.16	24.75	50.47	14.35	11.01	14.04	13.71
	)	7.73	8.23	8.06	7.08	50.00	10.00	23.62	28.90	33.92	35.11	35.89				29.74							7.73		DINATE	)	200	10 - 11	7.07	9.40	13.64	23.44	32.75	34.45	39.05	41.31	45.35	72 67	40.25	37.37	34.55	20.11	22.85	16 18	27.07	1 03	11.03	11.23	11.01
×		1.84	1.78	2.57	5.17	7.63		87.4	2.85	1.15	0.78	0.41	14.0	0.51	0.49	1.12	1.83	2.52	3.00	2.38	2.08	1.83	1.84		- C0-08		2000	0.00	1.0	4.00	7.00	5.13	2.35	2.62	1.32	0.75	0.38	000	0.95	1.45	1.41	1 30	2 2 2	2 57	70.7	47.7	1.22	0.86	0.83
/	MEAN	10.76	11.14	12.28	15.56	91.12	66.67	30.24	33.58	35.80	36.39	36.56	36.56	36.18	34.53	31.57	26.18	19.82	15.13	12.84	11.56	11.05	10.76		()	MCAN	MEAN	12.50	13.30	51.01	20.00	31.86	36.50	38.74	41.22	45.54	45.98	0	47.80	20.75	26.86	20.00	26.50	07 00	20.40	15.51	15.51	12.53	12.30
(+7	35 PCT	-5.73	-6.04	-6.48	-7.37	-5.84	17.4-	-1.53	0.81	1.65	2.31	2.19	2.19	-0.19	-1.15	-4.25	-6.21	-7.06	-6.06	-5.70	-5.44	-5.45	-5.73	26)		1 70 30	75 PC-	24.7-	10.7	-2.38	70.0	2 82	20.0	8.58	9.18	9.11	8.98	0	7.60		3.72	1.27	1 2 0 -	000	-1.95	50.7-	26.5-	-2.32	-2.45
DINATE	5 PCT	0.64 -7.84	-10.11	-10.52	06.6-	+6.01-	10.63	04.01-	-8.82	18.4-	-2.59	-0-11	-0.17	-3.20	-5.37	-6.78	-8.69	-9.72	-9.93	-9.25	-8.87	-8-45	-7.84	~	OINATE	100	) PC	67.4-	00.00	10.00	70.01	47.4-	71.4-	-1-68	2.51	5.39	94.9	,,,	04.0	7.00	10.40	27.07	12.57	10.41	12.81	10.67	14.4-	-4.52	-4.23
OW CENTER	2 A	0.64	1.24	1.23	0.17	1.43	2.00	2.10	2.93	1.99	1.50	0.00	06.0	0.92	1.29	0.77	0.76	0.81	1.18	1.08	1.05	0.92	0.64	ST CENTER	040-05	200	200	0000	0 0	1.07	7 75	200	3.24	3.13	2.03	1.13	0.77		0.84		1.26	1 22	1 24	1 20	1.20	16.0	14.0	0.67	0.55
- RT ELBOW	MEA	-6.78	-8.07	-8.50	-8.64	61.8-	50.1-	-5.96	-4.01	-1.61	-0-14	0.71	0.71	-1.70	-3.26	-5.51	-7.45	-8.39	-8.00	-7.47	-7.15	-6.95	-6.78	- RT WRI	X		MEAN	-3.32	77.4-	61.4-	13.5	4 11	0	3.45	5.85	7.25	7.72	,	1.12	67.0	1 65	1.00	000	7.00	-3.91	-4.16	-3.10	-3.45	-3.32
LANDMARK	95 PCT	9.02	8.33	9.45	12.00	14.74	12-06	11.50	8.76	4.45	3.32	2.67	2.67	4.65	8.43	11.03	12.40	12.72	12.12	10.43	9.81	6.47	5.05	ANDMARK			95 PC	11.00	10.20	15.66	13.00	11 54	11.30	4.44	1.25	1.39	1.76		1.76	10.7	0.00	7.00	16 17	71 - 27	17.65	17.96	18.13	18.00	17.66
	S PCT	5.52	4.48	4.20	3.10	2.24	66.4	3.21	1.44	0.32	-1.00	0.43	0.43	1.02	0.56	3.31	6.03	6.07	4.63	4.90	5.07	5.30	5.52	_	DINATE	100	2 701	14.04	13.40	12.93	11.41	0.13	4.90	-0-48	-1.94	-3.06	-2.74	,	-2.74	70.1-	75.00	17.0	01.4	76.0	11.95	13.70	14.11	14.48	14.64
_	2 4	70	11	69	11	31	9	23	53	56	35	68	0.68	1.11	2.40	2.36	1.94	2.03	2.28	1.69	1.44	1.27	1.07		TAMINACION	2000	SE	76.0	0.85	0.83	1.09	1000	2 16	1.50	0.97	1.35	1.37		1.37	1.63	2 40	10.7	79.7	7.01	1.74	1.35	1.21	1.08	0.92
	MEAN	7.27	6.40	6.81	7.55	8.49	8.52	7.42	5.10	2.38	1.16	1.55	1.55	2.84	4.50	7.17	9.22	9-39	8.37	7-66	7.44	7.38	7.27			×				14.29			97.8	100	-0-35		65.0-		64.0	n -	-4 4	0 0		2.3	00	5.8	5.1	6.2	6.1
3	SATE	-	7	7	7	7	-	-	7	7	7	9	9	9	7		7	7	7	7	7				1077	SAUFLE	SIZE,N	91		- 1	- 1	- 1		- 1	7	7	7			- 1	- 1	- 1	- 1	- 1	- 1	7	9	9	9
3	111	0.0	0.10	0	0 0.30	0	0	0	0	0	06.0	1.00	0.0	-	1	0 0	1	0	000				1.00			THE	-	0.0	9	F 0.20	0	0	0	0	0	0	1.00		0.0	- "	0.5	0	4.0	0.5	09.00	0.7	9.0	6.	5

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 to Over-Head controller AT 0.0, +10.0, +47.3 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MOTICN NUMBER - 1213J BACK ANGLE - 13

-	SUB-MOVEMENT RGHT FWD	MEAN 0.97	TIME DATA STD DEV 0.14	. 80	TO TO	20 SECS.
-	10VEME	<u>-</u>	MEAN 0.97	MEAN 0.97	TIME DATA MEAN STD DEV 0.97 0.14 0.80	 TIME DATA

	TOVED	0.0	6.21	7.85	10.67	11.70	12.41	13.18	13.63	67.47	64.4 T	0.0	3.62	5.31	91.9	8.29	9.76	77.11	15.49	12.92	13.59	13.75		CHOVED	COM	0.0	0.74	1.13	1.72	2.15	2.40	59.7	3.6.5	000	4.16	0.0	0.49	0.56	96.0	1.54	2.11	2.89	3.48	4.00	4.58	4.76
	DISTANCE	0.0	6.21	1.65	1.34	1.03	0.10	0.17	0.45	90.0	0.30	0.0	3.62	1.69	1.45	1.53	1.47	1.40	1.51	0.43	19.0	0.16		DISTANCE		0.0	97.0	0.39	09.0	0.43	0.54	3.25	34.0	000	0.34	0.0	64.0	0.07	0.40	3.58	0.56	0.78	0.59	0.61	0.50	0.18
	(	30.78	33.49	34.25	35.32	35.55	35.17	34.96	34.78	34.11	34.56	34.56	34.76	34.91	34.62	33.54	32.58	31.11	31.19	30.98	30.54	30.78		] [	5 PCT	S	5	5	5	5	5	S	U A	n u	25.70	5	in	S	5	2	2	5	55.69	5	0	5
	JIVATE	25.83	29.16	29.75	29.94	29.88	30.15	30.25	30.06	30.20	30.16	30.16	28.79	78.00	27.38	27.35	27.18	70-17	71.97	25.48	26.08	25.83		DINATE											22.00	22.	21.95	22.17	22.49	22.48	22.31	22.21	21.92	21.73	21.63	21.53
	Z - CU-0R)	1.51	1.32	1.50	1.64	1.73	1.53	1.43	1.44	1.39	1.34	1.34	1.82	2.11	2.21	1.89	1.65	1.45	1.37	1.37	1.36	1.51		- 20-08	SE	1.25	1.06	1.01	0.96	0.98	1.03	1.14	1.1	7.00	1.13	1.13	1.21	1.10	0.96	1.09	1.14	1.04	1.15	1.24	1.19	1.25
	! -		~	3.0		_	0	_	× (	n .	0	32.36	31.17	31.45	31.33	30.45	29.38	29.39	28.35	28.73	28.31	28.31		()											23.35		23.34	23.97	24.36	24.26	24.18	23.32	23.80	23.77	23.58	23.58
1.)	(	-0.92	2.52	3.07	4.46	5.08	5.78	6.33	6.86	47.1	1.95	7.95	5.02	64.4	3.27	2.15	1.10	90.0-	-0.81	-0.88	-1.01	-0.95	2)	[	35 PCI	1.75	1.13	1.56	1.85	2.17	2.85	3.43	3.61	36.6	4.50	4.50	4.95	4.97	4.86	4.31	3.41	2.66	1.80	1.60	1.62	1.75
_	DINATE	-6.75	-0.83	-0.24	0.13	0.60	0.45	0.89	1.04	7 - 14	1.37	1.37	1.22	-0.37	-1.06	-1.96	-2.17	-3.65	-5.02	-5.53	14.9-	-6.75		- ATANTO	5 PCT	-1.53	-0-41	-0.44	-0.07	0.31	0.08	-0.24	0.28	0.0	0.86	0.86	19.0	0.68	0.31	0.81	0.76	14.0	0.33	94.0-	-1.39	-1.53
	- CO-ORD	1.78	1.01	1.01	1.32	1.37	1.63	1.66	1.77	1.68	7.01	2.01	1.16	1.48	1.32	1.25	1.18	1.10	1.28	1.42	1.65	1.78	ALE	- CO-ORD	N W	1.00	14.0	0.61	0.59	0.57	0.85	1.12	1.02	7.00	1:1	11-11	1.30	1.31	1.39	1.07	0.81	0.67	0.45	0.63	0.92	1.00
- NASION	Y)	-3.83	0.86	1.42	2.29	2.84	3.12	3.61	3.95	64.4	4.67	4.67	3.12	2.06	1.11	0.10	-0.83	-1.85	-2.91	-3.21	-3.71	-3.83	- CERVICALE	Y)	MFA	-	0.36	S	8	1.24	\$	2	50	VI	2.68	2.68	2.81	2.82	2.58	2.56	2.08	1.56	1.06	0.57	0.12	0.11
ANDHARK	(	9.28	9.39	7.52	3.77	2.82	1.78	0.87	0.56	16.0	0.52	0.52	4.98	76.5	6.43	6.86	7.42	7.97	8.41	8.80	00.6	9.28	ANDMARK		95 PCT	1 - 54	0.86	C.58	0.08	-0-17	-0.50	-0.78	-1.39	+1 -1-	-1.92	-1.92	-1.68	-1.44	-0.82	-0.41	-0.05	0.14	0.65	1.47	1.20	1.54
7	DINATE	4.21	-1.34	-2.25	-3.71	-4.51	-4.75	-5.02	-5.18	-5.80	-5.82	-5.82	-3.85	-2.22	-0.74	0.84	2.25	3.56	4.18	4-54	4.27	4.21		DI NA TE-	5 PCT	-2.65	-3.36	-3.72	-4-17	04.4-	-4.23	-4.39	-4.43	14.33	-4.66	-4-81	-4-13	64.4-	-4.48	-3.79	-3.57	-2.73	-2.64	-2.76	-2.66	-2.65
	- C3-0R	1.54	3.27	2.98	2.28	2.23	1.99	1.87	1.75	2.05	1.93	1.93	5.69	2.43	2.19	1.84	1.58	1.34	1.29	1.39	1.44	1.54			ם מ	1.28	1.29	1.31	1.29	1.29	1.14	1.10	0.93	0.81	0.83	98.0	0.75	0.93	1.12	1.03	1.37	0.87	1.33	1.29	1.18	1.28
	X)	6.75	4.03	2.63	0.03	-0.84	-1.49	-2.08	-2.31	-5.44	-7.65		15.0											>	MEAN	10.50	-1.25	-1.57	-2.05	-2.28	-2.36	-2.58	-2.31	-3.16	-3.37	-3.37	12.2-	-2-46	-2.65	-2.10	18-1-	-1.30	-1.00	-0.05	-0.73	-0.56
	SAMPLE	-	7	- 1		7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	7	1			CIVIL	4	7	_	1	7	7	7	7	-		7	- 1	- 1	7	7	7	7	7	7	7	7
	TIME	0.0	2	F 0.20	0	0	0	0	0	06.0	1.00	0.0	0.10	0.20	0	0	T 0.50	0	9	-	06.0	00.1	164	177		- 0	-	0	0.3	0.4	0.5	0.6	1.	0.8	1.00	0	0	000	, 0	, 0	, 0	0	R U. 70	0	0.90	1.00

HOVE		0 0	1.25	1.85	2.13	2.65	3.35	3.92	44.4	4.76	5.20	0.0	0.57	1.05	1.49	2.03	2.85	3.33	3.60	4.17	4.66	4.17		MOVED	COM	0.0	1.5.1	5.19	3.29	4.21	7.50	7.40	8.19	8.64	9.07	0.0	3.36	0.63	2.11	3.64	5.11	29.9	7.85	8.84	64.6	
DISTANCE	N C	200	0.70	09.0	0.25	0.55	0.10	0.57	0.51	0.33	44.0	0.0	0.57	0.48	94.0	0.54	0.62	0.45	0.30	0.57	64.0	0.11		DISTANCE	INCR	0.0	1.21	2.67	1.11	26.0	7.1	0.87	0.79	0.45	0.43	0.0	0.36	0.62	1.13	1.53	1.47	1.51	1.23	66.0	0.65	
1			24.53									25.50	25.84	25.96	25.63	25.31	25.09	24.79	24.68	25.01	54.65	24.51		(	95 PCT	23.95	23.65	24.15	25.20	24.07	27 28	27.46	27.71	27.78	27.61	27.61	27.69	27.74	27.50	26.78	25.64	54.64	74.51	24.58	54.19	
RDINATE-	2 6	19.95	20.26	20.46	20.65	20.15	20.51	21.54	21.70	21.87	21.83	21.83	21.74	21.62	21.29	21.36	21.11	21.00	20.83	20.26	20.32	20.31			5 PCT	18.78	21.01	21.83	22.33	22.82	26.02	24.36	24.53	24.77	24.77	24.77	24.59	24.26	23.83	23.04	25.52	22.07	20.86	19.73	19.05	
- 30-0R	3E	1.40	1.30	1.36	1.35	1.65	1.65	1.26	1.26	1.19	1.12	1.12	1.25	1.32	1.33	1.20	1.21	1.16	1.17	1.45	1.32	1.28		- CO-OR	SE	1.58	0.80	0.71	0.87	0.90	000	0.95	0.97	0.92	0.87	0.87	0.94	1.06	1.12	1.14	0.95	0.78	1.11	1.48	1.57	
7)	22 C	22.24	22.40	22.59	22.87	22.36	23.22	23.52	23.77	23.32	23.56	23.66	23.79	23.19	23.46	23.34	23.13	22.49	22.15	22.64	22.48	22.41		7)	MEAN	21.37	22.33	22.39	23.17	24.39	27.62	25.94	26.12	26.28	26.19	56.19	26.14	26.30	25.50	24.31	24.30	23.30	22.58	22.10	21.52	
100 50	1 26	1.15	1.89	2.22	2.44	3.17	3.93	4.21	4.19	4.73	5.12	5.12	4.61	4.01	3.98	3.04	4.53	2.15	1.53	1.88	1.14	1.24	( +	(	35 PCT	-6.92	-6.62	-5.83	-4.93	• •		. 0	-0.02	0.31	0.31	0.31	0.51	-3.67	-	3	4.	3	-5.64	9 .	- 7.08	
SD INATE-	1 48	-0-41	-0.32	0.04	0.07	0.37	0.52	96.0	1.78	1.88	1.94	1.94	1.66	1.40	0.93	1.12	0.25	70-0-	0.05	-1.09	-1.27	-1.48		RD INATE-	5 PCT	19.6-	-8.51	-8.26	-8.29	12.81	70.7-	16.45	-5.84	-5.35	11.4-	77.4-	-5.21	-5.22	-5.95	-6.72	74.1-	-9.10	-8.53	18.94	-9.43	
-Y - CO-ORD I	26	0.48	19.0	19.0	3.72	0.85	1.03	1.00	0.73	0.87	0.97	16.0	06.0	0.79	0.94	0.58	0.10	99.0	0.47	0.91	0 - 14	0.83	MION	- CO-ORD	SE	0.84	0.57	0.74	1.03	1 61	78	1.71	1.78	1.73	1.55	1.55	1.74	1.39	1.24	1.02	0.75	1.85	0.83	79.0	0.72	
			0.79									3.53	3.13	2.71	2.44	2.08	1.39	1.07	0.82	0.39	10.0-	-0.12	- RT ACROMION	١)	MEAN	-8.29	-7.57	-7.04	16.60	15.03	14.26	-3.64	-2.93	-2.52	-2.23	-2.23	-2.35	-5.94	-3.92	-5.05	-6.18	-6.06	-1.03	76-1-	-8.26	
(	200.3	5.53	5.31	4.90	4.43	4.14	3.85	3.86	3.51	3.07	2.91	2.91	3.59	3.53	3.63	4.09	4.60	4.24	4.53	4.91	69.4	2.00	ANDMARK	[]	95 PCT	1.50	1.93	2.22	1.85	1.94	1.30	0.46	-0.16	-0.59	-0.74	-0.74	-1.16	16.0-	-0.11	0.23	0.30	3.11	2.06	16.1	1.12	
ROINATE-	20.08	0.84	-0.01	-0.37	-0.19	-0.25	-0.81	-1.16	-1.37	-0.99	-1.51	-1.51	-1.44	-0.93	-0.83	-0.48	-0.26	0.62	0.48	0.81	1.18	0.98	_	DIN	5 PCT	-0.77	-1.47	-2.71	-3.65	14.41	15.44	-5.62	-5.55	-5.34	-5.80	-5.80	-4.71	-5.18	-5.05	-4.00	-3.17	-3.34	-2.05	-1.00	-0.61	
- CO-JR	1 23	1.43	1.62	1.61	1.41	1.34	1.42	1.53	1.49	1.24	1.35	1.35	1.53	1.36	i.35	1.39	1.48	1.10	1.24	1.25	1001	1.23		- CO-UR	SE	69.0	1.04	1.50	1.68	2.13	2.38	1. 35	1.64	1.45	1.54	1.54	1.08	1.33	1.50	1.29	1.06	1. 37	1.24	0.13	0.53	
X)	0000	3.19	2.65	2.26	2.12	1.94	1.52	1.35	1.07	1.04	0.10	0	1.08	1.30	1.42	1.80	2.17	2.42	2.50	2.86	56.5	5.99		X)	MEAN	0.37	0.53	-0.25	66.01	-1.51	-2.32	-2.59	-2.86	-2.96	-3.27	-3.27	-2.94	-3.05	-2.58	-1.88	-1.43	-0.11	0.05	21.0	0.20	
SAMPLE	7		1	1	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	-	- '	1		SAMPLE	SIZE,N	7	7	7	- 1		- 1	. ~	7	7	7	7	7	1	7	7	7	7	-	- 1	1	
TIME	- 0	0 - 0	0	0	0	0	09.0 A	0	0	06.0	1.00				0		ċ	o	o	N C . 80				TIME	-	0.0	0	F 0.20	0.30	0 0	0	0	0	0	1.00	0.0	-	0.50	0.3	4.0	0.5	0.0	-	9 :	5.	

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CUM 0.0 1.12 1.3.01 2.3.18 2.3.18 2.3.18 2.3.18 4.12.01 4.5.74 4.8.79 5.0.40 5.0.40

1 NCR 0.0 4.12 8.89 10.17 5.25 6.66 5.92 4.73 3.05 1.61

95 PCT 6.36 111.43 25.14 40.82 31.37 44.39 46.37 46.37

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46.74 456.74 42.66 338.21 338.22 28.00 213.53 11.86 6.36

465.22 40.17 40.17 23.39 40.23 40.28 40.28 40.28 40.28 40.28 40.28 40.28 40.28

0.46 2.83 2.999 2.999 3.26 3.94 3.89 1.85

445.98 443.01 338.01 28.55 21.55 14.57 8.90 6.32 6.32

11.28 8.84 6.95 -0.93 -3.06 -5.82 -11.22 -11.22 -11.52

MOVED CUM CUM CO.33 CO.33 CO.93 CO.9

DISTANCE INCR 0.00 0.23 0.12 0.15 0.15 0.15 0.04 0.04

- CO-ORDINATE-SE 5 PCT 0.39 3.22 0.47 3.06 0.55 2.89 0.54 3.01 0.46 3.17 0.47 3.17 0.45 3.23 0.45 3.23 0.49 3.21

95 PC1 - 6 . 46 - 6 . 58 - 6 . 58 - 6 . 27 - 6 . 27 - 6 . 34 - 6 . 18

0.00 0.03 0.03 0.05 0.05 0.05 1.23 1.30

44.81 44.73 44.73 44.884 44.881 44.67 44.67

33.21 33.32 33.32 33.26 33.16 33.16 33.14

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MOVED	MIL	0.0	0.42	0.45	0.65	62.0	0.93	66.0	1.11	1.21	1.32	1.52	0.0	300	000	77.0	000	0.54	69.0	06.0	0.93	1.11	1.28	1.30		MOVED	MIC	0-0	0.99	1.82	2.69	3.95	5.09	6.64	7.99	8.88	84.6	10.00	0-0	20.00		3.16	6-40	000	70.0	9.17			9.71	
DISTANCE		0	0.42	0.04	0.50	0.13	0.14	90.0	0.12	0.10	0.11	0.50	0-0	0.0		1.0	01.0	0.15	0.15	0.21	0.03	0.18	0.16	60.0		DISTANCE		0.0	0.99	0.82	0.87	1.26	1.14	1.55	1.36	0.83	0.61	0.51	0.0	0.76	000	1.32	1.45	07	1 10	08.0	0.74		0.50	
(	95 PCT	13.17	13.15	13.30	13.19	13.20	13.07	13.00	13.03	13.25	13.31	13.23	13.23	13.08	13 11	13 10	0100	13.21	13.09	13.11	13.09	13.08	13.02	13.17		[	95 PCT	21.96	21.89	22.30	23.17	24.47	26.31	27.35	28.81	28.89	28.05	29.01	29-01	28.36	27.81	26.65	25.20	27.72	22 62	22.50	17.57	22.07	21.96	
DINATE	5 PCT	10.15	10.12	9.92	10.15	10.17	10.36	10.44	10.44	10.21	10.21	10.26	10-26	10.45	200	10.01	11.01	67.01	10.34	10.24	13.21	10.41	10.33	10.15		DINATE	2	17.36	19.05	19.99	20.64	21.53	21.66	22.87	23.22	23.67	74.94	24.66	24.66	74.43	23.78	22.72	21.80	20.00	20.00	10.21	18.03	17.49	17.36	
- CO-OR	SF	0.92	0.92	1.03	66.0	0.92	0.82	0.78	0.19	0.93	0.94	06.0	06.00	0.80	400		70.0	0.89	0.84	0.87	0.88	0.82	0.82	0.92		- 20-08	SE	1.40	0.87	0. 70	0.77	0.00	1.42	1.36	1.70	1.59	96.0	1.33	1.33	1.20	1.23	1.20	1.04	D. B.3	3 0	200	1.38	04	1.40	100
7)	MEAN	11.66	11.53	11.61	11.57	11.50	11.72	11.72	11.74	11.73	11.70	11.75	11.75	11.76	7 8 .	11 75	71. 17	61.11	11.12	11.67	11.65	11.75	11.56	11.56		7)	MEAN	19.66	20.47	21.15	21.90	23.30	23.39	25.11	26.01	26.28	26.49	26.83	26.83	26.60	25.79	24.58	23.50	22.35	21.10	20.45	20.30	10.74	19.50	
107	95 PCT	-3.51	3.	3	3.	-3.63	3.	-3.48	3	3.	-3.29	-3.28	-3.28	-3-33	-3.22	73.66	•	20.6-	3	3	-3.30	-3.56	-3.61	-3.51	(22)	(	95 PCT	-6.48	-6.46	-5.67	-4.76	-3.79	-3.32	-2.25	-1.20	-0.29	0.27	0.31	0.31	0.02	-0.60	-1.45	-2.62	14.04	16.51	15.92	-6-43	-6-83	-6.48	
ORD INATE-	5 PCT	-8.34	-8.99	-8.93	-8.70	-8.77	-8.90	-8.92	-8.85	-8.92	-8.92	-8.77	-8.77	-8.79	18 45	0 0	000	10.8-	18.44	-8.37	-8.32	-8.43	-8.38	-8.34	CENTER	CO-ORD INATE-	5 PCT	-9.03	-8.09	-8.49	-8.53	-8.30	-7.67	-6.70	-6.15	-5.80	-5.25	-4.72	-4.72	-5-60	-6-66	66.9-	-7.41	-7.83	9 - 9 -	18.59	-8-80	18.90	-9.03	The second second
9 9	SE	1.47	1.63	1.58	1.52	1.57	1.60	1.66	1.63	1.69	1.72	1.68	1.68	1-67	1.66	1 5 6	2	1.07	4.55	1.54	1.51	1.49	1.45	1.47	SHOUL DER CI	0-00 -	SE	0.78	0.50	0.86	1.15	1.38	1.32	1.36	1.51	1.68	1.68	1.53	1. 53	17.1	1.85	1.69	1.46	1 14	0	0.8	0.72	7.4.0	0.78	
(	MEAN	-5.92	-6.31	-6.33	-6.21	-6.20	-6.27	-6.20	-6.18	-6.15	07.9-	-6.03	-6.03	-6.06	10.5-	40	0 0	000	10.07	-5.85	-5.84	-5.99	-5.99	-5.92	- RT SHOU	()	MEAN	-7.76	-7.27	-7.08	-6.64	-6.05	-5.50	14.4-	-3.68	-3.05	-2.49	-2.20	-2.20	-2.79	-3.63	-4.22	-5.32	15.05	100	-7.26	-7-61	-7.36	-7.76	The second second
LANDHARA	95 PCT	21.22	21.31	21.41	21.22	21.37	21.67	21.78	21.53	21.60	21.75	21.58	21.58	21.51	21.37	21 51	10000	04.17	04.17	21.74	21.69	21.73	21.49	21.22	LANDMARK	(	95 PCT	2.35	2.23	2.12	2.65	3.02	3.06	3.24	2.47	1.52	1.38	0.85	0.85	1.04	1.54	2.04	1,81	1 - 34	1.5	1001	2.12	2.13	2.35	The state of the s
DINATE	5 PCT	17.77	17.97	17.83	17.72	17.84	17.79	17.68	17.70	17.82	17.86	17.67	17.67	17.81	17.76	17 82	70.14	70.11	11.50	17.69	17.73	17.66	17.59	17.77		DINATE-	5 PCT	0.25	-0.29	-1.03	-1.48	-1.55	-1.82	-2.58	-3.09	-3.24	-3.36	-3.35	-3.35	-3.15	-3.05	-2.73	-2,00	-1.27	10.73	-0.62	-0-13	0-23	0.25	
- CO-08	SE	1.05	1.02	1.09	1.07	1.07	1.18	1.25	1.17	1.15	1.18	1.19	1.19	1.13	1.10	1 2 2	-	1.10	67.7	1.23	1.21	1.24	1.19	1.05		- CO-08	SE	0.64	0.17	96.0	1.26	1.40	1.49	1.77	1.70	1.45	1.45	1.28	1.28	1.28	1.43	1:45	1.16	0.70		78	0.69	0.58	0.64	
× -	MEAN	19.49	0	6	0	3	0	19.73	19.61	19.71	19.81	19.63	19.63	0	19.56	10.46		,	7	9	9	19.69	9	19.49		X)	Z	1.30	16.0	0.55	0.58	0.73	0.62	0.33	-0.31	-0.86	-0.99	-i.25	-1.25	-1.05	-0.76	-0.34	-0.10	0.03		0.66	66.0	1.18	1.30	
SAMPLE	SILEON	7	7	7	1	7	7	7	7	7	7	7	7	7	7	- 1	- 1	- 1	- 1	-	1	7	2	7		SAMPLE	SIZEON	7	7	7	7	7	7	7	7	1	7	7	7		. 1	7	7		7		7	7	7	
		0.0	01.		.30	.40	0 20	.60	. 10	.80	06.	00.	0.0	0.0	0000	000		01.0	00.0	09.0	0.10	0.80	06.0	1.00						0.50	.30		. 50	09.	. 70	.83	06.	00.	0.0	010	0.20	0.30	04-0	0.50	0.4	0.70	0.80	06.0	1.00	

SAMPLE (	241	-2 - CO-URDINATE DIS	I MEAN SE 5 PCT 95 PCT INCR	8.30 1.91 5.77 12.03 0.0	10.18 1.12 8.25 11.91 1.57	11.42 1.99 8.17 14.68 1.64	14.98 3.79 8.76 21.20 4.59	21.51 6.38 11.14 32.07 7.37	26.39 5.40 17.53 35.25 5.25	-1.31 31.19 4.08 24.49 37.89 5.80 26.22	34.40 2.37 30.51 38.29 4.64	35.80 1.09 34.01 37.59 2.76	36.41 0.46 35.65 37.17 1.47	36.42 0.53 35.55 37.29 0.73	36.42 0.53 35.55 37.29	35.50 0.72 34.38 36.75 2.85	32.09 2.52 27.95 36.23 5.24	26.33 3.72 20.22 32.44 6.59	-5.34 19.55 3.92 13.13 25.97 7.34 22.03	14.57 2.88 9.95 19.39 5.85	12.15 1.94 8.97 15.33 3.26	10.61 1.88 7.54 13.69 1.58	9.85 1.88 6.77 12.92 0.87	9.16 1.95 5.96 12.35 0.76	8.90 1.91 5.77 12.03 0.64	( 26 )	DISTANCE	95 PCT MEAN SE 5 PCT 95 PCT INCR CUM	5.14 1.45 2.76 . 7.52 0.0	2.54 4.78 13.10 3.90	14.82 3.78 8.62 21.02 6.23	
CANDMARK - RT ELBON	NTER	-ORD INATE	5 PCT	2 -11.94	7 -12.50	3 -13.36	0 -14.06	0 -13.27	1 -11.17	64.1- 6	46.4- 9	4 -2.75	1 -1.62	7 -1.38												NTER	-ORD INATE-	5 PCT	17 -14.20	11 -14.17	17 -13.86	
CANDMARK	- RT ELBOW CE	00 - 1																								- RT WRIST CE	>					
CO-ORD HEAN SE 2.37 0.93 1.15 2.25 1.32 2.25 1.32 2.25 1.32 2.25 1.32 2.34 1.05 1.49 3.21 3.05 2.37 0.93 2.1 3.05 2.37 0.93 2.37	LANDMARK	[	95 PCT	3.90	3.23	4.41	8.34	12.26	14.46	13.79	10.95	8.19	5.54	3.50	3.50	6.50	12.07	13.92	11.74	8.87	5.87	4.29	3.83	3.47	3.90			95 PCT	11-16	11.00	12.18	
HEAN 2.37 1.35 2.16 5.16 5.16 6.17 1.35 1.05		-ORDINATE-	,																								ATANIOSO-C					
																											,					
				7		- 1	- 1		- 1	7	7	7	7	7	7	7	7	7	7	7		7	7	7	7		T OME	N. T. T.	3156911	7		

TOXZXXO XMHDXX

MOVED	₹ OO	0.0	3.90	10.13	17.10	24.15	30.53	36.37	41.11	43.80	45.30	45.88	(	0	5.19	8.36	14.87	22-17	30.17	37.76	41.36	43.93	45.29	45.89
DISTANCE	INCR	0.0	3.90	6.23	26.91	7.05	6.39	5.84	4-14	2.17	1.42	0.58		0.0	2.79	5.57	6.51	7.29	8.01	7.58	3.60	2.57	1.36	0.61
(	95 PCT	7.52	13.10	21.02	28.53	35.08	39.91	42.39	43.74	44.53	44.32	43.99		43.99	43.29	41.28	36.71	31.40	23.64	16.08	14.36	11.53	8.89	7.52
DINATE-	5 PCT	2.76	4.78	8.62	13.99	19.69	56.47	30.77	35.88	39.01	41.51	45.39		45.39	39.01	32.36	27.31	21.03	15.02	9.32	4.42	2.32	2.40	2 76
- 00-08	SE	1.45	2.54	3.78	4.43	4.69	4.56	3.54	2.40	1.68	0.86	0.48		0.48	1.30	2.72	2.87	3.16	2.63	2.06	3.03	2.81	1.98	1 45
7)	MEAN	5.14	8.94	14.84	21.26	27.38	32.43	36.58	39.81	41.17	42.91	43.19		43.19	41.15	36.82	32.01	26.21	19.33	12.70	9.39	6.33	5.64	2 1 2
()	95 PCT	-11.07	-9.87	-6.10	-2.57	0.13	2.62	5.15	7.27	7.99	8.30	8.79		8.79	7.91	5.06	1.35	-1.42	-4.00	-5.67	-8.34	-10.10	-10.54	11 07
$\supset$		-14.20		•										64.9	5.06	2.70	-0.43	-4.95	-10.10	-15.73	-15.75	-15.38	-15.34	10 10
- 00-0	SE	16.0	1.31	2.37	2.91	2.53	1.98	1.61	1.45	06.0	0.66	0.10		0.10	0.87	0.72	0.54	1.07	1.86	3.07	2.26	1.61	1.40	-
١)	MEAN	-12.67	-12.02	86.6-	-7.34	-4.02	-0.62	2.51	4.90	6.51	7.22	7.64		7.64	6.49	3.88	0.46	-3.18	-7.05	-10.70	-12.05	-12.74	-12.94	
(	95 PCT	11.16	11.00	12.18	14.31	14.23	12.72	9.50	5.75	3.35	1.64	1.10		1.10	3.24	7.88	11.10	13.37	14.17	14.00	12.72	11.81	11.32	
DINATE-	5 PCT	10.03	9.03	7.16	4.55	2.46	0.09	-2.00	-3.29	-3.09	-2.28	-2.34		-2.34	-1.40	-1.38	0.88	3.63	5.52	6.57	76.0	8.19	74.6	
- 00-08	N S	0.35	0.66	1.53	2.97	3.59	3.85	3.51	2.76	1.96	1.20	1.05		1.05	1 43	2.82	3-12	2.97	2.64	2.28	1.76	1.10	0.56	
X)	NATI	10.60	10.02	9.67	9-43	8.35	6.40	3.75	1.23	0.13	-0-32	-0.62		-0.62	68.0	3.25	2 . 40	0.50	9 0	10.32	2 3 5	10.00	10 39	
SAMPLE	SIZE'N	7	7	7	7	7	7	7	7	7	7	7		7	7			- 1	- 1	- 1	7	7	7	
TIME	1	0.0	0.10	0 - 0	0.30	0.40	0.50	000	0.70	0.80	000	1.00		0-0			0 0	000	0 0	000	000	0 3	000	

Z N C A M C D N N E D C N

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 to Over-Head controller AT 0.0, +10.0, +47.3 and returns. Right HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

MOTICN NUMBER - 21230 BACK ANGLE - 13

	SECS	SECS
N GE	1.10 SECS.	0.93
RA	13	01
Α	0.70 TO	0.50 TO
TIME DATA STD DEV	91.0	0.13
MEAN	73.0	0.73
SUB-MOVEMENT	LEFT FWD	LEFT REV

21230/13
.0N
THA

HEAN SE 5 FOT 95 FOT MEAN SE 50.00 1	5.04 5.04	5 PC1
0.50		
0.14 0.46 -0.25 1.15 31.71 1.22 29.72 33.71 4.45 0.16 0.46 -0.25 1.16 32.40 1.10 30.50 31.67 33.71 4.45 0.18 0.14 0.18 32.40 1.10 30.50 31.67 33.71 4.45 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18	u	
0.14 0.64 -0.92 1.19 32.10 10.0 33.67 33.82 1.59 0.14 0.04 0.14 0.04 0.092 1.19 32.10 10.05 33.67 33.61 0.04 0.04 0.07 1.06 0.07 32.10 0.095 30.01 33.02 1.50 0.05 0.07 3.10 0.07 32.10 0.095 30.01 33.02 0.005 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.005 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.095 30.01 33.02 0.005 30	•	
CERVICALE  CERVICAL  C	4.1	
0.446 0.773 -1.66 0.775 22.54 0.975 30.671 34.922 0.045 0.045 0.045 0.075 22.54 0.977 30.678 34.00 0.025 0.055 0.955 -2.104 0.075 22.54 0.097 30.678 34.00 0.025 0.055 0.955 -2.104 0.089 32.37 0.977 30.78 33.97 0.10 0.025 0.055 0	2.7	
0.653 0.79 -1.682 0.77 32.52 0.97 30.93 34.11 0.75 0.055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.005 0.0055 0.005	2.46	
CERVICALE	2.44	
0.55 0.95 -2.08 1.04 32.35 1.00 33.82 34.09 0.09 0.05 0.05 0.05 0.05 0.05 0.05 0	2.31	
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0.54 0.74 -1.64 0.78 30.24 1.52 27.74 32.72 1.61 0.55 1.12 -2.47 1.25 29.90 1.45 27.55 31.25 0.55 0.55 1.19 -2.57 1.25 29.90 1.45 27.55 31.25 0.55 0.55 1.19 -2.58 1.34 29.53 1.27 27.44 31.62 0.43 0.47 1.36 -2.70 1.70 29.90 1.21 27.44 31.62 0.43 0.49 1.30 -2.70 1.70 29.90 1.21 27.44 31.62 0.43 0.40 1.44 -2.70 1.70 29.90 1.21 27.44 31.29 0.43 0.040 1.44 -2.70 1.70 29.90 1.21 27.44 31.29 0.43 0.040 1.44 -2.70 1.96 29.04 1.50 26.91 31.17 0.21 0.040 1.28 -2.18 2.02 28.90 1.40 26.67 31.24 0.22 0.040 1.28 -2.18 2.02 28.92 1.56 26.91 31.17 0.21 0.09 1.28 -2.18 2.02 28.92 1.56 26.93 31.48 0.22 0.09 -2.23 0.66 -3.31 -0.89 21.85 24.89 0.52 0.79 -3.89 -1.31 23.57 0.99 21.87 25.08 0.41 0.20 0.60 -3.31 -1.15 23.49 0.97 21.90 25.08 0.22 0.60 -3.31 -1.15 23.49 0.97 21.90 25.08 0.41 0.20 0.40 -4.01 -1.40 23.48 0.99 21.90 25.09 0.10 0.20 0.40 -4.01 -1.40 23.48 0.99 22.01 24.95 0.01 0.20 0.40 -4.01 -1.40 23.48 0.99 22.01 24.95 0.01 0.20 0.40 -4.01 -1.10 23.50 0.99 22.01 24.95 0.01 0.20 0.40 -4.01 -1.10 23.50 0.91 22.05 25.04 0.10 0.20 0.40 -4.01 -1.23 23.49 0.91 22.05 25.04 0.10 0.20 0.40 -4.01 -1.23 23.49 0.91 22.05 25.04 0.10 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.10 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 24.05 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.49 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.40 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.40 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.40 0.91 22.05 25.04 0.11 0.20 0.40 -4.01 -1.20 23.40 0.91 22.05 0.00 0.22 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40	6.21	
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CERVICALE ( 2)  CERVICALE ( 2)	1.83	
CERVICALE ( 2)  CERVICALE ( 2)	1.99	
CERVICALE ( 2)  CERVICALE ( 2)	1.99	
CERVICALE ( 2) Y - CO-ORDINATE	69.1	
HEAN SE 5 PCT HEAN SE 5 PCT INCR MEAN SE 5 PCT 1 INCR NCA 0.83 -3.44 -0.72 23.26 0.85 21.87 24.66 0.0 0.83 -3.44 -0.72 23.26 0.85 21.87 24.66 0.0 0.0 0.88 -3.12 -0.89 23.37 0.93 21.85 24.89 0.52 2.23 0.66 -3.31 -1.15 23.49 0.95 21.87 24.66 0.0 0.41 0.62 -3.89 -1.31 23.57 0.99 21.97 25.18 0.41 0.52 0.79 0.70 0.80 -4.02 -1.36 23.49 0.97 21.99 25.04 0.22 0.03 -4.02 -1.39 23.48 0.97 21.99 25.04 0.27 0.90 -4.24 -1.30 23.59 0.97 21.99 25.04 0.27 0.09 0.81 -4.45 -1.11 23.59 0.99 22.01 24.95 0.09 0.17 0.90 0.40 0.17 0.90 0.40 0.17 0.90 0.40 0.17 0.90 0.40 0.17 0.90 0.40 0.10 0.10 0.10 0.10 0.10 0.10 0.1	NDMARK	LANDMARK
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0.79	60.0	
0.062	0.15	
0.94	00.00	
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1.05	74	
1.05	0.70	
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0.79    -4.15    -1.56    23.30    0.79    22.06    24.65    0.13    0.84    -4.19    -1.43    23.44    0.88    22.00    24.88    0.12    0.97    -4.43    -1.25    23.30    0.86    21.95    24.78    0.23    0.92    -4.14    -1.11    23.35    0.84    21.97    24.78    0.23    1.02    -4.14    -1.11    23.35    0.84    21.97    24.78    0.23    1.02    -4.02    -0.30    23.31    0.84    21.97    24.76    0.22    1.12    -3.99    -0.30    23.31    0.84    21.92    24.68    0.21    0.23    23.27    0.83    21.92    24.63    0.21    0.23	0.22	
0.84 -4.19 -1.43 23.44 0.88 22.00 24.88 0.12 0.97 -4.43 -1.25 23.35 0.86 21.95 24.78 0.23 0.92 -4.14 -1.11 23.35 0.84 21.97 24.73 0.22 1.02 -4.02 -0.65 23.35 0.89 21.97 24.75 0.22 1.12 -3.99 -0.30 23.31 0.84 21.93 24.68 0.21 0.02 -2.65 0.39 23.27 0.83 21.92 24.63 0.68	0.17	
0.97 -4.43 -1.25 23.30 0.86 21.95 24.78 0.23 0.92 -4.14 -1.11 23.35 0.84 21.97 24.73 0.22 1.02 -4.02 -0.65 23.30 0.85 21.97 24.76 0.23 1.12 -3.99 -0.30 23.31 0.84 21.93 24.76 0.21 1.02 -3.75 -0.39 23.27 0.83 21.92 24.63 0.08	0.26	
0.92 -4.14 -1.11 23.35 0.84 21.97 24.73 0.22 1.02 -4.02 -0.66 23.35 0.85 21.97 24.76 0.22 1.12 -3.99 -0.30 23.31 0.84 21.93 24.68 0.21 1.02 -3.75 -0.39 23.27 0.83 21.92 24.63 0.08	0.48	
1.02 -4.02 -0.66 23.36 0.85 21.97 24.76 0.22 1.12 -3.99 -0.30 23.31 0.84 21.93 24.48 0.21 1.02 -3.75 -0.39 23.27 0.83 21.92 24.63 0.08	0.62	
1.12 -3.99 -0.30 23.31 0.84 21.93 24.63 0.21 0.22 21.92 24.63 0.68 0.21 0.83 21.92 24.63 0.68	0.86	
1.02 -3.75 -0.39 23.27 0.83 21.93 24.68 0.21	1.12	
0.08	1 1 1 8	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.82	

ZWFDXZ

ZWCJWZ

HOKEARO

CXPERCT

	OVED	50	.21	.72	.87	• 20	.00	19.	61.	75	1.29	0	1.97	.84	.20	.03	1.22	16.	64.	1.37	.58	1.17		OVED	CUM	0.0	1.14	1.26	1.64	1.92	BO.	97.	0 6	.57	1.75	0.0	0.12	1.10	1.27	44.	1.54	1.79	96.0	+0.	.13	77.1
					_	~	7) (	0		1 4	. 4					-	2	2	3	~	m	m		Σ.																						
	DISTAN	0.0	6.2	6.6	4.1	1.3	4.0	3.1	2	0 0	0.53	0.0	1.97	2.8	4.3	4.8	6.2	7.6	5.5	2.8	1.2	1.5		DISTANC		0.0	0.1	0.1	0.3	7.0	0.0			0.1	0.18	0.0	0.12	0.0	0.1	1.0	0.1	0.2	1.0	0.0	0.0	0.0
	100 00	13.14	24.95	38.29	33.70	39.71	40.40	47.80	11014	10.04	45.66	45-66	45.5B	43.29	39-61	36.23	33.36	30.66	24.37	19.94	15.29	13.14		()	95 PCT	4.52	4.45	4.45	4.61	4.51	4.46	79.4	4.63	4.47	4.53	4.53	4.51	4.48	4.58	4.65	64.4	64.4	4.55	04.4	4.45	4.52
	INATE	12.24	11.49	14.18	25.30	30.15	93.19	58.49	60.14	43.31	44.28	44.28	40-46	37.07	33.77	29.82	23.60	14.17	11.21	10.35	12.80	12.24		DINATE	5 PCT	3.34	3.30	3.29	3.25	3.24	3.31	3.30	3.21	3.33	3.25	3.25	3.27	3.32	3.33	3.27	3.30	3.24	3.22	3.28	3.33	3.34
	80										0.45		1.56											- CO-03D											0.39	0.39	0.38	0.35	0.38	0.42	0.36	0.38	0.41	0.34	0.35	0.36
	- 7	2.69	8-22	20.23	76.67	34.33	29.65	54.74	2	70.44	44.37	16.44	43.02	60-18	30.00	33.32	3.40	22.44	17.73	15.15	14.34	12.59		7	MEAN	3.93	3.37	3.87	3.93	3.87	3.38	3.76	70.7	3.9.	3.89	3.83	3.49	3.30	3.95	3.36	3.89	3.87	3.84	3.84	3.30	3.33
17)	-) (										10.03		9.28										19)	-) (	95 PCT	8.09	7.91	8.18	7.76	7.11	7.97	8.03	0.04	7.84	7.88	7.88	7 . 84	7.93	8.18	3.16	7.92	8.44	8.21	7.84	7.84	8.09
_	1												8-78	7.04	7.2H	6.27	6.58	64.9	7.10	7.96	8.48	8.57	J	INATE	5 PCT	5.39	5.65	5.48	5.18	5.68	5.65	5.29	7.14	5.61	5.48	5.48	5.53	5.44	5.44	5.12	5.40	5.39	5.36	5.64	5.58	5.39
CENTER	CO-0R0	1.01	0.86	1.20	1.17	7-14	1.40	1.57	0.51	40.0	0.45 8.56	57.0	0.16	74.0	0.73	1.02	0.54	1.35	1.32	0.93	0.88	1.01	HANTER	- CO-ORD	SF	0.82	69.0	0.82	0.19	0.62	0.71	0.82	20.00	0.0	0.73	0.73	0.70	0.78	0.84	0.92	0.77	6.53	0.87	0.68	69.0	0.85
LT GRIP	<u>-</u>										9.29		0.03	p 71	1 1 8	7.94	8.12	8.69	9.26	9.48	9.92	10.23	LT TROCHANTER	À											6.68		6.68	6.72	6.81	6.64	99.9	6.91	6.78	6.76	17.9	41.9
ANDMARK -	-	19.61	21.35	16.61	13.46	7.83	3.92	1.27	-0.30	10.01	-0.24	76 0-	120	1 66	4.04	7.50	12.08	18.37	21.86	21.06	19.36	19.61	- ANDMARK -	) (	95 PCT	5.00	5.16	5.20	5.68	5.25	5.13	5.08	5.00	20.00	4.92	4.92	4.91	4.93	5.01	5.23	5.53	5.80	5.40	5.11	4.85	2.00
-	1										-2.53											18.05	LA	TANT	5 PCT	3-76	3.35	3.11	2.40	3.17	3.50	3.58	3.52	2 40	3.64	3.64	3.88	3.86	3.68	3.49	3.05	2.68	3.36	3.59	3.76	3.76
	C0-083										0.70											0.48		090-03	2										0.39		0.31	0.32	0.41	0.53	0.76	0.95	0.62	0.46	0.53	0.36
	- X	MEAN	10-01	10.90	8.37	3.44	-0.82	-2.47	-2.44	-1.66	-1.38	1 30	77.7	100	ο,	04 4	20.0	13.01	1 (		8.0	18.83		×	NAM	4.38	4.26	4.15	40.4	4.21	4.31	4.33	4.29	67.4	4.28	9 2 9	4.40	4.40	4.34	4.36	4.29	4-24	4.38	4.35	4.31	4.38
	SAMPLE (	I ZE, N									<b>4</b> m		7 11	1	1 4	0 1	- 1		- 1		. 9	9		MADIC	2 2	1	7	_	7	7	7	7	- 1	- 1	- 1	1	- 1-	7	7			7	7	7	7	7
	TIME			0.2	0.3	4.	0.5	0.0	0.1	0.8	1.00			0.0	0	9	3 0	0 0	3 0	2 2	, 0	1.00		-	- F -	- 0	-	0.2	0.3	0.4	0.5	9.	0.7	9 0	1.00	c	0	0.20	0	) -	0	, 0	, 0	N 0.80	0	1.00

ACE MOVED CUM CUM 0.0									0	12.0	2 0	8	2	9	0	<b>+</b> (	0		ANCE MOVED					3.10									50 1.75				
DISTANCE INCR 0.0								0.0	0		0	0	0.1	0	0	0	0		DISTAR		0	0	00	0.80	0	0	0	0 0	0				0.80				
95 PC1 13.50 13.42	ma	J 60	m	3	7	m	m	13.57	3	13.69	1 10	3	3	3	13.37	m (	7			95 PCT	N	2	$\sim$ $^{\circ}$	24.86	S	O	ø,	0 4	Q C	26.80	26.86	26.24	25.23	24.63	23.89	73.12	1
5 PCT 9.36 9.38	9.27	9.45	9.52	9.49	9.45	9.45	14.6	14.6	64.6	04.0	9.34	9.45	9.56	9.43	9.35	9.43	4.36		DINATE		20.21	19.98	20.44	21.28	21.67	22.20	22.74	23.35	23.21	23.21	22.99	55.69	22.43	21.10	21.22	20.48	
- CO-OR SE 1.26								1.25	1.28	1.32	1.35	1.27	1.17	1.21	1.22	1.16	97.7		- C0-08	SE	0.73	0.68	0.65	1.09	1.32	1.32	1.29	1.03	1.09	1.09	1.18	1.08	0.86	0.80	0.81	0.81	
(Z MEAN 11.43 11.40	11.43	11.56	11.50	11.53	11.57	11.48	11.52	11.52	11.59	11.50	11.56	11.53	11.48	11.44	11.36	11.33	11.43		7)	MEAN	21.40	21-10	21.50	23.07	23.83	24.37	24.85	25.04	25.01	25.01	24.92	24.40	23.33	23.11	22.56	21.80	
95 PCT 6.93 6.82	6.93	8.81	6.83	6.82	6.68	6.88	6.98	6.98	16.9	7.02	6.55	19.9	6.85	6.88	7.02	7.23	6.93	231	(	95 PCT	7.95	8.28	8.57	8.87	8.50	8.11	7.73	7.32	7.30	7.30	7.47	7.84	7.84	8.06	80.0	8.37	
DINATE 5 PCT 3.67 4.26	47.4	-0.06	60.4	4.06	4.20	4.40	3.98	3.98	3.91	3.94	4.02	3.88	3.84	3.92	3.86	3.74	3.61	NTER (	DINATE		u	uı	41 1	1 4	4	4	(4) (	יו ת	3.33	3.33	3.48	3.41	3.94	4.40	4.55	4.95	
- CO-OR SE 1.00	0.81	2.71	0.83	48.0	0.75	0.76	0.91	16.0	0.91	0.94	0.77	0.83	0.92	06.0	96.0	1.06	1.00	SHOULDER CENTER	- CO-OR	SE	0.75	0.72	0.96	1.35	1.29	1.22	1.22	1.11	1.21	1.21	1.22	1.35	1.19	1.10	1.07	1.04	
MEAN 5.30 5.54	5:57	4.38	5.46	5.44	5.44	5.64	5.48	5.48	5.41	7.48	5.28	5.24	5.35	5.40	5.44	5.47	5.30	- LT SHO	()	Z	3	0	00	0.00	0	0	m	0 0	2	5.32	5.47	5.62	5.89	97-9	6.32	99.9	
95 PCT 21.09 21.30	21.31	22.71	21.20	21.15	21.38	21.56	21.06	21.06	21.23	21.32	21.34	21.29	21.18	21.39	21.39	21.11	60.17	ANDMARK	(	95 PCT	2.20	0.85	0.45	-0.01	-0.52	-0.60	-1.04	-1.13	-0.46	-0.46	-0.15	0.34	0.23	0.43	0.56	1.18	
	18.60	4 41	w	wu	Ju	a	19.11	19.11	18.76	18.60	13.76	18.67	w	18.80	w	18.71	78.87	7	DINATE	5 PCT	96.0-	-0.61	-1.29	-1.99	-2.40	-2.96	-2.97	12.90	-3.88	-3.88	-3.54	3	-2.47	N.	<b>~</b> .	-1.34	ı
- CO-OR SE 0.69	0.83	2.30	0.81	18.0	0.82	0.81	0.59	0.59	0.75	0.83	0.79	0.80	0.75	61.0	0.82	0.13	69.0		- C0-0R	SE	96.0	74.0	0.53	0.61	0.57	71.0	0.59	0.43	1.04	1.04	1.03	1.14	0.82	0.82	0.76	0.79	
MEAN 19.96 20.06	19.95	18.93	19.86	19.83	20.03	20.23	20.08	20.08	19.99	20.04	20.05	19.98	19.95	20.10	20.04	16.61	19.30		X)	MEAN	.62	.12	245	000	940	. 78	10.		-2.17	-2.17	-1.85	-1.53	-1.12	16.0-	-0-67	10.01	
SAMPLE SIZE, N 7		7	-1		. ~	7	7	7	_ 1	- 1	- 1	7	7	1	7	- 1			SAMPLE	SIZE,N	7	1		- 1	7	7	- 1	- 1		7	7	7	7	_	- 1	- 1	
I ME	07.0	0.40	05.0	0.00	0.80	06.0	1.00	0	7:	07.0	1 4	5	9.	1.	30	6	•		TIME	-	0.0	0.10	0.50	0.40	0.50	0.00	0.10	000	1.00	0	7.	.2	0.30	4	5.	0.70	

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TOXEAXO

21230/13 NO. THAI

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MOVED	200	0.0	66.00	7 23	11 41	14.84	0.01	0000	21.02	17.17	21.13	21.85	0.0	1.98	4.80	8.05	_	m	_	$\circ$	20.72	-	21.54		MOVED	COM	0.0	4.29	11.38	17.62	21.76	21.30	36.36	36.42	35.93	36.39	4	0.0	6.28	-	14.62	8	7	$\infty$	0	
DISTANCE	INCK		0.99	2 70	01.4	3.62	100	3 1 5	61.7	1.09	0.40	0.13	0.0	1.98	2.83	3.24	3.63	3.61	2.40	5.49	0.55	0.29	0.53		DISTANCE		0.0	4.29	7.10	6.23	4.15	000	4.90	000	0.51	0.47	0	1.54	4-74	5.55	2.79	3.78	5.23	4.73	2.29	
05 pr.T	20 66	76.61	10.07	26.00	27.01	28.81	21.00	22.25	32.54	32.00	18.75	32.13	32.73	31.73	30.12	28.04	25.49	22.32	19.94	16.74	15.51	15.73	14.92		(	95 PCT	12.81	19.38	25.28	33.19	34.14	38.31	43.11	42.60	42.75	45.34	,,	42.07	38.88	37.02	32.84	29.73	25.89	19.43	18.78	
	200	11.03	11 71	14.80	19.23	24.72	77. 78	0 000	20 63	30.05	31.00	31.15	31.15	29.41	26.79	23.18	18.77	14.81	12.50	10.97	11.40	10.88	11.03				11.65	12.56	19.34	22.83	28.79	18.66	30.90	40.39	41.05	41.14	**	4T.14	33.53	26.01	25.68	22.30	16.43	14.44	10.98	
- CO-OR	35	1.1	1001	2 8 1	2000	1.25	100	100		0 0	0.00	0.48	0.48	0.71	1.02	1.48	2.05	2.29	2.27	1.76	1.25	1.48	1.19		- CO-08	SE	0.35	2.08	1.81	3.16	1.63	T. 59	2 14	0.67	0.52	0.36	,	000	1.64	3.36	2.19	2.27	2.88	1.52	2.38	
1)	NA DE	12.31	15 75	20.00	23.57	26.76	20 63	20.00	16.00	60.10	31.30	31.94	31.34	30.57	28.40	25.51	22.13	18.57	16.22	13.85	13.46	13.34	12.97		7)	HEAN	12.23	15.97	22.31	28.01	31.46	30.00	47.04	41.50	41.90	41.74		41.14	36.19	31.54	29.76	26.31	21.10	16.94	14.38	
()	U L	13.11	n 4	r u	1 4	) (	) 1	7	7	N (	V	$\sim$	2	13.87	5	5	5	5	4	4.				(72)	[	95	11	11	17.01	12	77	71	11	1 -	11	17	:	11 01	10.72	10.69	13.83	11.00	11.90	11.94	12.25	
ORD INATE-	2000	06.6	11 40	11 67	11.03	1.86	11.22	77.0	10.01	10.01	200	64.6	9.45	10.29	11.33	12.22	12.08	11.48	11.07	10.34	10.21	9.86	06.6	EX	ORD INATE-	5 PCT	9.26	10.18	9.83	8.79	8.73	8.30	66.7	400	8.60	9.20		9.20	8 3 9	8.24	8.04	7.96	7.78	8.23	8.11	1
- 00-09	36.	81.1	0.00	1 22	1 30	1.27	30	100		100	0.10	1.04	1.04	1.09	1.16	1.08	1.19	1.23	1.19	1.19	1.14	1.29	1.18	ST CENTER	- 00-0	SE	0.63	0.35	99.0	1.07	1.09	97.7	60.0	3	0.87	0.59	0	60.00	0.72	0.75	0.84	0.93	1.26	1.13	1.26	
Y)	MEAN	17 23	12.00	12.69	14.22	13.04	0000	12 10	07.71	64.17	17.71	11.15	11.15	12.08	13.23	13.99	14.03	13.49	13.01	12.28	12.08	11.98	11.84	- LT WRIST	()	MEAN	10.62	10.74	10.92	10.55	10.52	10.27	9.19	0 0	10.02	10.17		11.01	9.54	14.6	9.45	9.48	4.84	10.09	10.18	
0.5 05.	70 66	11.0	0.00	000	4.45	5.65	4 23	2000	46.7	T. 30	7.18	1.72	1.72	3.56	5.64	6.78	7.53	6.98	6.16	5.77	5.83	5.76	6.11	LANDMARK	(	95 PCT	15.65	14.53	13.58	12.50	7.88	4.13	2.35	1.0	0.86	1.04		1.04	4.13	6.95	10.38	40.88	11.04	13.44	15.48	1
DINATE	, ,,	4.32	7 40	25.1	101	-1.52	100	13.03	00.41	-4-03	00.4-	-3.73	-3.73	-3.40	-2.51	-0.94	0.36	1.16	1.89	2.77	3.34	3.88	4.32	_	RDINATE	•	14.79	11.73	6.31	2.41	2.43	11.0-	47.4-	-4-11	-3-38	-2.73		-2.13	-0.15	3.02	2.86	6.24	9.91	11.76	11.74	
- CO-0R	3 2 2	0.00	000	1.00	2.07	2.10	2 22	22.2	77.7	7. 38	1.10	1.66	1.66	2.12	2.49	2.35	2.19	1.77	1.30	0.91	0.76	0.57	0.55		0-00 -	SE	0.26	0.85	2.22	3.08	1.66	1.66	7.30	1 57	1.29	1.15		1.15								
X)	MEAN	17.6	4.00	4.10	3 26	2.50	0000	0000	0.0	67-1-	-1.11	-1.01	-1.01	0.08	1.56	2.92	3.95	4.07	4.02	4.27	4.59	4.82	5.21		X)	EAN	5	13.13	6.65	7.45	5.16	2	20.02	v -	4-	-0.84		10.84	· -				0		3.	,
SAMPLE	7	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	1	7	7	7	7	7	1	7	7	7	7	7		A	SIZE,N		4	4	7	7	-	- 1	- 1	- 1	. 9		9 4	0 4	7	7	7	4	4	4	
TIME	- :	0.0	01.0	,,		•		0 1		00	6.	0											1.00		TIME	4			0.50				•	•				0		1 1	•	5	0	-7	8	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 to Over-Head controller AT 0.0, +10.0, +47.3 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

MOTICN NUMBER - 22230 BACK ANGLE - 13

		ECS.	T. C.
1	GE	1.00 5	2 (6-0
i	RANGE	0.80 TJ 1.00 SECS.	0.60 TO 0.97 SECS.
TIME DATA	STO DEV	10.0	0, 0
	MEAN	0.89	0.74
SUB-MOVEMENT		LEFT FWD	LEFT REV

						LANDMARK	- NASION			(1)			
	TIME	01	X)	0-00 -	8	[]	λ)	0-00 -	2	(	[]	- 60-08	
	<b>⊢</b> :		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	
			20.6	1001	4.21	7.52	0.12	1.25		2.17	29.50	1.13	27.34
ч	01.0		3.03	7.03	0.10	5.95	0.62	0.62		1.65	31.65	1.21	29.67
	0 0 0		1.31	2.03	11.1-	4.40	0.26	0.62		1.27	32.10	0.96	30.52
0 0	000		0	16.1	-2.30	3.92	0.0	0.64		1.12	32.25	66.0	30.63
2 3	0.00		10.1	1001	- 2.83	3.10	40.0-	0.73		1.16	32.29	1.03	30.60
. <	04		0000	+00+	10.09	7.00	-0-15	0.84		1.23	32.38	0.98	30.78
t a	0.70		70.01	7 . 07	13.18	2.33	67-0-	0.78		1.09	32.38	1.04	30.67
: 0			000	2000	77.4-	2.58	-0.35	0.0		0.83	32.35	1.12	30.52
0	000		10.00	71.7	87.4-	19.7	-0.50	0.68		0.63	32.33	1.03	30.64
	000		1.01	+0.7	27.4	7.01	19.0-	0.51		0.23	32.27	0.91	30.78
	1.00		-0-21	1.99	-3.47	3.05	-0.53	0.53		0.45	32.08	0.91	30.58
	0.0	7	-0.21	1.99	-3.47	3.05	-0.53	0.58	-1.48	0-42	32.38	0.01	30 68
	0.10	7	2.43	2.13	-1.07	5.92	-0.35	0.79	-1.64	0.94	30.94	1-21	28.92
	0.50	7	3.70	2.00	0.43	6.93	-0.34	0.89	-1.80	1.11	30.30	1 33	28 12
X	0.30	7	4.18	1.51	1.69	99.9	-0.40	0.98	-2.01	1.21	30.09	000	77 07
u	0.40	7	4.59	1.21	2.60	6.58	-0.38	1.20	-2.35	1.53	20.00	1 22	27 01
_	0.50	7	46.4	0.93	3.41	6.46	-0.44	1.25	-2.49	1.61	20.71	1 15	16 - 17
7	0.60	7	5.34	0.83	3.89	6.79	-0.32	1.29	-2 44	10.1	20 50	100	27 00
×	0.70	7	5.54	1.03	3.85	7.22	10-15	1 41	-2 //		00.00	100	70 - 17
Z	0.80	7	5.66	40	) a	7 /	010	74.07	04.7	51.7	24.67	1.08	21.11
	0.00	7	5.82	1.06	70.4	7 2 2	000		67.7-	2.13	29.35	1-11	27.53
	1.00		100			000	0.00	D7 . T	90.7-	51.5	77.67	1.18	27.28
	•		2006	10.1	4.21	1.52	0.12	1.25	-1.93	2.17	29.50	1.13	27.34
					_	ANDMARK	- CERVICAL	AL E		2)			
	TIME	SAMPLE	X)	0-00 -	RDINATE	[	Y)	- 07-08	- STANT GAD	-		c	
	_	SIZEON	MEAN			OS DCT	MEAN		C OCT	100	7	X0-03	DINAIE
	0.0	7	76.0-	1.37	-3.21	1.28	-1-02	3 5	200	2000	ZA II C	SE	5 PCT
	0.0	1	-1.39	0.84	-2.77	-0-02	-1-47	1 . C y	14.03	0.19	23.+8	16.0	21.89
	0.20	7	11.85	0.73	-3 04	1000	17.	000	76.7-	20.0-	64.67	0.95	21.93
0	05.0	7	-1.99	0.67	00.4	000	1001	000	18.7-	00.00	73.05	1.01	21.96
~	0.40	7	-2.07	0.79	-3.36	000	71.7	000	13.57	00.00	20.62	1.02	21.86
-	0.50	7	-2.40	0.79	-3.70	-1-11	10.7-		20.61	10.01	23 53	1.00	71.17
-	09.0	7	-2.43	0.78	-3.71	-1.15	17.15	000	2000	46.01	23.57	66.0	16 - 17
~	0.70	7	-2.43	0.71	-3.60	-1-27	-2.35	100	10.4-	00.00	23.56	1.04	18.17
-	0.80	7	-2.45	0.80	-3.77	-1.13	-2.44	0.83	13.8.	- 1.07	23.67	000	22 04
	06.0	7	-2.58	0.83	-3.93	-1.22	-2.57	1.03	-4.25	-0.88	23.64	0.07	22.05
	1.00	7	-2.26	0.76	-3.50	-1.02	-2.41	0.19	-3.71	-1.11	23.58	1.04	21.87
_	0.0	7	-2.26	0.76	-3.50	-1.02	-2.41	0-79	-3.71	-	10	100	21 07
_	01.0	7	-2.13	0.72	-3.38	-1.01	-2.34	1.04	-4-04	10.65	1 10	100	22 12
_	03.0	7	-2.34	0.87	-3.47	-0-60	-2.39	1.22	100	08 01	1	000	37 36
_	0.30	7	-1.90	66.0	-3.53	-0.28	-2.49	1-14	-4-36	10.62	2		22 22
	04.0	7	-1.65	0.88	3	-0-21	-2.47	1.00	-4-11	-0-83	2	0 0	22 25
	05.0	7	-1.43	1.02	-3.10	0.25	-2.47	1.01	-4-14	-0-81	1		22 23
-	09-0	7	-1.26	1.11	-3.08	0.55	-2.36	1.17	-4.29	-3.44	0.0	0.07	22.03
~	0.10	7	-1.18	1.10	-2.99	0.62	-2.07	4.25	-4-11	-0.03	23.57	0.99	21.95
_	09.0	7	-1.04	1.27	-3.13	1.05	-2.02	1.26	-4.08	0.04	10	0.91	22.04
-	06.0	-	-0.04	1.40	-3.23	1.35	-1.95	1.24	-3.99	0.00	-	76.0	21.96
	00.	1	-0.97	1.37	-3.21	1.28	-1.92	1.29	-4.03	0.19	23.48	16.0	21.89

4 UVED CUM 0.0 3.78 5.35 6.18 7.35 7.35 7.35 7.35 8.05 8.20 8.20 8.77

DISTANCE INCK 1 NCK 3 - 0 0 - 8 0 - 8 0 - 8 0 - 3 0 - 3 0 - 1 0 -

CDXEACO

33.68 33.68 33.68 33.68 33.68 33.99 34.09 34.09 34.09 35.88 32.89 32.89 32.89 31.59 31.24 31.15

DISTANCE INCR 0.0 0.5 0.28 0.28 0.28 0.25 0.21 0.11

0.0 0.0 0.17 00.18 00.23 00.23 00.23 00.23

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STANCE MOVED									1	' -		0.26 18.97												0.11 2.02		CTANCE HOUSE											5.95 15.49								1.18 12.28		
10	95 PCT	24.03	24.26	24.57	24.24	24.11	24.15	25.07	25.98	24.69	24-63	24.72		24.12	24.44	24.35	24.35	24.38	24.59	24.19	24.05	23.89	23.89	24.03		1010	1	24-04	24-18	24.84	25.61	26.05	26.22	25.10	25.03	25.96	28.32	28.32	25.38	25.37	25.09	25.95	26.40	25-82	24.99	,,,,,	***
	5 PCI	21.05	21.23	21.58	21.79	21.82	21.92	21.70	21.22	21.86	21.91	21.78		21.18	21.89	21.93	21.89	21.71	21.29	21.65	21.56	21.37	21.27	21.05		POTNATE	3	21.23	21.52	21.55	21.27	20.82	20.87	25.10	25.03	25.96	28.32	28.32	26.38	75.37	25.09	22.68	21.75	21.76	22.05	22 22	66.63
- C0-0R	SE	0.91	0.92	0.91	0.75	0. 10	0.68	1.03	1.45	0.86	0.83	0.00	0	0.0	0.78	4.0	0.75	0.81	1.00	0.17	0.76	0.77	0.80	16.0		- 60-08	) 4	0.86	0.81	1.00	1.32	1.60	1.63	0.0	•	000	0.0	0.0	0.0	0.0	0.0	1.00	1.42	1.24	0.89	110	0.0
7)	MEAN	22.54	22.74	23.37	23.01	16.77	23.34	23.38	23.60	23.28	23.27	23.25	2000	63.63	23.16	47.67	23.13	23.04	25.94	25.34	22.81	22.63	22.58	22.54		()	MEAN	22.63	22.80	23.19	23.44	23.43	23.54	25.10	25.03	25.90	28.32	28.32	26.33	25.37	25.09	24.32	24.37	23.79	23.52	22.44	10007
	95 PCI	0.93	1.32	0.27	0.15	0.05	0.31	11.34	19.45	0.11	0.61	0.82	0	79.0	0.87	0.00	0.75	0.17	0.50	0.43	0.61	0.75	0.83	0.93	( 5 )	(	1 79 50	8.03	7.80	7.52	6.40	6.62	6.53	1.63	1 46	2.61	6.62	6.62	3.36	1.98	2.01	9.22	9.03	7.65	8.45	8. 62	30 00
COLORD INALE	> PCI	-2.66	-2.63	-2.33	-2.46	18.7-	77.7	-20.25	-33.79	-3.27	-3.36	-3.15	-2 15	1000	-3.38	10.01	-3.33	-3.01	-3.15	-2.95	-2.88	-2.79	-2.76	-2.66		RD INATE-		4.55	4.64	3.81	3.65	2.85	1.70	1.63	1.46	2.61	6.62	6.62	3.36	1.98	2.01	16.0-	-0.31	1.99	3.50	4.113	000
5.0	35	1.10	1.20	0.79	0.80	0.87	26.0	9.63	16.22	1.03	1.21	1.21	1, 21	7707	1.30	17.7	1.24	15.0	1.11	1.03	1.06	1.08	1.10	1.10	LT ACRUMION	7 - CO-ORD	SF	1.06	16.0	1.13	0.84	1.15	15.7	•		000	0.0	0.0	0.0	0.0	0.0	3.09	2.85	1.73	1.51	1.40	0
	MEAN	-0.86	-0.65	-1.03	91.1-	0001	07.1-	14.40	-7.19	-1.58	-1.37	-1.17	-1.17	707	97.1-	7.7	67.1-	74.1-	-1.33	97-1-	-1.13	-1.02	96.0-	-0.86	- LT ACE	()	MEAN	5.29	6.22	2.67	5.03	4.73	77-4	1.003	1.46	2.61	9.65	6.62	3.36	1.98	2.01	4.16	4.36	4.82	2.97	6.33	1
100 00	75 PC	5.29	4.72	4.03	4.52	20.77	10.0	C+ - 1 7	30.65	3.54	3.77	3.82	3.82	30.0	4.10	1000	17.4	10.4	4.10	50.03	5.38	60.0	5.55	5.29	LANDMARK	()	95 PCT	0.81	-0.01	-C-31	-1.15	-1.59	1, 20	-1.45	-1-48	-2.59	-6.30	-6.30	-3.02	-1.55	-1.40	-0.15	0.02	0.25	0.46	69.0	
T DO I	200	-0.04	-0-11	70.	97.1-	07.7	C1.1-	1.00	-16.85	-1.69	-1.77	-1.51	-1.51	1111	71.1	72.0-	0.00	0000	20.00	-0.50	-0.34	04.0	-0.20	-0.04		RDINATE-	5 PCT	-1.94	-2.62	-3.59	-3.68	-4.83	27.	-1.45	-1.48	-2.59	-6.30	-6.30	-3.02	-1.55	-1.40	-3.43	-2.46	-2.47	-2.71	-2.62	
3 0	2		1.41		•	•	•	•					1.63		1.58											0-00 -	SE	0.84									0.0								0.97		
NE AC	2 43	79.7	2.30	1 63	1.62	71.1	4.17	100	06.90	0.93	1.00	1.16	-	u u	17.70	-	. 0				0 4		0	0		X)	MEAN	0	-	-	-2.41	20	U -	4 -	1	N	5	m	0	S	+	-	N	-	-1.12	3	
N. J. L.	7	- 1			- 1	- 1	- 1	- 1	- 1	-	1	1	7		7	1	- 1	- 1	- 1	- 1	- 1	- 1	- 1			SAMPLE	-	٥	9	9.	4 (	9 0	0 -	4	1	1	-4	1	1	1	7	2	2	9	S	2	
1		•	0.10		•	0			0	0					0 - 20	0			0	•	•		•			TIME	-	0.0	0	2	0 0.30	0	0	0	0	0	1.00	0.0	0.10	0	0	0	0	0	R C.70	0	

LANDMARK - SUPRASTERNALE

MOVED	COL	0.0	19.4	13.57	18.77	70.84	30.75	36.12	37.06	38.41	39.48	40.31	0.0	3-64	7-06	0 4	1 3	10	) 1	- prod	1 10	S	37.65		MUVED	MIL	0	0.26	0.31	0.38	0.73	0.79	00.0	00.1	0	1.57	0.0	0	0.0	11.0	0.50	2000	0.0	0.63	69.0	
DISTANCE	INCR	0.0	4.61	8.96	9.30	3.91	3.91	5.31	76.0	1.34	1.08	0.83	0.0	3.44	3.62	2 63	1 4 0 4	7	7-03	4 - 42	1.99	2.16	1.75		DISTANCE	INCR	0.0	0.26	0.05	10.0	0.31	60.0	0.12	01.0		0.39	0	0	000	9 0	2	100	4.00	0.10	90.0	1 .
(	95 PCT	13.29	18.67	28.81	17.14	47.05	39.70	C+ +	44.65	45.29	46.16	45.60	5	8	2	10	) 1	- 5	1 1	1	0	9	13.29		(	95 PCT	14	4.46	4.50	4.50	4.54	4.55	4.53	4.00	7 . 7	4.20	4.20	4 91	4.61	77.7	4 55	4.41	4 - 43	4.47	4.51	
DINATE-	5 PCI	12.31	15.79	21.18	73.40	10.55	10.00	17.05	40.57	45.49	43.66	43.83	43.83	36.56	30-46	32.07	27.01	10.21	10.32	9.30	12.52	12.59	12.31		DIVATE	, "	3.33	3.34	3.34	3.29	3.29	3.43	3.58	3.51	0 4 6	3.54	3.54	3 61	10.6	7 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 .	3.33	3.36	3.33	3.31	3.34	
- CU-URD	SE	0.30	0.88	2.32	0.40	18.0	1.20	3.40	1024	0.85	0.76	0.54	0.54	2.97	4.65	2.54	3.15	4-51	7.07	5.47	2.39	1.09	0.30		- C0-08	) U	0.35	0.34	0.35	0.37	0.38	0.34	0.29	0.30	0.20	0.20	0.20	000	0.10	0.00	0.37	0.32	0.33	0.35	0.36	
7-		12.80											44.72	41.43	38.13	36.23	32.18	27.77	21.92	18.27	16.44	14.39	12.80		7)	MEAN	3.90	3.90	3.92	3.90	3.91	3.39	4.30		7	3.87	3.87	200	3.21		3.46	3.5	3.00	3.89	3.92	1
(	n	13.66	⊸ .	-	4 "	0 0	4 -	4 (	9		10.09	9.87					•	,			9.84		10.66	191	[	95 PCT	7.24	7.51	7.88	8.30	7.66	7.48	1.53	7 57	7.65	7.71	7.71	7 41	7.39	7.66	7.63	7.48	7.32	7.43	7.54	
U INATE	5 PCI	8.52	91.6	8.73		100	0.00	10.00	9.20	8.57	8.61	6.39	9.39	8.76	7.24	6.79	6-11	5.60	6.72	6.86	8.06	8.32	8.52	J	D INATE	5 PCT	5.82	5.96	5.62	5.18	5.27	5.49	5.59	74.0	2000	5.73	5.73	0	5.87	7	5.28	5.30	5.66	5.73	5.56	
- CO-0RUI	SE	0.65	0.57	0.88	1 15	1 10	1 0%	5	000	44.0	0.45	0.15	0.15	0.39	0.86	0.89	1.00	1.31	0.97	1.27	0.54	0.00	0.65	HANTER	- CO-ORD	SE	0.43	14.0	0.69	0.95	0.73	0.61	0.0	0.00	2 4	09.0	0.60	0.46	0.46	0.66	0.72	0.65	0.50	0.52	09.0	-
7		9.59											9.63	04.6	8.64	8.25	7-74	7.75	8.31	8.95	8.95	9.31	65.6	- LT TROCHANTER	١)	MEAN	6.53	6.74	6.75	6.74	94.9	6.49	0.04	0.41	6.38	6.72	6.72	4.65	6.63	200	6.45	6.42	6.49	6.58	6.55	
[	95 PC	18.65	11.13	15.28	27.72	000	2 10	4.4	10.4	-0.32	61.0-	-0.24	-0.24	0.95	3.16	6.60	11-43	15.75	20.02	21.24	18.99	18.12	18.65	ANDMARK	(	95 PCT	5.40	5.49	5.51	5.60	5.44	5.46	0,40	5.55	5.47	5.38	5.38	5. 31	5.41	5.57	5.55	5.51	5.50	5.47	5.45	1
0	2 7 7	16.90	64.01	9.00	100	000	7.50	1000	67.4	-3.53	86.7-	-1.42	-1.42	-0.60	-0.45	-0.28	1.86	3.22	6.64	10.27	14.10	16.08	16.90	_	DINATE	2	3.05	3.27	3.34	3.38	3.23	3.12	3.20	3.10	3-10	3.41	3.41	3.51	3.43	3.16	3.06	3.02	3.27	3.30	3.23	
- CO-OR	SE C	0.53	000	16-1	04.0	1	60.0	2.70	41.1	86.0	0.85	0.36	0.36	14.0	1.10	2.10	2.97	3.82	4.08	3.34	1.49	0.62	0.53		- C0-0R	w	0.72	0.68	0.66	0.68	0.67	0.11	0.0	0.00	0.72	0.00	0.60	0.55	0.61	0.74	0.76	0.76	0.68	0.66	0.68	
Y)	A A A A	11.11	10.01	12.14	14.0	74.0	10.01	7 2 2	-2.33	-1.93	95.1-	-0.83	-0.83	0.18	1.35	3.16	6.65	64.6	13.33	15.75	16.54	17.10	17.71		X )		4.22	4.38	4.42	64.4	4.34	4.29	4.50	4.33	4.28	4.39	4.39	4 . 4 .	4.42	4.37	4.30	4.27	4.38	4.38	4.34	
SAMPLE	17E , N	n 4	0 \	0 -	0 4	0 4	0 4	<b>0</b> 4	0	A (	Λ.	4	4	4	5	5	2	9	9	9	9	2	5		AMPLE	SIZE,N	7	7	7	2	7				1	1	7	7	1	1	1	7	7	1	7	,

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OVED	500	3.0	.74	.82	06.	60.	.24	.33	.42	•55	.83	0.	.13	.25	.35	.37	.45	.59	.73	.76	96.	1.15		OVED	COM	0	66.	.73	.30	3.21	.26	56.	15.	18.	0	.39	0.	.50	.13	68.	.61	04.	.17	.82	, O.	07-	5.70	
Z.	ď	8		90	6	6	<b>.</b>	6	6	3	80		2	_	0	~	1	+	0	2	0	80		ANCE MO														0	3	٥	2	6	1	2	2	1	. 5	
DISTAN	ON C	0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0	1.0		DISTAN		0.0	0	0	0	16.0	7.1	0	0	0	0.0	0	0.0	0.0	0.0	0.7	0.0	0	0.7	0.6	0.5	0	0.50	
	95 PCT	13.98	14.01	3	13.79	3	4	3	13.84	13.81	13.81	13.81	13.89	13.86	13.70	13.71	13.69	13.82	14.07	14.00	14.41	13.96		(	95 PCT	22.36	22.54	23.48	24.00	25.08	25.74	25.91	26.35	26.50	20.07	61.97	26.79	26.12	25.63	25.10	24.45	24.09	23.42	22.79	22.74	22.54	22.36	
INA TE	5 PCT	8.95	9.11	9.15	9.28	9.23	9.26	9.14	9.23	9.21	40.6	9.04	9.22	9.26	9.28	9.28	9.35	9.20	8.95	8.93	8.65	8.74		INATE	5 PCT	19.69	20.14	19.76	20.37	20.98	22.23	16.77	23.51	23.66	25.52	75.57	23.32	23.76	23.48	45.59	21.42	20.64	19.94	19.55	19.51	19.84	19.69	
050-03		1.53	1.50	1.45	1.37	1.39	1.45	1.48	1.41	1.40	1.45	1.45	1.43	1.40	1.35	1.35	1.32	1.41	1.56	1.55	1.76	1.59		C0-080						1.25							90	7.5	99	11	35	0.5	90	66		82	78	
- 7	MEAN	11.40	11.50	11.53	11.53	11.52	11.63	11.57	11.53	11.51	11.43	11.43	11.56	11.56	11.49	11.50	11.52	11.54	11.52	11.46	11.53	11.35		- 7	MEAN	21.33	21.34	21.52	22.19	23.33	23.99	24.44	24.73	50.67	77.67	65.67	25.05	24.94	24.55	23.85	22.94	22.37	21.68	21.17	21.12	21.13	21.13	
21)	95 PCT	7.49	7.25	7.25	7.19	96 • 9	6.85	2.00	7.12	7.05	7.33	7.33	7.12	66.9	7.00	7.06	7.03	66.9	6.85	6.94	7.23	7.25	231	) (	_					8.87							7.59	8.26	8.65	8.72	8.85	8.84	8.83	8.68	8.67	8.34	8.83	
D INATE	5 PCT	4.56	4.29	4.31	4.22	4-20	4.49	4.22	4.25	67.4	4.32	4.32	4.45	4.36	4.26	4.25	4.17	4.48	64.4	4.30	4.38	4.42	CENTER	D INATE	5 PCT	5.06	5.48	4.88	4-74	4.82	4.53	4-12	7000	3.14	200	2.08	3.68	3.85	60.4	4.42	4.36	4.61	42.4	4.90	5.07	5.06	5.06	
- CO-080	SEA	0.89	06.0	06.0	0.90	0.85	0.72	0.85	0.87	0.87	0.95	0.92	0.81	0.80	0.84	0.86	0.87	0.77	0.72	0.79	0.88	0.86		- CO-ORD	SE	1.14	0.88	1.37	1.48	1.24	1.30	1.37	04.1	1.29		41.1	1.19	1.35	1.39	1.31	1.37	1.29	1.25	1.15	1.10	1.00	1.14	
	MEAN	6.03	5.77	5.78	5.71	5.59	2.67	5.61	5.68	5.62	5.82	5.82	5.79	5.68	5.63	5.65	5.60	5.73	5.67	5.65	5.83	5.83	. LT SHOULDER	١)	MEAN	6.93	16.9	7.13	7.16	6.85	9.99	6.36	0.0	7.80	10.0	2.03	5.63	0.05	6.37	6.57	19.9	6.72	61.9	61.9	6.87	6.70	6.93	
ANDWAKK -	95 PCT	21.60	21.44	21.65	21.94	22.05	21.92	21.89	22.00	21.88	21.79	21.79	21.67	21.81	21.88	22.04	22.13	21.82	21.62	21.80	22.01	21.94	ANDMARK -	-	95 PCT	1.90	0.87	0.32	0.08	-0.34	-0.07	-0.20	-0-13	10.0-	11.00	10.84	-0.84	60.0-	0.11	-0.07	2.01	0.37	0.91	1.03	1.16	1.63	1.90	
NATE-	5 PCT	19.54	19.11	18.75	18.55	18.74	18.87	18.84	18.81	18.71	19.13	19.13	19.22 @	19.14	18.94	18.77	18.60	19.00	19.04	18.80	18.69	18.70	۲۷	INATE	5 PCT	-0.74	-1.61	-2.35	-2.13	-1.36	-2.37	-3.05	-3.10	12.51	20.01	-3.11	-3.11	-3.37	-2.82	-2.24	-2.04	-2.18	-2.03	-1.35	-1.03	-0.92	-0.74	
- C0-08C	SE	0.63	0.71	0.83	1.03	1.01	0.93	0.93	16.0	0.97	0.81	0.81	0.75	0.82	0.83	1.00	1.08	0.86	0.79	0.91	10.1	66.0		D-ORE	w	31	16	32	24	0.31	20	3.7	7	0 0		60	69.0											
×	MEAN 20.32											20.46	20.45	20.48	20.41	20.40	20.36	20.41	20.33	20.30	20.35	20.32		×		0.58	-0.37	-1.02	-1.02	-0.85	-1.22	-1.62	16.1-	20.2-	01.7	96.1-	-1.98											
SAMPLE	SIZE,N	· v	2	S	S I	2	2	5	2	2	2	2	2	2	2	2	2	. 5	2	2	4	4		SAMPLE	SIZE,N	9	9	7	7	7	7	- 1	- 1	- 1	- 1	,	7	7	7	7	7	7	7	1	7	9	9	
	<b>-</b> c	10		.30	040	. 50	09.	.70	.80	06.	00.	0.0	0.10	0-20	0.30	0.40	0.50	09.0	0.10	08.0	06.0	1.00				0.	07.	.20	.30	0.40	.50	• 60	200	900		000	0.0	0.10	0.50	0.33	0.40	0.50	09.0	0.10	0.80	06.0	1.00	

MOVED	NOU NO	0.0	1.44	3.72	7.22	11.90	95.57	17.31	19.34	20.00	22.09	c	200	00.7	+ T · O ·	10.00	14.04	17.02	1/0/1	19.23	20.32	5i.09	21.37		01770	217	50.0	0.0	10.0	17.30	71.31	25.92	32.25	33.47	34.60	35.49	36.13	0	3 . 6	7 7	- 0		00.11	000	11.77	20 53	CC.07	30.84	23.64
DISTANCE	INCR	0.0	4.	2.		0	0	9	0	20	0.69	c		. 0			0.40		5	. 5	0	1.	.2		DICTANCE	7	2 0	2.0	7 17	7.45	4-01	4.61	6-34	1.22	1.21	0.81	99.0	C	3-46	1 4	, 7			70.4	ν. 1.	7.14	7707	2.31	1 63
	u	u	S	-	43 6	) r	- (		<b>-</b>	AL	33.27	C.	) -	4 0	r C	v (	10.00	1 "	-	$\infty$	0	O	5			u	1 3	-	- (*	) (4	1 4	37.47	()	-	-	$\sim$	N	~	10	1 -	4 00	0 4	7 C	7	- U	71.67	7	0	
DINA	5 PCT	0	2	+	0	D 4			0 0		31.29	31. 29	20.40	25.53	17 60	00.17	12	11 42	71 - 17	10.99	10.84	10.40	10.47		DINATE	S DCT	12.30	14.63	70.51	23.29	30.72	33.62	32.13	37.76	39.73	40.79	41.00	41.00	34.62	29.66	27.69	77.84	23 52	17 16	07.17	17.01	000	16.77	000
- C0-08	SE	1.64	1.02	0.72	7.30	3.10	0.0	1.10	0.0	78.0	09.0	0.40		0 0	7 2 20	0 0	2 2 2	400	40.7	7.40	1.8/	1.17	1.64		- CO-08		0.55	1.00	0.00	3.08	0.72	1.17	5.17	1.09	0.59	0.43	0.36	0.36	2.45	3.58	3-74	2000	2.18	2 2 2	5.63	1 72	7	77.7	4
7)	MEAN	13.17	14.29	16-15	13.61	22.42	20.00	28.82	30.50	31.64	32.28	32.28	) ( ) ( ) (	20.00	22 61	10.01	12.7	2 4 5	00.01	76-47	13.91	13.30	13.17		()	MEAN	13.24	15.50	21.91	28.33	31.90	35.54	40.51	39.55	40.70	41.50	41.59	41.59	38.53	35.53	33.30	31.18	27.00	20.00	17 04	0 7 - 7	0 10	71.47	1 2
(	95 PCT	12.38	13.80	15.34	10.47	15.75	14 70	14.19	13 5	13.03	12.99	~	1 4	1	L	1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14	1	2	20	2	2	172	[	· LC	1 ~	10	10	10	IN	12.06		-	-	-	-	11.14	10.55	10.88	11.04	11.01	10-64	100	1000	11.31	10.11	16.77	
D INATE	5 PCT	10.23	10.54	11.54	12 23	12.66	12 00	11 15	70 27	10.04	9.73	9.73	10.71	11.62	11.55	000	10-81	10.52	70.00	10.01	\$0.0T	10.37	10.23	~	DINATE		8.77	9.86	96.6	19.6	77.6	19.61	8.52	9.05	8.85	40.6	6.45	9.45	9.72	8.50	8 . 10	7.95	7.82	2000	70.7	2 2 2		***	
- CO-0RD	SE	99.0	66.0	1.16	000	0000	000	000	000	10.07	0.99	66.0	1.04	1.02	1 33	7 2	1.45	000	67.7	1.00	2.0	0.08	99.0	ST CENTER	- CO-ORD	u v						0.73						0.52	0.26	0.73	0.00	0.94	0.86	19.0	1 2	88	000	00.1	
١)	MEAN	11.30	17.77	13.44	14.33	14.10	13 43	10.00 ar.	11.07	11.43	11.36	11.36	12.41	13.30	13.74	13.45	13,19	12.64	10.01	07.71	11.74	11.48	11.30	- LT WRIS	A	MEAN	10.31	11.22	11.24	11.24	11.18	10.86	10.08	10.24	10.14	10.01	10.29	10.29	10.14	9.72	9.57	9.48	9.73	101	0.10	0.0		07.07	
(	95 PCT	6.45	2000	27.6	2.45	4.7.7	70.4	1.67	200	0.00	1.35	1.35	3.25	5. 3.R	7-33	6.56	5.99	6.12	77.0	0.00	07.0	11.0	6.45	ANDMARK	(	95 PCT	15.62	14.73	12.73	11.61	6.97	3.52	2.84	1.20	0.74	0.74	0.83	0.83	3.93	5.72	6.88	8.03	10.19	12.03	17.19	14.78	. E 20	77.66	
DINATE	5 PCT	3.17	30.6	3.22	1.29	-0-11	-1.62	-2-49	-2 B7	12.99	-2.76	-2.76	-1.57	-0.10	0.97	2.31	2.80	2.75		000	0.43	3.66	3.17	ر	DINATE	5 PCT	13.86	13.24	8.40	1.96	2.92	0.77	00.9-	-3.20	-3.49	-3.41	-2.32	-2.32	-1.90	-0.14	1.20	1.74	4-65	7.72	8.4.	12.21	3 4	12.00	7
- CO-OR	SE	1.30	***	10.0	1.27	1.41	1.43	1.27	1 - 1	1.12	1.25	1.25	1.47	1.67	1.94	1.30	16.0	i. 33	000	000		1.08	1.00		S	SE	0.54	0.46	1.32	2.94	1.24	0.84	5.69	1.34	1.29	1.27	96.0	96.0	1.78	1.79	1.73	1.92	1.69	1.54	2.68	0.63	144	0 0	1
×	MEAN	4.81	10.4	77-4	3-37	2.20	0-73	-0-41	-0.07	) -	07.0-	-0.70	0.84	2.64	4.15	4.43	04.4	44.4	4 2 4	000	00.	4.73	4.81		· X)		14.74	13.98	10.56	6.78	46.4	2.14	-1.58	-1.30	-1.38	-T.34	-0.75	-0.75	1.02	2.79	40.4	4.89	7.42	10.32	12.80	13,25	71.71	17 17	
SAMPLE	SIZEON	<b>0</b> u	n 4	n «	0 0	0	9	0	) (	0 0	9	9	9	9	9	9	9	9	4	0 4	ט ע	n .	0		A	SIZE.N		2	2	9	9	9	2	2	2	4	4	4	4	9	7	S	5	0	, v	1	4	1	*

ZWFJKZ

DXXXX

HVHT

ZWLJWZ

TOKEAKO

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTICN NUMBER - 11140 BACK ANGLE - 13

	٥	DACK ANGLE - 15	n -4			
SUB-MOVEMENT	MEAN	TIME DATASTO DEV	T A	RANGE	1 :D	
KGHT FWD	0.80	9.10	CT 03.0	CT	1.33 SECS	SECS
RGHT REV	0,89	0.11	SO TO 1 07 67 6	<u></u>	((-	SIS

																					i																						
5 PCT -1.09	1.0	1.0	4.	200	10	0	.2	3	3	4.	1.	1.	.3	.2	3	-0.01	4.	0.8	1.0		NAT	5 PCT	0.1	1.3	1.0	000	0	2	.3	4.0	9.	0.5	7.0	3	0.0	7.	0.1	-0.56	1.0	6.0	1.3	1.2	
SE 0.97 1.71									9.	9.	.3	0	7.	0	6.	0.75	1.	8	6.	ָ	9-OR	SE			000	. 0	0000	4	.6	0	7.	0	0	6		1.	8	0.93	0		80	20	
MEAN 0.50 1.07	9.	21	-	1 4	7	9	00	6	6.	7	8	.5	2.	6.	9	1.22	8	9.	.5	CERVI	1	MEAN	-	7.	0.	0 1	- 0	0	3	2.	2.	4.	4.	2.	4.	.3	-	16.0	1.	4.	?	0	
95 PCT 9.04 7.78	0.	30	. 1	- 0	8	0	4.	.5	5	.5	0	7.	.3	33	3	8.46	9.	0	0	ANDMAKA	-	95 PCT	000	7.	20			4	1.	. 2	7	2.	.2	0	6.	6.	7.	1.00	6.	.2	7.	2.	
5 PCT 5.31 4.65	7	0 1			5	1	9	1.	7.	4.	9.	0	0	0	3	5.34	.3	3	3		DINAT	5 PCT	2.0	7.7	7.7	200	2.0	2.2	1.7	2.1	2.5	1.8	1.8	5.6	2.3	2.3	5.4	-2.47	2.3	2.3	2.4	2.5	
SE 1.14 3.95	7	- "	7.	. 4			1.	1.	1.	5	0	6.	0	6.	0	0.95	0	1.	7.	1		SE		0 1	- 1			0 00	1.	0	0	6.	6	7.	0	0.	0	1.06	0	0	-	7.	
MEAN 7.18 6.22	7.	3	0	500	9	5	5	9.	9.	6.	6	9.	9.	9	9.	06.9	2	7	-		1	MEAN	0 -	7.7	000			6.0	4.0	4.0	0.5	0.3	0.3	0.8	0.7	1.0	9.0	-0.14	9.0	0.5	9.0	9.0	
SIZE, N	7	- 1	- 1	- 1	7	_	7	7	7	7	7	7	7	7	7	7	1	7	7		A A	12E,	- 1	- 1	- 1	- 1	- 1	_	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
H 0 0		. a	4	0 4	-	8	6			7	.2	.3	4.	.5	9.	0.10	30	6.	0		TIME		9.	- 1		2 4	0 0	9	1.	8	6	5	0	7.	.2	.3	4.	0.50	9.	1.	30	6.	

AUVED CUED COURT C

DISTANCE INCR DO:00 00:00 00:33 00:13 00:15 00:15 00:10 00:10 00:10

25.69 26.24 26.26 26.26 26.26 26.34 26.33 26.03 26.03 26.03 26.03

5 PCT 22.08 21.98 22.10 22.20 21.96 22.25 22.17 22.52 22.46 22.46

SE 11.10 11.27 11.27 11.27 11.27 11.07 11.07

1.42 1.75 1.83 2.09 2.13 2.13 1.72 1.83 2.42 2.42 3.25

CO-URDINATE

2)

0.00 0.54 0.73 0.73 1.03 1.03 1.03 1.03 2.23 2.23 2.33

25.63 25.63 25.63 25.63 25.63 25.63 25.63 25.63

222.85 222.39 222.50 222.50 222.50 222.52 22.52

10.05 1.05 1.05 1.05 1.05 1.05

3.25 2.91 2.88 2.61 2.61 2.47 2.47 2.45 1.93 1.93

ZWCJWZ

29.04 29.10 28.55 28.15 28.09 27.94 27.88 27.88 27.88 27.80 27.95

0.94 1.09 1.26 1.26 1.28 1.28 1.27 1.27

30.58 30.58 30.56 30.19 30.19 30.07 29.94 29.98 29.87 29.87

55.61 20.03 20.04 20.03 20.04 20.04 20.04 20.04

ZMFDKZ

DISTANCE INCR INCR 10.0 0.62 0.62 0.62 0.62 0.62 0.12 0.12

95 PCT 31.666 32.54 32.50 32.43 32.47 32.47 32.42 32.26

5 PCT 28.05 28.05 28.26 28.56 28.56 28.75 28.95 29.22 29.22 29.22

SE 1.10 1.36 1.29 1.18 1.14 1.06 0.93 0.97

MEAN 29.80 30.31 30.34 30.59 30.59 30.59 30.59 30.59 30.59

95 PCT 3.87 3.87 4.38 4.75 4.75 4.97 5.35 5.36 6.36

CHERON

CO-ORDIVATE

LANDMARK - NASION

LOKBAXO

	M CVC	710	0.0	0.43	0.61	0.77	1.04	1.23	1.39	1.05	2.63	2.85		2.0	75.0	1 0	000	100	7 - 7 - 7	1000	2 15	7 7 7 7	2.56			MOVED	K:00	0.0	0.95	1.23	1.61	1.94	2.51	3.28	000	7.13	8.95	0	2 4 5	1.15	1.85	2-46	7.62	3.52	3.91	4.28	4.50	4.68
	PICTANCE	,	0.0	0.43	0.18	0.16	0.27	61.0	71.0	0 0	0.00	3.20			70.00	11.0	000	20.00	2.0	0 0 0	44.0	0.10	0.22			5	INCR	0.0	0.95	0.27	0.38	0.33	0.56	0.78	0 0	2.51	1.76	0.0	0.63	20.0	69.0	0.61	0.52	0.54	0.39	0.37	0.22	0.18
		5 PCT									25.27	25.16	7 5	25.07	00 70	24 70	74.54	24.21	24.31	26.37	74.33	24.37	24.29			0 (	95 PCT	24.66	25.18	25.44	25.74	25.98	26.25	24.07	26.62	26.06	56.09	26.09	26.43	26.06	25.62	25.29	25.14	24.90	24.82	24.83	24.73	24.66
	AT AN TO	5 PCT	20.41	20.42	20.36	50.69	20.74	20.13	10.07	07 07	21.04	21.05	21 05	21 10	21 11	20 02	20.00	21-32	21.09	20.95	20.76	20.46	20.41			DINATE	5 PCT	20.13	68.67	19.88	20.05	20-42	20.85	22 25	22.82	23.37	23.22	23.22	23.48	23.25	22.87	22.50	21.95	21.55	21.08	20.59	20.33	20.13
	- C0-03	SE	1.18	1.12	1.15	1.02	1.01	10-1	10101	1000	1.29	1.25	1 25	1 2 2	1	0 00	1.09	0.88	0.98	1.04	1.09	1.19	1.18		0	1 00-03	SE	1.38	1901	1.70	1.73	7.10	1.65	7007	1.16	0.82	0.87	0.87	0.93	0.86	0.84	0.35	16.0	1.02	1.14	1.29	1.34	1.38
	/)	MEAN	22.35	22.25	22.25	22.37	22.40	22.55	20.00	22.47	23.15	23.11	23.11	23.13	23.15	22.83	22.73	22.70	22.70	22.60	22.54	22.41	22.35		,	1	MUM	22.40	46.77	22.50	25.30	63.60	23.57	74.34	24.72	24.71	24.50	24.56	24.35	24.50	24.25	23.89	23.55	23.23	22.35	22.71	22.53	22.40
(8)	()	35 PCT	1.58	1.63	1.75	11.1	2 22	2.18	2 33	2.98	3.47	3.73	3.79	3.16	3.00	2.75	2.65	2.72	2.84	2.31	1.65	1.38	1.58	( 7		1 1 1 1	45 PUI	-6.31	10.43	15.85	10.18	7/ - 6 -	10.34	14.73	-4.55	2.35	-3.42	-3.42	-3.02	-3.36	-3.83	-4-48	+6.4-	-5.22	-5.80	-6.16	-6.33	-6.31
	RD INATE-	5 PCT	-2.06	-1.58	-1.35	17.1-	26.01	-0-73	-0.25	-0-19	-0.21	-0.20	-0.20	-0.22	90.0	-0.24	-0.59	76-0-	-1.30	-1.43	-1.58	-1.49	-2.06		DIMATE	LINAIE	2.0	74.40	17.6-	60.6-	000	01.01	01.0-	-7-13	-6.71	-9.84	-6.42	-6.42	-7.20	-7.66	-8.15	-8.31	-8.50	60.6-	-9.02	-9.22	-9.32	64.6-
SUPRASTERNALE	- 00-0	SE	1.11	66 0	46.0	000	0 0	0.89	0.80	16.0	1.12	1.22	1.22	1.03	06.0	0.91	0.59	1.11	1.26	1.14	0.99	6.88	1.11	ACROMION	1	) L	200	10.70	7000	000	000	7000	0.0	0.73	0.66	3.72	0.92	0.92	1.28	1.31	1.31	1.17	1.69	1.18	0.58	C • 93	0.92	0.97
- SUPRAS	λ)	MEAN	-0.24	90.0	0 7 0	0 0	0 0	0.72	1.07	1.40	1.63	1.79	1.79	1.47	1.53	1.26	1.04	06.0	0.77	0.44	0.04	-0.05	-0.24	- RT ACR	>	NE AN	E C C C C C C C C C C C C C C C C C C C	17.40	1 . 00	14.1-	77.00	14.00	-6-34	-5.93	-5.64	-3.74	-4.92	-4.92	-5.11	-5.51	-5.99	04.9-	-6.72	-7.15	74.7-	-7.69	-7.81	-7.90
LANDMARK	[	95 PCT	5.73	5.30	V . V	J	5.53	5.50	5.68	5.79	5.66	5.72	5.72	5.31	5.53	5.60	5.69	5.61	5.44	5.68	5.53	2.67	5.73	ANDMARK		100 00	200	2017	2	2 51	2. 5 B	3.06	3.63	4.04	4.33	8.97	4.36	4.36	3.57	3.57	3.38	3.07	3.15	3.11	3.27	3.25	3.15	3.19
	-SINATE-	5 PCT	1.81	1.63	1.50		1.19	1.41	1.32	1.31	1.92	2.08	2.08	2.47	2.37	2.26	2.16	1.95	2.25	2.04	1.95	2.02	1.81	7	DINATE	· u		000	-0 72	24.0-	-0-42	-0-29	0.12	0.65	1.29	-0.05	1.95	1.95	1.68	1.40	10.1	0.74	0.22	0.16	0.16	0.13	0.12	-0.08
	1	SE	67.7	7 - 1	1.20	1.25	1.32	1.25	1.33	1:37	1.14	1.11	1.11	0.80	96.0	1.02	1.07	1.12	0.97	1-17	1.09	1.11	1.19		- C0-08	0	1	20.00	0.00		0.00	1.02	1.07	1.03	0.63	2.75	0.74	0.74	0.50	0.66	0.72	71.0	0.83	0.90	0.95	66.0	0.92	1.00
	X)	MEAN	3.77	74.0	3.55	3.36	3.36	3.45	3.50	3.55	3.79	3.90	6.	8	6.	6.	6	-	0	8	-	3.85	-		X)	701								2.35				3.15	. 6	4.	-	6	9	01	-	0	01	
	SAMPLE	71	- 1	- 1	- 1	7	2	7	7	7	7		7	7	7	7	7	7	1	1	7	1	1		A	SIZEN		1	7	- 1	7	7	7	7	7	ın ı	0	5	9 1	2	- 1	- 1	- 1	7		- 1	- 1	_
	TIME	- 1	2 -		1 0	0.4	0.5	0.0	0.7	0.8	06.0	0	0.0		0		0	0	0	o	0				TIME	_	0-0	7	0.2	0.3	0.4	0.5	0.6	R 0.70	0.8	6.0	0	0	7	0.5	0.0	5.0	0.0	9.0		0.0		0

M OVED			34	2.30	3.74	200	20.0	13.00	16 83	0.00	17.67	22.43		0.0	3.28	7.00	10.10	14.51	16.74	18.67	19.94	20.71	20.97	70.17			MOVEU	500	0.0	0.16	0.29	0.50		20.0	1.06	1.14	1.21	1.36		0.0	0.10	200	7.0	0.01	0.10	0.16	000	16.0	400
DISTABLE	•	200	1.36	20.00	1.48	2.62	3.65	40.4	100	2 26	100	1.29		0.0	3.28	3.71	3.11	4.41	2.23	1.93	1.27	0.17	0.27	0.00			DISTANCE	INCR	0.0	0.16	0.14	17.0	000	40.0	0.10	0.08	0.07	0.15	0	2.	0 -	0.1	0.66	71.0	200	9.0	77.0	40.0	100
	05 PCT	13-07	19-17	21.23	23.07	25-41	26.48	26.78	27.36	27.05	26.20	24.92		26.92	20.90	25.14	24.41	22.57	21.92	18.08	14.50	13.25	13.06	13.07			(	95 PCT	4 . 53	4.14	4.68	4 - 18	4 7 2	4-76	69-4	4.83	4.80	4.59	2	4.09	4-13	4.01	4 70	4.10	4.03	4.01	4-13	4.10	, ,
		11.89	8.07	7.85	8.97	11.34	16.23	20.75	22.68	23.36	23.15	22.70		22.10	21.70	21.10	18.31	13.93	10.19	10.41	11.58	11.37	12.03	11.89			RDINATE-	5 PCT	2.90	2 . 85	58.7	2 34	2 . 84	2.89	2.97	2.73	2.77	2.80	00 6	7000	2.08	7.85	2 92	7 95	2.70	27.74	2.75	61.7	
- C0-0R	SE	0.36	3.33	4.08	4.30	4.29	3.12	1.84	1.42	1.13	0.96	0.68		0.00	70.1	1.05	1.86	2.63	3.58	2.34	0.89	0.57	0.31	0.36			- 00-0	SE	0.50	80.0	00.00	0.00	0.59	0.57	0.52	0.64	0.62	0.54	75 0	0.54	0.57	0.57	0.54	74.0	7.4.0	0.61	0.61		
7)	MEAN	12.48	13.52	14.54	16.02	18.38	21.36	23.17	25.02	25.21	24.72	23.81		20.67	23	24.67	21.30	18.25	16.05	14.24	13.04	15.31	12.54	12.48				d 1	- 1	- 1	- 7	7000	2 00	m	m	-	~	0	3.60	3 0	3.87	3.79	3.81	3.74	3.7.	3.74	3.75	1	,
(	35 PCT	-1.57	-0.37	3.51	1.93	3.92	6.20	8.41	8.83	9.59	10.50	11.01	5	10. a	7	10.0	0.00	-0.31	19.0-	-1.17	-3.95	-1.38	-1.56	-1.57	(18)		1	95 PC1	10.40	67.0-	10.01	-6.09	-6.26	-6.35	-6.36	-6.51	-6.16	-6.34			2	9	9	9		0			
RD INATE-	5 PCT	-2.52	-4.34	-5.48	-6.63	-7.51	-5.70	-1.60	3.08	6.49	8.35	8.36		20.00	77	000	2000	13.30	13.04	-4.08	-3.14	-3.02	-2.60	-2.52			KUINAIE	2 20	. a a l	18.75	08.80	-8.73	-8.69	-8.54	-8.67	-8.66	-8.88	-8.74	-8.74	-9.10	-9.18	-9.15	-8.99	-8.98	-9-10	-9.00	-8.93		
-Y - CO-ORD I	SE	0.29	1.21	1.83	7.61	3.48	3.63	3.05	1.75	0.95	0.65	0.81	0	1.10	0 0	70.0	400	16.0	60.00	0.00	0.82	0.50	0.32	0.29	RT TROCHANTER		_	25	100	0.00	0.86	0.81	0.74	19.0	0.71	99.0	0.83	0.13	0.73	0.98	1.01	0.92	0.77	0.79	0.88	0.79	0.73	1	
()	MEAN	-2.04	-2.35	-2.49	-2.35	62.1-	0.25	3.41	2.96	8.04	9.42	9.68	9.68	7-01	3.60	100	10 1-	1007	20.7	70.7-	2000	72.20	80.7-	-2.04	- RT TRO	,		TA 43	77.40	-7-60	-7.40	-7.41	-7.48	-7.45	-7.52	-7.58	-7.52	-1.54	-7.54	-7.50	-7.52	-7.65	-7.73	-7.69	-7.65	-7.71	+1.1-	7 70	
1	2	19.76	6	0	3	-	5.		2.	3	3	4.	24.11	22.97	23.39	23.94	22.50	20.00	21 10	01.17	50.00	66.67	VO.07	19.10	ANDMARK		1	24.4	4.73	4.90	4.74	4.38	4.31	4.50	4.60	4.64	4.11	4.13	4.73	4.82	4.97	4.89	4.44	4.47	4.57	4.54	4.02	75 7	
RDINATE-	5 PCT	17.76	16.46	15.86	15.30	74.95	15-15	16.14	17.36	18.50	21.01	22.52	22.52	20.06	7	,	3	5 4	-	- 1		7 66	- 1		_			2 2	2.81	2.79	2.94	2.83	2.79	2.88	2.91	2.85	2.87	3.08	3.08	2.98	3.04	2.76	3.03	2.90	2.72	2.95	2.89	2.01	
1	SE	0.61	1.00	1.23	1.03	1.96	2.10	1.96	1.65	1.60	0.88	0.48		0.83			, ,									14U-UJ -	0 0	7 1				0.47			•				S	5	5	9	5	4	2	0.48	5	ur	•
		18.76	•	•	•			•		•			3.3	21.52	0.5	7.0	6	9.6	, ,	0						X)	MEAN	3.74	3.77	3.84	3.84	3.61	3.55	3.69	3.75	3.75	3.17	3.90	6.	6.	0.	8	1.	0.	.6	3.74	1.	7.	•
SAMPLE	17F	91	- 1	- 1	- 1	- 1	- 1		9 1	2	2	4	4	4	2	7	7	7	7	7		- 4	0 4	D		A	-		1	7	7	7	7	7	_	- 1	- 1		7	7	1	7	7	7	7	7	7	7	
TIME	-	0.0	0	0.50	0	0	0	0	0	0	0.00	1.00		0.10		0	0		0	d	0	0				TIME	_	0.0	7	0.2	0.3	R 0.40	0.5	9.0	0	000		2	3	7	0.5	0	0.4	6.5	0.6	R 0.70	0.8	0	

	2																									2-		
	DISTANCE	INCR	0.0	0.31	0.48	0.13	0.13	0.11	0.05	0.04	60.0	0.10	0.17	0.0	0.16	0.15	0.12	0.67	0.07	0.03	0.03	0.05	0.50	90.0		DISTANCE	INCR	0.0
	(	95 PCT	13.16	13.02	13.04	13.16	13.06	12.96	12.94	13.02	13.19	13.17	12.90	12.90	13.26	13.21.	13.21	13.24	13.28	13.20	13.21	13.19	13.22	13.16		(	95 PCT	22.51
	CO-JRDINATE-	5 PCT	9.6	66.6	9.6%	9.82	9.84	16.6	66.6	9.84	9.63	9.68	9.79	62.6	9.74	9.83	9.77	77.6	77.6	9.80	9.75	9.75	9.58	99.6		CO-ORDINATE	5 PCT	18.33
	- C0-08	SE	1.07	0.92	46.0	1.02	96.0	16.0	06.0	16.0	1.09	1.07	0.95	0.95	1.07	1.04	1.05	1.06	1.07	1.04	1.05	1.05	1-11	1.07		- C0-08	SE	1.29
	7)	NABA	11.41	11.54	11.49	11.49	11.45	11.46	11.40	11.43	11.41	11.42	11.34	11.34	11.50	11.51	11.49	11.51	11.53	11.50	11.40	11.47	11.40	11.41		7)	MEAN	20.40
50)	(	95 PCT	-5.03	-5.10	-4.73	-4.50	-4.52	19.4-	-4.68	-4.68	61.4-	14.68	-4.35	-4.35	-4.51	14.4-	72.4-	-5.03	-4.88	-4.85	-4.83	96.4-	6.4-	-5.08	22)	(	35 PCT	-6.33
J	C J- ORD INATE	5 PCT	-7.74	T+.T-	-8.58	-8.60	-8.61	-8.59	-8.68	-8.70	-8-75	-8.76	-8.79	-8.79	-8.64	-8.57	14.8-	-9.68	-8.77	-8-8C	-8-74	-8.75	-7.84	-1 · 14	NTER	CO-ORD INATE	5 PCT	-7.95
E 10P	- CJ-0R	SE	0.81	0.72	1.17	1.25	1.25	1.20	1.22	1.23	1.21	1.24	1.35	1.35	1.26	1.25	1.014	1.12	1.18	1.21	1.18	4.16	06.0	0.81	RT SHOULDER CENTER	- CO-OR	SE	0.50
- RT KNEE	A)	MEAN	14.9-	-6.29	-6.65	-6.55	-6.56	-6.63	-6.68	69.9-	-6.77	-6.72	-6.57	-6.57	-6.58	-6.52	-6.60	-6.84	-6.82	-6.83	-6.81	-6.85	-6.37	-6.41	- RT SHOL	A)	MEAN	-7.13
LANDMARK	(	95 PCT	20.97	21.02	21.05	21.23	21.07	20.93	20.90	20.91	26.97	21.10	21.04	21.04	21.03	21.10	21.15	21.00	20.93	20.80	20.92	16.07	21.14	20.97	LANDMARK	(	95 PCT	4004
-	DINATE-	5 PCT	17.53	16.93	17.51	17.50	17.39	17.37	17.45	17.47	17.48	17.52	17.57	17.57	17.67	17.87	17.64	17.51	17.44	17.55	17.48	17.52	17.43	17.53	_	CO-ORDINATE	5 PCT	0.33
	- CO-OR	SE	1.05	1.25	1.38	1.14	1.12	1.09	1.05	1.05	1.06	1.09	1.00	1.06	1.02	66.0	1.07	1.07	1.06	66.0	1.05	1.03	1.13	1.05		- CO-OR	SE	1.13
	X )	MEAN	19.25	18.98	19.28	19.35	19.23	19.15	19.18	19.19	19.23	19.31	19.30	0	0	0		0	0	0	0	0	19.29	0		X)	MEAN	2.19
	A	SIZE,N	٥	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	0		SAMPLE	SIZE,N	9
	TIME	-	0.0	0.10	07.0 =	06.00	0	0	09.00 A	0	0.80	06.0	1.00	0.0	0 * * 0	0.50	8 0.30	04.0	0.50	09.0 (	3 0.70	09.0	06.0	1.00		TIME		0.0

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NATE DISTANCE MOVEL	95 PCT INCR	22.51 0.0	22.42 0.41	22.84 0.24	23.25 0.51	23.62 3.43	24.20 0.63	24.52 1.01	24.51 0.89	0.63	24.34 0.36	24.48 0.38	21.99 24.48 0.0 0.0	24.15 0.45	23.89 0.67	23.35 1.02	23.13 0.90	22.78 0.38	22.85 3.38	22.58 0.33	22.53 0.27	
-Z - CO-ORDI												0.76 2	0.76		,	•	. 4	. 4			_	
) (	-	,	10			. 4			4	12 22.32		14	45 23.23	. •	. 9		. 4	, ,	. 4	. 4	10	
1	5 PCT 35 PC			·		Ì	•			Ċ		-6.80 -3.	-6.86 -3.	•	-7.16 -3.57	•	•	,	,	•	ľ	
r - CO-ORD	SE	0.50	0.85	0.79	0.72	0.80	1.02	1.07	0.89	56.0	0.92	1.04	1.04	1.03	1.09	0.86	69.0	69.0	0.73	0.81	0.73	
()	r MEAN	-7.13	-7.35	-7.19	-6.90	-6.86	-6.67	-6.20	-5.88	-5.66	-5.42	-5.16	-5.16	-5.17	-5.36	-5.87	04.9-	-6.67	-6.82	-6.82	-7.02	0
	95 PC1												7.78	7.31	7.02	5.83	4.68	4.25	3.98	3.90	4.29	
O	2			'								2.35	2.35									
-x - CO-OR		_	7	7	7	7	-	-	7	7	7	1.65	1.65									
X)	MEAN	2.19	1.94	2.06	2.42	2.70	3.07	3.75	4.35	4.71	64.79	5.07	5.07	4.63	67.4	3.48	2.92	2.86	2.73	2.61	2.62	
SAMPLE	SIZE,N	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4
TIME	-	0.0	0.10	0.50	0.30	0 * 0	0.50	0.00	0.10	0.80	06.0	1.00	0.0	0.00	0.50	0.30	0.40	0.50	09.0	0.10	0.80	000

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MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MOTICN NUMBER - 12140 BACK ANGLE - 13

MEAN STO DEV RANGE	0.70 TD 0.80 SECS.	3.70 TO 1.10 SECS.
STO DEV	0.04	0.15
	0.71	0.93
SUB-MOVEMENT	RGHT FWD	RGHT REV

MVMT NO. 12140/13

TOKEANO

X W L D X Z

LOXXAXO

VMT NO. 12140/13

CXXXXX

CANAKO

OVED	CUM	0.0	0.14	0.17	9.75	7 1 0	66.0	60.0	0.0	0.80	16.0	1.09	0.0	0-18	0.35	000	000	0.00	29.62	0.68	0.81	0.88	1.05	1-24			DVED	2.5	500	0.0	66.0	1.55	2.00	2.72	3.58	4.34	5.32	6.40	6.85	6.94		0.0	0.77	2.05	5.59	3.81	4.68	5.39	5.74	6.44	86.98	7.16	
DISTANCE	INCR	0.0	0.14	0.03	80.0	47.0	200	+1.0	0.0	0.10	0.05	0.18	0.0	0.18	! -	4 (		-	0	3	7	0	7	81.0	•		DISTANCE	2	INCK	0.0	66.0	0.56	0.45	0.71	0.86	0.76	0.99	1.08	0.45	60.0		0.0	0.77	1.28	0.04	0.82	0.88	0.71	0.35	0.10	0.54	0.18	
ī	95 PCT	12.76	2	12.96	7	J (	חר	7 (	<i>n</i> (	<b>(1)</b>	N	~	2	12.88	1 4	1 0	9	V	3	2	~	~		10	4		1	10000	95 PC1	61.07	21.59	22.24	22.52	22.81	23.20	23.50	23.87	24.13	24.41	24.41		14.42	24.06	23.62	23.33	23.01	22.43	21.89	21.52	21.26	20.84	20.79	
DINATE	5 PCT	10.31	10.21	10.20	10.25	10-10	10.04	10.01	10.15	10.28	10.34	10.32	10.32	10.28	10.13	1	10.10	10.10	10.09	10.19	10.23	10.31	10.36	10.31	10.01		C	2	5 PCI	11.03	18.10	18.39	18.84	19.15	19.75	20.43	21.11	21.78	21.73	21.81		21.81	21.55	20.72	20-17	19.78	19.63	19.24	18.95	18.14	17.76	17.63	
~		0.75	0.84	0.84	0.81	0.91	0.93	0.92	06.0	0.84	0.80	0.78	0.78	0.79	9	000	0.30	0.86	0.89	0.85	0.86	0.82	0.78	7.0			50-03	20-02	SE	16.0	1.06	1.17	1.12	1.12	1.05	46.0	0.84	0.72	0.82	0.79		0.19	0.17	0.88	96.0	0.99	0.85	0.81	0.78	0.95	96.0	16.0	
7)	MEAN	11.54	11.59	11.58	11.58	11.60	11.57	11.5/	11.63	11.65	11.65	11.60	11.60	11.53	11.00	2 1	11.50	0	5	5	9	5	2	11 54	1			7	MEAN	19.51	19.85	23.31	20.68	20.98	21.48	21.96	22.49	22.35	23.37	23.11		23.11	22.81	22.17	21.75	21.39	21.33	23.56	20.24	19.73	19.30	13.21	
201		-4.04	-4.07	60.4-	-4.06	-3.93	-4.16	-4.23	-4.03	-3.93	-3.93	-4.27	-4-27	-6 17	17.7	17.4-	c7.4-	-4.16	-4.28	-4.13	-4.22	-4-27	-4.25	70. 41	10 • 1	(22)		!	95 PCT		. 9	-5.66	5	5	5	4	3					-3.09	-3.23	-4.35	-4.84	-5.60	-6.15	-6.67	-6.93	-7.13	-7.23	-7.43	
		-8.37	-8.58	-8.55	-8.45	-8.97	-8.17	-8.46	-8.59	-8.52	-8.47	-8.44	-8-44	2 4 4	000	10.0-	-8.34	-8.08	-8.07	-8.18	-8-28	18.34	200	0.07	10.01	CENTER		Z	5 PCT	æ	8	œ	æ	8	_	-	_	-	D	O		-6.42	-6.56	-7.12	-7.35	-7.43	-7.85	-8.28	-8.09	-8.66	-8.84	-8-33	1
T0P - C0-08		1.32	1.38	1.36	1.33	1.52	1.41	1.29	1.39	1.40	1.38	1.27	1 27	1 27	1001	67.7	1.25	1.19	1.15	1.23	1 - 24	1 24	1 26	1.23	1.32	SHOULDER CE	0		SE	0.28	0.59	0.79	0.73	0.87	0.80	0.94	1.11	1.26	1.05	1.02		1.02	10.1	0.85	0.77	0.56	0.52	65.0	0.34	0.46	0.49	0.28	
- RT KNEE	MEAN	-6.21	-6.32	-6.32	-6.24	-6.47	-6.47	-6.34	-6.31	-6.23	-6.20	-6.35	76 35	00.01	62.0-	-0.32	-6.30	-6.12	-6.17	-6.16	-6-25	16 20	00.91	20.07	17.9-	- RT SHO														-4.75		-4.75	-4.83	-5.74	-6.09	-6.52	-7.00	74.7-	-7.54	-7.89	-8.04	-7-88	•
ANDMARK	95 PCT	20.73	20.79	21.03	21.23	21.12	21.16	21.39	21.42	21.39	21.29	20.82	0000	20.02	46.17	70.17	21.06	21.21	21.17	21.17	21.22	27.47	21.07	+2.12	20.13	ANDMARK	•		95 PCT	2.73	2.00	2.22	2.79	4.01	4.87	5.10	5.70	6.62	7.39	7.41		7.41	6.45	5.90	4.82	4.09	3.21	2.67	2.25	2.23	2.57	27.73	71.7
		17.83	17.66	17.48	17.33	17.55	17.39	17.06	16.95	17.05	17.23	17.54	17 57	11.04	11.32	17.21	17.25	17.03	17.10	17.19	17 25	17 21	16.11	16.11	17.83	_			5. PCT	0.61	0.44	0.09	-0.01	0.07	0.56	1 - 34	1.91	2 33	2.31	2.25		2.25	1.82	0.94	0.48	0.01	-0-37	-0-34	-0-13	0 - 40	0.73	2 - 4	10.0
- CO-08	7 7	0.88										1.00		1.00								•			•			- C0-0R	S									,	•	1.57	•	.5	4	5	1 "		0	0	0.73		. "		•
ì	MEAN	6	6	19.26	6	6	6	6	6	6	6	19.18		19.18	6				6	0				19.38	6			X)	MEAN	1.67	1.22	1.15	1.39	2.04	2 71	3.22	2	74.4	4.85	4.83		4.83	4-14	3.42	2 65	2.35	1.42	1	1.06	1 31	1 65	1.00	1.01
2	SATTE	771	7	7	7	1	7	1	7	7	1	1	,	-	-	7	7	7	1		- 1	- 1	- 1	-	1				SIZE,N		7	7		- 1		- 1	- 1	- 1		- 1		7	7	. 1				- 1	- 1	- 1	- 1	- 1	-
3	- 10		-	0.2	0.3	4	0.5	0.6	0.7	8 0	6.0	1.00		0.0	7	2.	0.3	0.4	0	000	9 1	0	0.8	06.0	3			TIME	_	0.0	7	0	000	. 4	000	0 0		0	000	000			-	10	200	0 0		000	0000		000		0

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CUM CUM 3.64 3.64 8.51 113.56 22.04 32.23 32.23 32.24 116.65 26.66

00.00 00

24.87 24.17 223.64 223.64 117.44 115.49 111.09 8.91 7.36

22.46 21.95 110.83 10.34 4.82 4.94 4.94 2.55 2.55

0.43 0.68 1.16 2.01 2.116 1.69 1.69 0.99

23.16 23.06 21.73 21.73 119.83 113.83 10.16 8.02 6.13 4.96

8.09 3.44 3.44 -2.05 -5.81 -10.70 -11.78

0.59 0.94 0.94 0.94 0.59

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TANCE 1 NCR 0.0 3.64 4.84 5.03 5.03 2.32 3.23 2.03 1.30 0.80

95 PCT 111.02 111.02 120.42 26.75 26.75 27.32 24.33 24.33 24.33

SE 11.909 11.909 11.44 11.94 00.885 00.58

MEAN MEAN 4 42 7 91 12.09 15.87 19.94 21.82 23.06 23.38 23.38

95 PCT 10.37 10.37 1.91 3.34 1.08 3.88 5.92 6.92 6.93 8.13

AD INATE-5 PCT -13.63 -13.21 -12.21 -12.21 -9.88 -9.88 -3.77 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.64 -0.6

CO-ORD II S E 5 0.53 -1 1.63 -1 1.63 -1 1.48 -1 1.31 -1 0.94 -1 0.72 -1 0.42 -1 0.42 -1

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DIST

22.56 22.04 20.39 19.81 16.71 14.86 13.47 12.61 11.32

19.69 18.51 15.09 9.57 9.61 8.60 7.81 6.29

0.88 1.62 3.12 3.12 1.45 1.46 1.46 1.70 1.57

21-12 20-27 117-74 114-69 113-16 111-03 111-03 10-21 9-54 9-53

-0.57 -2.61 -6.37 -11.52 -13.29 -13.29 -13.29 -12.67 -12.67

INCR 1NCR 0.0 0.0 0.85 1.51 0.85 3.24 3.75 3.75 3.76 0.86 0.86

95 PCT 111.85 111.86 112.61 113.62 113.62 115.30 117.74 20.24 20.24 21.94 22.36

CO-ORDINATE-SE 5 PCT 1.5 8 6.12 1.32 7.53 1.32 8.28 1.49 8.72 1.49 8.72 1.49 11.03 2.22 12.97 1.97 15.49 1.01 19.05 0.88 19.69

MEAN MEAN 9.69 9.69 10.44 11.17 11.17 11.17 11.39 16.60 18.71 18.71 18.71 20.71

95 PC | 95 PC

O INATE5 PCT
-11.51
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0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.

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MOVEMENT: LEFT HAND FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

MOTICN NUMBER - 21240 BACK ANGLE - 13

SUB-MOVEMENT	1 1 1 1	TIME DATA-	À	1 1 1 1 1	
	MEAN	STD DEV		RANGE	
LEFT FWD	0.50	60.0	0.40 TO		0.60 SECS
LEFT REV	0.50	80	0.20	0.20 TO 0.70 SECS	2742

				ANDMARK	- NASION			( 1)			
SAMPLE	1:	0-0	RDINATE	1 .	٨)	0	1	(		- C0-0R	DINA
9	0.49	1.16	4.59	9.40	D.67	0 . 69	-0-40	1.79 PCT	MEAN	SE	5 PCT
9	6.45	1.22	4.45		0.66	0.80	. 9	1.98	4 N	1.15	27.37
9	4.	M	4.32		0.62		0	2.14	3	1.12	27.50
9	.3	N	4.27		0.63		6	2.16	m	1.11	27.51
9	2.	DI A	4.19		69.0		00	2.22	m	1.09	27.55
9	7	21 1	4.05		0.10		-	2.16		1.14	27.54
0	-	n.	3.90		0.65		00	2.12	.4	1.19	27.52
0.	-		3.83		19.0		00	2.17	10	1.20	27.54
ο.		40 0	3.92		0.73		00	2.34	10	1.22	27.54
0		2	3.92		0. 71		00	2.24	0	1.21	27.58
9	?	m	3.85		99.0		-	2.12	10	1.20	27.62
9	0	6		2	9.	80	-		29.59	2	9
9	6.26	1.32	4.09	8.42	99.0	0.78	-0.62	1.94	29.42	1	27.49
9	.3	3		4.	9.	1.	9		29.31	.2	.3
9	.3	6.3		.5	9.	. 7	9		29.29	2.	2.
9	2.	4.		.5	9.	8	~		29.27	. 2	2
9	.2	.3		4.	5	. 6	2		29.19	.2	2.
9	.3	7.		.2	.5	. 6	5		29.16	7.	2.
9	.3	7.		.2	.5	.6	5		29.15	7.	2.
٥	4	0		2	9.	9.	2		29.13		2.
9	4.	. 1		2.	9.	.6	\$		29.15		.2
9	4.	7.		4.	9.	. 6	+		29.17	1.23	
			_	ANDMARK	- CERVICAL	ALE		( 2)			
AMPL	X)	0-0	NAT	(	λ)	0-0	RD INATE-	1		- CO-OR	DIND
SIZE,N	EAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	
9	1.1	4.	3.5	1.26	1.0		-2.50		4	0	21.84
9	1.1	4.	3.5	1.19	6.0		-2.24		+	0	21.83
9	-1.21	1.44	3.5	1.16	-0.91	0.74	-2.11		m	96.0	21.81
9	7.5	4.	3.5	1.12	0.8		-2.08		m	Oh	21.76
9	1.5	. 5	3.7	1.25	0.7		-2.11		m	0	21.75
9	1.2	9.	3.9	1.48	0.8		-2.18		4	0	21.70
9	7.7	. 0	3.8	1.48	0.8		-2.25		+	0	21.71
٥.	1.1	0	3.1	1.47	6.0		-2.27		+	0	21.80
0 .	1:1	0,1	9.0	1.40	0.0		-2.24		+	On	21.87
0	1 . 1	0,	3.1	1.39	5.0		-2.20		+	0	21.83
9	7.1	•	3.9	1.44	6.0		-2.20		+	0	21.76
9	-		3		6		2.		3.4	0	
9	1.		3		6		2.2		3.4	0	
9	-				6		.2		3.4	9	
9			m		0		2.3		3.5	0	
9	-		3		0		2.5		3.5	0	
٥	7		3		7		2.5		3.4	0	
9	-		3		0		2.3		3.4	0	
9	-1.24	1.45	-3.62	1.15	16.0-	0.75	2	0.26	23.41	0.93	21.88
9	-		3		0		2.2		3.4	0	
9	1.		3		0		.3		3.4	0	
9	-				0		5		3.4	0	

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25.11 25.05 25.05 25.15 25.21 25.21 25.09 25.05 25.05

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31.57 31.36 31.36 31.30 31.16 31.06 31.06 31.06

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The Sample   The	MOVED		0.30	0.55	0.78	0.83	3.86	1001	1.04	1.14	1.20	1.29	0.0	0.10	0.29	0.70	0.93	1.31	1.38	1.43	1.55	1.57	1.63		i	A D V E D	500		0.10	0 7 6 0	0.42	0.55	C.72	0.89	1.03	1.44	75.1	0.0	0.14	0.59	0.74	0.83	1.00	1.15	1.29	1 37	1007
THE SAMPLE ("	ISTANC	2000	0.30	0.25	0.23	90.0	0.03	0.15	0.03	0.10	90.0	60.0	0.0	0.10	0.19	0.41	0.23	0.38	0.07	0.05	0.12	0-02	90-0		0.14	STATE	N C	0 0	4-0	100	0.08	0.14	0.16	0.17	0.15	04.0	60.0	0.0	0.14	74.0	0.15	71.0	0.12	0.15	0.14	80	
THE SAMPLE (1992) AND PARTIES			1 2	19	2	2	7	~	~	~	7	2	3.6	3.5	3.3	3.6	23.46	23.50	23.48	23.47	23.71	23.65	23.52			100 90	34 20 PC	24.50	24.14	24.29	24.40	24.55	24.69	24.69	21.42	24.93	10.62	5	4	4	4	4	3	4	4	1	۲
The cample	10	20.76	20.80	20.91	20.87	20.78	20.62	20.86	21.02	20.90	70.07	20.97	20.97	20.88	20.80	19.71	20.15	20.86	20.85	20.81	20.55	20.60	20.76		AMA	A L	1	•										21.61	21.66	21.16	21.22	21.18	21.04	20.98	20.02	20- R4	000
THE SAMPLE (	1	0.84	0.81	0.71	0.73	0.78	0.88	0.81	0.72	0.76	6.0	0.80	0.80	0.83	0.77	1.19	1.01	0.80	0.80	0.81	96 0	0.93	0.84				300		0.93	1.05	1.08	1.10	1.13	1.11	77.7	1.04	T. 0.1	1.04	0.95	1.05	1.00	1.01	1.04	1.00	16.0	1.02	
THE SAMPLE   X - CO-NDIMINTE	1 1 1	22.14	22.13	22.38	22.37	22.15	22.37	22.19	22.20	22.14	75.20	22.29	2	~	0	2	8	-	4	-	-	-	4			MEAN	22.57	22.55	22.53	22.56	22.53	22.75	22.84	22.86	25.30	23.63	70.07	23.31	23.23	22.89	22.80	22.84	22.75	22.62	22.51	26.22	
TIME SAMPLE (	1												1.14	0.91	0.73	19.0	0.72	06.0	0.86	0.78	0.93	06.0	0.93	2)	1	05 PCT	7 78	7 82	7.88	7.97	8.04	8.17	7.96	1.89	000	0.10	•	8.00	7.77	4.43	7.59	7.72	7.57	7.43	7.61	1.13	
TIME SAMPLE I	9												-1.56	-1.40	-1.36	-1.39	-1.37	-1.46	-1.46	-1.32	-1.52	-1.57	-1.44		O INATE-	S DC T	5.7.5	5.71	5.68	5.63	5.62	5.57	5.69	2.65	7.43	2000	0	5.63	5.68	5.68	5.54	2.41	5.55	2.67	5.63	2.64	
TIME SAMPLE	- C0-0	0.72	1.12	1.18	0.89	0.83	0.83	0.19	0.74	51.00	000	0.82												NOIN	- 60-0	) u	0-63	0 - 65	0.67	0.71	0.74	0.79	69.0	0 0	000	0.72		0.72	9.0	0.55	0.63	69.0	29.0	0.53	0.60	\$0.00	
TIME SAMPLE (x - CQ-ORDINATE	MEAN	-0.25	00.0-	0.07	-0.08	-0-12	-0-12	11.0-	61.0-	02.0	0.20	-0.21	-0.21	-0.25	-0.32	-0.36	-0.32	-0.28	-0.30	-0.27	-0.29	-0.31	-0.25	5		FAN	75	.77	.78	.83	.83	.87	. 82		. 68	81		6.81	21.9	6.59	16.9	6.59	6.56	5.55	79.9	F0.0	
TIME SAMPLE (x - CG-GRDINATE  1 SIZE,N HEAN SE 5 PCT  0.10 5 3.34 0.98 1.79 0.09 0.00 6 3.34 1.00 1.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	95 PCT	4.52	4.90	5.35	5.14	5.11	5.00	0.00	2.65	0.00	1000		13												(	95 PCT	1-17	C. 35	0.72	0.63	0.61	0.64	0.79	1.04	1.12	1-22	4	1.22	1.09	1.16	91.1	1.02	0.88	0.91	0.70	1.05	
TIME SAMPLE (x - CO-O  1	0 10	1.83	1.79	1.79	1.67	1.63	1.72	1.50	1++1	1.00	7000	7.00	2.06	2.05	1.98	1.75	1.55	1.38	1.53	1.80	1.93	1.91	1.83	7	NIO	u	-2.03	-2.11	-2.14	-2.12	-2.07	-2.03	-1.92	-1 -77	-1-19	-1-36		м.	<b>-</b>	-	- C	N	V .	- ·	-	-4	
TIME SAMPLE (	C0-0	0.82	0.95	1.09	1.06	1.36	1.00	4.07	11.1	11.1		0.82	0.82	0.86	0.93	1.03	1.04	1.10	1.04	0. 90	0.75	0.77	0.85		0-0-0	ш	0	6	. 8	00	. 8	00	000	0 0				0.19	0.00	0.86	44.0	96.0	0.90	0.88	0.00	0000	
1	MEAN	3.17	3.34	3.57	14.5	3.31	3.36	0000	0.00	74.0		5.39	.3	4.	.5	4.	2.	7	7.	. 2	7.	7	-		×		-0.43	-0.58	-0.71	-0.75	-0.73	69.0-	-0.56	10.10	97.0-	-0.37		-0.01	0.00	-0.25	10.54	-0.53	09.0-	-0.53	- C - C -	01.01	
F 00000000 000000000000000000000000000	A M P		5	9	٥.	0 4	0 4	0 4	0 1	0 4	0 4	0	9	9	9	9	9	9	9	9	2	2	2		P	_	•	9	9	9	9	9	9 ,	0 4	) L	1 10		in u	Λ,	•	0 .	۰ 0	0 .	9.	0 4	0	
HUGSAGE WHENKY	Y	0	0.1	0.5	5	000	0 0	0 0	0 0	0 0		•	0	0.10	0	0	0	0	0	O	0	06.0	1.00		TIME	-	0.0	0.10	0	0	0	0	0	0 0	0	1.00		0	4 0	0.5	0 0	4.0	0.0	0 0	000	0	

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2	CO	0.0	3.2	5.5	7.6	8.9	11.03	11.66	12.39	12.6	12.87	0.0	0.83	1.90	3.4	4.98	69.9	8.36	9.7	10.73	11.41	12.00		M O VE			000	0.0	0.30	0.41	0.54	0.61	0.75	1.06	1.63	1.71	0.0	0.03	0.28	0.40	0.54	0.62	0.72	0.80	0.89	0.97	1.04
DISTANCE	INCR	0.0	1.64	2.27	2.16	1.26	2.09	0.64	0.72	0.26	0.22	0.0	0.83	1.07	1.50	1.58	1.70	1.67	1.37	1.00	0.68	0.59		DISTANCE	O CAL	200	000	0.0	0.10	0.11	0.13	10.0	0.14	0.31	0.56	60.0	0.0	0	0.20	7	7	0	0	0	60.0	0	0
	95 PCT	13.37	18.25	19.72	21.91	23.00	26.80	24.29	24.28	24.19	24.11	24.11	24.36	24.71	24.60	23.26	21.30	18.72	16.23	14.83	13.91	13.37			OS DCT	4.25	4 29	4-31	4.26	4.27	4.31	4.32	4.35	4.38	4.39	4.35	4.35	4.35	4.35	4.40	4044	40.44	4.36	4.27	4.25	4.26	4.25
	5 PCT	11.97	13.52	16.57	18.55	19.69	19.16	21.09	21.33	21.28	21.17	21.17	20.18	18.91	17.18	5	14.53	3	13.61	13.01	12.60	11.97		DINATE	2	3.23	3.17	3.13	3.23	3.31	3.32	3.29	3.24	3.24	3.31	3.46	3.46	3.40	3.25	3.31	3.28	3.20	3.22	3.25	3.28	3.25	3.23
- CO-08	SE	0.43	1.44	0.96	1.02	1.01	2.33	0.98	06.0	0.89	06 0	0.90	1.27	1.77	2.26	2.28	2.06	1.51	0.80	0.55	0.40	0.43		- CO-OB	) u	0.31	0.34	0.36	0.31	0.29	0.30	0.31	0.34	0.35	0.31	0.27	0.27	0.29	0.34	0.33	0.35	0.38	0.35	0.31	0.30	0.31	0.31
7)	MEAN	12.61	15.89	18.14	20.23	21.34	22.98	22.69	22.81	22.74	22.64	22.64	22.27	21.31	20.89	19.53	17.92	16.25	14.32	13.92	13.25	12.67		[]	MEAN	3-74	3.73	3.72	3.74	3.79	3.82	3.81	3.80	3.31	3.44	3.90	3.90	3.88	3.80	3.85	3.86	3.82	3.79	3.70	3.76	3.70	3.74
170	95 PCT	10.72	10.58	10.73	10.73	10.66	10.78	10.89	11.11	11.13	11.09	11.09	11.09	11.05	10.72	10.46	10.38	10.42	10.79	10.61	10.53	10.72	19)		95 PCT	7.95	8 . 02	8 . 09	3.16	8.12	8.09	8.14	8.17	8 - 23	67.9	8.19	8.19	8.27	8.07	8.14	8.12	8.07	8.11	8.29	8.19	8.05	7.96
		8.93										9.73	9.32	8.81	8.56	8.44	8.50	8.64	8.83	9.13	9.12	8.93		INATE	5 PCT	5.18	5.27	5.33	5.30	5.17	5.03	5.09	4.93	4.46	4.90	4.99	66.4	4.92	4.98	4.96	2.06	5.17	5.17	2.09	5.16	5.20	5.18
3 -	SE	0.04	0.63	0.71	17.0	0.04	0.62	0.56	0.55	64.0	0.41	0.41	0.54	0.68	0.66	0.62	0.57	0.54	09.0	0.45	0.43	0.54	HANTER	-Y - CO-0RD I	- A	0.85	0 . 84	0 84	0.87	06.0	0.93	0.93	66.0	1.15	1.03	0.98	0.98	1.02	76.0	15.0	0.53	0.89	0.90	0.58	0.92	0.87	0.85
- LT GRIP	MEAN	78.6	9.54	9.57	9.57	09.6	6.17	86.6	10.22	10.33	10.41	10.41	10.20	9.93	9.64	9.45	44.6	9.53	9.81	9.87	9.83	9.82	- LT TROCHANTE	Y)	MEAN									6.34			69.9	69.9	6.52	6.55	6.59	6.62	6.64	69.9	6.68	6.63	6.57
ANDM	6 2		5 7	19	1 9.	20.	23.	22.	23.	23.	24.	24.09	23.00	22.14	21.24	20.50	19.94	20.22	20.31	20.30	20.29	20.30	ANDMARK	(	95 PCT	5.46	5.39	5.25	5.02	5.08	5.23	5.28	5.63	6.59	4.30	4.85	4.85	4.85	5.35	5.39	5.22	5.06	5.16	5.25	5.36	5.42	5.46
RDINATE	5 PCT	17.41	17.87	18.37	18.71	18.75	19.24	20.50	21.21	21.40	21.43	21.43	21.09	20.09	18.70	17.87	17.31	16.97	16.59	16.61	16.92	17.11	_	N	ď	, "	m	1 10	m	m	6	m	m	2 . 99	9 (	m	3.57	3.72	3.56	3.31	3.22	3.25	3.33	3.35	3.43	3.49	3.52
~		0.0										0.81	0.58	0.62	0.78	0.80	0.80	0.99	1.13	1.13	1.03	0.97		AO-C		0.59	0.58	0.54	0.47	0.47	0.50	0.51	0.65	1.10	0.00	0.39	0.39	0.34	0.55	0.64	0.61	0.55	0.56	0.58	0.59	0.59	0.59
×	MEAN	18.52	18.47	18.70	19.27	19.86	21.15	21.67	22.35	22.58	22.76	22.76	22.04											X )	MEAN	64.4	44.4	4.35	4.26	4.30	4.40	4.4	4.56	61.4	67.4	4.21	2.	.2	4.	.3	.2	7.	.2	.3	4.39	4.	4.
SAMPLE	77	n 4	0	9	9	9	9	9	9	9	9	9	9	9	9	9	9	2	2	2	2	2		4	SIZEON		•	9	9	9	9	9	9	0 4	0	5	5	2	9	9	9	9	9	9	9	9	9
TIME	- 0	0.0	0.20	0.30	0.40	0.50	09.0	0.10	0.80	0.00	1.00	0	0.10	23	.3	4.	.5	9.	1.	80	6.	5		TIME	-	0.0	01.0	0.50	0.30	0.40	0.50	09.0	0.00	0.80	0.00	1.00	0	7	.2	.3	4.	.5	.6	1.	0.80	6.	0

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	MOVED	0.0	0.32	1.07	2.24	2.30	2.35	2.53	2.67	0.0	0.14	0.22	0.33	0.53	0000	000	1.07	1.14	1.19		MOVED	CUM	0.0	C-21	0.37	0.52	66.0	1.23	1.43	1.57	1.73	0.0	0.11	C.28	0.60	0.83	1.19	1.38	1.54	1.68	1.84
	DISTANCE	0.0	0.28	0.75	0.84	90.0	0.04	0.12	0.14	0.0	0.14	0.08	0-11	0.20	0.12	0-17	0.08	0.07	90.0		DISTANCE		0.0	0.21	0.16	0.16	0.26	0.24	0.50	000	0.0	0.0	0.11	0.16	0.33	0.57	15.0	0.0	71.0	0.13	0.16
	95 PCT	13.63	13.75	15.34	13.80	13.75	13.75	13.85	13.95	13.95	13.87	13.86	13.85	13.84	13.75	13.67	13.68	13.62	13.63		()	95 PCT		22.52	22.62	22.18	22.81	23.00	23.07	23.13	23.34	3	23.12	N	NO	NI	VC	UN	2	2	2
	DINATE-	9.13	8.47	5.38	9.23	9.28	9.24	9.20	61.6	9.19	9.15	9.13	9.19	9.20	0 13	00	9.04	9.10	9.13		OINATE	5 PCT	18.40	18.61	18.70	18.54	19.20	19.26	19.38	19.52	19.43	19.43	19.45	19.43	19.17	06.81	10 00	18.87	18.61	18.50	18.40
	S.	1.37	1.61	3.04	1.39	1.36	1.30	1.42	1.45	1.45	1.44	1.44	1.42	1.41	1.41	1.40	1.41	1.38	1.37		- C0-0R	SE	1.24	1.19	1.20	1.29	1.10	1.14	1.12	1-10	1.19	1.19	1.12	1.07	1.14	1.25	1.20	1.15	1.24	1.24	1.24
	(Z	11.38	11-11	10.58	11.52	11.51	11.47	11.52	11.57	11.57	11.52	11.50	11.52	11.52	11.66	11.38	11.36	11.36	11.38		7)	MEAN	20.43	20.57	20.66	20.56	21.00	21.13	21.23	21.32	21.38	21.38	21.29	21.18	21.04	20.95	20.00	20.15	20.63	20.53	20.43
21)	95 PCT	7.14	7.13	17.29	7.31	7.28	7.14	6.93	6.78	6.78	4.09	7.28	7.26	7.10	7 18	7 30	7.21	7.16	7.14	23)	(	95 PCT		8.49	8.52	8.75	8.96	9.05	50°6	8.93	8.97	8.97	9.01	6.00	8.77	8.66	20.00	8.45	8.37	8.49	8.61
	NE	3.99	4.12	3.76	3.68	3.80	30.8	4.02	4.16	4.16	3.86	3.61	3.48	3.43	2 4 60	3.58	3.71	3.88	3.99	CENTER (	JINATE	5 PCT	5.54	5.35	5.08	5.25	5.24	5.20	5.23	5.28	5.36	5.36	5.22	2.09	5.05	70.04	5.21	5.30	5.37	5.42	5.54
TOP =	- CO-ORL	0.96	0.52	1.08	1.11	1.06	1.00	0.89	0.80	0.80	66.0	1.12	1.15	1.10	1.13	1,13	1.07	1.00	96.0	SHOULDER CE	- CO-ORD	SE	0.93	96.0	1.05	1.10	1.13	1.16	1.16	1.11	1.10	1.10	1.16	1.19	1.14	1.10	10.1	96.0	16.0	0.94	0.93
- LT KNE	(Y	5.57	5.63	5.52	5.50	5.54	5.49	5.47	5.47	5.47	2.47	5.44	5.37	2.60	5.33	5.44	5.46	5.52	5.57	- LT SHOL	λ)	MEAN	7.07	6.92	6.80	7.08	7.10	7.11	7.13	7.14	7.16	7.16	7.11	7.05	16.9	0.82	16.0	6.88	6.87	96.99	7.07
ANDMARK	95 PCT	21.68	21.63	22.08	21.95	21.81	21-82	21.53	21.28	21.28	21.60	21.84	21.16	21.60	21.63	21.67	21.72	21.74	21.68	ANDMARK	(	95 PCT	1.76	1.85	1.89	7.00	2.31	2.16	2.29	2.60	2.92	2.92	2.84	2.67	2.18	2.00	1.72	1.84	1.78	1.75	1.76
7	Z	<b>Φ</b> α	18.88	xo ex	00	00 0	o a	00	8	18.73	18.67	18.57	00	18.32	ο α	00	18.59	18.64	18.67	_	BINATE	5 PCT	-0.39	-0.59	-0.72	10.53	-0.55	0.02	0.24	11.0	-0.02	-0.02	0.05	0.01	-0.03	10.30	10.10	-0.62	-0.32	-0.29	-0.39
	- C0-0R	0.92	0.84	1.02	1.09	0.98	0.97	0.85	0.78	0.78	0.89	1.00	0.00	00.1	1.02	0.97	0.95	76.0	0.92		- C0-0R	SE	0.65	0.74	0.80	21.0	0.37	0.65	0.62	0.76	0.90	0.90	0.85	0.81	0.67	0.11	0.19	0.75	9.0	0.62	0.65
	MEAN	20.20	20.25	20.15	20.15	20.19	20.24	20.13	20.00	0.0	0.1	0.5	7.0	19.90	0 0	0.0	0.1	0.1	0.1		1	EAN	.6	9.	. 5	0.	00	?	2.		1.45	4	1.45	.3	0	0	0 11	0	1.	1.	9.
	SAMPLE SIZE, N	9 9	9,	0 0	9	9,	0 40	9	9	9	9	9 .	0	o 4	0 0	9	9	9	9		d	SIZE,N	9	9	۰ ۵	0 4	9	9	9	9 4	0 0	9	9	9	9,	0 4	0 4	9	9	9	9
	TIME	2.00	F 0.20	0 0	0	00	00	0	1.00	3	-	0.0	0 0	0 0 0 0	0 0	0.7	0.8	6.	0		TIME	-	0	0.1	0	1) 4	0.5	0.6	0.7	000	1.00	0	0.10	0.5	0.0	2 0	0 0		0.8	6.	0

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TOKEATO

ZWC-JWZ

CNAKACO

	E MOVED												0.0	1.05	2.18	3.44	4.60	5.86	64.9	6.97	7.31	7.57	7.86			C MUVED	¥00	0.	81.1	Z. 23	100 4	7.38	8.59	9.53	10.22	10.50	10.74	0.0	0.84	1.86	3.20	4.67	6.27	7.43	8.52	9.38	10.02	10.66
	DISTANC	INCR											0.0	1.05	1.12	1.26	1.16	1.26	0.62	0.48	0.34	0.26	0.30		CHATOTO	DISTANC									69.0			0.0	0.84	1.02	1.34	1.46	1.61	1.16	1.09	0.86	0.64	9.64
	(	95 PCT	15.03	15.79	15.81	16.47	17.59	18.75	19.44	20.02	20.59	20.86	20.86	19.87	19.02	18.11	17.34	16.41	15.98	15.60	15.39	15.20	15.03			100 00	95 PCT	15.08	13.00	10 44	19.95	20.93	21.95	22.32	22.62	22.67	22.70	22.70	22.44	22.40	22.31	21-24	19.68	17.94	16.32	15.33	14.36	13.58
	-URUINATE-				10.83								15.48	14.75	13.83	12.97	12.28	11.53	11.05	10.60	10.16	9.93	89.68		POPUNATO	THUTTON	2 6	11.00	12 25	14.50	16.21	17.57	18.17	18.75	18.95	18.94	18.86	18.86	17.94	16.84	15.57	14.61	13.61	13.08	12.55	11.82	11.57	11.18
	0	SE	2 04	2.19	1.52	1.27	1.32	1.46	1.43	1.45	1.61	1.64	1.64	1.56	1.58	1.57	1.54	1.49	1.50	1.53	1.59	1.61	1.63		7 - 60-6	200	SE	1 24	1 63	1.24	1.14	1.03	1.15	1.09	1.12	1.14	1.17	1.17	1.37	1.69	2.05	2.02	1.85	1.48	1.15	1.07	0.85	0.73
	-	MEAN	-	12.21	13.32	14.39	15.42	16.36	17.10	17.64	17.94	18.17	18.17	17.31	16.42	15.54	14.81	13.97	13.52	13.10	12.78	12.57	12.35			14.17	MEAN	12 54	10.01	16.53	18.08	19.25	20.08	20.54	20.79	20.80	20.18	20.78	20.19	19.62	18.94	17.93	16.64	15.51	14.43	13.58	12.97	12.38
(52)	[]	95 PCT	12 01	13.02	13.39	13.66	13.83	13.69	13.51	13.34	13.24	13.14	13.14	13.52	13.83	13.99	14.20	14.16	14.06	14.13	13.92	13.52	13.04	( 27)		10000	32 PC	11 48	11 67	11.59	11.73	12.00	12.34	12.59	12.43	12.28	12.43			12.55								
ER	IRD INATE-	5 PCT	10.01	10-41	10.22	10.12	9.35	10.06	10.10	10.01	9.85	61.6	9.79	10.00	10.16	10.18	10.16	10.50	10.58	10.58	10.68	10.78	10.85	ER	PO INATE-	100	2 70	0 10	2000	04-8	8 33	8.40	8.56	8.78	1.00 9.15	9.53	69.6	69.6	9.41	8.95	8.92	9.22	9.46	9.54	9.56	9.63	89.6	19.6
ELBOW CENTER	Y - CO-ORD	SE	24.0	0.80	0.97	1.08	1.20	1.11	1.8	1.00	1.03	1.02	1.02	1.07	1.12	1.16	1.23	1.12	1.06	1.08	66 0	0.84	0.67	IST CENTER	V - CO-0		2 0 0	27.0	0.05	85-0	1.04	1.10	1.15	1.16	1.00	0 - 84	0.83	0.83	0.95	1.10	0.92	0. 10	0.64	09.0	0.67	0.65	0.57	0.49
- 11	)	MEAN	11.81	11.72	11.80	11.89	11.91	11.88	11.81	11.70	11.55	11.47	11.47	11.76	11.99	12.08	12.18	12.33	12.32	12.36	12.30	12.15	11.94	- LT WRI			-	1	1	•	_	-	-	-	61.01	7	-	11.06	10.97	10.75	10.43	10.37	10.50	10.52	10.66	10.69	10.01	10.48
LANDMARK	(	95 PCT	000	7.11	7.80	8.56	9.35	10.18	10.79	11.24	11.52	11.70	11.70	10.57	9.89	9.02	8.12	7.08	6.95	7.11	6.94	16.9	7.03	LANDMARK	(	DE DET	20 70	14.45	16.51	16.87	17.75	18.57	19.64	20.42	20.96	21.32	21.79	21.79	20.44	15.62	18.91	17.90	17.02	16.87	16.78	16.70	16.78	17.05
	ORDINATE-	5 PCT	4.87	5.13	5.60	6.43	7.35	7.99	8.65	9.10	9.18	9.11	9.11	9.16	8.55	7.63	6.13	2.90	5.18	4.54	4.56	4.56	4.35		-ORDINATE-	• u	14 23	14.36	14.31	15.03	15.56	16.21	16.89	17.65	18.36	18.53	18.45	18.42	18.58	17.77	16.26	15.16	14.14	13.79	13.66	13.77	14.06	14.23
	-0	SE										0.19									0.73				0.0	0 0	2								0.19					0.57								
		ME AN	י ע	0	9	-	00	6	6	07	2	10	10	9.87	9.22	8.32	7.43	64.9	6.07	5.33	5.15	5.13	5.69		X)	MEAN	15.64	15.50	15-41	15.95	16.66	17.39	18.26	19.03	19.66	76.67	20.10	0.1	9.5	18.69	7.5	6.5	5.5	5.3	5.5	2.5	5.4	5.6
	SAMPLE	71	0 0	9	9	9	9	9	9	9	2	2	2	2	2	2	2	9	9	9	9	9	9		A	SIZE.N	4	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	•
	TIME	- 0		0.2	0 0.30	0.4	0.5	9.0	0.7	9.0	6	•	0		0.2	0.3	0.4	0.5	0.6	1.	0	6	1.00		TIME	-	0	7	0.2	0.3	0.4	.5	0.6	0.1	-	6	1.00	0	7.	0.20	0.3	0.4	0.5	0.6	1.	0.8	6.	0

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

MOTICN NUMBER - 22240 BACK ANGLE - 13

SUB-MOVEMENT		TIME DAT			
	MEAN	MEAN STO DEV		RANGE	
LEFT FWC	0.49	0.11	0.40 TD	0 0.60 SECS.	SECS
LEFT REV	0.51	0.13	0.30	0.30 TJ 0.70 SECS.	SECS

1	MEAN	0	8	1.	9.	9.	9.	7.	8	6	α			1.	1.	9.	.5	9.	-7	00	000	0	06.0		0 4	1	¥	4 0	0.00	000	500	200		0.1	6.0	6.0	0.8	6.0	1.1	1.1	1.0	6.0	1.0	1.1	1-1	1 . 1	1.0	1.1	-1.06	0
-	95 PCT	.3	7.	0	6.	8	1.	9.	1.	1	-	. 4	•	9.	6.	1.	7	7	. 2	3	-	: -	8-14	4 "	N N		0		4.40	0	1 0			0		.0	9.	8	0	0	6.	0	2.	.2	3	-	0	()	1.23	1
RDINATE	PC	.3	2.	0	00	8	6.	1.	4.	6	2	0	•		7	.2	.2	.2	-	0	7	10		, 4		< 2	20 4	2 4	13.40	000	100	000	100	3.4	3.5	3.6	3.6	3.5	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.3	3.3	-3.42	
- CO-OR	SE	7	7.	. 2		. 2	7.	7.	. 2	3	10	-	4	7.	7.	7.	7.	-	. 2	31	1	-	1-16	-		0-0	o u	7 0	1 30				7 .	7.	2.	2.	.3			3	.3	4.	4.	4.	4		3	3	1.42	
1	MEAN	.3	.2	0	0	8	8	1.	5	5	2	0	•	00	0.	2.	7.	-	7	17	-	1 -	6-25	1 "			4	1 .	1.00	7 . 4	1.0	0.1	C . 7	1 . 4	1.4	1.5	1.4	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	-1.10	
SAMPLE	IZE,	7	7	7	7	7	7	7	7	_	7	7		7	7	7	7	7	7	1	7	7	7	. 1		0	2 4 4 7	1771	- 1	- 1	- 1	- 1	- 1	-	1	1	7	7	7	7	7	7	7	1	7	7	7	7	7	٠, ٢
TIME			7.	2.	0.30	4.	.5	9.	1.	00	0	1	•	0	7.	2.	3	4	5	9		α,	06.00						0				1 1	0	9.	-	9	5.	0		4	5	1	4	ır	2 1		00	06.0	

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MOVED CVED COVED C

0.00

31.51 31.19 31.00 31.00 30.95 30.95 31.00 31.00

27.68 27.63 27.57 27.46 27.32 27.23 27.30 27.30 27.30 27.32

1.17 1.009 1.009 1.008 1.011 1.012 1.012 1.015 1.015

29.60 29.74 29.74 29.03 29.13 29.17 29.18 29.18

2.66 2.35 2.13 2.07 2.09 2.09 2.09 2.05 2.05 2.05

DISTANCE INCR 0.30 0.36 0.23 0.17 0.17 0.16 0.19 0.19 0.20

95 PCT 31.07 31.22 31.33 31.33 31.41 31.27 31.28

MEAN 29.FL 29.FL 29.62 29.51 29.51 29.52 29.55 29.56

95 PCT 2.37 2.40 2.40 2.46 2.46 2.46 2.46 2.46 2.46 3.17 3.20 2.93 2.66

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LANDMARK - NASION

ORD	ATE		[	k)	- CO-OF	RD INATE	(	7)	- CO-OR	DINATE	()	DISTANCE	<b>3</b> .
	PCT	Ť	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CO
	.55		1.45	-0.95	06.0	-2.43	0.52	23.20	0.81	21.94	24.59	0.0	0.0
	64.		1.08	-0.95	0.71	-2.11	0.22	23.30	06.0	21.90	24.85	0.19	0.19
·	14.		C. 85	-0.92	0.59	-1.89	0.05	23.45	1.02	21.78	25.13	0.13	0.32
	.43		0.78	-0.92	0.63	-1.95	0.11	23.46	0.98	21.85	25.06	20.0	0.34
Ċ	.43		69.0	-0.97	0.71	-2.14	0.20	23.46	16.0	21.87	25.06	0.07	0.41
	.47		0.61	-1.01	0.81	-2.34	0.31	23.41	0.98	21.86	25.07	10.0	4.0
-3.54			0.59	-0.98	0.80	-2.30	0.34	23.40	0.91	21.91	24.89	0.08	0.5
.28 -3.60	_		09.0	-0.93	0.81	-2.25	0.39	23.35	0.84	21.96	24.73	0.08	0.65
-3.61			0.67	-0.88	0.86	-2.28	0.53	23.37	0.80	22.06	24.68	0.07	1.0
-3.52			0.81	16.0-	0.92	-2.48	0.54	23.41	0.81	22.08	24.74	0.15	0.8
-3.44		4	01	-1-11	66.0	-2.74	0.52	23.45	0.85	22.06	24.85	0.50	1.
-3.44		7	.01	-1.11	66.0	-2.74	0.52	23.45	0.85	22.06	24.85	0.0	0
-3.50	_	0	. 93	-1.02	0.84	-2.40	0.35	23.47	0.83	22.12	24.83	0.11	0.1
-3.59	-	-	03	-0.99	0.71	-2.16	0.18	23.38	0.74	22.17	24.58	01.0	0.2
-3.58		_	1.22	-1.07	0.71	-2.24	0°C	23.18	0.75	21.95	24.42	0.63	0.4
.47 -3.56		_	25	-1.17	0.78	-2.44	0.10	23.13	0.76	21.88	24.38	0.11	0.5
•	.57		1.31	-1.18	0.88	-2.63	0.26	23.14	0.73	21.94	24.34	0.03	0.6
,	.50		1.12	-1.10	0.85	-2.48	0.29	23.15	0.77	21.89	24.41	0.11	0.7
•	.39		1.00	-1.08	0.82	-2.43	0.26	23.18	0.83	21.82	24.54	0.03	0.70
'	.31		1.04	-1.13	0.82	-2.48	0.22	23.25	0.86	21.84	24.67	0.11	0.85
'	.42		1.23	-1.06	0.85	-2.46	0.34	23.27	0.84	21.89	24.65	0.08	0.92
,	.55		1.45	-0.95	06.0	-2.43	0.52	23.26	0.81	21.94	24.59	0.12	1.0

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	OVED	50.	1.17	3.28	7.58	64.7	71	78	1.93	200	111	7 7 9 9	0.0	0.21	74.0	0.59	77.0	0.81	0.85	0.90	66.0	1.03	1.11			UVED	MIL		0.26	0 4	2000	77	1 0	0.0	0.93	66.0	1.18	1.38		0.0	60.0	0.16	17.0	01.0	10.0	79.0	0.64	21.0	10.0	0 7.0
	ISTANCE M												0.0													MISTANCE	I A L N L										0.19			0.0	60.0	0.08	11.0	0.19	0.11	0.05	0.03	000	70.0	01.0
	0 1	24.08	24.07	24.04	23.90	23.89	23.92	74.67	23.67	23.85	23 01	76.67	23.91	23.84	23.89	24.02	23.94	23.91	23.88	23.86	24.02	24.08	24.08					34 34	75. 76	24. 42	24.43	24.43	24.47	24.55	24.60	24.58	24.63	24.70		24.70	24.62	24.58	24.41	24.20	24.14	24.21	24.24	54.14	24.15	47.47
	INA TE												20.66	20.89	21.00	20.85	20.76	20.76	20.74	20.70	20.63	20.62	20.65			DINATE	2	2 0	20.03	20.00	18 - 07	20.30	21.10	21 00	21.06	21.21	21.22	21.15		21.15	21.06	20.96	20.92	20.90	20.85	20.18	20.79	20.86	20.16	20.59
	- CO-OR	1.05	1.08	1.09	1.02	1.00	000	00.1	66.00	***	•	66.0	0.99	0.93	0.88	96.0	0.97	96.0	96 0	96.0	1.04	1.06	1.05				200	20.	11.1	71.1	1.10	1.00	1.03	7.00	000	1.03	1.04	1.08		1.08	1.09	1.10	1.06	1.01	1.00	1.05	1.05	1.00	1.04	1.11
	7	22.36	22.30	22.25	22.23	22.24	87.77	17.77	17.77	22.30	16.22	67.77	22.23	22.36	22.45	22.43	22.35	22.33	22.31	22.28	22.32	22.35	22.36				7	MEAN	74.77	76.77	25.52	22.10	81.77	20.00	25 8 2	22.90	22.92	22.93		22.93	22.84	22.17	22.57	22.55	22.50	22.49	22.51	22.50	22.45	22.41
3.)	) (	95 PCT	16.0	11.11	1.09	1.07	1.07	68.0	0.81	28-0	10.1	1.28	1.28	0.95	0.56	0.75	1.04	1.09	1.03	0 89	08.0	2000	0 0		51		100	45 PC	8 . 19	8 . 45	8 - 29	8 . 36	34.	74.8	0 . 37	, a	8 - 21	8 19		8.19	8.11	8.02	8.02	8.17	8.42	8.59	8 . 55	8.51	8.63	8 . 79
•	DINATE	5 PCT	-2.17	-2.11	-2.20	-2.40	-2.60	77.7-	-1.90	-1.75	16.1-	-2.12	-2.12	-2.16	-2.17	-2.36	-2-41	-2.51	-2-40	-2-24	-2.32	-2.37	-2.36	00.7			CUINAIE	5 PCI	5.80	5.85	5.17	2.67	5.69	5.6	7.0	מים מים	5.77	5.67	0.0	5.67	5.80	5.88	5.88	5.84	5.78	5.68	5.68	5.71	5.76	5.80
FERNALE	Y - CO-0RD I	SE	0.96	0.98	1.00	1.06	1.12	0.95	0.83	0.78	0 83	1.04	1.04	0.95	0.83	0.55	1.05	110	1.05	90.0	000	000			ACROMION			SE	0.91	0.19	0.77	0.85	0.84	0.82	0.0		74	77		0.77	0.71	0.65	0.65	0.71	0.80	0.89	0.87	0.85	0.88	0.91
- SUPRASTERNAL		MEAN											-0-42	-0.60	-0-81	-0-81	84.01	100	104	1000	000	01.01	10.10	-01	- LT ACR		1)	MEAN	7.30	7.15	7.03	7.02	1.06	7.08	80.7	0 0	000	6 03	0.43	6.93	6.95	6.95	6.95	7.00	7.10	7.13	7.11	7.11	7.19	7.30
LANDMARK	(	95 PCT	4.15	4.49	4.51	4.60	4-70	4.62	4.53	4.44	4.40	4.54	4.54	4-62	02.7	10.4	2 01	76.0	000	100	4.00	4.00	000	4.10	ANDMARK			95 PCT	2.82	0.53	0.34	0.24	0.26	0.23	0.23	47.0	77.0		0.85	3.85	0.83	0.93	0.99	C. 86	0.95	0.82	0.68	0.37	0.43	0.82
7	DINATE	5 PCT	1.63	1.12	96.0	0.94	0.95	0.98	0.98	1.06	1.20	1.30	1.30	1.37	1 52	100	000	01.1	1 35	07.1	01-1	1101	77.7	1.32	1		DINATE	5 PCT	-1.64	-1.72	-1.91	-2.00	-1.90	-1.69	-1.62	79.1-	10.1-	74.1-	-1.39	-1.39	-1.40	-1.47	-1.63	-1.77	-1.88	-1.80	-1.67	-1.49	-1.50	-1.64
	- C0-0R	SE 5 PCT	0.85	1.03	1.08	1.12	1.14	1.11	1.08	1.03	66.0	66.0	00	000	100	74			0.0	000	0.88	0.88	0.87	0.85				SE	0.75	69.0	69.0	0.68	99.0	0.59	0.56	0.57	0.53	66.0	0.68	84.0	0.68	0.73	0.83	0.80	0.86	0.80	0.72	0.57	0.59	0.75
	X)	MEAN	2.11	2.81	2.73	2.77	2.83	2.80	2.75	2.75	2.83	2.92	0	26.3		2 01	70.7	2.0	10.7	6.62	79.7	7.61	5.04	2.71			X)	MEAN	-0.41	-0.60	-0.79	-0.88	-0.82	-0.73	-0.70	69.0-	-0.64	-0.46	-0.27	70 0-	67.0-	-0-27	-0.32	-0.45	-0.46	-0.49	64.0-	-0.56	-0.53	-0.41
	SAMPLE	SIZE,N	- 1		7	1	7	7	7	7	7	7	,	- 1	- 1	- 1	- 1	- 1	- 1	- 1	_	-	_	-			SAMPLE	SIZE,N	7	7	7	7	7	7	7	1	-	-	7											
	TIME	-	0.0	0 0	0	R 0.40	0	0	0	0	0	1.00		0.0		0	0	o	0		o	o					TIME	_	0.0	0.10	0	0	R 0.40	O	-	_	08.00	0.00	1.00	0	0	0 0	) C	, .	, -	, ,	R 0.70		, –	1.00

			_	ANDMARK	- LT GRIP	CENTER		(11)			
SAMPLE	1:	0-0	A	1 .	1	- CO-ORD	-	1	1	- CO-OR	DINA
4	EB	D 0	17.11	19.36	10.02	5 E	10	75	12.54	HI C	5 PCT
7	8.2	5	7	6	9.7		8.80	0	4.7	2	13.75
2	8 . 4	5	-	6	9.		8.56	0	4.9	4	14.18
91	8 8	+ 1	8	6	9.		8.77	0	8.5	+	16.19
	19.27	0.26	000	6 -	9.	0.28	9.17	0	3	1.21	18.37
7	0.5	n m	0 0	: -	0 0		0.03	00	2000	- a	20.23
7	1.3	2	0	2	0.0		0.40	0	000	0 1	21.70
7	2.0	.4	-	2	2		9.66	0	3.3	- 5	21.94
7	7.0	2	-	3.	4.0		10.09	0	2.3	10	21.90
7	3.1	C	-	4	0.7		10.20	1.	2.5	10	21.74
7	3.1	06.0	1.6	4.6	0.7		2	-	10	5	-
7	1.9	0.17	0.6	3.2	2		4	0	-	1.09	0
7	0.8	0.83	4.6	2.1	8		-	0	01	5	8
_	6.6	0.00	8.4	1.4	-		8	0	-	9	. 9
	1.6	1.24	7.1	1.1	91		S	0		0	4.
- 4		76.0	1.0	0.0	2		7	0		+ 1	4
0 0	000	78.0			+ u		n,			N	3
0.0	8	14	1 . 7	0 0	7		t.	5		7 1	2
7	18.37	0.7	17.21	10.61	0.0	0.53	100	10.83	13.12	200	12.51
. 1	2	0.69	7.1		. 0		2 0		-	0 0	, ,
	•		•	0 0	•		V	5	-	2	. 7
			_	ANDMARK	- LT TROC	TROCHANTER		(61)			
SAMPLE		- CJ-OR	DINAT	(	Y)	0-0	RD INATE-	(	7)	- CO-OR	TANIC
SIZEON	M	SE	5 PCT	95 PCT	4	ш	5 PCT		4	) W	5 PC
7	4	.3	7.	5.35	9	16.0	5.07		30	3	.3
~	4 .	4.	6.	5.29	0	0.91	5.17		20	3	. 3
- 1	4.56	0.53	3.70	5.43	99.9	0.89	5.20	8.12	3.87	0.33	3.33
- 1	\$		7	5.12	0	0.91	5.15		00	3	.3
- 1	*		0	6.06	0	55.0	5.03		00	m	.3
- 1	* 4	- 0	00	74.0	0 1	1.00	4.83		0	m	m) 1
- 1	. 4			21.0	0 4	000	4.70		n	7	· m
1	4	9	5	5.50	2	06.0	5.20		o a	00	. 4
7	4	4.	8	5.36	-	0.75	5.50		0	10	1 4
7	4	.3	0	5.25	-	99.0	5.70		~	N	.3
7		63	4.00	5.25	-	0.66	1.		7 .	~	
7	7.	4.	4.05	5.41	2	0.78	4.		70	12	
7	9	4.	4.02	5.58	10	0.88	7.		8	2	3
7	1.	9.	3.76	5.75	10	0.92	0		30	m	3
7	00	. 5	3.77	5.59	10	0.85	7.		00	2	3
7	. 5	+	3.91	5.42	2	0.77			3	2	.3
-	91	4.	3.87	5.38	~	0.62	1.		30	N	4.
- 1	0.	4.	3.84	5.30	00	0.57	6.		00	2	4.
-	4.48	0.49	3.68	5.28	6.75	0.10	5.59	7.90	3.87	0.28	3.42
- 1	0,1	\$ 1	3.89	5.26	0	0.85	3		00	m	3
,		3	4.13	5.35	2	15.0	0		00	3	3

X W L D X Z

MCVED COM 00 2.15 2.15 3.86 5.93 7.83 10.65 11.6

TOKMAKO

0.00 11.00 12.00 10.00 1

23.42 23.84 22.34 22.34 22.34 11.08 11.08 11.08 11.08 11.08 11.08 11.08 11.08

95 PCT 13.24 15.81 18.77 20.87 22.34 23.94 23.95 24.21 24.19 23.83

x = x = x

	-ORDINA	4.6	9.5	9.6	9.6	9.6	2.6	7.6	6.6	2 9.5		2.6	0 9.5	9.6	0 9.5	4.6 0	1 9.4	0 9.5	9.6	7 9.5	4.6 6	8 9.45		-ORDIVA	5 6	5 1	8 18.	4 18.	3 18.	6 18.	5 19.	5 19.	3 19.	· 67 8	7 20.	1 20.	1 20.	2 19.	.61 0	5 19.	6 19.	7 18.	5 18.	9 18.	0 18	7 18.	5 18.
	2 - CO SE	1.2	1.2	1.1	1.1	1.2	7.7	7.7	7.7	1.2		V	N	-	2	2	2	2	-	2	2	1.2		00 - 2	LL	1.3	N	-	-	0	0	O	m	m	_	m	00	0	-	0	0	0	0	0	1.1	2	m
	IA	. 4	. 2	5	5	0	0	0		11.54	u		0			5.	4.	4.	.5	11.59	5	5		)	A	20.39	+	5	5	9	20	0	?	-	4	0	5	2	n	-	5	5	5	5	20.52	4	3
(12)	95 PCT	7.47	7.35	7.28	7.14	7.03	4.05	01.7	7 33	7.26	ř	07.1	1.17	4.09	7.12	7.17	7.13	7.18	7.20	7.65	7.43	7.47	( 23)	(	95 PCT	60.6	8.81	8.70	8.88	8.98	9.05	9.07	9.23	9.33	9.38	9.45									8.74		
	CO-ORDINATE-	4.38	4.09	4.07	4.17	4.27	4.10	0.4	* 000	3.93		0.40	3.91	4.05	4.14	4.21	4.27	4.10	3.79	3.54	4.13	4.38	CENTER	RD INATE	5 PCT	5.29	5.64	90.9	6.07	5.92	5.75	5.82	5.80	5.17	2.47	5.31	.3	2.	4.	9.	1.	9.	.5	.5	5.65	4.	2.
E 10P	Y - C0-01	0.54	0.99	0.98	0.91	000	0.00	26.0	000	1.02		•								1.25			SHOULDER CE	1	SE	1.16						66.0													96.0		
- LT KNE	EAN	. 0		9	9.	0	0 4	0 4	0 4	5.59	u	0 1	0	5	9	9.		9.	4.	5.60	.8	6.	- LT SHC	١)	MEA	7.19	7.23	7.38	7.47	7.45	7.40	7.45	7.51	7.55	7.43	7.36	m	-	0	-	m	4	3	3	7.20	-	
ANDHARK	95 PCT	: -		-	÷.	:-	: .	: -	: -	21.30	21 30	21.30	21.39	21.52	21.70	21.54	21.28	21.42	21.40	21.82	21.46	21.40	ANDMARK	(	95 PCT	2.34	1.65	1.33	1.21	1.39	1.63	1.77	2.00	2.13	2.34	2.50	10	-	00	-	8	S	-	00	1.67	0	m
-	Y a	2.0	9.1	0.6	9.1	1.6	000	. 0		SO	,	7.0	1.6	9.1	0.6	9.1	4.6	9.1	8.7	18.23	0.6	9.3	-	RDINATE	٩	-0.39	0	0	0	0	0	0.24										0	0	0	-0.14	0	0
	- C0-01	70.00	0.72	0.73	0.70	11.0		0 0	90.00	0.64	77		0.00	0.13	0.80	0.12	0.56	0.10	0.19	1.10	0.73	0.62		0-0	SE	0.83	0.58	0.45	0.39	0.44	0.53	14.0	0.48	0.50	64.0	0.40	0.46	0.34	0.33	0.61	0.54	0.48	99.0	69.0	0.55	0.65	0.83
	MEAN SO									20.26		1 0	4	2	2			7	3	20.02	2	3		X)	EAN	16.0	1.	9.	.5	9.	1.	0	7.		0		1.	.5	7.	7.	0	1.	9.	1.	0.77	8	6.
	SAMPLE	0 4	-	7	-	- 1	- 1	- 1	- 1	-	7	- 1	- 1	- 1	-	-	1	1	7	9	9	9		AMP	SIZE,N	9	9	7	7	7	7	7	-	-	9	9	9	9	7	7	7	7	7	7	7	9	9

 $\alpha u \vdash \supset \alpha z$ 

TOKMACO

13.53 13.51 13.51 13.42 13.42 13.45 13.68

95 PCT 13.64 13.68 13.50 13.50 13.55 13.55 13.55 13.55 0.0 0.37 0.51 0.22 0.28 0.26 0.02 0.07 0.09

22.84 22.80 22.80 22.90 22.17 22.12 22.22 22.33 22.33 22.51

DISTANCE INCR 0.0 0.2 0.2 0.10 0.15 0.23 0.23 0.23

95 PCT 22.557 22.45 22.45 22.45 22.43 22.41 22.59 22.59 22.70

& W - D & Z

CONTARO

MOVED CUM CUM 1.68 3.25 5.11 6.63 8.22 9.12 9.12 9.12 9.12 11.05

DISTANCE INCR 0.0 0.0 1.68 1.86 1.86 1.51 1.59 0.92 0.92 0.92

95 PCT 13.05 15.34 17.43 15.18 20.39 21.75 22.32 22.27

0.0 1.30 2.63 4.14 5.64 7.19 8.26 9.15 9.83

0.00 11.33 11.53 11.55 11.55 00.07 00.07 00.57

222.18 222.15 221.02 211.02 211.02 211.02 211.03 211.03 211.03 211.03 211.03 211.03

19.49 18.02 16.43 14.78 13.21 11.81 10.99 10.61 10.65

TOXIAXO

0.0 1.51 1.45 1.45 1.12 1.12 0.71 0.27 0.17

19.58 17.87 17.87 17.14 16.50 16.51 16.19 15.90 15.77

17.32 15.84 114.24 112.81 11.84 110.94 10.72 10.59 10.30

DISTANCE INCR 0.50 0.54 0.55 1.02 1.06 0.93 0.93 0.93 0.95

15.42 15.42 15.60 15.57 16.06 16.76 17.61 18.11 18.55 18.55 19.21

XWHDXZ

XWF DXZ

HOKEANO

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTICN NUMBER - 11150 BACK ANGLE - 13

SUB-MOVEMENT	8 9 8	TIME DATA	1	!	
	MEAN	STD DEV		SANGE	
RGHT FWD	8 0	0.15	0.60 TO	00-1	1.co secs.
RGHI REV	J. 74	0.15	3.60 T3	1.00 SECS.	SECS

3
~
9
7
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NC.
/HT
I

	TANCE MOVED	0.0																			0.15 2.48				STANCE MOVED				0.14 0.54																0.10 1.25	
	PCT 1015	31.27	.74	.56	.55	.37	-23	-14	.32	64.	.50	.40	04.	.37	.42	.43	.43	.50	•53	• 56	31.35	67.	17.		210 [	PCT	.54	69	25.60	20	.62	00 4	20	.72	84	.71									25.43	
	ORDINATE																				27.72				JA C				21.97																22.12	
	2 - 53-6	1.09	1.33	1.21	1.17	1.06	0.99	0.94	0.99	1.06	1.06	1.07	1.07	1.10	1.15	1.17	1.19	1.23	1.17	1.18	1.11	1.08	1.09		7 - 60-6	- W	1.15	1.19	1.11	1.03	1.12	1.13	1.11	1.15	1.17	1.14	1.14	0.96	1.01	1.06	1.08	1.08	1.09	1.06	1001	1.09
	N A TH	29.48	29.57	29.57	29.04	29.63	29.50	59.53	29.10	29.70	29.77	29.55	29.65	29.57	29.53	29.52	29.43	59.49	79.67	29.62	29.53	24.62	27.10		)	MEAN	23.56	23.74	23.78	23.82	23.18	23.61	23.77	23.83	23.94	23.84	23.84	23.89	23.89	23.91	23.32	23.87	23.30	23.80	23.78	23.70
(1)	95 PCT	1.00	-0.12	-0.56	-3.52	-0.74	66.0-	-1.06	-0.63	14.0-	-0.10	-0.29	-0.29	0.93	1.36	1.63	1.53	1.40	1.31	66.0	3.84	0.00	00.1	(2)	(	95 PCT	1.97	2.24	1.85	1.71	1 . 88	10.1	2.80	2.92	2.75	2.77	2.17	2.43	2.27	2.62	2.79	2.57	2.27	2.24	2.33	2.25
	ORD INATE-	-1.53	87.4-	-4.45	-4.13	-4.01	-3.66	-3.58	-3.48	-3.59	-3.65	-3.52	-3.52	-2.27	-1.79	-1.90	-1.93	-1.80	-1.47	-1.31	-1.09	CT-T-	66.4		RD INATE-	5 PCT	-1.17	-1.14	66.0-	-0.53	19.0-	60.01	-0-31	44.0-	-0.32	-0.38	-0.38	60.0	-0.18	-0.83	-1.04	-1.02	-1.02	-0.98	-1.28	-1.56
z	Y CO-0	0.79	1.24	1.18	1.12	1.00	0.85	0.77	0.85	0.97	1.08	0.98	0.98	0.98	96.0	1.08	1.06	0.98	0.85	0. 70	0.00	0.00	•	CALE	Y - CO-0RD	SE	96.0	1.03	0.86	0.68	0.16	0 0	0.95	1.02	0.93	96.0	96 .0	0.71	0.75	1.07	1.17	1.09	1.00	0.98	1.10	1 1 1
- NASION	MEAN	-0.24	-2.15	-2.49	-2.36	-2.37	-2.32	-2.32	-2.08	-2.00	-1.88	-1.91	-1.91	19.0-	-0.21	-0.13	-0.20	-0.20	80.0-	-0-16	21.0-	201	13.0	- CERVICAL	)				0.43								1.19	1.26	1.05	0.86	0.87	0.78	0.63	0.63	0.53	0.35
LANDMARK	9.5		80										9.18	9.54	9.72	99.6	9.74	49.5	9.52	9.71	7.80	000	06.00	LANDMARK	(	95 PCT	1.00	0.88	0.80	0.19	0.51	100	0.74	0.43	0.56	69.0	69.0	Ú.84	0.82	0.58	0.89	0.85	0.81	1.05	1.00	0.85
	S PCT	3.72	4.05	3.85	3.98	3.76	3.26	3.33	3.26	3.36	3.40	3.49	3.49	3.90	3.99	3.73	3.64	3.82	3.89	3.74	3.86	20.0	3.00						-2.31								-2.43	-2.64	-2.88	-2.82	-2.78	-2.82	-2.75	-2.70	-2.66	-2.90
	x - C0-0R										1.74		1.74	1.72	1.75	1.81	1.86	1.77	1.72	1.82	18.4	1001	17.04		x - C0-D		1.26	96.0	0.95	0.93	0.80	1-14	0.99	0.83	0.87	0.95									1.12	
	MEAN	9	9	9	0	9	0	0	•	9	. 0	٥	.3	1.		1.	9.	-		-	6.83	0 0	•				-1.07	-0.70	-0.75	41.0-	06.01	96-0-	-0.88	-0.94	-0.86	-0.87	80	6.	0	7	6	6.	6	8	-0.83	0
	SAMPLE	1	1	7	7	7	7	7	7	7	- 1		7	7	7	7	7	1	- 1	- 1	- 1	- 1	-		AMP	SIZE, N		7	- 1	- 1	- 1	- 2	7	7	7	7									7	
	TIME		2		•	ċ	0	o	်	3	0.00	•	0.0	0.10	0	0	0	0	09.00	0	90	000	•		TIME	1	0.0	0	F 0.20	0	2 0	00	0	0	05.0	1.00	0.0	0.10	O	0	0	J	09.00	_	0	06.0

NCE MOVED										0.09 1.36													.10 3.15			Σ.					0.43 0.83									1.20 0.35						
DISTA													0	0	0	0	0	0	0	0	0	0	0			510												0	0	2	0	0	0	0		0
	95 PC1	24.52	24.60	24.58	24.50	24.52	24.51	54.46	24.44	24.44	24.33	24.40	24.40	24.50	24.50	24.47	24.50	24.60	24.59	24.62	24.57	24.55	24.52				95 PCT	27. 38	24.18	24.34	24.44	24.33	24.27	24.54	24.66	24.68	54.69	24.69	24.52	24.46	24.37	24.34	24.41	24.37	24. 33	67.47
		20.71	20.72	20.87	52.18	20.85	20.96	20.83	20.94	20.90	21.03	71.04	21.04	21.09	20.99	21.03	21.09	21.06	20.98	20.90	20.91	20.85	20.71		D	UINAIE-	2000	00.00	20.02	20.44	20.71	20.99	21.33	21.38	21.48	21.57	21.48	21.48	21.60	21.38	21.15	20.94	20.75	20.59	20.48	0
- C0-0R	SE	1.16	1.18	1.13	1-13	1.12	1.08	11-1	1.07	1.08	1001	1.02	1.02	1.04	1.07	1.05	1.04	1.08	1.10	1.13	1.11	1:13	1.16		0	5					1.14							0.98	0.89	0.94	0.98	1.03	1.11	1.15	1.14	
7)	MEAN	22.62	22.56	22.72	49.77	22.58	41.77	49.77	65.22	22.57	22 22	71.77	22.72	22.79	22.74	22.75	22.79	22.83	22.79	22.76	22.74	22.70	22.62		()	7	MEAN	22.13	22.27	22.47	22.58	22.50	22.80	22.30	23.37	23.13	23.08	23.38	23.36	22.92	22.76	22.54	22.58	22.48	22.35	
(	95 PCT	2.24	2.24	1.97	68.7	2.33	3.03	5.09	5.85	2.65	20.7	60.7	2.63	2.50	2.31	2.29	1.55	2.12	1.21	2.26	2.10	2.11	2.24	7 7		100	-7 7 7	-6.95	-6.99	-7.03	-6.81	-6.62	-4.83	-5.64	-6.41	-6.21	07.0	-6.26		-6.35	9	-6.83	. 9	7.	7.	
RD INATE-	5 PCT	-1.49	-1.54	-1.58	70.1-	10.1-	-2.05	11.93	10.1-	-1.45	-1 52	66.4-	-1.53	-1.23	-1.21	-1.42	66.0-	-2.70	-1.10	-1.30	-1.44	-1.47	-1.49	_	DINATE	E DCT	200	-8-64	-8.65	-8 - 34	-8.23	-8-12	-10.96	-9.12	17.7-	96°1-	1000	-8.04	16.7-	-8.03	67.8-	-8.30	-8.34	-8-41	-8.40	
0-00 -	SE	1.14	1.15	80.7	000	1 56	1 63	1 24	000	1.24	1.26	03.4	1.26	1.14	1.07	1.13	0.78	1.47	0.70	1.08	1.08	1.09	1.14	ACROMION	- CO-ORD	, u	0.46	G 52	0.50	0.40	0.43	0.46	1.88	1.06	0,40	20.00	000	0.55	0.51	0.51	0.47	0.45	0.45	0.43	0.45	
-										0.58			0.53	0.64	0.55	44.0	0.28	67.0-	50.0	0.48	0.33	0.32	0.38	- RT ACRO	λ)	MEAN	-8-03	-7.79	-7.82	-7.68	-7.52	-7.37	-7.88	7.38	1.00	17.15		-7-15	10.1-	-7.20	-7.53	-7.50	19.1-	-7.71	-7.78	
[	95 PCT	07.0	0.32	4 05	000	40.0	000	7 B 7	0 4	5.77	5.96		5.96	5.92	5.93	5.83	6.65	8.08	0. 78	6.30	6.13	20.0	6.26	ANDMARK	[	95 PCT	2.54	2.41	1.95	1.33	1.07	0.92	2.74	0.98	0.63	0.00		0.58	0.63	0.64	0. 10	1.28	1.66	1.87	2.36	-
3													-0.10	19.0-	10.46	4.0	81.1-	87.4-	50°T-	17.0-	0.11	80.0	-0.13	_	DINATE	5 PCT	-1.26	-1.49	-1.21	-1.09	-1.54	-2.09	-3.07	16.31	07.7-	-2.39		-2.39	11.7-	-2.11	-2.11	-2.22	-2.03	-1.58	-1-16	
0-00 -	SE	1 83	1 77	1.77	1 86	2.07	1.96	1.83	1.83	1.92	2.03		2.03	66.1	1.90	7.40	10.7	7 00 14	1007	1.90	+ 0 0 · 1	70 . 7	1.95		_						0.79							0.91	0.90	\$ 0° 0	0.86	1.01	1.12	1.05	1.01	,
1	HA C	9 "				1	7	7	2	2.62	9	,	2.63	0 1	•		1 0	. 4	,		-	0 0	?		X)	EAN					0		00		1			-0.91	•	~ `	- 1	14.0-	61.0-	41.0	00.0	170
SAMPLE	1750	- 1			~	7	7	7	7	7	7	,	- 1	- 1	- 1	- 1		- 1	- 1	- 1	- 1	- 1	-		7	1 Z E		7	7	1	7	<u>_</u>		- 1	1	. ~			- 1	- 1	- 1	- 1	- 1	~ 1	- 1	7

ZWFJKZ

CONFARO

~ W F D « Z

CDXBAKO

MOVED	0.0	1.04	2.20	4.50	8.55	12.36	20.37	23.81	25.63	26.43	26.61	c		7.00	2.00	6.32	10.21	12.95	17.00	17.85	19.05	04.0	10.7H		MOVED	2	500	200	1.0	54.0	0.00	1.0	1 22	1 41	1.45	1.54	1.17	0-0	200	31.0	0.30	1770	0.58	0-62	0.72	0.92	13	1.00
UISTANCE INCR	0.0	1.04	1.17	2.30	4004	3.82	8.01	3.44	1.82	0.80	0.18	0		1.00	2000	7.08	3.89	2.74	4.05	0.85	1.20	00.0	0.08		DISTANCE	TAIL	NO.	000	100	0.00	0.0	17.0	77.0	000	0.03	0.10	0.23	0.0	0-12	90.0	0010	0-10	0-11	20.0	0.10	0.20	) (	0000
95 PCT	13.51	14.47	16.08	19.23	21.96	22.87	28.46	22.82	22.15	22.04	22.24	22 26	22 27	22 63	66.22	73.50	25.07	20.32	16.87	16.28	14.55	13.91	13.51			OF DCT	10 TC	20.4	000	600	4.03	100	000	4.86	4.87	4.80	4.74	4-74	4 . R 3	4 89	4.81	4-82	4.93	4.93	46.4	4.96	, 03	4.70
DINATE	11.75	10.73	10.58	10.40	15.61	16.50	13.56	21.44	21.39	21.34	21.15	71.16	21 56	20 74	1000	78.50	12.55	13.76	12.01	11.25	11.43	11.37	11.75		DINATE	5 PCT	2.87	2.97	200	0000	000	2 05	20.5	2.96	2.97	3.03	2.97	2.97	3.02	2.99	2.95	2.97	3.00	3.03	3.01	2.98	200	6.30
- CO-OR	0.54	1.14	1.68	2.69	2.85	1.94	71.7	0.45	0.23	0.21	0.33	0.33	100			70.1	1.99	2.00	1.48	1.53	0.95	0.77	0.54		- 00-03	,	0.64	0 0 0	400	0 0	0.50	84.0	0.50	0.58	0.58	0.54	0.54	0.54	0.55	0.58	0.57	0.56	0.58	0.58	0.59	09.0	0.40	30.0
MEAN	12.63	12.50	13.33	14.31	11.28	19.68	70.47	22.13	21.17	21.69	21.70	21.70	21.24	21.54	10000	2000	18.81	11.04	14.44	13.76	12.33	12.54	12.53		//	MEAN	3.37	3.0.5	100	2000	3000	10.6	30.6	3.91	3.92	3.91	3.35	3.35	3.93	3.94	3.88	3.30	3.95	3.98	3.97	3.97	0	44.0
35 PCT	-1.15	-1.95	16.1-	20.2-	-3.52	-5.75	+4.00	-11.70	-12.87	-13.37	-13.66	-13.66	-12.00	10.01	10 9	17.6-	10.01	-2.83	-1.15	-1.05	-1.40	-1.15	-1.15	181	(	95 PCT	-6.33	-6.04	-6.47	-6.32	-6.29	-5-62	-6.32	-6.12	-6.18	-6.28	-5.94	-5.94	-6.23	-6.27	-6.14	-5.98	-6.03	-6.20	-6.22	60.9-	-4.24	
SE 5 PCT																							-2.69	_	RD INATE	5 PCT	-8.89	-8.92	00	-0.03	-8-89	-9-43	-8.99	-8.98	-8.98	-9.04	-9.33	-9.33	-8.86	-8.83	10.6-	-9.22	-8.94	-8.83	-8.98	-9.05	-8-93	
SE SE																							0.47	RT TROCHANTER	- CO-OR	SE	0.78	0.88	0.80	000	62.0	1.16	0.82	0.87	0.85	0.84	1.03	1.03	0.80	0.78	0.89	66.0	06.0	0.80	0.84	06.0	0.82	3
MEAN	76-1-	-2.63	67.6-	14.20	77.0-	10.04	000-17	-13.49	-14.43	-14.37	-14.27	-14.27	-13-41	-11.50	10.05	1000	77.0-	00.01	-3.54	-3.11	-2.40	-1.96	-1.92	- RT TRO	١)	MEAN	-7.61	-7.48	-7-78	-7-78	-7.59	-7.53	-7.66	-7.55	-7.58	-7.66	-7.64	-7.64	-7.55	-7.55	-7.60	-7.60	-7.50	-7.51	-7.60	-7.57	-7.59	
95 PCT												13.85	12.71	12.01	1 2 74	1 5 07	000	10.38	11067	15.89	19.88	20.28	20.10	ANDMARK	()	95 PCT	5.10	5.04	4.97	4.97	4.85	5.19	4.71	5.31	5.33	5.18	4.92	4.92	5.07	5.01	4.72	4.73	5.17	5.49	5.34	5.08	06.4	
5 PCT	20.11	16.40	70.07	10.66	000	0000	2000	9.34	11.16	11.72	11.68	11.68	10.14	9.41	9.72	11 10	07071		97.67	15.59	16.78	16.99	17.02	7						2.89								2.63	2.52	2.70	3.32	3.52	3.03	2.76	3.00	2.86	2.93	
SE	***	90.0	10.1	1.54	10.1	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.		0.53	0.41	0.54	99.0	0.66	0.78	0.79	0.92	100	0 0 0	00.7	74.7	1.31	0.94	1.00	96.0		- C0-0F	SE	0.71	0.65	0.63	0.63	0.62	0.73	0.57	0.85	2.84	0.73	0.10	0.70	0.78	0.71	0.43	0.37	0.65	0.83	0.72	0.63	0.60	
MEAN	7 0	18-11	- 4	16	7 "	4 1	• (	<b>7</b>	-	12.61	2	2	-	0	-	9 (4	n u	10	- 1	_	æ	B	18.56		~	EAN		.98	76	. 93	.84	40.	17.	.93	.95	66.	11.	3.77	3.80	3.85	4.02	4-12	4-10	4.13	4-17	3.97	3.92	
SIZE,N	- 1	- 1	- 1	- 1-	- 1	- 1	- 1	- 1	_	-	7	7	7	7	7		- 1	- 1	- 1	-	7	7	7		SAMPLE	SIZE,N	7	7	7		1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
- 0	0	0	0	00000	0	00	•	0	0	0.00	1.00	0.0	0.10	0.20	C	0 0	0	0 0	0	2.0	0	06.0	1.00		TIME	-	0.0	7	0.2	0 0.30	4.0	0.5	0.0	0.7	0.8	6.	2	0.0	0.10	0.20	0	0	0	0	R 0.70	N 0.80	06.0	

LANDMARK - RT GRIP CENTER

MOVED	CC	0.0	0.50	0.35	0.40	0.58	0.89	1.20	1.35	1.41	1.46	1.54	(	0	60.0	0.15	0.28	0.35	25.0	0.55	0.63	0.72	3.81	20.0	•
DISTANCE	INCK	0.0	0.50	0.15	0.05	0.18	0.31	0.32	0.14	90.0	0.05	0.08		0.0	60.0	90.0	0.13	0.07	0.12	0.08	0.08	60.0	0.08	0.64	
	95 PCT	13.27	14.93	13.11	13.21	13.15	13.21	13.60	13.34	13.18	13.20	13.30		13.30	13.20	13.25	13.15	13.08	13.17	13.20	13.28	13.19	13.19	12 27	79.64
CO-OZDINATE	5 PCT	10.17	10.41	10.31	10.20	10.29	10.28	10.09	10.26	10.31	10.29	10.23		10.23	10.26	10.29	10.28	10.26	10.25	10.29	10.30	10.21	10.15	10 17	7.07
- 60-03	SE	0.95	0.77	0.85	0.92	0.87	0.83	1.07	0.94	0.87	0.89	0.94		0.94	0.90	06.0	0.88	0.86	0.89	0.89	0.91	0.91	0.93	90	0.30
7	MEAN	11.72	11.57	11.71	11.71	11.74	11.74	11.84	11.80	11.75	11.74	11.76		11.76	11.73	11.77	11.71	11.57	11.71	11.75	11.79	11.70	11.57	11 7 3	71.11
(	95 PCT	-5.11	-4.83	96.4-	76.4-	-4.82	-4.48	-5.08	-4.76	-4.63	CZ-4-	-4.83		-4.83	-4.80	-4.92	-5.18	-5.29	-5.42	-5.54	-5.46	-5.38	-5.23		17.6-
CO-ORD INATE	5 PCT	-8.53	-8-45	-8.60	-8.58	-8.43	-8.37	-8.34	-8.41	-8.52	-8.55	-8.53		-8.53	-8.38	-8.33	-8.26	-8.26	-8.31	-8.33	-8-36	-8-47	-8-47		-8-53
- CO-OR	SE	1.04	1.10	1.11	1.12	1.10	1.19	66.0	1.11	1.18	1.17	1.14		1.14	1.09	1.04	0.94	0.91	0.88	0.85	0.89	95-0	0.09		1.04
λ)	MEAN	-6.82	-6.64	-6-78	-6.75	-6.62	-6.43	-6.71	-6.58	-6.58	-6.63	-6.66		-6.66	-6.59	-6-62	-6-72	17.0-	-6.87	-6.93	16.01	10.03	2 4 4 4	000	-6.82
(	95 PCT	20.25	19.88	20-03	20.32	20.30	20-65	20.23	20.25	20.36	20-45	20.40		20.40	20-61	20-68	20.55	20-46	20.27	20.07	20.00	20.21	17.07	7.07	20.25
0-080INATE	5 PCT	18.49	18.98	18.87	18.51	18.27	1 4-40	18.62	18.48	18.30	18.18	18.09		18.09	17.98	17.97	18.21	18.37	18-67	8 8 8 1	70.01	10.01	10000	14.07	18.49
AC-07 -	0	0.54	0.28	0.35	0.00	0.62	0.60	04-0	0.54	0-63	0.00	0.10		0.70	0.80	2 2	71	0.64	0-49	94.0	0 0	100	0 0	0.00	0.54
× 1		19.37	10.63	10.45	10.42	10.20	10.53	19.42	19.37	10.33	10.31	19.25		19.25	10 30	10.32	10.25	10.42	19.47	77 0	1000	00.61	17.00	16.67	19.37
CAMDIE	S T T E I	7	- 1	- 1	- 1	- 1		- 1	7	7				7		- 1	- 1-	- 1	- 1	- 1	- 1	- 1	- 1	-	7
14	- 17	- 0		01.0		0000						1.00		0-0				0 0						06.0	1.00

MOVED	CUM	0.0	67.0	0.32	04.0	0 -	01.1	1.45	1.94	2.30	2.54	2.71	2.81		0.0	0.12	0.31	0.53	1.14	1.44	1.72	1.90	2-14	2.27
ISTANCE	INCR	0.0	67.0	0.03	000	67.0	7	0.35	0.40	0.37	47.0	0.17	0.11		0.0	0.12	0.50	0.22	79.0	0.30	0.27	0.18	72.0	0.13
0 (	95 PCT	21.39	21.39	21.53	21 61	10.17	71.17	79.17	51.64	21.91	21.95	22.02	22.08		22.08	21.12	21.55	21.58	21.47	21.48	21.46	21.42	21.24	21.23
DINATE	5 PCT	18.47	18.77	18.65		70.30	11.61	19.61	19.70	20.03	20.20	20.12	20.12		20.12	20.32	20.18	16.61	19.63	19.61	19.22	19.05	19.05	18.83
- CU-OR	SE	0.89	0.80	2 . 0		0.00	61.0	19.0	0.59	0.57	0.53	0.58	00.0		09.0	0.43	0.42	0.51	0.54	0.63	0.68	0.72	19.0	0.73
7)	MEAN	19.33	20.08	27. 10	60.07	50.56	70.07	20.61	20.57	20.97	21.37	21.07	21.10		21.10	21.32	20.87	20.75	20.58	20.44	20.34	20.24	41.02	20.33
(	35 PCT	-6-80	-6-61	-6 50	60.01	-6.63	-6.58	-6.32	-6.87	-6.74	-6.53	-6.57	-6.47		-6.47	-6.51	-6.55	-6.48	-5.76	-5.95	-6.67	-6.97	-6.95	-6.93
U INATE-	5 PCT	-8-23	000	-	CT - 8-	-7.98	-8-10	-8.00	-7.99	-7.93	-8-01	-8-10	-8.21		-8.21	-8.02	-7-93	-8-14	-8.41	-8.35	-8.06	-7.94	-7.96	-8-05
- C0-0R	SE	77	0 0		0 . 40	0.41	0.47	0.51	0.34	0.36	0.45	0.46	0.53		0.53	0-46	0-42	0.51	0.81	0.73	0.43	0.30	0.31	0.35
Y)	MEAN	-7 53	7 2 2	- 1	16.1-	-7.31	-7.34	-7.16	-7.43	-7.33	-7.27	-7-34	-7.34		-7.34	-7.27	-7-74	-7.31	-7.08	-7.15	-7.37	-7.46	-7.46	-7.47
(	05 PCT		0.40	2.50	78.7	2.31	2.10	1.90	1.68	1.35	1.48	1.73	1.72		1.72	1.63	1 70	2.03	2.27	2-45	2.64	7 6 5	3.21	4
DINATE	1 1 0 5		50.0	00.00	0.31	0.37	-0.36	-0.63	-1.19	-1.23	10.05	000	1000		-1-00	00	000	000	-0.07	0.27	1 10	00.00	0-46	
- CO-08	) u		1.02	1.00	0.16	0.59	0.75	0.76	0.88	0.79	77		000		98	0 0	0 0	000	0-71		000	0 0	9 0	
X	MEAN		1.10	1001	1.56	1.34	0.87	0.65	0.25	0.00	7000	2.70	24.0	70.0	0 33	70.00	17.0	0.40		1 26	000	1.00	2 0 0	
RAMPIE	SAITE	NITTE	- 1	-	7	7	7	7	7	- 1	- 1	- 1	- 1		-	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1
TIME	THE		0.0	0.10	0.50	0.30	0 * 0	0 - 50		000		000	06.00	1.00	0	0.00	01.0	07.0	000	0 0	000	000		

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CUH	0.0	1.28	1.88	2.85	4.10	66.4	20.0	7.00	7.80	8.26	8.39	0-0	2 4	000	2 66	2	04.0	77.4	5.16	2.91	6.42	6.73	6.88		AUVED	71.0		1.42	2 57	4.34	7.20	9.92	3.61	5.03	6.33	6.93	7.11	0.0	1.35	3.10	5.45	8.48	0.17	3.08	3.75	4.66	5.19	5.54
DISTANCE .	0.0	1.28	09.0	46.0	1.54	4000	1.03	0.98	0.80	94.0	0.13	0.0	4	200		000	0 1		76.0	0.75	0.51	0.30	91.0		DISTANCE		200	24.7	1 1 5	1.70	2.84	2.73	3.68	1.42	1.30	0.57	0.21	0.0	1.35	1.74	2.36	3.03	1.68	2.91	0.67	0.91	0.53	0.34
95 PCT	13.02	17.90	13.07	13.15	13.10	13.13	13.19	13.36	13.84	14.33	14.51	14.51	12.77	) (	1 "	10.01	7 (	2 0	2	3	3	3	13.02		(	05 OCT		1 7		17.26	8	1	20	7	20	70	20	20.22	19.83	56.67	20.03	19.23	17.69	15.41	14.77	13.85	13.51	13.10
	8.08	8.09	8.00	CK - 1	41.0	4.0	7.80	10.95	11.45	11.49	11.41	11.41	01 11	0.0	0 23	0 73	0.0	97.9	8.16	8.09	8.00	7.88	8.08		STANIO	F DCT	11.15	10.20	10.13	05-01	11.87	14.59	17.17	18.43	18.75	19.12	10.61											11.15
- C0-08	1.51	1.47	1.55	1.09	1.75	1.34	1.03	0.14	0.73	0.87	0.95	0.95	6.81	40.1	300	1 4 4	***	1001	1.00	1001	1.63	1.64	1.51		-					2.04								0.37	0.27	0.71	1.36	17.1	1.49	1.27	1.13	0.88	0.80	0.59
MEAN HEAN	10.55	10.49	10.53	10.00	000	10.75	64.77	12.15	12.55	12.91	12.90	12.36	12.44	11.50	11.30	0	0101	76.07	F1.01	10.13	10.57	10.50	10.55		()	MIAN	12.17	12.71	12.30	200	15.40	17.21	19.07	19.37	19.45	19.58	19.05	19.67	19.43	18.79	7.8	6.3	15.24	3.3	6.3	12.41	12.20	12.12
95 PCT	-6.21	-6.03	-6.31	76.0-	10.09	07.1-	6.00	-9.31	- 9.88	-10.02	-9.92	-9.92	14.6-	00	- B 27	17.0	000	67.1-	-0.50	-6.31	-6.37	-6.40	-6.21	( 26)	(	OS DCT	-2.35	-3.13	-3.30	-3.51	-4.29	-5.57	-7.76	-10.65	-11.91	-12.30	-12.24	-12.24	-11.16	-8.90	-5.63	-2.23	-3.88	-2.32	-2.96	-2.73	-2.51	-2.35
CO-ORDINATE-	-7.90	-10.33	-10.81	04.11	11.21-	+6.21-	10.01	-13.81	-14.38	-14.12	-14.23	-14.23	-13-46	-12.30	-11.76	-11	00.44	00.01	- 10.05	04.6-	-8.54	-8.02	-7.90	×	D INATE-	5 PCT	-3-61	-4-88	15.87	-7-14	-9.27	-11.06	-14.54	-14.04	-14.99	-15.02	.80 -14.87	-14.87	-13.52	-12.54	-11.74	-10.71	-8.10	-6.65	-5.53	-4.68	-4.04	-3.61
- c0-09	0.51	1.31	1.3/	10.1	1 75	1.15	1.45	1.39	1.37	1.25	1.31	1.31	1.23	1.64	1.06	90		00.	00.1	0.54	99.0	0.49	0.51	ST CENTER	- CO-01	T.				1.11								0.80	0.72	1.11	1.86	2.58	1.29	1.32	0.78	65.0	0.47	0.38
MEAN	-1.05	-8.18	000	60.01	00.00	20.01	06.01	-11-59	-12.13	-12.07	-12.07	-12.07	-11-43	-10.59	-10.01	100		26.01	000	-1.86	-7.46	-7.21	-7.05	- RT WRI	X)	MFAN	-2.98	-4-00	-4-60	-5.33	-6.73	-8.31	-11.15	-12.34	-13.45	-13.60	-13.55	-13.55	-12.34	-10.72	-d.69	14.9-	-5.99	-4.48	-4.25	-3.70	-3.27	-2.9B
95 PCT	8.32	7.68	1.32	0000	4. 30	4.28	10.0	4.03	4.17	4.39	4.63	4.63	4.60	4.61	06-7	6. 62	70.7	000	7701	1.03	7.83	8.14	8.32	ANDMARK	[]	5 PCT	6.80	5.68	5.66	14-61	2.33	1.20	00.00	9.73				10.79	10.31	10.31	10.89	12.17	14.40	15.59	16.41	16.51	16.68	16.80
JINATE-												3.32	3.20	3.02	2.46	2.63	000	60.7	2.03	4.41	4.84	4.83	4.67		DINATE-	5 PCT	14.31	13.49	12.08	10.51	8.98	7.44	5.13	7.41	8.45	8.95	60.6	60.6	8.42	8.22	8.95	10.56	10.74	12.73	12.85	13.80	14.10	14.31
- C0-0R.		1.09												64-0			•	•							- CO-0P	SE				1.25								0.52		9.0			•					•
MEAN	00.90	5.90	7.43	2 2 2	000	20.2	00.7	3.10	3.49	3.86	3.98	6	6	3.82	-	-	4 1			9		4.	5		X	NA-	15.56	14.58	13.87	12.56	10.06	9.32	7.86	8.57	9.25	9.16	16.6	96.6	9.37	9.27	6.92	1:	2.	4.	14.63	5	2	5
SAMPLE	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	٥	0	9	9	7	7	7		- 1	- 1	-	-	7	7		AMPL	SIZE.N		9	0	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	0	٥
	•	0	•			00	•	5	5						,				•	· .	5		1.00		TIME	-		7	6.2	0 0.30	0.4	0.5	0.6	0.7	0.8	5.		3	-		0.3	0.4	0.5	9.0	. 7	0.8	5.	0

LANDMARK - RT ELBOW CENTER

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MUTICN NUMBER - 12160 BACK ANGLE - 13

SUB-MOVEMENT	MEAN 0.64	MEAN STD DEV RANGE 0.64 0.10 0.50 TD 0.	TA	NGE 0.80	SECS.
RGHT REV	0.73	0.20	0.40 TO 1.00 SECS.	1.00	SECS.

X W L D X Z

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	OVED	0.0	0.21	0.39	0.70	56.0	1.01	1.16	1.32	1.52	1.74	0.0	0.14	0.26	0.45	0.57	69.0	76.0	1.35	1.47	1.72	1.86		MOVED	COM	0.0	0.56	1.05	1.60	2.03	2.80	2 21	2.21	3.41	3.52		0.0	0.13	00.00	000		1.C4	2.13	70 6	2 22	27.6	7.0.1
	ISTANCE M	0.0	0.21	0.18	0.12	0.24	10.0	0.15	0.16	0.20	0.22	0.0	0.14	0.12	0.19	0.12	0.11	0.25	0.41	0.12	0.25	0.14		DISTANCE	INCR	0.0	.5	4.	.5	0.43		1.	7-		: -		0.0	-	20	, ,			2 .	000		2-	•
	• u	24.89	4	4 4	- 4	4	4	4	4	4	4	24.76	24.69	24.52	24.41	24.52	24.53	24.60	24.63	24.74	24.77	24.89		0 (	95 PCT	23.28	23.44	23.45	24.64	24.44	24.11	24.00	25.33	24.20	24.32		24.32	24.04	23.70	23.51	10.67	23.30	24.06	61.67	73.67	20.00	07.67
	DINATE	20.69	20.82	21.01	21.12	21.19	21.14	21.18	21.19	21.18	21.20	21.20	21.39	21.32	21.12	21.18	21.12	20.98	20.99	20.89	20.63	50.69				19.95	20.38	20.42	18.38	19.32	21.18	25-12	21 50	21 60	21.62		21.62	21.64	21.53	21.32	91.17	20.93	18.45	17.10	74.07	50.07	14.40
	×	1.28	1.18	1.07	1.06	1.09	1.12	1.10	1.03	1.05	1.09	1.09	10.1	0.97	1.00	1.02	1.04	1.11	1.11	1.17	1.26	1.28		~	SE	1.02	0.93	0.92	16.1	1.56	0.89	0.78	0.61	0.00	0.00		0.82	0.73	0.66	19.0	0.12	0.72	1.71	1.03	000	1.00	70 • 1
	7	22.79	22.70	22.17	22.85	22.39	22.98	22.98	22.88	22.90	22.98	22.98	23.04	22.92	22.76	22.85	22.83	22.79	22.81	22.81	22.70	22.19		7)	MEAN	21.62	21.91	21.93	21.51	21.88	22.65	22.19	46.22	22 00	22.97	16.77	22.97	22.84	22.52	22.41	22.34	22-12	21.25	21.44	21.83	21.01	70.17
3)	) (	2.20	2.70	2 . 84	2.53	2.89	3.23	3.28	3.07	2.88	2.88	2.88	2.65	2.63	2.91	2.93	2.78	2.86	2.63	2.26	2.22	2.20	4 )	[	95 PCT	-7.06	-6.81	69.9-	-6.84	-6.83	-6.56	-6.32	-6.16	97.9-	16 30		-6.30	-6.22	-6.19	-6.41	-6.59	-6.85	-6.74	-6.77	-6.96	-6.98	- 1 - 06
,	DINATE	-1.15	-1.29	-1.18	20.01	-0.98	-1.19	-1.12	-1.06	-1.13	-1.38	-1.38	-0.93	-0.83	-1.08	-1.19	-1.06	-1.20	-1.19	-0.99	-1.27	-1.15	_	ED INATE-		w	w	w	w	-8.25	w	w	~ .	~ `	~ ~	_	-8.15	-8.19	-8.30	-8.29	-8.33	-8.51	-8.56	-8.73	-8.55	-8-79	-8.8
TERNALE	- CO-ORD	1.02	1.22	1.23	1.03	1.18	1.35	1.34	1.26	1.22	1.30	1.30	1.09	1.06	1.22	1.26	1.17	1.23	1.17	0.99	1.07	1.02	ACROMION	V - CO-0801	) L	0.55	0.57	0.53	0.45	0.43	0.52	09.0	0.61	0.54	60.00	0.0	0.57	09.0	99.0	0.57	0.53	0.51	0.55	09.0	0.48	0.55	0.55
- SUPRASTERNAL	١١	MEAN 0.53	0.71	0.83	000	0.00	1.02	1.08	1.01	0.87	0.75	0.75	0.86	06.0	0.91	0.87	3.86	0.83	0.72	0.64	0.47	0.53	- RT ACE	()						-7.54							-7.22	-7.21	-7.25	-7.35	-7.46	-7.68	-7.65	-7.75	-7.75	-7.88	-7.97
LANDMARK	[	9.5 PCT	4.89	4.77	4.00	4.54	40.4	4-75	64-4	4.48	4.82	4.87	4.76	4.56	4.39	4.80	4.56	4.55	5.01	5.16	4.92	5.04	ANDMARK		0	-				0.10							6.92	0.79	0.73	0.72	1.23	1.40	1.89	2.45	2.39	2.58	2.73
7	DINATE	5 PCT	0.08	-0.07	97-0-	07.01	0.40	-0.59	-0.52	-0.21	-0.23	-0.23	-0.28	-0.05	-0-09	-0.38	-0-36	0.15	0.48	0.49	0.42	0.11	_	TAN LO	S OCT	72 1	-1.63	-1.93	-2-12	-2.18	-2.38	-2.84	-2.94	-2.39	-2.24	-2.22	-2.22	-2-07	-2.06	-2.22	-2.28	-2.04	-1.97	-1.83	-1.67	-1.47	-1.34
	Œ	5.E	1.47	1.47	1.50	1.40	1.66	1.63	1.53	1.43	1.54		1.54			,	1.50	•		1.42	1.37	1.51				35	1.16	1.07	0.07	0.88	0.99	1.29	1.28	0.97	0.93	96 .0	96.0	0.87	0.85	06.0	1.07	1.05	1.18	1.30	1.24	1.23	1.24
	1	MEAN	1 4	, m	7.	-10	4 "					2.30	2.24	2.25	2.15	2.21	2.10	2.35	2.74	2.82	2002	2.57			1 :	NA DE	0.00	200	20.53	-0.74	-0.76	-0.73	-0.84	-0.79	-0.10	-0.65	-0.65	-0.64	-0.66	-0.75	-0.52	-0.32	-0.04	0.30	0.36	0.55	69.0
	⋖	SIZE,N	- 1	7	- 1	- 1		- 1	- 1	- 1	7	-		7	- 1	- 1	- 1			- 1		-		:	SAMPLE	71	- 1	- 1	- 1	1	_	7	7	7	7	7								7			
	TIME	<b>⊢</b> 0			•	0	•	•	•	50		0	2 -	10	200		000	000		• 0		1.00			INE	- 0	2 -		200	B 0.40	0.5	0.6	0.7	0.8	6.	0				0	0	0	0	R 0.70	0	0	1.00

	OVED	YOU C	2.58	5.00	6.83	2.05	5.17	7.13	8.46	9.33	9.65	7.10	0.0	1.04	2.97	5.74	61.6	2.60	5.14	7.10	8.21	8.93	9.36		OVED	CUM	0.0	0.37	0.46	99.0	0.91	1.30	1.61	1.87	1.94	2.06	81.7	0.0	0.15	0.32	0.43	64.0	0.59	0.71	1.78	1.96	2.96	3.10
	ANCE M					-	1	7	-	-	-	4	0.					-	7	-	-	-	-		ANCE	CR	0	37	60	18	27	39	31	26	10	21.	71	0	15	.18	11	90	10	12	10	18	00	14
	DISTA	Z c		2.	4.	2.	3.	1.	-	0	• •	•	0	-	1.	2.	3	3	2.	1.	1:	0	0		DISTA	-	0	0	0	0	0	0	0	0	0	•		0	0	0	0	0	0	0	1.	0	1.	0
	(	95 PCT	9.41	11.68	19.46	19.24	21.67	22.10	22.66	22.64	22.85	66.77	22.99	2.0	1.4	4.0	8.3	5.5	1.1	9	6.72	S	8		(	95 PCT	4.59	4.73	4.88	4.89	5.81	7.38	5.69	4.77	60.5	4.15	4.40	4.90	4.88	4.77	4-71	4.73	4.66	4.66	86.9	7.12	4.70	4.59
	-ORDINATE-	5 PCT	3.66	5.94	7.21	11.90	15.69	18.79	20.30	21.46	24.12	04.17	21.40	20.59	17.77	13.45	8.65	4.94	3.64	3.36	3.37	3.42	3.54				3.20	3.01	2.80	2.87	2.46	1.62	2.71	3.15	3.10	3.13	3.15	3.15	3.10	3.03	3.02	3.01	3.10	3.07	-1.33	-1.34	3.07	3.20
	- CO-OR	SE	1.75	1.75	3.74	2.24	1.82	1.01	0.72	0.36	0.40	•	0.48	0.45	1.11	2.13	5.96	3.15	2.49	1.61	1.02	0.65	0.41		- 60-03	SE	0.42	0.52	0.63	0.62	1.02	1.76	0.91	64.0	64.0	0.40	0.03	0.53	0.54	0.53	0.52	0.53	0.48	64.0	2.53	2.58	0.50	0.42
	7)	MEAN	6.53	8.81	13.33	15.57	18.68	20.45	21.48	22.35	27.10	67.77	22.19	21.32	19.59	16.94	13.50	10.10	7.72	6.30	5.35	64.4	4.21		7)	MEAN	3.89	3.87	3.84	3.88	4-14	4.50	4.20	3.96	3.40	3.94	4.00	0	0	3.90	m	m	00	00	m	00	20	m
161		95 PCT	) ~	N	2	3	4	3	3	3	2 4	7	3	13.	14.	14.	4.	. 4	3.	2.	-12.97	3	3	181	(	2	9	9	5	5		6.		9		-6.12		9	5.	-5.93	9	-6.08	.9	9	-6.09	-5.90	-6.22	-6.03
-	NA	5 PCT	9	8	0	0	8	-	9	2	0, 4	•	-15.50	15	17	18	18	18	18	17	-16.36	15	15	J	DINATE	2	-9.38	-9.37	-9.51	-9.65	-9.61	-9.43	-9.34	-9.22	67.6-	9.39	00.61	-9.65	-9.75	14.6-	91.6-	-9.20	-8.99	-9.26	-9.58	-9.54	-9.29	-9.38
P CENTER	- CO-OR	5 E	55	1.56	040	96	.36	.21	. 91	49.	62.	10.	0.61	19.0	0.83	1.01	1.06	1.31	1.53	1.45	1.03	0.65	0.65	TROCHANTER	- C0-0R		1.00	1.03	1.14	1.18	1.12	66.0	66.0	0.95	0.43	1.00	11.7	1.11	1.18	1.06	0.95	0.95	0.19	0.89	1.06	1.11	0.94	1.00
- RT GRI	λ)	MEAN -14.15	- 4	-15.47	9	9	9	2	2	4.	\$ 3	0000	-14.50	-14.88	-15.66	-16.40	-16.67	-16.41	-15.73	-14.99	-14.66	-14.42	-14.15	- RT TRO	١)	MEAN	-7.73	-7.68	-7.64	-7.70	-7.78	-7.79	-7.72	-7.66	00.1	1.10	500-11	-7.83	-7.82	-7.67	-7.59	-7.64	-7.69	-7.80	-7.84	-7.72	-7.76	-7.73
ANDMARK	1	95 PCT	3 6	4	3.	3	3	m	m'	m	n n	•	13.45	13.49	13.93	14.24	14.14	14.04	14.35	15.18	15.45	15.46	15.22	ANDMARK	()	95 PCT	6.50	5.50	5.45	6.01	6.19	6.15	6.25	6.23	0 40	11.9	0.00	6.95	6.55	6.19	6.00	6.16	6.43	6.49	6.33	94.9	6.53	6.50
-	DINA	5 PCT		0	8.81	8.91	8.24	6	o ·	÷.	11.6/1	4	11.55	10.66	9.52	8.58	8.74	9.20	6	0	10.99	-	5	_	DINATE	2										2.06		1.80	1.91	2.19	2.24	2.15	1.72	1.76	2.37	5.49	2.17	2.47
		SE	0.65	1.13	1.53	1.31	1.60	1.35	0.92	0.55	2 4 4		0.58	0.86	1.35	1.73	1.64	1.48	1.35	1.48	1.36	1.14	0.88		- C0-0R	SE	1.23	0.84	0.86	1.10	1.18	1.07	1.11	1.15	4.65	1.43	10.7	1.57	1.41	1.22	1.15	1.22	1.44	1.44	1.21	1.21	1.33	1.23
	1	MEAN	2.9	.3	1.3	1.0	0.8	1.3	1.8	2.5	2.5	•	12.50	2	-	-	_	-	2	2	m	3	3		X)	AN	4.48	4.12	40.4	4.21	4.26	4.39	4.43	4.35	4.30	74.4	4.5	.3	.2	4-19	7.	-	0	7.	.3	4.	.3	4.
	SAMPLE	-		1	7	7	7	1	7	-1	- 1	-	7	-	7	7	7	7	7	7	7	2	7		A	SIZEON		7	7	7	. 1	7	7	_	-	~ •		7	7	7	1	7	7	7	7	7	7	7
	TIME	<b>⊢</b> C		0	0.3	4.	0.5	9.0	0.7	0 0		•	0	-	0.5	0.3	4.	0.5	0.6	0.7	o	6.	0		TIME				0	o	o	o	o		0	06.0		0	7	0.20	0.3	4	0.5	0.6	0.7	0.9	6.	3

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  | 0.67  | 0.78   
   | 0.86   |  | CHAC   | 200  | 0.0   
   | 94.0   | 0.88   | 1.24  | 1.55   | 2001   
  | 2.32  | 2.41   | 2.50   | 2.58  | 0.0  
   | 0.24  | 0.55   | 0.83   | 1.02   | 1.20   
  | 1.46   | 1 22   | 77.7   | 2.42  |
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   | 0.08   |  | ICT  |  | 0.0   
   | 94.0   | 0.42   | 0.36  | 0.31   | 24.0   
  | 0.18  | 0.08   | 60.0   | 0.08  | 0.0  
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  | 12.63   | 12.64  
   | 12.76  |  |  | PCT  | 21.02   
   | 21.04  | 21.17  | 21.38   | 21 63  | 21.81  
  | 21.77   | 21.81  | 21.90  | 21.94   | -  
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| S PCT         | 10. 60   | 10.71  | 10.62  | 10.62   | 10.64   | 10.73   | 10.60  | 10.49  | 10.71  | 10.88  | 00   | 10.68  
   
   
   
   
   
   | 10.40  | 10.42  
   
   
   
   
   
  | 10.43  | 10.42   | 10.51   
   
   
   
   
   
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  | 10.71   | 10.69  
   | 10.70  |  |  | 5 P  | 18.19   
   | 18.77  | 18.88  | 18.82   | 19.00  | 19.92  
  | 20.28   | 20.34  | 20.40  | 20.49   | 20.49  
   | 20.38   | 20.04  | 19.68  | 79.61  | 14.40  
  | 18.88  | 18.53  | 60.07  | 18 20   |
| SE            | 0.03   | 0.58   | 0.57   | 0.60  | 19.0  | 0.62  | 0.68   | 0-70   | 00.00  | 0.54   | 74 0   | 0.65   
   
   
   
   
   
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  | 0.59  | 0.59   
   | 0.63   |  | 1  | SE   | 0.86  
   | 69.0   | 0.10   | 0.78  | 28.0   | 0.58   
  | 0.45  | 0.45   | 0.46   | 0.44  | 0.44   
   | 0.42  | 0.44   | 0.49   | 0.4  | 10.0   
  | 0.66   | 0.78   | 0 0  | 40  |
| MEAN          | 11.70  | 11.66  | 11.56  | 11.61   | 11.75   | 11.75   | 11.72  | 11.64  | 11.69  | 11.77  | 11 77  | 11.74  
   
   
   
   
   
   | 11.70  | 11.63  
   
   
   
   
   
  | 11.52  | 11.64   | 11.65   
   
   
   
   
   
  | 11.66  
   
   
   
   
  | 11.67   | 11.66  
   | 11.73  |  | ()   | MEAN   | 19.61   
   | 19.90  | 20.02  | 20.10   | 20.61  | 20.87  
  | 21.02   | 21.07  | 21.15  | 21.21   | 21.21  
   | 21.36   | 20.76  | 20.48  | 20.40  | \$7.07   
  | 19.97  | 10.80  | 73.00  | 7 0   |
| 0 0           | 9.6  | 3  | 3.   | 3.  | 3.  | 3.  | 3.   | 3  | 3  | 3.   | -3.60  | -3.61  
   
   
   
   
   
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  | -3.72  | -3.75   | -3.81   
   
   
   
   
   
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  | -3.88   | -3.96  
   | -3.62  | (22)   | (  | 95 PCT   | 09.9-   
   | -6.65  | -6.74  | -6.88   | 7.00   | -7.00  
  | -6.97   | -6.82  | -6.79  | -6.71   | -6.71  
   | 9   | 9  |  |  | 0 -  
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| 2000          | -9.22  | -9.32  | -9.31  | -9.25   | -9.23   | -9.15   | -9.11  | -9.18  | -9-17  | -9.12  | -9-12  | -9.25  
   
   
   
   
   
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  | -8.94  | -8.83   | -8.76   
   
   
   
   
   
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  | -8.68   | -8.75  
   | -9.02  | NTER   | DINATE-  | 5 PCT  | -8.66   
   | -8.53  | -8.41  | 76.8-   | -8-62  | -8.44  
  | -8.37   | -8.61  | -8.73  | -8.85   | -8.85  
   | 8   | 8  |  | , a  | . 4  
  |  | . 8  | 0 0  | 74  |
| 35            | 1.73   | 1.79   | 1.73   | 1.67  | 1.76  | 1.66  | 1.63   | 1.69   | 1.68   | 1.66   | 1.66   | 1.72   
   
   
   
   
   
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  | 1.46  | 1.46   
   | 1.65   |  | - CO-OF  | SE   | 0.63  
   | 0.57   | 0.51   | 0.00  | 0.49   | 0.44   
  | 0.43  | 0.55   | 0.59   | 0.65  |  
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   | -7.59  | 7.57   | 7.00  | -7.81  | -7.72  
  | -7.67   | -7.71  | -7.76  | -1.18   | -7.78  
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11.56 0.57 10.62 12.50 0.23 18-07 20-81 -6-51 1.67 -9-25 -3-76 11.61 0.60 10.62 12.50 0.17 | 7 19-62 0.67 18-53 20-72 -6-32 1.65 -9-02 -3-62 11.73 0.63 10.70 12.76 0.00 17.19-59 0.50 18-76 20-41 -6-38 1.73 -9-22 -3-54 11.73 0.64 10.69 12.70 0.00 17.19-62 0.48 18-83 20-41 -6-39 1.79 -9-32 -3-54 11.70 0.61 10.69 12.70 0.00 17.19-43 0.43 18-07 20-79 -6-47 1.73 -9-31 -3-54 11.56 0.57 10.62 12.50 0.23 19-49 0.74 18-38 20-81 -6-54 1.67 -9-25 -3-76 11.54 0.50 10.62 12.50 0.23 17.19-61 0.49 18-81 20-41 -6-36 1.76 -9-23 -3-48 11.75 0.67 10.64 12.85 0.20 | 7 19.62 0.67 18.53 20.72 -6.32 1.65 -9.02 -3.62 11.73 0.63 10.70 12.76 0.00 17.95 0.50 18.76 20.41 -6.38 1.73 -9.22 -3.54 11.73 0.63 10.70 12.76 0.00 17.70 19.59 0.50 18.76 20.41 -6.38 1.73 -9.32 -3.54 11.70 0.61 10.69 12.70 0.08 18.83 20.41 -6.39 1.79 -9.32 -3.55 11.66 0.58 10.71 12.61 0.05 17.95 0.74 18.38 20.61 1.67 -9.31 -3.64 11.56 0.57 10.62 12.50 0.23 19.59 0.74 18.38 20.81 -6.51 1.67 -9.25 -3.76 11.61 0.60 10.62 12.80 0.17 19.71 0.67 18.62 20.80 -6.43 1.66 -9.15 -3.70 11.75 0.67 10.64 12.85 0.20 | 7 19-62 0.67 18-53 20-72 -6-32 1.65 -9-02 -3-62 11-73 0.63 10-70 12-76 0.00 17 19-62 0.657 18-53 20-72 -6-32 1.65 -9-02 -3-62 11-73 0.641 10-69 12-70 0.00 17 19-62 0.648 18-83 20-41 -6-39 1.79 -9-32 -3-54 11-76 0.61 10-69 12-70 0.00 17 19-63 0.83 18-07 20-79 -6-47 1.79 -9-32 -3-45 11-66 0.58 10-71 12-61 0.05 12-70 0.02 17 19-59 0.74 18-38 20-41 -6-51 1.67 -9-25 -3-76 11-64 0.60 10-62 12-60 0.17 19-61 0.69 18-81 20-41 -6-51 1.76 -9-25 -3-76 11-75 0.67 10-64 12-85 0.20 17 19-72 0.67 18-62 20-80 -6-44 1.63 -9-11 -3-77 11-72 0.68 12-70 0.12 4.64 1.63 -9-11 -3-77 11-72 0.68 12-87 0.12 4.64 1.63 -9-11 -3-77 11-72 0.68 12-87 0.50 12-87 | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.70         12.76         0.00           7         19.62         0.68         18.76         20.41         -6.39         1.73         -9.32         -3.64         11.66         0.58         10.71         12.61         0.05           7         19.62         0.74         18.73         -9.31         -3.64         11.56         0.57         10.62         12.50         0.05           7         19.63         0.74         18.76         -9.25         -3.76         11.56         0.57         10.62         12.50         0.023           7         19.61         0.69         18.81         20.41         -6.51         1.76         -9.25         -3.76         11.75         0.67         10.62         12.50         0.023           7         19.61         0.69         18.62         20.81         -6.51         1.66         -9.1 | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.63         10.70         12.76         0.00           7         19.62         0.64         18.33         20.41         -6.39         1.79         -9.32         -3.45         11.66         0.57         10.69         12.70         0.08           7         19.43         0.74         18.33         20.41         -6.39         1.79         -9.32         -3.45         11.66         0.57         10.62         12.50         0.023           7         19.43         0.74         18.75         -9.25         -3.76         11.54         0.60         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.36         1.76         -9.23         -3.48         11.75         0.67         10.62         12.50         0.21           7         19.71         0.67         18.66         20.80 | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.63         10.70         12.76         0.08           7         19.62         0.64         18.33         20.41         -6.39         1.73         -9.32         -3.64         11.66         0.58         10.71         12.61         0.08           7         19.43         0.74         18.33         20.41         -6.47         1.73         -9.25         -3.64         11.56         0.57         10.62         12.60         0.53           7         19.61         0.49         18.31         20.41         -6.51         1.76         -9.23         -3.46         11.75         0.67         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.36         1.76         -9.23         -3.46         11.75         0.67         10.62         12.50         0.23           7         19.71< | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           7         19.62         0.64         18.33         20.41         -6.39         1.79         -9.32         -3.64         11.56         0.58         10.71         12.61         0.05           7         19.63         0.74         18.33         20.41         -6.51         1.79         -9.25         -3.64         11.56         0.57         10.69         12.70         0.05           7         19.61         0.64         1.76         -9.25         -3.76         11.55         0.67         10.62         12.50         0.023           7         19.61         0.64         1.76         -9.23         -3.46         11.75         0.60         10.62         12.50         0.023           7         19.61         0.64         1.76         -9.23         -3.46         11.75         0.67 </td <td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.69         0.69         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.63         10.70         12.76         0.00           7         19.62         0.63         18.76         -9.32         -3.64         11.66         0.58         10.71         12.61         0.05           7         19.43         0.64         18.73         20.41         -6.51         1.76         -9.23         -3.76         11.56         0.57         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.51         1.67         -9.23         -3.76         11.75         0.67         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.54         1.66         -9.15         -3.70         11.75         0.67         10.67         12.86         0.07           7         19.62         20.80         -6.42         1.69&lt;</td> <td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.08           7         19.62         0.63         18.76         20.41         -6.39         1.79         -9.32         -3.45         11.76         0.61         10.69         12.70         0.08           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         10.69         12.70         0.05           7         19.69         0.74         18.38         20.41         -6.51         1.76         -9.25         -3.76         11.60         0.67         10.69         12.70         0.05           7         19.51         0.64         1.76         -9.23         -3.76         11.75         0.67         10.62         12.77         0.17           7         19.51         0.67         18.62         20.81         -6.44         1.65         -9.11<td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         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   10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.05           7         19.62         0.74         1.63         1.76         -9.23         -3.45         11.56         0.57         10.69         12.76         0.05           7         19.61         0.64         1.63         1.76         -9.23         -3.46         11.75         0.67         10.62         12.56         0.20           7         19.61         0.64         1.63         1.66         -9.15         -3.77         11.72         0.67         10.62         12.86         0.27</td><td>19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           19.62         0.64         18.38         20.41         -6.39         1.79         -9.32         -3.64         11.56         0.57         10.69         12.70         0.00           19.62         0.74         18.83         20.41         -6.51         1.79         -9.25         -3.64         11.56         0.57         10.69         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.62         0.67         18.62         20.81         -6.44         1.63         -9.</td><td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.08           7         19.69         0.69         18.76         20.41         -6.38         1.73         -9.22         -3.65         11.73         0.61         10.69         12.76         0.08           7         19.62         0.68         18.76         20.41         -6.39         1.79         -9.32         -3.45         11.66         0.51         12.76         0.08           7         19.62         0.68         18.83         20.81         -6.51         1.79         -9.25         -3.45         11.56         0.57         12.56         0.02           7         19.61         0.67         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.56         0.57         10.69         12.76         0.01           7         19.61         0.67         18.62         20.41         -6.51         1.76         -9.25         -3.76         11.75         0.62         12.76         0.02           7         19.62         0.67         18.63         20.41<!--</td--><td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.32         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.74         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.66         0.57         12.50         0.05           7         19.51         0.67         18.83         20.41         -6.43         1.66         -9.13         -3.76         11.75         0.67         10.62         12.70         0.01           7         19.51         0.67         18.62         20.81         -6.44         1.63         -9.11         -3.75         11.75         0.62<td>19.62         0.67         18.53         20.72         -6.32         1.55         -9.02         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.75         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.79         -9.32         -3.45         11.56         0.51         10.70         12.76         0.00           19.42         0.63         18.01         20.73         1.79         -9.32         -3.45         11.56         0.57         10.69         12.70         0.00           19.42         0.63         1.76         -9.23         -3.46         11.75         0.67         10.69         12.70         0.00           19.51         0.74         18.83         20.41         -6.36         1.76         -9.23         -3.49         11.75         0.67         10.69         12.70         0.00           19.51         0.67         18.85         20.81         -6.42         1.66         -9.11         11.75         0.62         10.77         12.7</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.70   0.61   10.69   12.76   0.08   19.59   0.50   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.42   0.83   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.43   0.83   18.07   20.74   -6.39   1.79   -9.31   -3.44   11.56   0.57   10.69   12.70   0.08   19.59   0.74   18.38   20.41   -6.51   1.67   -9.25   -3.76   11.56   0.57   10.62   12.50   0.22   19.51   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.55   0.67   10.62   12.50   0.17   19.61   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.75   0.67   10.64   12.85   0.20   12.77   19.72   0.67   18.62   20.81   -6.42   1.63   -9.11   -3.77   11.75   0.64   10.73   12.77   0.04   19.75   0.67   18.65   20.81   -6.42   1.63   -9.18   -3.65   11.64   0.70   10.49   12.79   0.01   19.60   0.57   18.65   20.87   -6.42   1.66   -9.17   -3.67   11.69   0.60   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.67   12.65   0.00   10.71   12.65   0.00   0.00   0.00   0.00   0.00</td><td>  19.62   0.67   18.53   20.72   0.33   1.75   9.22   3.62   11.73   0.61   10.69   12.70   0.08   19.59   0.50   18.75   20.41   -6.38   1.73   -9.22   3.54   11.76   0.61   10.69   12.70   0.08   19.42   0.63   10.71   12.61   0.00   12.70   0.00   10.62   12.70   0.00   10.42   10.63   10.71   12.61   0.00   10.62   12.60   0.23   10.74   10.59   1.79   -9.32   -3.45   11.66   0.58   10.71   12.61   0.00   10.23   10.59   0.74   18.38   20.81   -6.51   1.67   -9.25   -3.46   11.75   0.60   10.62   12.60   0.17   19.61   0.67   18.62   20.81   -6.42   1.66   -9.13   -3.46   11.75   0.62   10.64   12.85   0.22   10.74   0.14   19.72   0.67   18.62   20.81   -6.42   1.69   -9.18   -3.65   11.77   0.68   10.69   12.79   0.01   19.60   0.54   18.62   20.87   -6.42   1.68   -9.18   -3.65   11.77   0.54   10.88   12.66   0.00   10.71   12.65   0.00   12.64</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.62   11.70   0.61   10.69   12.70   0.08   19.59   0.65   18.53   0.64   1.65   0.64   11.66   0.58   10.71   12.61   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08  
12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   0.00</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.64   11.78   0.63   10.70   12.76   0.00   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.63   0.70   0.63   0.70   19.50   0.63   0.70   0.70   0</td><td>  19:52   0:67   18:53   20:72   1.65   9:02   7:02   1.75</td><td>  19.62   0.67   18.53   20.72   1.65   9.02   3.55   1.75   0.64   10.70   3.5   0.70   1.70   3.5   1.70   3.65   1.70   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   3.65   3.70   3.65</td><td>  19.62   0.67   18.53   20.72   -6.38   1.55   -9.02   -3.54   11.73   0.63   10.70   19.76   0.00     19.59   0.64   18.53   20.41   -6.38   1.73   -9.22   -3.54   11.70   0.64   10.70   10.70     19.59   0.68   18.67   20.41   -6.38   1.73   -9.32   -3.45   11.70   0.64   10.70   10.70     19.59   0.68   18.63   20.41   -6.38   1.73   -9.31   -3.64   11.56   0.57   10.21   12.61   0.00     19.50   0.74   18.38   20.41   -6.36   1.73   -9.32   -3.46   11.56   0.57   10.21   12.60   0.017     19.71   0.67   18.62   20.41   -6.36   1.76   -9.25   -3.46   11.75   0.62   10.64   12.85   0.017     19.64   0.54   18.62   20.81   -6.44   1.64   -9.15   -3.70   11.75   0.62   10.64   12.85   0.017     19.65   0.67   18.62   20.81   -6.41   1.66   -9.12   -3.69   11.77   0.64   10.81   12.86   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.88   0.107     19.65   0.60   18.25   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.65   18.70   20.49   -6.43   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.43   1.65   -9.66   -3.81   11.65   0.69   10.67   12.83   0.11     19.60   0.60   18.75   20.43   -6.42   1.66   -3.81   11.65   0.69   10.67   12.81   0.107     19.60   0.60   18.75   20.43   -6.25   1.64   -9.25   -3.61   10.60   0.60   10.67   10.60   10.60   10.60   10.60</td><td>  19-62   0.67   18-53   20.77   0.632   1.65   9.02   3.65   11.70   0.61   10.70   9.70   10.70   10.70   10.70  
10.70   10</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.73   0.63   10.70   9.54   10.00  </td><td>  19.62   0.67   18.73   20.72   -6.32   1.65   -9.02   -9.04   1.75   1.75   0.64   10.69   12.76   10.08   19.43   0.69   18.73   20.41   -6.38   1.73   -9.32   -9.54   11.75   0.64   10.69   12.70   0.08   19.43   0.69   18.73   20.41   -6.39   1.73   -9.32   -9.54   11.65   0.55   10.71   10.69   12.70   0.08   19.43   0.64   18.33   20.41   -6.51   1.74   -9.22   -9.44   11.55   0.65   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20</td><td>  19-56   0.67   18-53   26.72   -6-32   1-65   -9-02   -7-02   11-73   0.64   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.07   10-70   0.07  </td><td>  19-56   0.67   18-53   26.77   -6.28   1.65   -9.02   5.62   11.73   0.68   10.70   12.76   0.08   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.74   0.68   10.71   12.60   0.08   10.71   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   0.01   12.70   0.01   0.01   12.70   0.01 
 0.01  </td><td>  1992   0.07   1893   20072   -0.23   1.55   -9.02   -9.02   -9.02   11.70   0.04   10.05   12.70   0.08   19.92   0.05   18.93   20071   -0.38   1.73   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   20077   20.94   1.73   -9.22   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   0.077   20.74   18.98   0.077   20.75   10.05   10.05   10.05   12.70   0.05   19.95   0.04   18.93   0.01   -0.51   1.05   -9.15   -9.45   11.75   0.05   10.05   12.70   0.02   0.17   19.55   0.05   10.05   10.05   12.70   0.01   0.02  </td><td>  19-92   19-9</td><td>  19-22   0.67   18-32   20-47   0.52   1-55   0.67   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55  </td><td>  19-02   0.67   16-53   20-77   0.02   1.55   0.01   1.75   0.02   1.75   1.75   0.02   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05</td><td>  19-52   0.57   18-75   20-72   -0.33   1.55   -9.01   -9.75   11-75   0.51   10-70   12-70   0.00   10-70  
10-70   10-70  </td><td>  1952   0.67   1873   2072   -4.33   1.55   -9.02   -2.54   11.73   0.55   10.70   12.76   0.00   19.75   19.95   19.</td><td>  19-62   0.50   18-73   0.44   -0.32   1.55   -9.22   1.75   1.7</td><td>7 19-56 0.05 18-75 0.042 1.05 0.05 18-75 0.042 1.05 0.05 18-75 0.0</td><td>  19-65   0.67   18-75   2.677   2.632   1.65   -9.01   1.75   0.61   10.75  </td><td>  19-62   0.67   18-75   20.77   -0.38   1.65   -0.01   -0.05   11.77   0.68   10.77   10.78
  10.78  </td><td>  19-65   0.67   18-75   20.77   20.72</td><td>  19.52   0.67   18.75   20.47   1.75   -9.12   -9.15   -9.15   11.75   0.65   10.70   12.75   0.00   1.75   1.75   1.75   1.75   0.05   10.70   12.75   0.00   1.75   1.75   1.75   0.05   10.75   12.75   0.00   1.75   1.75   0.05   0.05   0</td><td>  19.92   0.67   18.92   20.47   18.92   1.05   -9.92   -9.45   11.10   0.65   10.70   12.70   0.08   19.70  </td></td></td></td> | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.69         0.69         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.63         10.70         12.76         0.00           7         19.62         0.63         18.76         -9.32         -3.64         11.66         0.58         10.71         12.61         0.05           7         19.43         0.64         18.73         20.41         -6.51         1.76         -9.23         -3.76         11.56         0.57         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.51         1.67         -9.23         -3.76         11.75         0.67         10.62         12.50         0.23           7         19.61         0.49         18.81         20.41         -6.54         1.66         -9.15         -3.70         11.75         0.67         10.67         12.86         0.07           7         19.62         20.80         -6.42         1.69< | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.08           7         19.62         0.63         18.76         20.41         -6.39         1.79         -9.32         -3.45         11.76         0.61         10.69         12.70         0.08           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         10.69         12.70         0.05           7         19.69         0.74         18.38         20.41         -6.51         1.76         -9.25         -3.76         11.60         0.67         10.69         12.70         0.05           7         19.51         0.64         1.76         -9.23         -3.76         11.75         0.67         10.62         12.77         0.17           7         19.51         0.67         18.62         20.81         -6.44         1.65         -9.11 <td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.05           7         19.62         0.74         1.63         1.76         -9.23         -3.45         11.56         0.57        
10.69         12.76         0.05           7         19.61         0.64         1.63         1.76         -9.23         -3.46         11.75         0.67         10.62         12.56         0.20           7         19.61         0.64         1.63         1.66         -9.15         -3.77         11.72         0.67         10.62         12.86         0.27</td> <td>19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           19.62         0.64         18.38         20.41         -6.39         1.79         -9.32         -3.64         11.56         0.57         10.69         12.70         0.00           19.62         0.74         18.83         20.41         -6.51         1.79         -9.25         -3.64         11.56         0.57         10.69         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.62         0.67         18.62         20.81         -6.44         1.63         -9.</td> <td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.08           7         19.69         0.69         18.76         20.41         -6.38         1.73         -9.22         -3.65         11.73         0.61         10.69         12.76         0.08           7         19.62         0.68         18.76         20.41         -6.39         1.79         -9.32         -3.45         11.66         0.51         12.76         0.08           7         19.62         0.68         18.83         20.81         -6.51         1.79         -9.25         -3.45         11.56         0.57         12.56         0.02           7         19.61         0.67         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.56         0.57         10.69         12.76         0.01           7         19.61         0.67         18.62         20.41         -6.51         1.76         -9.25         -3.76         11.75         0.62         12.76         0.02           7         19.62         0.67         18.63         20.41<!--</td--><td>7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.32         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.74         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.66         0.57         12.50         0.05           7         19.51         0.67         18.83         20.41         -6.43         1.66         -9.13         -3.76         11.75         0.67         10.62         12.70         0.01           7         19.51         0.67         18.62         20.81         -6.44         1.63         -9.11         -3.75         11.75         0.62<td>19.62         0.67         18.53         20.72         -6.32         1.55         -9.02         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.75         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.79         -9.32         -3.45         11.56         0.51         10.70         12.76         0.00           19.42         0.63         18.01         20.73         1.79         -9.32         -3.45         11.56         0.57         10.69         12.70         0.00           19.42         0.63         1.76         -9.23         -3.46         11.75         0.67         10.69         12.70         0.00           19.51         0.74         18.83         20.41         -6.36         1.76         -9.23         -3.49         11.75         0.67         10.69         12.70         0.00           19.51         0.67         18.85         20.81         -6.42         1.66         -9.11         11.75         0.62         10.77         12.7</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.70   0.61   10.69   12.76   0.08   19.59   0.50   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.42   0.83   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.43   0.83   18.07   20.74   -6.39   1.79   -9.31   -3.44   11.56   0.57   10.69   12.70   0.08   19.59   0.74   18.38   20.41   -6.51   1.67   -9.25   -3.76   11.56   0.57   10.62   12.50   0.22   19.51   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.55   0.67   10.62   12.50   0.17   19.61   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.75   0.67   10.64   12.85   0.20   12.77   19.72   0.67   18.62   20.81   -6.42   1.63   -9.11   -3.77   11.75   0.64   10.73   12.77   0.04   19.75   0.67   18.65   20.81   -6.42   1.63   -9.18   -3.65   11.64   0.70   10.49   12.79   0.01   19.60   0.57   18.65   20.87   -6.42   1.66   -9.17   -3.67   11.69   0.60   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.67   12.65   0.00   10.71   12.65   0.00   0.00   0.00   0.00   0.00</td><td>  19.62   0.67   18.53   20.72   0.33   1.75   9.22   3.62   11.73   0.61   10.69   12.70   0.08   19.59   0.50   18.75   20.41   -6.38   1.73   -9.22   3.54   11.76   0.61   10.69   12.70   0.08   19.42   0.63   10.71   12.61   0.00   12.70   0.00   10.62   12.70   0.00   10.42   10.63   10.71   12.61   0.00   10.62   12.60   0.23   10.74   10.59   1.79   -9.32   -3.45   11.66   0.58   10.71   12.61   0.00   10.23   10.59   0.74   18.38   20.81   -6.51   1.67   -9.25   -3.46   11.75   0.60   10.62   12.60   0.17   19.61   0.67   18.62   20.81   -6.42   1.66   -9.13   -3.46   11.75   0.62   10.64   12.85   0.22   10.74   0.14   19.72   0.67   18.62   20.81   -6.42   1.69   -9.18   -3.65   11.77   0.68   10.69   12.79   0.01   19.60   0.54   18.62   20.87   -6.42   1.68   -9.18   -3.65   11.77   0.54   10.88   12.66   0.00   10.71   12.65   0.00   12.64</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.62   11.70   0.61   10.69   12.70   0.08   19.59   0.65   18.53   0.64   1.65   0.64   11.66   0.58   10.71   12.61   0.08   12.70  
0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   0.00</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.64   11.78   0.63   10.70   12.76   0.00   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.63   0.70   0.63   0.70   19.50   0.63   0.70   0.70   0</td><td>  19:52   0:67   18:53   20:72   1.65   9:02   7:02   1.75</td><td>  19.62   0.67   18.53   20.72   1.65   9.02   3.55   1.75   0.64   10.70   3.5   0.70   1.70   3.5   1.70   3.65   1.70   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   3.65   3.70   3.65</td><td>  19.62   0.67   18.53   20.72   -6.38   1.55   -9.02   -3.54   11.73   0.63   10.70   19.76   0.00     19.59   0.64   18.53   20.41   -6.38   1.73   -9.22   -3.54   11.70   0.64   10.70   10.70     19.59   0.68   18.67   20.41   -6.38   1.73   -9.32   -3.45   11.70   0.64   10.70   10.70     19.59   0.68   18.63   20.41   -6.38   1.73   -9.31   -3.64   11.56   0.57   10.21   12.61   0.00     19.50   0.74   18.38   20.41   -6.36   1.73   -9.32   -3.46   11.56   0.57   10.21   12.60   0.017     19.71   0.67   18.62   20.41   -6.36   1.76   -9.25   -3.46   11.75   0.62   10.64   12.85   0.017     19.64   0.54   18.62   20.81   -6.44   1.64   -9.15   -3.70   11.75   0.62   10.64   12.85   0.017     19.65   0.67   18.62   20.81   -6.41   1.66   -9.12   -3.69   11.77   0.64   10.81   12.86   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.88   0.107     19.65   0.60   18.25   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.65   18.70   20.49   -6.43   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.43   1.65   -9.66   -3.81   11.65   0.69   10.67   12.83   0.11     19.60   0.60   18.75   20.43   -6.42   1.66   -3.81   11.65   0.69   10.67   12.81   0.107     19.60   0.60   18.75   20.43   -6.25   1.64   -9.25   -3.61   10.60   0.60   10.67   10.60   10.60   10.60   10.60</td><td>  19-62   0.67   18-53   20.77   0.632   1.65   9.02   3.65   11.70   0.61   10.70   9.70   10.70
  10.70   10</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.73   0.63   10.70   9.54   10.00  </td><td>  19.62   0.67   18.73   20.72   -6.32   1.65   -9.02   -9.04   1.75   1.75   0.64   10.69   12.76   10.08   19.43   0.69   18.73   20.41   -6.38   1.73   -9.32   -9.54   11.75   0.64   10.69   12.70   0.08   19.43   0.69   18.73   20.41   -6.39   1.73   -9.32   -9.54   11.65   0.55   10.71   10.69   12.70   0.08   19.43   0.64   18.33   20.41   -6.51   1.74   -9.22   -9.44   11.55   0.65   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20</td><td>  19-56   0.67   18-53   26.72   -6-32   1-65   -9-02   -7-02   11-73   0.64   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.07   10-70   0.07  </td><td>  19-56   0.67   18-53   26.77   -6.28   1.65   -9.02   5.62   11.73   0.68   10.70   12.76   0.08   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.74   0.68   10.71   12.60   0.08   10.71   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   0.01   12.70   0.01   0.01   12.70   0.01  </td><td>  1992   0.07   1893   20072   -0.23   1.55   -9.02   -9.02   -9.02   11.70   0.04   10.05   12.70   0.08   19.92   0.05   18.93   20071   -0.38   1.73   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   20077   20.94   1.73   -9.22   -9.22   -9.45   11.70   0.04   10.05  
12.70   0.08   19.95   0.04   18.93   0.077   20.74   18.98   0.077   20.75   10.05   10.05   10.05   12.70   0.05   19.95   0.04   18.93   0.01   -0.51   1.05   -9.15   -9.45   11.75   0.05   10.05   12.70   0.02   0.17   19.55   0.05   10.05   10.05   12.70   0.01   0.02  </td><td>  19-92   19-9</td><td>  19-22   0.67   18-32   20-47   0.52   1-55   0.67   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55  </td><td>  19-02   0.67   16-53   20-77   0.02   1.55   0.01   1.75   0.02   1.75   1.75   0.02   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05</td><td>  19-52   0.57   18-75   20-72   -0.33   1.55   -9.01   -9.75   11-75   0.51   10-70   12-70   0.00   10-70  </td><td>  1952   0.67   1873   2072
  -4.33   1.55   -9.02   -2.54   11.73   0.55   10.70   12.76   0.00   19.75   19.95   19.</td><td>  19-62   0.50   18-73   0.44   -0.32   1.55   -9.22   1.75   1.7</td><td>7 19-56 0.05 18-75 0.042 1.05 0.05 18-75 0.042 1.05 0.05 18-75 0.0</td><td>  19-65   0.67   18-75   2.677   2.632   1.65   -9.01   1.75   0.61   10.75  </td><td>  19-62   0.67   18-75   20.77   -0.38   1.65   -0.01   -0.05   11.77   0.68   10.77   10.78  
10.78   10.78  </td><td>  19-65   0.67   18-75   20.77   20.72</td><td>  19.52   0.67   18.75   20.47   1.75   -9.12   -9.15   -9.15   11.75   0.65   10.70   12.75   0.00   1.75   1.75   1.75   1.75   0.05   10.70   12.75   0.00   1.75   1.75   1.75   0.05   10.75   12.75   0.00   1.75   1.75   0.05   0.05   0</td><td>  19.92   0.67   18.92   20.47   18.92   1.05   -9.92   -9.45   11.10   0.65   10.70   12.70   0.08   19.70  </td></td></td> | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.09           7         19.62         0.64         1.73         -9.22         -3.64         11.75         0.61         10.69         12.76         0.05           7         19.62         0.74         1.63         1.76         -9.23         -3.45         11.56         0.57         10.69         12.76         0.05           7         19.61         0.64         1.63         1.76         -9.23         -3.46         11.75         0.67         10.62         12.56         0.20           7         19.61         0.64         1.63         1.66         -9.15         -3.77         11.72         0.67         10.62         12.86         0.27 | 19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.63         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           19.62         0.64         18.38         20.41         -6.39         1.79         -9.32         -3.64         11.56         0.57         10.69         12.70         0.00           19.62         0.74         18.83         20.41         -6.51         1.79         -9.25         -3.64         11.56         0.57         10.69         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.61         0.49         18.81         20.41         -6.51         1.76         -9.23         -3.76         11.75         0.67         10.60         12.70         0.05           19.62         0.67         18.62         20.81         -6.44         1.63         -9. | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.08           7         19.69         0.69         18.76         20.41         -6.38         1.73         -9.22         -3.65         11.73         0.61         10.69         12.76         0.08           7         19.62         0.68         18.76         20.41         -6.39         1.79         -9.32         -3.45         11.66         0.51         12.76         0.08           7         19.62         0.68         18.83         20.81         -6.51         1.79         -9.25         -3.45         11.56         0.57         12.56         0.02           7         19.61         0.67         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.56         0.57         10.69         12.76         0.01           7         19.61         0.67         18.62         20.41         -6.51         1.76         -9.25         -3.76         11.75         0.62         12.76         0.02           7         19.62         0.67         18.63         20.41 </td <td>7         19.62         0.67         18.53         20.72         -6.32         1.65        
-9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.32         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.74         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.66         0.57         12.50         0.05           7         19.51         0.67         18.83         20.41         -6.43         1.66         -9.13         -3.76         11.75         0.67         10.62         12.70         0.01           7         19.51         0.67         18.62         20.81         -6.44         1.63         -9.11         -3.75         11.75         0.62<td>19.62         0.67         18.53         20.72         -6.32         1.55         -9.02         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.75         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.79         -9.32         -3.45         11.56         0.51         10.70         12.76         0.00           19.42         0.63         18.01         20.73         1.79         -9.32         -3.45         11.56         0.57         10.69         12.70         0.00           19.42         0.63         1.76         -9.23         -3.46         11.75         0.67         10.69         12.70         0.00           19.51         0.74         18.83         20.41         -6.36         1.76         -9.23         -3.49         11.75         0.67         10.69         12.70         0.00           19.51         0.67         18.85         20.81         -6.42         1.66         -9.11         11.75         0.62         10.77         12.7</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.70   0.61   10.69   12.76   0.08   19.59   0.50   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.42   0.83   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.43   0.83   18.07   20.74   -6.39   1.79   -9.31   -3.44   11.56   0.57   10.69   12.70   0.08   19.59   0.74   18.38   20.41   -6.51   1.67   -9.25   -3.76   11.56   0.57   10.62   12.50   0.22   19.51   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.55   0.67   10.62   12.50   0.17   19.61   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.75   0.67   10.64   12.85   0.20   12.77   19.72   0.67   18.62   20.81   -6.42   1.63   -9.11   -3.77   11.75   0.64   10.73   12.77   0.04   19.75   0.67   18.65   20.81   -6.42   1.63   -9.18   -3.65   11.64   0.70   10.49   12.79   0.01   19.60   0.57   18.65   20.87   -6.42   1.66   -9.17   -3.67   11.69   0.60   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.67   12.65   0.00   10.71   12.65   0.00   0.00   0.00   0.00   0.00</td><td>  19.62   0.67   18.53   20.72   0.33   1.75   9.22   3.62   11.73   0.61   10.69   12.70   0.08   19.59   0.50   18.75   20.41   -6.38   1.73   -9.22   3.54   11.76   0.61   10.69   12.70   0.08   19.42   0.63   10.71   12.61   0.00   12.70   0.00   10.62   12.70   0.00   10.42   10.63   10.71   12.61   0.00   10.62   12.60   0.23   10.74   10.59   1.79   -9.32   -3.45   11.66   0.58   10.71   12.61   0.00   10.23   10.59   0.74   18.38   20.81   -6.51   1.67   -9.25   -3.46   11.75   0.60   10.62   12.60   0.17   19.61   0.67   18.62   20.81   -6.42   1.66   -9.13   -3.46   11.75   0.62   10.64   12.85   0.22   10.74   0.14   19.72   0.67   18.62   20.81   -6.42   1.69   -9.18   -3.65   11.77   0.68   10.69   12.79   0.01   19.60   0.54   18.62   20.87   -6.42   1.68   -9.18   -3.65   11.77   0.54   10.88   12.66   0.00   10.71   12.65   0.00   12.64</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.62   11.70   0.61   10.69   12.70   0.08   19.59   0.65   18.53   0.64   1.65   0.64   11.66   0.58   10.71   12.61   0.08   12.70   0.09   12.70   0.09   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   0.00</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.64   11.78   0.63   10.70   12.76   0.00   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.63   0.70   0.63   0.70   19.50   0.63   0.70   0.70  
0.70   0</td><td>  19:52   0:67   18:53   20:72   1.65   9:02   7:02   1.75</td><td>  19.62   0.67   18.53   20.72   1.65   9.02   3.55   1.75   0.64   10.70   3.5   0.70   1.70   3.5   1.70   3.65   1.70   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   3.65   3.70   3.65</td><td>  19.62   0.67   18.53   20.72   -6.38   1.55   -9.02   -3.54   11.73   0.63   10.70   19.76   0.00     19.59   0.64   18.53   20.41   -6.38   1.73   -9.22   -3.54   11.70   0.64   10.70   10.70     19.59   0.68   18.67   20.41   -6.38   1.73   -9.32   -3.45   11.70   0.64   10.70   10.70     19.59   0.68   18.63   20.41   -6.38   1.73   -9.31   -3.64   11.56   0.57   10.21   12.61   0.00     19.50   0.74   18.38   20.41   -6.36   1.73   -9.32   -3.46   11.56   0.57   10.21   12.60   0.017     19.71   0.67   18.62   20.41   -6.36   1.76   -9.25   -3.46   11.75   0.62   10.64   12.85   0.017     19.64   0.54   18.62   20.81   -6.44   1.64   -9.15   -3.70   11.75   0.62   10.64   12.85   0.017     19.65   0.67   18.62   20.81   -6.41   1.66   -9.12   -3.69   11.77   0.64   10.81   12.86   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.88   0.107     19.65   0.60   18.25   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.65   18.70   20.49   -6.43   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.43   1.65   -9.66   -3.81   11.65   0.69   10.67   12.83   0.11     19.60   0.60   18.75   20.43   -6.42   1.66   -3.81   11.65   0.69   10.67   12.81   0.107     19.60   0.60   18.75   20.43   -6.25   1.64   -9.25   -3.61   10.60   0.60   10.67   10.60   10.60   10.60   10.60</td><td>  19-62   0.67   18-53   20.77   0.632   1.65   9.02   3.65   11.70   0.61   10.70   9.70   10</td><td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.73   0.63   10.70   9.54   10.00  
10.00   10.00  </td><td>  19.62   0.67   18.73   20.72   -6.32   1.65   -9.02   -9.04   1.75   1.75   0.64   10.69   12.76   10.08   19.43   0.69   18.73   20.41   -6.38   1.73   -9.32   -9.54   11.75   0.64   10.69   12.70   0.08   19.43   0.69   18.73   20.41   -6.39   1.73   -9.32   -9.54   11.65   0.55   10.71   10.69   12.70   0.08   19.43   0.64   18.33   20.41   -6.51   1.74   -9.22   -9.44   11.55   0.65   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20</td><td>  19-56   0.67   18-53   26.72   -6-32   1-65   -9-02   -7-02   11-73   0.64   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.07   10-70   0.07  </td><td>  19-56   0.67   18-53   26.77   -6.28   1.65   -9.02   5.62   11.73   0.68   10.70   12.76   0.08   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.74   0.68   10.71   12.60   0.08   10.71   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   0.01   12.70   0.01   0.01   12.70   0.01  </td><td>  1992   0.07   1893   20072   -0.23   1.55   -9.02   -9.02   -9.02   11.70   0.04   10.05   12.70   0.08   19.92   0.05   18.93   20071   -0.38   1.73   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   20077   20.94   1.73   -9.22   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   0.077   20.74   18.98   0.077   20.75   10.05   10.05   10.05   12.70   0.05   19.95   0.04   18.93   0.01   -0.51   1.05   -9.15   -9.45   11.75   0.05   10.05   12.70   0.02   0.17   19.55   0.05   10.05   10.05   12.70   0.01   0.02  </td><td>  19-92  
19-92   19-9</td><td>  19-22   0.67   18-32   20-47   0.52   1-55   0.67   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55  </td><td>  19-02   0.67   16-53   20-77   0.02   1.55   0.01   1.75   0.02   1.75   1.75   0.02   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05</td><td>  19-52   0.57   18-75   20-72   -0.33   1.55   -9.01   -9.75   11-75   0.51   10-70   12-70   0.00   10-70  </td><td>  1952   0.67   1873   2072   -4.33   1.55   -9.02   -2.54   11.73   0.55   10.70   12.76   0.00   19.75   19.95   19.</td><td>  19-62   0.50   18-73   0.44   -0.32   1.55   -9.22   1.75  
1.75   1.7</td><td>7 19-56 0.05 18-75 0.042 1.05 0.05 18-75 0.042 1.05 0.05 18-75 0.0</td><td>  19-65   0.67   18-75   2.677   2.632   1.65   -9.01   1.75   0.61   10.75  </td><td>  19-62   0.67   18-75   20.77   -0.38   1.65   -0.01   -0.05   11.77   0.68   10.77   10.78  </td><td>  19-65   0.67   18-75   20.77   20.72</td><td>  19.52   0.67   18.75   20.47   1.75   -9.12   -9.15   -9.15   11.75   0.65   10.70   12.75   0.00   1.75   1.75   1.75   1.75   0.05   10.70   12.75   0.00   1.75   1.75   1.75   0.05   10.75   12.75   0.00   1.75   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05   1.75  
0.05   1.75   0.05   0</td><td>  19.92   0.67   18.92   20.47   18.92   1.05   -9.92   -9.45   11.10   0.65   10.70   12.70   0.08   19.70  </td></td> | 7         19.62         0.67         18.53         20.72         -6.32         1.65         -9.02         -3.62         11.73         0.61         10.69         12.76         0.00           7         19.59         0.50         18.76         20.41         -6.32         1.73         -9.22         -3.64         11.73         0.61         10.69         12.76         0.00           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.64         1.79         -9.32         -3.45         11.75         0.61         12.76         0.05           7         19.62         0.74         18.83         20.41         -6.51         1.76         -9.25         -3.76         11.66         0.57         12.50         0.05           7         19.51         0.67         18.83         20.41         -6.43         1.66         -9.13         -3.76         11.75         0.67         10.62         12.70         0.01           7         19.51         0.67         18.62         20.81         -6.44         1.63         -9.11         -3.75         11.75         0.62 <td>19.62         0.67         18.53         20.72         -6.32         1.55         -9.02         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.75         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.79         -9.32         -3.45         11.56         0.51         10.70         12.76         0.00           19.42         0.63         18.01         20.73         1.79         -9.32         -3.45         11.56         0.57         10.69         12.70         0.00           19.42         0.63         1.76         -9.23         -3.46         11.75         0.67         10.69         12.70         0.00           19.51         0.74         18.83         20.41         -6.36         1.76         -9.23         -3.49         11.75         0.67         10.69         12.70         0.00           19.51         0.67         18.85         20.81         -6.42         1.66         -9.11         11.75         0.62         10.77         12.7</td> <td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.70   0.61   10.69   12.76   0.08   19.59   0.50   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.42   0.83   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.43   0.83   18.07   20.74   -6.39   1.79   -9.31   -3.44   11.56   0.57   10.69   12.70   0.08   19.59   0.74   18.38   20.41   -6.51   1.67   -9.25   -3.76   11.56   0.57   10.62   12.50   0.22   19.51   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.55   0.67   10.62   12.50   0.17   19.61   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.75   0.67   10.64   12.85   0.20   12.77   19.72   0.67   18.62   20.81   -6.42   1.63   -9.11   -3.77   11.75   0.64   10.73   12.77   0.04   19.75   0.67   18.65   20.81   -6.42   1.63   -9.18   -3.65   11.64   0.70   10.49   12.79   0.01   19.60   0.57   18.65   20.87   -6.42   1.66   -9.17   -3.67   11.69   0.60   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.67   12.65   0.00   10.71   12.65   0.00   0.00   0.00   0.00   0.00</td> <td>  19.62   0.67   18.53   20.72   0.33   1.75   9.22   3.62   11.73   0.61   10.69   12.70   0.08   19.59   0.50   18.75   20.41   -6.38   1.73   -9.22   3.54   11.76   0.61   10.69   12.70   0.08   19.42   0.63   10.71   12.61   0.00   12.70   0.00   10.62   12.70   0.00   10.42   10.63   10.71   12.61   0.00   10.62   12.60   0.23   10.74   10.59   1.79   -9.32   -3.45   11.66   0.58   10.71   12.61   0.00   10.23   10.59   0.74   18.38   20.81   -6.51   1.67   -9.25   -3.46   11.75   0.60   10.62   12.60   0.17   19.61   0.67   18.62   20.81   -6.42   1.66   -9.13   -3.46   11.75   0.62   10.64   12.85   0.22   10.74   0.14   19.72   0.67   18.62   20.81   -6.42   1.69   -9.18   -3.65   11.77   0.68   10.69   12.79   0.01   19.60   0.54   18.62   20.87   -6.42   1.68   -9.18   -3.65   11.77   0.54   10.88   12.66   0.00   10.71   12.65   0.00   12.64  
0.00   12.64   0.00   12.64   0.00   12.64   0.00   12.64</td> <td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.62   11.70   0.61   10.69   12.70   0.08   19.59   0.65   18.53   0.64   1.65   0.64   11.66   0.58   10.71   12.61   0.08   12.70   0.09   12.70   0.09   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   0.00</td> <td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.64   11.78   0.63   10.70   12.76   0.00   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.63   0.70   0.63   0.70   19.50   0.63   0.70   0.70   0</td> <td>  19:52   0:67   18:53   20:72   1.65   9:02   7:02   1.75</td> <td>  19.62   0.67   18.53   20.72   1.65   9.02   3.55   1.75   0.64   10.70   3.5   0.70   1.70   3.5   1.70   3.65   1.70   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   3.65   3.70   3.65</td> <td>  19.62   0.67   18.53   20.72   -6.38   1.55   -9.02   -3.54   11.73   0.63   10.70   19.76   0.00     19.59   0.64   18.53   20.41   -6.38   1.73   -9.22   -3.54   11.70   0.64   10.70   10.70     19.59   0.68   18.67   20.41   -6.38   1.73   -9.32   -3.45   11.70   0.64   10.70   10.70     19.59   0.68   18.63   20.41   -6.38   1.73   -9.31   -3.64   11.56   0.57   10.21   12.61   0.00     19.50   0.74   18.38   20.41   -6.36   1.73   -9.32   -3.46   11.56   0.57   10.21   12.60   0.017     19.71   0.67   18.62   20.41   -6.36   1.76   -9.25   -3.46   11.75   0.62   10.64   12.85   0.017     19.64   0.54   18.62   20.81   -6.44   1.64   -9.15   -3.70   11.75   0.62   10.64   12.85   0.017     19.65   0.67   18.62   20.81   -6.41   1.66   -9.12   -3.69   11.77   0.64   10.81   12.86   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.88   0.107     19.65   0.60   18.25   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.65   18.70   20.49   -6.43   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54  
10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.43   1.65   -9.66   -3.81   11.65   0.69   10.67   12.83   0.11     19.60   0.60   18.75   20.43   -6.42   1.66   -3.81   11.65   0.69   10.67   12.81   0.107     19.60   0.60   18.75   20.43   -6.25   1.64   -9.25   -3.61   10.60   0.60   10.67   10.60   10.60   10.60   10.60</td> <td>  19-62   0.67   18-53   20.77   0.632   1.65   9.02   3.65   11.70   0.61   10.70   9.70   10</td> <td>  19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.73   0.63   10.70   9.54   10.00  </td> <td>  19.62   0.67   18.73   20.72   -6.32   1.65   -9.02   -9.04   1.75   1.75   0.64   10.69   12.76   10.08   19.43   0.69   18.73   20.41   -6.38   1.73   -9.32   -9.54   11.75   0.64   10.69   12.70   0.08   19.43   0.69   18.73   20.41   -6.39   1.73   -9.32   -9.54   11.65   0.55   10.71   10.69   12.70   0.08   19.43   0.64   18.33   20.41   -6.51   1.74   -9.22   -9.44   11.55   0.65   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20</td> <td>  19-56   0.67   18-53   26.72   -6-32   1-65   -9-02   -7-02   11-73   0.64   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.07   10-70   0.07  </td> <td>  19-56   0.67   18-53   26.77   -6.28   1.65   -9.02   5.62   11.73   0.68   10.70   12.76   0.08   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.74   0.68   10.71   12.60   0.08   10.71   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   0.01   12.70   0.01   0.01   12.70   0.01  
0.01   0.01  </td> <td>  1992   0.07   1893   20072   -0.23   1.55   -9.02   -9.02   -9.02   11.70   0.04   10.05   12.70   0.08   19.92   0.05   18.93   20071   -0.38   1.73   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   20077   20.94   1.73   -9.22   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   0.077   20.74   18.98   0.077   20.75   10.05   10.05   10.05   12.70   0.05   19.95   0.04   18.93   0.01   -0.51   1.05   -9.15   -9.45   11.75   0.05   10.05   12.70   0.02   0.17   19.55   0.05   10.05   10.05   12.70   0.01   0.02  </td> <td>  19-92   19-9</td> <td>  19-22   0.67   18-32   20-47   0.52   1-55   0.67   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55  </td> <td>  19-02   0.67   16-53   20-77   0.02   1.55   0.01   1.75   0.02   1.75   1.75   0.02   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05</td> <td>  19-52   0.57   18-75   20-72   -0.33   1.55   -9.01   -9.75   11-75   0.51   10-70   12-70   0.00   10-70  
10-70   10-70  </td> <td>  1952   0.67   1873   2072   -4.33   1.55   -9.02   -2.54   11.73   0.55   10.70   12.76   0.00   19.75   19.95   19.</td> <td>  19-62   0.50   18-73   0.44   -0.32   1.55   -9.22   1.75   1.7</td> <td>7 19-56 0.05 18-75 0.042 1.05 0.05 18-75 0.042 1.05 0.05 18-75 0.0</td> <td>  19-65   0.67   18-75   2.677   2.632   1.65   -9.01   1.75   0.61   10.75  </td> <td>  19-62   0.67   18-75   20.77   -0.38   1.65   -0.01   -0.05   11.77   0.68   10.77   10.78  
10.78   10.78  </td> <td>  19-65   0.67   18-75   20.77   20.72</td> <td>  19.52   0.67   18.75   20.47   1.75   -9.12   -9.15   -9.15   11.75   0.65   10.70   12.75   0.00   1.75   1.75   1.75   1.75   0.05   10.70   12.75   0.00   1.75   1.75   1.75   0.05   10.75   12.75   0.00   1.75   1.75   0.05   0.05   0</td> <td>  19.92   0.67   18.92   20.47   18.92   1.05   -9.92   -9.45   11.10   0.65   10.70   12.70   0.08   19.70  </td> | 19.62         0.67         18.53         20.72         -6.32         1.55         -9.02         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.75         20.41         -6.38         1.73         -9.22         -3.54         11.73         0.61         10.70         12.76         0.00           19.59         0.50         18.76         20.41         -6.38         1.79         -9.32         -3.45         11.56         0.51         10.70         12.76         0.00           19.42         0.63         18.01         20.73         1.79         -9.32         -3.45         11.56         0.57         10.69         12.70         0.00           19.42         0.63         1.76         -9.23         -3.46         11.75         0.67         10.69         12.70         0.00           19.51         0.74         18.83         20.41         -6.36         1.76         -9.23         -3.49         11.75         0.67         10.69         12.70         0.00           19.51         0.67         18.85         20.81         -6.42         1.66         -9.11         11.75         0.62         10.77         12.7 | 19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.70   0.61   10.69   12.76   0.08   19.59   0.50   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.42   0.83   18.75   20.41   -6.39   1.73   -9.32   -3.54   11.56   0.58   10.71   12.61   0.05   19.43   0.83   18.07   20.74   -6.39   1.79   -9.31   -3.44   11.56   0.57   10.69   12.70   0.08   19.59   0.74   18.38   20.41   -6.51   1.67   -9.25   -3.76   11.56   0.57   10.62   12.50   0.22   19.51   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.55   0.67   10.62   12.50   0.17   19.61   0.49   18.81   20.41   -6.36   1.76   -9.25   -3.76   11.75   0.67   10.64   12.85   0.20   12.77   19.72   0.67   18.62   20.81   -6.42   1.63   -9.11   -3.77   11.75   0.64   10.73   12.77   0.04   19.75   0.67   18.65   20.81   -6.42   1.63   -9.18   -3.65   11.64   0.70   10.49   12.79   0.01   19.60   0.57   18.65   20.87   -6.42   1.66   -9.17   -3.67   11.69   0.60   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   12.68   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.71   10.67   10.68   12.81   0.00   10.67   12.65 
 0.00   10.71   12.65   0.00   0.00   0.00   0.00   0.00 | 19.62   0.67   18.53   20.72   0.33   1.75   9.22   3.62   11.73   0.61   10.69   12.70   0.08   19.59   0.50   18.75   20.41   -6.38   1.73   -9.22   3.54   11.76   0.61   10.69   12.70   0.08   19.42   0.63   10.71   12.61   0.00   12.70   0.00   10.62   12.70   0.00   10.42   10.63   10.71   12.61   0.00   10.62   12.60   0.23   10.74   10.59   1.79   -9.32   -3.45   11.66   0.58   10.71   12.61   0.00   10.23   10.59   0.74   18.38   20.81   -6.51   1.67   -9.25   -3.46   11.75   0.60   10.62   12.60   0.17   19.61   0.67   18.62   20.81   -6.42   1.66   -9.13   -3.46   11.75   0.62   10.64   12.85   0.22   10.74   0.14   19.72   0.67   18.62   20.81   -6.42   1.69   -9.18   -3.65   11.77   0.68   10.69   12.79   0.01   19.60   0.54   18.62   20.87   -6.42   1.68   -9.18   -3.65   11.77   0.54   10.88   12.66   0.00   10.71   12.65   0.00   12.64 | 19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.62   11.70   0.61   10.69   12.70   0.08   19.59   0.65   18.53   0.64   1.65   0.64   11.66   0.58   10.71   12.61   0.08   12.70   0.09   12.70   0.09   12.70   0.08   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   12.70   0.09   0.00 | 19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.64   11.78   0.63   10.70   12.76   0.00   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.70   19.59   0.63   0.63   0.70   0.63   0.70   19.50   0.63   0.70   0.70   0 | 19:52   0:67   18:53   20:72   1.65   9:02   7:02   1.75 | 19.62   0.67   18.53   20.72   1.65   9.02   3.55   1.75   0.64   10.70   3.5   0.70   1.70   3.5   1.70   3.65   1.70   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   1.70   3.65   3.65   3.70   3.65 
 3.65   3.65 | 19.62   0.67   18.53   20.72   -6.38   1.55   -9.02   -3.54   11.73   0.63   10.70   19.76   0.00     19.59   0.64   18.53   20.41   -6.38   1.73   -9.22   -3.54   11.70   0.64   10.70   10.70     19.59   0.68   18.67   20.41   -6.38   1.73   -9.32   -3.45   11.70   0.64   10.70   10.70     19.59   0.68   18.63   20.41   -6.38   1.73   -9.31   -3.64   11.56   0.57   10.21   12.61   0.00     19.50   0.74   18.38   20.41   -6.36   1.73   -9.32   -3.46   11.56   0.57   10.21   12.60   0.017     19.71   0.67   18.62   20.41   -6.36   1.76   -9.25   -3.46   11.75   0.62   10.64   12.85   0.017     19.64   0.54   18.62   20.81   -6.44   1.64   -9.15   -3.70   11.75   0.62   10.64   12.85   0.017     19.65   0.67   18.62   20.81   -6.41   1.66   -9.12   -3.69   11.77   0.64   10.81   12.86   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.66   -9.12   -3.69   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.88   12.66   0.007     19.65   0.80   18.25   20.87   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.88   0.107     19.65   0.60   18.25   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.65   18.70   20.49   -6.43   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.41   1.65   -9.25   -3.61   11.77   0.54   10.42   12.81   0.007     19.65   0.60   18.75   20.43   -6.43   1.65   -9.66   -3.81   11.65   0.69   10.67   12.83   0.11     19.60   0.60   18.75   20.43   -6.42   1.66   -3.81   11.65   0.69   10.67   12.81   0.107     19.60   0.60   18.75   20.43   -6.25   1.64   -9.25   -3.61   10.60   0.60   10.67   10.60   10.60   10.60   10.60 | 19-62   0.67   18-53   20.77   0.632   1.65   9.02   3.65   11.70   0.61   10.70   9.70   10 | 19.62   0.67   18.53   20.72   -6.32   1.65   -9.02   -3.54   11.73   0.63   10.70   9.54   10.00 | 19.62   0.67   18.73   20.72   -6.32   1.65   -9.02   -9.04   1.75   1.75   0.64   10.69   12.76   10.08   19.43   0.69   18.73   20.41   -6.38   1.73   -9.32   -9.54   11.75   0.64   10.69   12.70   0.08   19.43   0.69   18.73   20.41   -6.39   1.73   -9.32   -9.54   11.65   0.55   10.71   10.69   12.70   0.08   19.43   0.64   18.33   20.41   -6.51   1.74   -9.22   -9.44   11.55   0.65   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.62   10.73   12.70   0.08   10.72   10.64   12.50   0.20   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.50   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   10.64   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.65   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   10.72   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20   12.64   0.20 | 19-56   0.67   18-53   26.72   -6-32   1-65   -9-02   -7-02   11-73   0.64   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.06   10-70   12-76   0.07   10-70   0.07  
10-70   0.07 | 19-56   0.67   18-53   26.77   -6.28   1.65   -9.02   5.62   11.73   0.68   10.70   12.76   0.08   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.73   0.68   11.74   0.68   10.71   12.60   0.08   10.71   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.08   10.72   12.60   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   12.70   0.01   0.01   12.70   0.01   0.01   12.70   0.01 | 1992   0.07   1893   20072   -0.23   1.55   -9.02   -9.02   -9.02   11.70   0.04   10.05   12.70   0.08   19.92   0.05   18.93   20071   -0.38   1.73   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   20077   20.94   1.73   -9.22   -9.22   -9.45   11.70   0.04   10.05   12.70   0.08   19.95   0.04   18.93   0.077   20.74   18.98   0.077   20.75   10.05   10.05   10.05   12.70   0.05   19.95   0.04   18.93   0.01   -0.51   1.05   -9.15   -9.45   11.75   0.05   10.05   12.70   0.02   0.17   19.55   0.05   10.05   10.05   12.70   0.01   0.02 | 19-92   19-9 | 19-22   0.67   18-32   20-47   0.52   1-55   0.67   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55   11-75   0.55 | 19-02   0.67   16-53   20-77   0.02   1.55   0.01   1.75   0.02   1.75   1.75   0.02   1.75   0.05   1.75   0.05   1.75   0.05   1.75   0.05  
0.05   0.05 | 19-52   0.57   18-75   20-72   -0.33   1.55   -9.01   -9.75   11-75   0.51   10-70   12-70   0.00   10-70 | 1952   0.67   1873   2072   -4.33   1.55   -9.02   -2.54   11.73   0.55   10.70   12.76   0.00   19.75   19.95   19. | 19-62   0.50   18-73   0.44   -0.32   1.55   -9.22   1.75   1.7 | 7 19-56 0.05 18-75 0.042 1.05 0.05 18-75 0.042 1.05 0.05 18-75 0.0 | 19-65   0.67   18-75   2.677   2.632   1.65   -9.01   1.75   0.61   10.75  
10.75   10.75 | 19-62   0.67   18-75   20.77   -0.38   1.65   -0.01   -0.05   11.77   0.68   10.77   10.78 | 19-65   0.67   18-75   20.77   20.72 | 19.52   0.67   18.75   20.47   1.75   -9.12   -9.15   -9.15   11.75   0.65   10.70   12.75   0.00   1.75   1.75   1.75   1.75   0.05   10.70   12.75   0.00   1.75   1.75   1.75   0.05   10.75   12.75   0.00   1.75   1.75   0.05   0.05   0 | 19.92   0.67   18.92   20.47   18.92   1.05   -9.92   -9.45   11.10   0.65   10.70   12.70   0.08   19.70 |

TOKMERO

 $\alpha = - \supset \alpha \times$ 

CNPERON

ZWLJKZ

CONFEROL

ZMFDKZ

CHEROL

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

## NOTE:

In the case of movement numbers 21260 and 22260 at 13° back angle, two sets of tables each for points 17 and 27 are provided. This is because these two points were obstructed in view from the camera at locations nearer to hatch release control and therefore a second series of pictures viewed from right hand side was taken. The data from the second series form the set of data marked with an asterick for the points 17 and 27. The user is advised to consult both the set of tables for these points only.

MOTICN NUMBER - 21260 BACK ANGLE - 13

AN STO DEV RANGE	0.15 0.40 TO 0.90 SECS.	0.15 0.50 TO 0.90 SECS.
MEAN	19.0	69.0
SUB-MOVEMENT	LEFT FWD	LEFT REV

				LANDMARK	- NASION			(1)			
SAMPLE	1 :	0-05 -	RDINATE-			10-00 -	RD INATE-	;	7)	- CO-OR	AMIC
7	6.07	1.29	3.55	95 PCT	MEAN	SES	5 PCT	95 PCT	Z	ш	5
7	3	1.15		40	<b>O</b> C	1.03	71.1-	2	0	0	-
7	6.	1,15		Ja	2	70.4	73.02		-4 .	0	8
7	8	1.10	3.03	0	7 10	0.63	14.61		+ 0		e e
_ 1	8	0.91		2	9	0.53	-5.22	2 .	2	-	n o
- 1	0.	96.0		2	0	1.04	-5.67	2 .	1 .4	40	
- 1	+	1.04	•	-	-	1.09	-5.95	2.	- ~	10	
- 1	5	0.96	•	0	C	1.22	-6.22	2.	1 ~		9 0
- 1	7,	1.13		-	.5	95.0	-6.04	2.	-	40	
- 1	7.	1.21		2		1.00	-6.36	3	-	1 00	. ~
	4	1.12		N	1.	1.28	-6.88	2.	30.36	1.30	28.23
7	4.40	1.12	5	6.24	-		-6- BB			,	
7	5.48	1.35	3.26	7.70	-1.88		-2.56		0 0		
_	5.99	1.28	6.	8.08	10		-1-69				
7	66.5	1.14	-	7.87	3		-1-67		7 . 6	-	
7	5.89	1.29	1.	8.01	0		-1-80	•	1		
7	5.92	1.23	6.	7.94	-		-1-01				
7	6.01	1.21	0	8.00	_		-2-11		7	9	
7	20.9	1.34	80	8.26	0		-2-08		1 -	0	
7	40.9	1.32	8	8.21	01		-1-93		1.0	0 0	
-	6.04	1.32	8	8.22			-1.74		4 -	00	
1	6.07	1.29	6	8.19	.0	1.09	-1.12	2.45	29.07	1.02	27.30
			_	ANDMARK	- CERVICAL	LE		2)			
SAMPLE	X)	0-0	RDINATE	(	A)	2					
71				u	MILA	)	HANT	1 1		- C0-0R	⋖
	-	9	-2.07		1 4	$\sim$		0	4	SE	α.
7	0	0	10.05	0	0 -				m	0	
-	0	1	-2 10	0	- 1			0	m	-	
7	-1-05	0 0	01.2	0.18	80.1-	0.75	-2.31	0.15	23.27	1.19	
7		0 0	14.40	40.00	0.				_	. 2	
_		0 0	76.36	0.00	- 0				m	-	
7			44.7	0.80	V				~	7.	
		0 0	14.04	78.0	m 1			0		0	
		) -	76.2	۲. ٧٤	0 1				^	0	
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7	1.0		-2.07	-0.01	-1,35	0.70	-2.50	001	23.57	1.00	21 , 65
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ADVED CUM 0.0 0.0 0.57 0.57 0.79 0.79 1.10 1.62 1.72

DISTANCE INCR | 1 NCR | 0.0 0.0 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10

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DISTANCE INCR 2.89 2.89 1.44 0.36 0.36 0.23 0.12 0.12 0.12 0.12

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	DISTANCE	4	0.0	0.18	0.24	71.0	0.00	21.0	25.0	20.0	0-11	0.14		0.0	0.47	0.33	0.17	0.34	0.17	0.13	0.12	0.25	0.10	0.17			Σ						0.00							3	2							. 6	
		_	23.92	24.07	23.96	23.80	23.62	24.08	24.27	24-30	24.34	24.61		24.61	24.61	24.36	24.10	24.11	24.11	24.18	24.04	23.55	23.96	23.92				95 PCI	24.03	11.47	27. 47	77.77	24.57	24.82	25.11	25.31	24.86	25.20	25.20	24.89	25.39	25.31	25.17	25.04	25.00	25.00	24.92	24.82	24.53
	AD INATE -	•	21.03	21.01	20.98	21.21	21.26	21.27	21.29	21.31	21.33	21.29		21.29	21.18	21.21	21.26	21.16	21.14	21.14	21.15	21.11	21.08	21.03			_	200	20 04	20.51	20.30	21.26	21.86	22.37	22.78	22.97	23.34	23.45	23.42	23.04	22.52	22.17	21.88	21.71	21.56	21.48	21.28	21.14	21.04
	- C0-08	SE	0.88	0.93	0.90	0.80	0.82	0.85	0.91	0.91	0.92	1.01		10.1	1.05	0.70	0.87	0.00	06.0	0.93	0.88	0.87	0.88	0.88			20103	107	000	1.12	1.30	0.97	0.83	0.75	0.71	0.71	0.46	0.54	0.54	0.56	0.88	96.0	1.00	1.02	1.05	1.07	1.11	1.12	1.07
	7)	MEAN	22.48	45.27	22.39	22.52	22.59	22.67	22.78	22.81	22.83	22.95		66.77	55.03	81.77	89.77	55.64	22.62	22.66	22.60	22.53	22.52	22.48		,	7	22 70	22.57	22.45	22.51	22.85	23.21	23.60	23.95	24.14	24.10	24.31	24.31	23.97	23.96	23.74	23.53	23.38	23.28	23.24	23.10	22.98	22.79
( 3)	()	95 PCT	0.68	0.53	0.28	0.25	0.28	0.16	-0.21	-0.29	-0.44	-0.63	67	000	000		0.53	0.12	0.24	0.45	0.41	0.46	0.58	0.63	5)		05 pr T	7.78	8.09	8.21	8.10	7.90	7.83	7.75	7.65	7.32	60.	46.0	6.94	7.02	7.25	7.07	96.9	7.22	7.46	7.70	7.82	7.82	7.78
	RD INATE	5 PCT	-2.01	67.7-	-2.02	-2.32	-2.62	-2.79	-2.99	-3.38	-3.41	-3.38	-3 30	13.06	200	20.00	10.00	91.7-	66.2-	99.7-	-2.43	60.2-	10.2-	10.2-	_	DINATE	SE S PCT	5.64	5.95	6.16	90.9	6.02	5.78	5.43	5.02	4.71	4.63	01.4	4.10	4.49	4.68	4.96	2.17	5.18	5.26	5.18	5.34	5.61	2.64
SUPRASTERNALE	10-00 - 1	SE	0.62	0.00	0.10	0.78	0.89	06.0	0.85	95.0	0.91	43.0										100			<b>ACROMION</b>	- 60-08	a v	0.65	0.65	0.63	0.62	0.57	0.62	0.71	0.80	0.80	0.00	00.0	0.86	0-77	0.79	0.64	0.55	0.62	0.67	0.77	0.76	19.0	0.65
- SUPRA	()	MEAN	10.01	10.0-	-0.87	-1.04	-1.17	-1.31	-1.60	-1.84	-1.92	-2.00	-2-00	-1-54	-1.29	-1.26	-1 23	1117	7.1	0.0	100	10.01	100	0.01	- LT ACR	λ)	MEAN	6.71	7.02	7.19	7.08	96.9	6.19	6.59	6.33	20.0	2000	7000	5.52	5.15	5.96	10.9	90.9	6.20	6.36	6.44	6.58	11.9	11.9
LANDMARK	(	95 PCT	4 . 40	4.82	4.96	4.97	5.11	5.05	4.70	5.20	5.36	5.53	5.53	5.01	5.24	5.11	403	000	00.7	11	7.07	08 7	4 00	• • •	ANDMARK	(	95 PCT	0.00	1.36	1.33	1.57	2.13	2.70	3.04	3.28	70.0	3.57		3.57	2.26	2.17	1.73	1.35	1.22	1.02	1.03	1.04	70-1	0.40
	RDINATE-	5 PCT	0.33	-0.02	-0.21	0.07	0.18	0.35	0.89	0.60	0.29	0.11	0.11	0.79	0.92	0.79	0-30	0000	0.33	800	-0-0-	000	25.0	76.0	_	DINATE	5 PCT	-1.83	-1.80	-1.96	-2.10	-1.63	-1.31	-1.03	80.0	10.36	-0.42		-0.42	-0.78	91.1-	67.1-	10.1-	-1.63	-1.13	-2.20	76.40	-1.03	60.1-
		3E	1 3 3 9	1.48	1.58	1.49	1.50	1.43	1.16	1.40	1.54	1.65	1.65	1.29	1.32	1.32	1 - 41	1.42	1-42	1 . 54	1.53	1-46	1.42			X - C0-0F	SE	0.83	96.0	1.00	1.12	1.15	1.22	47.1	1 21	1.20	1.22		1.22	26.0	10.0	76.0	0.0	0.8	***	0.0	1.00	0.00	•
	)	NE AN	2.60	2.40	2.38	2.52	2.64	2.50	2.80	2.90	2.83	79.7	2.82	2.90	3.08	2.95	2.62	2.55	2.65	2.60	2.46	2.49	2.65				MEAN	-0.46	-0.22	-0.31	-0.27	0.25	69.0	1.30	1 66	1.61	1.57		1.57			5	•			00			
	SA	2			7								7	7	7	7	7	7	7	7	7	_	7			SAMPLE	17	9	9	9	9	9	9 .	0 4	0 4	ν.	S		5	0 4	0 4	0 4	<b>3</b> 4	0 4	0 4	0 4	0	9 40	)
	TIME	0.0	0.10	0	0 0.30	0 0	0 0	0 0	0 0	0 0	06.0		0.0	0.10	0	O	0	0	09.00	0	0	0	1.00			TIME		9	0	0.5	0	4.0	00.00	0 0	0	0.9	0		0.0	•	2.0	0 4	00	0 0	000	0	0	0	

		MOVED	0.0	4.06	7.91	15.00	10.48	20.33	20.00	20.33	20.33	20.33		0.0	0.0	0.0	0.0	0.0	2.95	7.66	12.42	13.38	14.85	15.75			MOVED	NII.	0.0	90.0	0.12	0.25	0.33	0.42	0.48	0.52	0.54	99.0	0.75	0	0.0	61.0	0.23	0.35	4	2	0.55	000	0.00	0.0	0.81
	·	INCE	0	4.06	3.85	01.	3 8 4			0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	2.95	4.71	4.76	96.0	1.48	0.89			DISTANCE		0.0	90.0	90.0	0.13	0.08	60.0	90.0	0.04	0.03	0.15	60.0			61.0			000	100	40.0	2.0	0000	> u	0000
		5	13.48	8.1	4.7	3.6	2 5	0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0	9	N	0	~	16.12	4	3			3 (	PCT	64.4	40.4	<b>55.5</b>	4.47	4.36	14.4	4.52	4.40	4.04	10.4	4.00	4.45	45.4	4 4	4 41	14.4	64.4	4.47	4.42	4-41	4-44	107.7	rtot.
			12.24	13.70	17 57	20.91	22.51	0.0	0.0	0.0	0.0	0.0	0		0	0	0	01-17	11.34	15.49	11.36	13.73	12.73	12.24			DINATE	5 PCT	3.39	3.45	3.43	3.34	3.45	3.49	3.5	60.0	000	00.00	2.00								3.49				
	Z - CO-OR	SE	0.38	1.35	3.55	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0	•	•	0.0	0.0	2.10	1 2 5	1.25	70.7	0.13	0.58	0.38			R	SE	0.34	0.30	0.31	0.34	0.28	0.00	0.51	220	0.34		0	0.33	0.36	0.34	0.29	0.30	0.29	0.30	0.28	0.29	0.31	0.34	
	)	MEAN	12.86	18.53	23.40	22.18	22.54	0.0	0.0	0.0	0.0	0						20 - 12	17 54	+6.11	000-47	12.73	12.00	17.86			7)	MEAN	3.94	3.34	3.94	5.40	7000	0.0	10.4	4.00	4.05	0		4.10	3.98	3.92	3.94	3.97	3.94	3.92	3.96	3.94	3.93	3.94	
(11)	()	95 PCT	11.15	10.16	06.6	0.22	-4.63	0.0	0.0	0.0		0.0	0-0				200	41.4	0 9	16.34	10.04	1104	11 15	67.11	161			95 PCT	8 . 04	1.85	7.85	+ c	9 24	0 4	8 0 0	8 0 8	8.03	7.93		7.99	8.08	8.01	7.89	7.76	7.81	7.87	7.85	8.03	8.11	8.04	
~	RD INATE-	5 PCT	9.21	-0-61	-10.20	-2.01	-4.63	0.0	0.0	000	•	•	0.0	0.0			-2-48	0.86	3.07	3.00	20.8	20.00	0 0	17.6	_		DINAIE	5 PCT	7.14	28.0	16.0	5.00	5.38	5.52	5.62	5.54	5.40	5.30		5.30	5.48	5.61	5.60	5.70	5.59	5.48	5.54	2.60	5.70	5.74	
GRIP CENTER	Y - CO-ORD !!	SE	2.16	3.28	6.13	0.68	0.0	0.0	0.0				0.0	0.0	0.0	0.0	1.49	1.01	1.99	3.82	0.74	65.0	0.50		LT TROCHANTER	0	1 X X X X X X X X X X X X X X X X X X X	SE	2.0	20.00	60.00	0.75	0.88	0.81	0.73	0.78	0.80	0.82		0.82	0.79	0.73	0. 10	0.63	0.68	0.73	0.00	4.0	0.74	0.10	
- 11 (	)	MEAN	7.59	4.78	-0.15	06.0-	-4.63	0					0.0	0.0	0.0	0.0	-0.03	2.51	6.34	10.08	9.23	10.01	10-18		- LT TRC	,	MEAN	ALAN A	6.03		9 9 9	6.86	6.82	6.85	6.81	6.81	6.71	6.64		6.64	6.78	6.81	6.14	6.73	6.70	19.9	6.70	70.0	0.40	6.83	
LANDMARK	(	95 PCT	18.05	19.72	17.41	18.22	76.32				0.0		0.0	0.0	0.0	0.0	19.57	19.87	20.41	21.18	19.77	18.65	18.78		LANDMARK		05 PCT	מע	5.40	5.36	5,55	5.69	5.86	5.85	5.86	2.67	5.43	5.29		5.29	5.32	5.42	5.45	5.41	5.31	5.37	5.49	D. 00 F. 4.7	7.01	2.58	
			17.09										0.0	0.0	0.0	0.0	13.70	13.84	15.00	15.46	16.18	17.25	17.76		_	ADINATE	- 4	,				3.05								3.19	20.0	3.09	3.09	16.7	66.7	3.03	2.72	2 72	2.71	71.7	
	-X - CO-ORD	0.31	0.29	1.41	0.94	1.68			0.0	0.0	0.0		0.0	0.0	0.0	0.0	1.79	1.84	1.65	1.74	1.10	0.45	0.31			x - C0-0		0.87	0.78	0.72	0.77	0.81	0.91	0.93	0.92	0.85	0.71	0.64		40.0		0.1	2.00	0.0	2.00	100	60.00	0. 90	0.87	0	
	1 2	8 - 27	17.57	7.41	18.0	2.40	0.0	0	0	0	0		0.0			0	9	9		8	-		8				EAN					4.37										, ,		:-	•	, ,	4.19	! =	1 -	1	
	SAMPLE	4	2	9 6	9 6	0 -	0	0	0	0	0		0	0 (	0	0	7 1	- 1	- 1	-	9	2	S			AME	SIZE,N		7	7	1	7	- 1	-	- 1	- 1	- 1	-	1	- 1				- 1-		7	_	7	7		
	TIME	0.0	0			0.5	0.6	0.7	0.8	9	0		0.0	•	0.0	0	000		0 0	- 0	0.8	06.0	0			TIME	-	0	0.1	0.2	0.3	R 0.40	0.0	0 0		0 0	, 0	2				0	o	0	0	0	N 0.80	o			

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DVED	CUM	0.0	91.16	99.6		96.0	1.08	1.15	17.1	1.66	1.83	77.7	0.0	90.0	0.21	0.23	7.34	0.46	5.8	7.78	1.13	1.35	1.60			DVED	CUM	0.0	0.40	0.62	98.0	2.23	2.79	3.41	3.67	3.97	4.24	0.0	9.00	1.41	1.72	2.20	2.70	2.93	3.32	3.57	2 70
I	INCR	0.0	.16	.50	11.	•16	51.		11.	040	11.	.38		8	3	2	-	2	2		, 4		0.24			Y					0.35							0	.95	0.45	.32	.48	.50	.23	.39	.25	
ī	PCT	13.70	13.75	13.99	80-47	10.41	00.61	13.12	13.68	14.26	14.49	13.80	13.86	13.74	13.68	13.58	13.56	13.59	13.61	13.54	13.42	13.58	13.70			(	95 PCT	22.16	21.66	21.64	21.85	22.31	22.76	23.12	23.20	23.53	23.94	23.94	23.51	23.33	23.27	23.12	22.91	22.81	22.75	22.68	-
10	5 PCT	8.76	8.87	9.20	10.6	9.15	40.00	70.6	7.35	9.54	36.6	4.34	9.39	9.39	9.45	9.52	9.52	9.51	9.50	9.51	9.14	8.97	8.76				5 PCT	19.90	20.02	16.61	20.06	20.71	20.87	21.21	21.36	21.42	21.44	21.44	21.32	21.11	20.82	20.58	20.44	20.36	20.11	19.93	-
- CO-OR	SE	1.51	1.49	1.46	1.00	1 22	70.1	1.33	1.32	1044	1.52	1.30	1.36	1.33	1.29	1.24	1.23	1.24	1.25	1.23	1.30	1.41	1.51			- CO-OR	SE	69.0	0.50	0.51	0.54	64.0	0.58	0.58	0.56	0.64	0.76	0.76	0.67	0.68	0.75	0.77	0.75	0.75	0.81	0.84	1000
7)	MEAN	11.23	11.31	11.59	66-11	11.58	76.77	#C-11	76-11	11.90	12.30	70.11	11.62	11.56	11.56	11.55	11.54	11.55	11.55	11.53	11.28	11.28	11.23			7)	MEAN	21.33	20.84	20.80	20.96	21.51	21.81	22.16	22.28	22.47	22.69	22.69	22.41	22.22	22.04	21.85	21.67	21.59	21.43	21.30	
(	95 PCT	6.29	7.01	8 . 05	71.1	7 34	1004	1.32	0.0	01.7	17.7	11.1	7.17	7.19	7.15	7.31	7.28	7.28	7.24	7.17	6.54	6.31	6.29	231	J	(	95 PCT	8.36	8.08	8.01	7 . 86	7.99	7.87	7.92	7.18	6.95	7.05	7.05	6.79	6.95	7.24	7.32	7.52	7.76	7.93	8 . 05	
	5 PCT	5.10	4.55	4.33	*	90.0			00.0	68.4	4.00	7006	4.62	4.67	4.45	4.30	4.55	4.33	4.13	4.59	4.81	4.88	5.10	CENTER	ć	Z	5 PCT	6.47	6.05	5.69	5.72	5.07	4.61	4.05	4.43	4.20	3.83	3.83	4.91	4.98	5.03	5.42	5.78	5.96	6.01	5.86	
- CO-ORD	SE	0.36	0.75	1.13	16.0	100	100	1.5	10.0	0.00	0.10	0.0											0.36	CHOILI DER CE	2000	- CO-OR	SE	0.58	0.62	0.71	0.65	0.89	66 0	1.18	0.84	0.84	0.98			09.0							
١)	MEAN	5.70	5.78	6.19	67.0	97.0	67.0	0.10	000	56.00	7.00	0.69	5.89	5.93	5.80	5.80	5.91	5.81	5.68	5.88	5.67	5.59	5.70	OHO II	-	١)	MEAN	7.41	7.06	6.85	61.9	6.53	6.24	5.98	5.81	5.57	5.44	5.44	5.85	5.96	6.14	6.37	6.65	6.86	26.91	6.95	
(	95 PCT	21.31	21.25	21.89	21.00	21.58	21.43	21 57	21.57	20.00	20.95	50.83	20.89	20.95	21.10	21.30	21.04	21.00	21.02	20.59	20.31	20.91	21.31	ANDMARK		(	95 PCT	2.16	2.23	2.44	2.85	3.88	4.42	4.51	4.91	5.01	5.20	5.20	4.18	4.11	3.78	3.11	2.13	2.36	2.36	1.96	
10	5 PCT	19.51	19.80	19.16	10.50	19.58	1000	10.49	01.61	19.44	17.30	16.61	19.51	19.39	19.25	19.07	19.37	19.32	19.24	19.60	19.64	19.47	19.51	-	•	RDINATE	5 PCT	-0.55	-0.66	-0-17	-0.56	09.0	0.81	1.61	1.50	1.32	1.26	1.26	0.64	-0.07	-0.14	-0.21	0.02	-0.28	-0.95	-0.99	
1	S	0.55			•			•	•	•		74.0											0.55			0-00 -	S			•	1.04									1.27							
X)	AN	20.41	20.52	20.52	54.02	20.02	20.43	20.45	20.00	20.28	20.15	07.07	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	6.6	0.1	20.41			- 1	ш				1.15							3.23	2.41	2.02	1.82	1.45	1.08	1.04	0.73	0.48	
SAMPLE	71	4	4	s u	0 4	٥ ٧	0 4	0 4	0 -	0	0 4	0	9	9	9	9	9	9	9	9	4	4	4			SAMPLE	1 ZE	7	1	- 1	- 1	. ~	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
TIME		0	-	200				0 1		0			0	7.	.2	.3	4.	.5	9	1	00	6	1.00			TIME	-	0.0	0.10	0.20	0.30	0.50	09.0	0.70	0.80	0.00	1.00	0.0	7	0.20	6	4.	.5	9		8	

« w ⊢ ⊃ « z

TOKMANO

(25)	
CENTER	
ELBOW	
1	
LANDMARK	

CUK	.74	.11	.42	.27	10.	6.10	10.	000	17.	.51	0	+0.	.37	.86	.15	.14	.82	66.	.68	.01	5.23		VED	X	0	.27	740	.83	.85	.85	. 85	. 85	685	2.85	0	0	0.	0	0.	.41	.57	0.13	•02	.15	-17
<u>x</u>	)	m	N.	00 0	0 .	7 7	1.	1 -	1	15	0				7	7	-	-	-		-		1						-	-	7	-	٠,									-	-	7	7
DISTANCE INCR	1.74	1.37	2.31	2.86	7.7	07.7	70.1	0 0	0.00	0.31	0.0	0	.3	4.	.2	6.	0	7.	9.	3	0.22		DISTANC	-	0.0	N	-	3.36	0	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.0	3.41	3.15	3.56	0.89	1.14	1.02
95 PCT	16.12	15.96	16.64	18.44	18.02	71.01	10 71	10.61	71.07	20.14	20.14	19.91	19.75	19.83	18.31	17.06	16.84	16.44	16.02	15.83	15.73		(	95 PCT	13.49	16.74	19.00	20.01	20.92	0.0	0.0	0	0.0	000	0.0	0.0	0.0	0.0	23.71	20.95	18.91	16.99	15.86	14.53	13.49
S PCT	8.86	9.43	10.85	11.44	13.64	*****	70.07	15.65	44.07	15.56	15.56	15.38	14.19	12.42	10.88	11.85	11.17	11.11	11.20	11.04	10.78		DINA	5	12.07	12.29	14.21	17.52	18.99	0.0	0.0	0	0.0	00	0.0	0.0	0.0	0.0	7	5	5	13.27	3	2.	2.
- CO-ORC SE	2.21	1:99	1.76	2.14	0 to 1	1.30	71.7	17-7	T. + C	1.40	1.40	1.38	1.70	2.26	2.26	1.59	1.73	1.62	1.47	1.46	1.51		S											000	0.0	0.0	0.0	0.0	1.80	1.64	1.10	1.13	0.17	0.55	0.44
HEAN 13.25	0	2	4	+	200	ם ע	0 1	<b>n</b> o	0	0	17.85	17.55	16.97	16.13	14.60	14.45	14.33	13.78	13.61	13.43	13.25		7)	NAM	12.78	4.5	6.6	18.76	6.6	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.7	8.2	7.1	15.13	4.6	3.6	2.7
95 PCT	11.99	11.52	00.6	8.16	16.4	3.09	66.7	16.7	1	9.40	0.46	3.44	6.58	8.60	-	0	2	3	3	3	13.39	172	(	ď		-	6							000	0.0	0.0	0.0	0.0	2.43	5.07	æ	14.05	2	2	2
- CO-ORDINATE SE 5 PCT 0.69 11.14	9.72	8.10	7.24	4-17	4.40	40.7	0.60	77.0-	4C.0-	06.0-	-0.90	0.17	1.42	3.71	5.90	7.17	8.83	09.6	10.31	10.86	11.14	8	DINATE	S PCT	64.6	7.11	4.81	3.76	0.08	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.30	2.33	4.40	5.09	8.12	8.89	67.6
- CO-OR SE	0.69	1.04	0.54	1.22	01.0	-	200	0.00	14.0	0.41	0.41	1.00	1.57	1.49	1.62	96.0	1.10	1.11	1.00	0.84	69.0	ST CENTER	- CD-08	u	0.86	1.47	1.42	0.51	0.54	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.65	0.83	1.30	2.73	1.31	1.18	0.86
(Y MEAN 12.27	10.86	9.81	8.12	6.17	07-4	19.7	04.7	000	0.0	-0.22	-0.22	1.81	4.00	6.16	8.55	9.33	10.63	11.42	11.95	12.24	12.27	- LT WRI	()	MEAN	10.90	9.52	7.14	4.60	96.0	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	1.37	3.70	6.60	9.57	10.28	10.84	10.90
95 PCT	7.18	8.29	10.59	13.32	12.26	77.77	17.80	13.01	13.30	13.20	13.20	13.47	13,35	13.20	11.67	9.19	8.00	7.42	6.85	6.67	6.49	ANDMARK	(	05 PCT	15.60	15.30	15.49	17.81	15.25	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	14.38	15.31	15.65	15.27	15.15	15.17	15.60
DINATE 5 PCT 4.21	4.86	5.47	5.51	6.20	8.52	9.10	16.6	9.63	00.4	90.6	90.6	8.64	7.89	6.25	4.45	5.75	2.00	3.92	3.68	3.81	4.21	7	0		14.40	13.66	12.78	11.33	11.40	0.0	0.0	0.0	0.0	000	0.0	0-0	0-0	0.0	13.78	12.40	12.86	13.33	13.30	13.75	14.40
- CO-OR SE 0.69	0.71	0.86	1.55	2.17	1.14	01.1	1.08	1 22	4.33	1.26	1.26	1.47	1.67	2.12	2.20	1.05	0.91	1.07	16.0	0.87	69.0		1	2	1 00	10	8	1.98	-	0.0	0.0	0	0.0	000	0.0	0.0	0-0	0.0	-	8	8	0.59	2	4	~
MEAN 8.35	6.02	6.88	8.05	9.16	10.39	16-01	60-11	11.13	11.18	11.13	-	11.05	0	9.72	8.06	7.47	6.50	5.67	5.26	5.24	5.35		X)	MEAN	5	4	4.		3				•	000	0.0	0-0	0.0	0.0	4.0	3.8	4.2	14.30	4.2	4.4	5.0
SAMPLE SIZE,N	0 0	1	7	7	- 1	- 1	- 1	•	0	9	9	9	7	7	9	9	9	9	9	9	9		AMP	SIJE.N	777	4	4	4	8	0	0	0	0	00	0	0 0	00	0	2	5	4	4	4	4	4
TIME		0	0.3	4.	0.0	0 0	0	0.0		0	0	7	.2	0.3	4.	0.5	0.6	0.7	0.8	0.9	1.00		TIME	-	•	7	0.2	0.3	0.4	0.5	0.6	1.	0.8	1.00		-		0.3	0.4	0.5	9.0	R 0.70	0.8	6.	0

MCVED CUM 0.0 0.0 0.0 0.0 3.76 7.99 9.41 11.32 13.24 15.27 15.90	0.0 1.65 7.19 7.19 110.91 118.47 18.47	CUM CUM 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	
DISTANCE INCR 0.0 0.0 0.0 3.76 4.23 1.42 1.90 1.90 1.93 2.03 0.02 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00	DISTANCE INCR INCR 0.0 0.0 0.0 0.0 0.0 5.04 5.04 5.04 1.14 0.64	1.15 44.50 44.50 60.00 60.00 60.00
95 PCT 0.0 0.0 19.60 21.87 22.96 23.23 23.05 22.96 23.23 23.05 22.96 23.23 23.05 22.85 22.85 22.85 22.85 22.85 22.85	22.43 23.02 23.01 24.05 24.05 21.35 19.97 118.75 17.78	95 PCT 000 000 000 000 20.33 22.17 19.17 19.17 20.55 20.55 20.79	20.79 21.01 21.02 21.26 19.35 0.0 0.0 0.0
E S PCT O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.55 21.37 21.05 20.14 20.01 19.01 18.75 17.78 0.0	. CO-ORDINATE SE 5 PCT 0.0 0.0 0.0 0.0 0.0 0.0 0.11 19.97 0.59 20.23 0.0 19.17 0.35 19.39 0.31 20.02	20.19 20.31 19.91 18.83 16.73 19.35 0.0 0.0
- CD-Of SE 0.0 0.0 0.0 0.37 0.47 0.47 0.45 0.39	0.57 0.57 0.78 1.19 0.23 0.00 0.00	- CO-OF SE 0.0 0.0 0.0 0.0 0.0 0.35 0.35 0.35	0.000000000000000000000000000000000000
HEAN 0.0 0.0 0.0 19.50 20.86 21.96 22.19 22.07 22.07 22.08 22.07	21.99 22.33 22.33 22.10 20.71 19.49 18.75 17.78 0.0 0.0	HEAN 0.0 0.0 0.0 0.0 0.0 20.15 21.20 19.17 20.48	20.46 20.46 19.91 19.91 19.35 0.0
95 PCT 0.0 0.0 3.113 1.88 -3.08 -1.45 -4.56 -6.43 -9.84	-100.45 -9.01 -6.14 -2.28 -2.28 -2.26 6.86 6.86 1.40 1.40 0.0	95 PCT 000 000 000 000 000 000 000 000 000 0	-6.23 -6.23 7.72 7.72 0.19 0.00 0.00
SE PCT  SE PCT  O.0  O.0  O.0  O.0  O.0  O.0  O.0  O.	-12.28 -10.53 -8.75 -6.43 -1.78 -1.78 -1.40 0.00	CCO-CRD INATE	
- CO-OF SE 0.0 0.0 0.0 0.0 1.19 1.59 1.61 1.27 0.87	0.56 0.46 0.79 11.26 11.26 12.63 0.00 0.00	- LT WRIST CENTER	
HEAN MEAN 0.0 0.0 0.0 3.13 -0.08 -4.08 -5.39 -7.17 -7.17 -7.17 -7.17	-11.36 -9.77 -7.44 -1.12 -1.12 2.56 1.40 1.40 0.0		1.6.55 1.6.55 1.6.55 1.6.48 1.6.48 0.00 0.00
95 PCT 0.0 0.0 0.0 16.73 16.06 15.54 16.26	15.15 16.19 17.16 18.40 19.42 19.61 18.09 18.58 0.0	ANDHARK 95 PCT 000 000 000 000 14.64 13.67 13.67 13.69 13.69 12.97	12.90 12.56 15.06 16.14 14.47 14.79 0.0 0.0
- CO-ORDINATE SE	13.45 12.94 12.84 13.14 14.08 16.09 18.09 18.58 0.0	- CO-ORDINATE	11.42 11.92 11.78 11.77 13.34 14.79 0.0 0.0
SE S	0.00	- CO-Or SE CO-Or O	0.145 0.19 1.09 1.333 0.00 0.00 0.00
MEAN MEAN 0.00 18.36 16.55 15.25 15.25 14.58 14.58 14.26 14.30	14.30 15.00 15.00 17.17 17.14 17.63 18.09 18.09 0.0	MEAN 0.0 0.0 0.0 0.0 0.0 13.69 13.54 12.93 12.93 12.54	12.16 12.24 13.27 13.96 13.96 14.79 0.0
SAMPLE SIZE,N 0 0 1 1 2 2 2 4 7 7	\$W\$\$W\$HH000	SAMPLE SIZE,N 0 0 2 2 2 2 2 2	NN44NH00000
TIME 1 T T T T T T T T T T T T T T T T T T T	0.00 0.10 0.20 0.50 0.50 0.50 0.00 0.00 0.00 0.0	11 E E E E E E E E E E E E E E E E E E	0.0000000000000000000000000000000000000

TOXXXXO

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10 0 3 4 0 0

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS.

RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

## NOTE:

In the case of movement numbers 21260 and 22260 at 13° back angle, two sets of tables each for points 17 and 27 are provided. This is because these two points were obstructed in view from the camera at locations nearer to hatch release control and therefore a second series of pictures viewed from right hand side was taken. The data from the second series form the set of data marked with an asterick for the points 17 and 27. The user is advised to consult both the sets of tables for these points only.

MOTICN NUMBER - 22260 BACK ANGLE - 13

1500	SUB-MOVEMENT LEFT FWD	MEAN STD DEV RANGE	0.66 0.08 0.60 TO 0.80 SEC	
1 111				

0.10 0.10 0.20 0.30 0.50 0.50 0.60 0.70 0.90	4						4	-		
000000000000000000000000000000000000000	1 (	ם כ	2	1 0	EA	2		۵ ،	MEA	
084465430 08466666666666666666666666666666666666	17.0	1.34	3.52	7.03	-1-63		12.84	87.7	11.67	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. "	10	1 "	. ~	0			-		
4000 000 000 000 000 000 000	6.	0	2	1	3.3			: :	0.2	
000000000000000000000000000000000000000	6.	7	0	-	3.4			0.8	0.3	
60	8	. 3	1.	0	3.5			0.7	0.3	
.80	.8	. 3	.5	-	3.5			1.2	4.0	
.90	. 8	.2		8	3.6			1.2	0.5	
06.	1.	7.	. 8	2	3.7			1:1	0.5	
	1.		8	2	3.8			1.2	0.5	
00.	-	-	4.	0	3.9			1.4	4.0	
0.	.7	-	4.	0	3.9				7.0	
.10		0	1.	00	1.8				6.6	
.20	-	2	7.	-	3				4.6	
.30	6.	3	1.	-	0.0		2		9.1	
7 04.0	5.93	1.28	3.84	0	0.02				9.1	
.50	6.	7	0	9	0		2.		1.6	
09.	0	0	.3	8	0		2.		1.6	
.70	0	0	.5	9	7.		2.		3.2	
.80	7	9	.5	9	4.		1.		3.6	
06.		9	.6	9	.5		-		9.2	
000	.2	0	4.68	7.73	1.	16.0	-0.89	2.28	29.17	
			-	ANDMARK	- CERVICAL	CALE		( 2 )		
E SAMPL	X)	0-0	AAT		1	0-00	NAT	. !	1	1
SIZE	V	u	S DC	9	NAA	1 4	5 00	u	11	
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.10	1.1	2	3.1	6	1.3		-		3.4	
.20	1.0	+	3.3	.2	1.5	7	4		3.3	
.30	1.1	3	3.4	0	1.6	2	9		3.3	
04.	1.1	2	3.2	6	1.6	2	9		3.3	
.50	1.0	3	3.2	0	1.5	0	w		3.3	
09.	0.8	4	3.1	4	1.7	-	5		3.3	
. 10	9.0	3	2.9	. 2	1.9	7	0	0	3.3	
. 80	0.1	+	3.1	-	5.0	2.	0	0	3.3	
1.00	-0.62	1.56	-3.18	1.93	-2.22	1.26	-4.20	-0.09	23.46	
		· L								
0.	01		3.0		7.7		4		3.5	
01.	1.0	4	3.0	9.	2.0		7		3.4	
.20	0.0	\$ 1	3.2	9	2.0		0	0	3.4	
000	000		3.6	. 0	1.7		20	000	3.5	
0	0 0		200	0	200		0 0		0 . 0	
00.	0 -		000		n 0		74		3.5	
100	1 . 1	. 0	200	*	0.1		0		100	
200	7 . 1		200	0,0			0 0		0 . 0	
0.00	-1.31	00.00	18.7-	0.20	-1.12		76.1-	-0.32	23.63	
000		. 0	200		000		0 0		0 0	
000			6.7	7.			0	•	0.0	

MOVED CUM 00.47 00.91 00.91 00.91 11.63 11.63 00.02 00.03 00

95 PCT 255.29 24.94 24.94 24.94 24.94 24.86 24.86 25.01 25.0

0.00

22.12 21.95 21.95 21.66 21.68 21.80 21.81 22.03 22.05 21.92 21.92

0.888 0.944 0.950 0.950 0.957 1.033

DISTANCE INCR INCR 0.00 0.15 0.15 0.28 0.29 0.29 0.12

SE 00.92 00.92 11.11 11.12 11.22 11.22 11.23 11.24 11.25 11.25 11.25 11.25 11.00 10.00 10.

0.0 2.21 1.65 0.0 0.0 0.0 0.0 0.0 0.1 0.15 0.16

32.55 31.26 30.84 30.88 30.88 30.86 30.86 30.86

28.43 27.95 27.60 27.37 27.45 27.52 27.55 27.55 27.62 27.62

DISTANCE INCR 20.0 20.0 1.48 0.62 0.09 0.09 0.07 0.01 0.11

95 PCT 30.67 31.48 32.16 32.21 32.30 32.35 32.52 32.53

CO-ORDINATE— SE 5 PCT 00.99 28.24 10.17 28.35 11.18 28.35 11.20 28.45 11.20 28.45 11.20 28.45 11.21 28.65 11.21 28.65 11.21 28.65 11.21 28.65

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MOVED	CUM	0.0	0.19	0.56	0.98	1.97	2.53	3.00	3.44	3.79	3.99	4.16	0.0	0.40	0.83	1.21	1.62	1.90	2.10	2.32	2.53	3.00	3.27
DISTANCE	INCR	0.0	0.19	0.37	0.45	66.0	0.55	14.0	0.45	0.35	0.20	0.17	0.0	0.40	0.43	0.37	0.41	0.29	0.20	0.22	0.21	0.47	0.27
()	95 PCT	24.44	24.03	24.10	25.47	24.12	24.62	24.89	25.18	25.41	25.53	25.58	25.58	25.49	25.42	25.28	25.04	24.89	24.85	24.68	24.57	24.22	24.44
CO-ORDINATE-	5 PCT	20.28	20.99	20.53	18.42	21.59	21.91	22.14	22.24	22.29	22.47	22.10	22.70	22.50	22.18	21.91	21.80	21.56	21.37	21.45	21.45	21.02	20.28
- CO-OR	SE	1.27	0.93	1.09	2.15	0.77	0.83	0.84	0.00	0.95	0.93	0.88	0.88	0.91	66.0	1.03	66.0	1.02	1.36	66.0	0.95	0.98	1.27
7)	MEAN	22.36	22.51	22.32	21.95	22.86	23.26	23.51	23.71	23.85	24.30	24.14	24.14	24.30	23.80	23.60	23.42	23.22	23.11	23.07	23.31	22.62	22.36
(	95 PCT	7.77	7.16	7.87	8.01	7.62	7.33	1.09	96.9	6.86	6.81	6 . 85	6 . 85	6.56	6.74	7.11	7.51	7.83	7.76	7.82	8.10	7.70	7.77
CO-ORD INATE	5 PCT	5.65	6.12	5.67	5.46	5.68	5.87	5.66	5.44	5.42	5.31	5.10	5.10	5.44	5.34	5.09	5.16	5.10	5.15	5.39	5.48	5.61	5.65
- CO-OR	SE	0 . 64	0.32	19.0	0.78	0.59	0.45	0.43	94.0	0-44	0.46	0.53	0.53	0.34	0.43	0.62	0.72	0.83	0.80	0.74	0.83	0.64	9.0
λ)	MEAN	6.71	6.64	6.77	6.73	6.65	69.9	6.37	6.20	6.14	90.9	5.98	5.98	00-9	6.04	6.10	6.33	94.9	94.9	09.9	6.19	6.65	6.71
[]	95 PCT	0.75	0.16	0.84	1.08	1.53	2.10	2.25	2.57	2.91	2.88	2.60	2.60	2.51	2.31	2.07	1.74	1.41	1.24	1.29	1.18	0.94	0.75
0	5 PCT	-2.37	-1.96	-2.06	-1.90	-1.56	-1.39	-0.89	-0.49	-0.20	00.0	0.14	0.14	-0.50	-1.07	-1.45	-1.70	-1.68	-1.84	-2.21	-2.28	-2.48	-2.37
- 00-08	SE	0.95	0.65	0.89	0.91	96.0	1.06	96.0	0.93	0.95	0.88	0.75	0.75	0.92	1.03	1.07	1.05	96.0	96.0	1.07	1.05	1.04	0.95
(x - CO-OR	MEAN	-0.81	-0.90	-0.61	-0.41	-0.02	0.35	0.68	1.04	1.35	1.44	1.37	1.37	1.00	0.62	0.31	0.02	-0.14	-0.30	94.0-	-0.55	-0.77	-0.81
SAMPLE	SIZEON	2	2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	5
TIME	_	0.0	0.10	F 0.20	0 0.30	8 0.40		09.0 A		0 0.80	06.0	1.00	0.0	0.10	0.20	R 0.30	E 0.40	T 0.50	09.00	8 0.70	N 0.80	06.0	1.00

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		MOVED	0.0	3.56	8.19	13.41	00.7	21.29	22.82	23.79	24.30	54.47	0.0	1.74	3.72	7.85	2.11	5.42	8.51	10.1	28.2	3.84	4.55			OVED	200	0.0	0.10	0.20	0.27	0.33	0.41	0.60	0.00	1 000	1.12		0.0	90.0	0.10	0.25	0.30	0.34	25.0	54.0	D . 10	0.04	
		INCE	0.0	3.56							0.52		0.0				_		_	14	1.81 2	12	14			ISTANCE M	INCR							0.19														80.0	
			13.54	17.60	22.60	75.63	24.49	22.72	22.93	23.02	23.08	-	23.14	23.19	23.04	22.85	22.48	20.61	18.80	17.22	15.96	14.12	13.54			Q (		4.54	4.54	4.54	4.42	4.52	4.64	4.62	4 . 4	64-4	4.56		4.56	4.55	1004	4.00	4.53	76.4	4 55	4.60	4.52	4.54	
	ROINATE		12.15	13.27	14.02	16.30	16.56	22.72	22.93	23.02	23.14		23.14	23.19	23.04	22.14	18.88	17.18	45.55	13.92	12.94	12.36	12.15			0-ORDINATE	5 PCT	3.28	3.36	3.32	3.33	3.31	3.31	3.41	3.45	3.45	3.35	,	3.30	0 0 0	0.40	7.0	3.42	2 27	2.30	3.37	3.37	3.28	
	- 50-08	SE	0.45	1.32	3.73	2.85	2.42	0.0	0.0	•			0.0	0.0	0.0	0.22	1.10	1.05	66.0	10-1	0.92	21.0	0.45			- 00-06	SE	0.38	0.36	0.37	0.33	0.37	0.41	0.35	0.31	0.32	0.37		20.00	0.36	200	26.0	0.34	3.5	0.35	0.37	0.35	0.38	
	()	MEAN	12.85	15.44	21.22	20.97	20.53	22.72	22.93	23.00	23.14		23.14	67.67	23.04	64.22	80.07	17 10	07.1	10.01	12 67	10.01	14.85			7)	MEAN	3.91	3.35	3.93	3.88	3.92	3.91	4.0.4	3.96	3.97	3.96	3 04	3.07	3.58	3.08	3.97	3.97	3.96	3.97	3.99	3.94	3.91	
(11)	(	95 PCT	10.82	10.37	7.41	0.70	1.47	-6.84	-8.32	-9.72	-9.78		9.78	51.0-	07.01	2 76	7. 7	7.45	24.0	000	10.60	20.01	70.61	101		(	95 PCT	7.84	8.01	8.01	7.65	1.1	26.0	7.95	7.85	7.80	7.78	7.78	7.82	7.93	8.06	8.08	8.09	8.06	8.14	8.16	7.96	7.84	
œ	RD INATE-	5 PCT	9.37	-2-12	-7.79	-5.30	-6.55	-6.84	-8.32	-9.72	-9.78		19.18	-6.26	07.0	10.62	20.00	2.18	7.66	00.0	9-29	0.37		-		DINATE	5 PCT	5.85	5.53	5.36	700	7.17	200	4.97	5.45	5.56	5.38	5.38	5.32	5.28	5.36	5.41	5.48	5.45	5.35	5.33	5.62	5.85	
P CENTER	- CO-CRDINATE	SE	2 17	3.81	4.64	1.83	2.45		000	0.0	0.0	0	•		1.35	1.03	0.83	0.69	0-30	0.29	0 - 40	0.44		LT TROCHANTER		- CG-ORD	SE	19.0	0.0	0.81	0.0	0.0	0.89	0.51	0.73	0.68	0.73	0.73	0.76	0.81	0.82	0.81	0.80	0.79	0.85	0.86	17.0	0.61	
- LT GRIP		MEAN										-0 70	-8-13	-6.26	-2.41	1.07	3.80	6.32	8.16	9.48	9.66	10.09		- LT TRO		٨١	MEAN	48.0	100	60.00	6.73	6.73	6.56	6.46	6.65	6.68	6.58	6.58	6.57	6.61	6.71	6.74	6.78	6.76	41.9	6.75	6.19	6.84	
LANDMARK	[	95 PCT	19.37	17.94	17.07	16.78	14.00	14 54	14.23	14.09	14.19	14.10	13.64	12.99	16.75	17.97	18.14	18.58	18.70	19.31	18.79	18.58		ANDMARK		1	95 PCI	7. C. S.	2.40	7. 27	5.42	5.64	5.28	5.15	5.49	5.64	16.6	5.57	5.62	5.69	5.61	5.55	5.47	5.46	2.60	5.65	5.53	5.57	
	RDINATE-	5 PCT	16.79	16.55	15.53	13.95	14.03	14.56	14.23	14.09	14.19	14.19	13.64	12.99	11.98	14.09	14.93	15.64	16.52	16.97	17.56	17.70		,	211111	E DOT	2 6	3.27	3.62	3.53	3.43	3.10	3.31	3.43	3,33	3 - 34	3.31	3.37	3.45	3.38	3.26	3.23	3.34	3.22	3.12	3.15	3.19	3.06	
	-x - CO-ORD	SE O 27	0.79	0.45	0.47	9.86	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	1.18	0.98	0.89	99.0	0.71	0.38	0.27			- 60-08	2000	35 0	0.67	0.62	0.56	0.61	0.77	0.60	0.53 3.43	0.66	0.00	10.0	19.0	99.0	0. 10	0.71	0.71	0.65	0.68	0.76	0.76	77.0	0.10	
		18.14	8.08	7.24	6.30	100	4.89	4.56	4.23	60.4	4.19	14.19	13.64	N	14.37	9	16.53		_	18.14	8	18.14			X	MEAN		37	42		.42	.37	.30	• 58	14.			4.47		4.53	4.44	4.39	4.41	4.34	4.36	04.4	4.30	16.4	
	SAMPLE	312E 9N	9	5	ın ı	<b>n</b> n		1	1	7	-	7	7	7	2	4	2	2	2	9	9	9			14		7		7	~	7	7	7	7	- 1	- 1		7	7	7	- 1	- 1	- 1	- 1	~ r	- 1	- 1	•	
	TIME	0.0	0	0	0 0	0.50	0	0	0	06.0	1.00	0.0	0.10	0	0	0	T 0.50	0	0	0	06.0	1.00			TIME	-	0-0	0.10	U	0	0	0	0	R 0.70	2 0	1.00		0.0	0.10	0	- (	,	1 0.50	,	5 0	3 0	000	•	

| 100    | 0.0  | 0.12  | 0.54   | 0.60   | 0.65  | 0.10   | 96.0   | 1.00   | 1.13   | 1.17   | 1.32   | 0.0   | 0.12   | 0.20   | 0.34                                 
  | 0.62   | 0.72   | 0.75   | 0.98   | 1.03   | 1.13   | 1.21   |   | MUVED  | TOU.   
   | 0.0   | 64.0   | 0.84   | 1.01   | 2.41  | 3.06   
   | 3.59   | 3.83   | 4.04  | 1.7.1  | 0.0  
   | \$0.0·  | 1.02   | 1.38   | 16.4   | 26.36  
   | 30.2   | 3.31  | 100  | 2 6 6.   |
|--------|--|---|--|--|---|--|--|--|--|--|--|---|--|--
---|--|--|--|--|--|--|--|---|--
--|---|--|--|--
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INCR	0.0	0.12	0.42
  | 0.28   | 60.0   | 0.03   | 0.24   | 0.04   | 0.10   | 0.08   |   | ISTANC   | INCR   
   | 0   | 4 (  |  |  | - 4   | 9  
   | 5  | .2   | 200   | 7.   | 0.0  
   | 40.0  | 0.48   | 00.00  | 70.0   | 0.30   
   | 0000   |   | 14.0   |  |
| 95 PCT | 13.95  | 13.93   | 13.75  | 13.79  | 13.74   | 13.68  | 13.79  | 13.86  | 13.91  | 13.89  | 13.84  | m   | 3  | (C)  | 3                                    
  | 3  | m  | 4  | (L)  | 4  | 4.1  | (1)  |   | (  | 95 PCT   
   | 22.00   | 21.60  | 21.80  | 66.12  | 22.21   | 22.63  
   | 23.13  | 23.27  | 23.39   | 10.07  | 3  
   | m   | 9  | 2  | 2  | 2  
   | 70   | 1 c   | v  | ١  |
| 5 PCT  | 9.14   | 61.6  | 9.53   | 9.51   | 9.52  | 9.58   | 9.30   | 9.24   | 9.21   | 9.26   | 9.29   | 9.29  | 9.26   | 9.23   | 9.23                                 
  | 9.29   | 9.28   | 9.18   | 9.22   | 9.26   | 9.15   | 9.14   |   |  | 5 PCT  
   | 20.09   | 20.40  | 19.90  | 20.07  | 20.54   | 20.68  
   | 20.56  | 20.61  | 20.83   | 44.07  | 20.94  
   | 20.96   | 20.69  | 20.44  | 20.5   | 20.07  
   | 17.76  | 20.00   | CO. 10   |  |
| SE     | 1.47   | 1.45  | 1.29   | 1.30   | 1.29  | 1.25   | 1.37   | 1.41   | 1.43   | 1.41   | 1.39   | 1.39  | 1.40   | 1.42   | 1.45                                 
  | 1.43   | 1.42   | 1.48   | 1.41   | 1.36   | 1.45   | 1.47   |   | - C0-0R  | SE   
   | 0.58  | 0.37   | 0.58   | 0.0  | 000   | 0.59   
   | 0.78   | 0.81   | 0.78  |  | 0.78   
   | 0.68  | 0.72   | 0.74   | 0.75   | 0.80   
   | 0.80   | 204   | 0.07   |  |
| MEAN   | 11.55  | 11.56   | 11.64  | 11.65  | 11.63   | 11.63  | 11.55  | 11.55  | 11.56  | 11.57  | 11.56  | 11.56   | 11.55  | 11.56  | 11.61                                
  | 11.63  | 11.60  | 11.61  | 11.53  | 11.50  | 11.54  | 11.55  |   | 7)   | MEAN   
   | 21.05   | 21.00  | 20.85  | 21.03  | 23.60   | 21.65  
   | 21.84  | 21.94  | 22.11   | 57.77  | 22.23  
   | 22.08   | 21.87  | 21.65  | 21.50  | 21.37  
   | 21.30  | 77.17   | 67.17  |  |
| 95 PCT | 7.64   | 7.25  | 6.95   | 16.9   | 6.95  | 7.12   | 7.00   | 6.94   | 6.98   | 7.00   | 7.01   | 7.01  | 6.80   | 6.75   | 68.9                                 
  | 7.16   | 7.23   | 7.25   | 7.45   | 7.53   | 7.61   | 7.64   | 231   |  | 9 5  
   | 6   | 80   | -  |  |   |  
   | . 49   | 9  | 0   | D  | 6.53   
   | 6.49  | 6.81   | 7.19   | 7.40   | 7.32   
   | 7.43   | 8.05  | 9.40   |  |
| 5 PCT  | 4.64   | 4.85  | 4.33   | 4.32   | 4.22  | 4.09   | 4.67   | 4.68   | 4.79   | 4.84   | 4.67   | 4.67  | 4.78   | 4.68   | 4.51                                 
  | 4-74   | 4.68   | 4.64   | 4.86   | 4.83   | 4.61   | 4.64   | ENTER   | RD INATE-  | 5 PCT  
   | 60°5  | 5.80   | 5.92   | 5.84   | 5.19  | 5.2B   
   | 5.05   | 5.03   | 4.86  | 4.32   | 4.32   
   | 4.92  | 4.88   | 4.79   | 5.31   | 5.76   
   | 60.9   | 07.9  | 0.30   |  |
| SE     | 15.0   | 0.73  | 0.80   | 0.79   | 0.83  | 0.92   | 0.71   | 69.0   | 0.67   | 0.66   | 0.71   | 0.71  | 0.62   | 0.63   | 0.73                                 
  | 0.74   | 0.78   | 0 80   | 0-79   | 0.82   | 0.91   | 0.91   |   | 0-00 -   | SE   
   | 1.29  | 0.12   | 0.57   | 0.48   | 0.58  | 56   
   | 0.49   | 0.43   | 0.47  | 19.0   | 9  
   | 0.48  | 0.59   | 0.13   | 0.64   | 0.47   
   | 0.41   | 0.50  | 0.57   |  |
| MEAN   | 6.14   | 6.05  | 5.64   | 5.61   | 5.59  | 5.60   | 5.84   | 5.81   | 5.88   | 5.92   | 5.84   | 00  |  | 1  | 1                                    
  | 6  | 6  | 6  |  | 17   | 17   |  | - LT SHO  | λ)   | MEAN   
   | 7.21  | 26.9   | 6.84   | 6.62   | 41.9  | 6.00   
   | 5.84   | 5.75   | 5.64  | 5.43   | 5.43   
   | 5.71  | 5.84   | 5.99   | 6.36   | 6.54   
   | 91.9   | 71.1  | 1.36   |  |
| 95 PCT | 21.18  | 21.23   | 21.17  | 21.16  | 21.12   | 21.01  | 21.07  | 21.13  | 21.08  | 21.08  | 21.22  | 21.22   | 21.06  | 21.10  | 21.20                                
  | 21-19  | 21-31  | 21.26  | 21.28  | 21.35  | 21.33  | 21.18  | ANDMARK   | (  | 95 PCT   
   | 3.24  | 1.89   | 1.29   | 1.68   | 2.87  | 3 55   
   | 4.12   | 4.11   | 4.21  | 4.57   | 4.57   
   | 4.51  | 4.22   | 3.59   | 2.72   | 2.46   
   | 2.40   | 2.26  | 2.48   |  |
|        | 9  | 9   | 9  | 9  | 9   | O  | 0  | ್  | · U  | . 0  | 19.20  | 19.20   | 19.58  | 19.52  | 19.16                                
  | 19-43  | 19.49  | 10.49  | 19.30  | 19.25  | 19-40  | 19.68  | _   | RDINATE-   | 5 PCT  
   | -0.59   | -0.07  | 90.0-  | 0.02   | 0-17  | • • •  
   | 1.24   | 1.65   | 1.65  | 1.38   | 1.38   
   | 0.57  | 0.02   | 0.18   | 0.18   | -0.11  
   | -0.43  | 17.0-   | -0.12  |  |
| SE     | 0.46   | 0.53  | 0.52   | 0.49   | 0.49  | 0.45   | 0.52   | 0.54   | 0.44   | 0.45   | 0.61   | 0.61  | 0.45   | 0.48   | 0.62                                 
  | 0.54   | 0.56   | 0.50   | 0  | 0.64   | 0.59   | 0.46   |   | 1  | S  
   | 1.17  | 09.0   | 0.41   | 0.50   | 0.82  | 10.00  
   | 0.88   | 0.75   | 0.78  | 0.97   | 16.0   
   | 1.20  | 1.28   | 1.04   | 0.77   | 0.78   
   | 0.86   | 26.0  | 16.0   |  |
| MEAN   | 20.43  | 20.36   | 20.31  | 20.36  | 20.32   | 20.27  | 20.22  | 20.25  | 20.36  | 20-34  | 20.21  | 20.21   | 20.32  | 23.31  | 20.18                                
  | 20.31  | 20.40  | 20.37  | 20.29  | 20.30  | 20.36  | 20.43  |   |  | AN   
   |   |  |  |  |   |  
   |  |  |   |  | 2.97   
   | 2.54  | 2.12   | 1.88   | 1.45   | 1.17   
   | 0.98   | 0.75  | 0.88   |  |
| SIZE,N | 2  | 5   | 9  | 9  | 9   | 9  | 2  | ·  | , v  | , տ  | S  | ď   | , v  | 'n   | \ v                                  
  | , v  | \ v  | ٧ ١  | ٦ ١  | , rc   | , u  | י יט   |   | SAMPLE   | SIZEON   
   | 9   | 9  | 7  | 7  | ~ 1   | - 1  
   | - 1  | _  | 7   | 7  | 7  
   | 7   | 7  | 7  | 7  | 1  
   | 7  | 7   | 9  |  |
| -      |  |   |  |  |   |  |  |  |  |  |  | 0   | 0.0  | 0.20   | 0 2 2                                
  | 0 0  | 200  | 0 4  | 200  | 0.80   | 000  | 1.00   |   | TIME   | -  
   | 0.0   | 7.   | .2   | .3   | 4.  | 0 1  
   | 0 1  | . 8  | 6.  | 0  | 0  
   | 7.  | 2.   | .3   | 4.   | .5   
   | 9.   | -   | 8  |  |
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HEAN SE 5 PCT 95 PCT HEAN SE 5 PCT MEAN SE 5 PCT 10 PCT MEAN SE 5 PCT 10 PC 10 PCT 1 | T SIZE,N HEAN SE 5 PCT 95 PCT HEAN SE 5 PCT 95 PCT MEAN SE 5 PCT 100 NO SE 5 PCT 95 PCT 100 NO SE 5 20.43 0.46 19.68 21.18 6.014 0.51 4.64 7.64 11.55 11.47 9.14 13.95 0.00 0.00 0.73 0.52 19.46 21.17 5.64 0.80 4.33 6.95 11.56 11.55 11.47 9.19 13.93 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | TOTAL MEAN SE SPOT MINER 110.55 11. | THERM SE SPOT 95 PCT HEAN SE SPOT MEAN SE SPOT MEAN SE SPOT 95 PCT NICK NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10 | THE SIZE, N HEAN SE 5 PCT 95 PCT NEAN SE 5 PCT 9.19 13.95 0.12 0.12 0.14 0.55 19.46 21.21 0.55 19.46 21.21 0.55 19.46 21.21 0.55 19.46 21.22 0.45 0.79 4.32 0.95 11.65 1.45 9.19 13.95 0.12 0.12 0.20 0.49 19.56 21.12 5.61 0.79 4.32 0.91 11.65 1.29 9.51 13.79 0.06 0.20 0.49 19.56 21.12 5.61 0.79 4.32 0.91 11.65 1.29 9.51 13.79 0.06 0.06 0.06 0.06 0.06 0.07 0.07 0.07 | THE SIZE IN HEAN SE 5 PCT 95 PCT NEAN SE 5 20.43 0.46 19.68 21.18 6.14 0.51 1.46 1.25 11.55 1.47 9.14 13.95 0.12 0.10 0.3 0.46 0.52 11.56 1.47 9.14 13.95 0.12 0.12 0.2 0.2 0.3 19.49 21.23 0.05 0.13 4.68 7.91 11.65 11.65 11.65 11.67 9.19 13.93 0.12 0.2 0.40 0.49 19.56 21.12 5.64 0.80 4.33 6.95 11.64 11.29 9.53 13.75 0.42 0.40 0.49 19.53 21.12 5.59 0.83 4.22 6.91 11.65 11.65 11.29 9.53 13.79 0.05 0.40 0.49 19.53 21.01 5.60 0.92 4.09 7.12 11.63 11.29 9.52 13.74 0.05 0.40 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.9 | T SIZE'N HEAN SE SPCT 95 PCT HEAN SE SPCT 95 PCT NEAN SE SPCT 95 PCT 10 PCT 95 PCT 95 PCT 10 PCT 95 | T SIZE'N HAN SE SPCT 95 PCT NEAN SE SPCT 95 PCT NEAN SE SPCT 10 NCK NC S C C C C C C C C C C C C C C C C C | T SIZE,N HEAN SE 5 PCT 95 PCT HEAN SE 5 PCT 95 PCT NEAN SE 5 PCT 10 PC NEAN SE 5 PCT 1 | T SIZE,N HEAN SE 5 PCT 95 PCT NEAN SE 5 PCT 95 PCT 146 NO. 1.25 | T SIZE,N HEAN SE SPCT 95 PCT NEAN SE 5 PCT 95 PCT NEAN SE 5 PCT 10 PCT 1 | TO SIZE NO HEAN SE S PCT 95 PCT NEW NO. SE S PCT 95 PCT 100 PCT 95 PCT 95 PCT 100 PCT 95 | T SIZEEN HAN SE SPCT 95 PCT NAME OF TAXABLE NA | T SIZE N HAN SE S POT 95 POT 18 NA NA SE S POT 95 POT 18 NA NA SE S POT 91 POT 18 NA NA SE S POT 91 | T SIZE, N HEAN SE S PCT 95 PCT 195 PCT | To size, N Hean SE SPCT 95 PCT 95 PCT 95 PCT 95 PCT 95 PCT 105 PCT 95 PCT 95 PCT 105 PCT 95 PCT | To size, N Hean Se Spect Hean Se Spect 95 pct 1858 145 9.14 9.14 13.95 0.00  20.20 0.40 0.40 19.40 21.18 6.05 0.73 4.65 7.55 11.50 1.45 9.14 13.95 0.00  20.21 0.52 19.40 21.18 6.05 0.73 4.65 7.55 11.50 1.45 9.14 13.95 0.00  20.22 0.40 19.50 21.10 5.60 0.70 4.32 6.91 11.65 1.29 9.53 13.79 0.00  20.22 0.40 19.50 21.12 5.50 0.67 4.22 6.91 11.65 1.29 9.52 13.74 0.00  20.22 0.40 19.50 21.10 5.60 0.62 1.40 1.50 11.55 1.25 9.52 13.74 0.00  20.22 0.40 19.50 21.10 5.60 0.62 4.70 6.91 11.55 1.41 9.14 9.14 13.79 0.00  20.22 0.52 19.37 21.10 5.60 0.62 4.70 6.90 11.55 1.14 9.22 13.84 0.00  20.23 0.44 19.46 21.10 5.60 0.47 4.70 0.69 4.70 11.55 1.14 9.22 13.84 0.00  20.24 0.45 19.50 21.22 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.25 0.54 19.50 21.22 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.25 0.54 19.50 21.22 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.20 0.45 19.50 21.20 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.20 0.45 19.50 21.20 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.20 0.45 19.50 21.20 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.20 0.45 19.50 21.20 5.84 0.71 4.67 7.01 11.50 1.39 9.20 13.84 0.01  20.20 0.45 19.40 21.10 5.70 0.73 4.68 7.69 11.50 1.42 9.20 13.84 0.01  20.20 0.45 19.40 21.10 5.90 0.70 4.40 7.50 11.50 1.40 9.12 1.40 0.00  20.20 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.45 19.40 21.10 5.90 0.70 0.70 4.40 7.40 11.50 11.40 9.18 1.40 0.00  20.30 0.40 19.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 | TO SEE MEAN SEE SPCT 98 PCT 1 85 PCT 95 PCT 1 84N SE 5 PCT 9 PCT 1 84N SE 5 PCT 9 PCT 1 84N SE 9 | T SITE, N HEAN SE SPCT 95 PCT 1946 21.2 Hean SE SPCT 95 PCT 1940 11.5 Hean SE SPCT 95 PCT 95 PCT 1940 11.5 Hean SE SPCT 95 PCT 95 PC | T SIZE, HAN SE S POLT 95 POL 146AN SE S POLT 95 POLT 146AN SE S POLT 95 POLT 146AN SE S SOL43 0.052 19-49 21-18 6-149 0.073 14-49 21-18 6-149 0.073 14-49 21-18 6-149 0.073 14-49 21-18 6-149 0.073 14-49 0.073 19-49 21-18 6-149 0.073 14-49 0.073 19-49 0.013 19 | T SITE, HAN SE SCHOOL SECTION OF | T SIZEN HAN SE S PCT 95 PCT MEAN SE SPCT 95 PCT MEAN SE SPCT 95 PCT MEAN SE SPCT 95 PCT NOT NOT SE SPCT 95 PCT MEAN SE SPCT 95 PCT MEAN SE SPCT 95 PCT NOT SE SPCT 95 PCT NOT SE SPCT 95 PCT 95 | T SIZEN HAN SE S PCT 95 PCT MEAN SE S PCT 95 PCT MEAN SE S PCT 95 PCT MEAN SE S PCT 95 PCT NEW NEW SE S PCT 95 PCT 95 PCT NEW NEW SE S PCT 95 | T SILE IN THAN SE S POLT 95 POLT MEAN SE S POLT 95 POLT 95 POLT MEAN SE S POLT 95 POLT 95 POLT MEAN SE S POLT 95 POLT 95 POLT MEAN SE S POLT 95 POLT 95 POLT MEAN SE S POLT 95 POLT MEA | T 5 12E.N HEAN SE 5 PCT 9 PCT 1 MEAN SE 5 PCT 95 PCT 1 MEAN SE 5 PCT 9 PCT 9 PCT 1 MEAN SE 5 PCT 9 PCT 9 PCT 1 MEAN SE 5 PCT 9 PCT 9 PCT 1 MEAN SE 5 PCT 9 PCT 9 PCT 1 MEAN SE 5 PCT 9 P | T SIZE N HEAN SE S PCT 9 PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 1 MEAN SE S PCT 2 MEAN SE S PCT 2 MEAN SE S PCT 3 | T SIZE N HEAN SE S PCT 95 PCT 1 42 PCT | T SIZE N HEAN SE SPCT 95 PGT 1878 N SE SPCT 95 PGT 1875 PGT 1875 PGT 1878 N SE SPCT 95 P | T SIZE N HENN SE S PGT 95 PGT 184N SE 5 PGT 95 PGT 185 PGT 95 |

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	40VED CUM 0.0 1.19 2.61	7.23 9.94 11.57 13.44 14.92	0.0 1.12 3.23 5.86 8.29 10.92 12.81 14.38 14.61 14.94	MOVED CUM 0.0 2.98 6.55 11.72 11.72 11.72 11.55 21.55	0.0 1.37 3.13 6.93 10.28 13.12 14.69 18.25 20.73 21.42
	DISTANCE INCR 0.0 1.19	2.05 2.56 1.03 1.63 1.63 0.97	0.1.5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	DISTANCE INCR 0.0 2.98 3.58 1.54 1.94 4.79 2.03 0.15	0.0 1.37 1.37 1.37 2.84 1.57 1.57 2.45 0.72
	95 PCT 15.65 15.10 15.21	15.96 17.29 19.10 19.02 19.57 19.65	109.63 109.63 109.63 109.63 105.33 105.33 105.33 105.33 105.33	95 PCT 13-81 10-53 19-53 22-21 20-52 22-33 21-12 21-59 21-59 21-59	21.59 21.49 21.11 20.32 20.16 19.77 19.59 16.95 16.95 16.95
	S PCT 10.33 10.12 10.22	10.90 11.63 12.01 13.46 14.44 15.30 15.30	15.94 15.65 14.17 12.66 11.98 10.74 10.55 10.55	RDINATE— 5 PCT 11.19 12.21 13.85 15.18 15.38 21.15 21.59 21.62 21.59 21.59	21.59 21.49 21.11 19.71 14.10 14.05 12.76 9.82 11.52
	- CO-O SE 1.62 1.52	1.54 1.73 2.16 1.70 1.57 1.24	1.22 1.621 1.948 1.998 1.900 1.600 1.660 1.660	- CO-OI SE 0.80 1.73 2.15 2.15 2.12 2.12 0.0	0.0 0.0 0.0 0.19 0.85 11.69 11.24 11.10
	HEAN 12.99 12.51 12.72	13.43 14.46 15.55 16.24 17.00 17.48 17.93	17.93 17.93 16.86 15.91 15.21 14.03 13.61 13.19 12.99	HEAN HEAN 12.50 12.50 16.69 18.69 18.20 18.20 18.20 21.12 21.15 21.55 21.55	21.59 21.49 21.11 20.02 18.76 16.82 14.79 13.39 13.32
( 25)	95 PCT 13.37 11.97 11.05	9.948 8.80 8.34 3.61 1.79	1.18 2.53 5.18 7.59 10.06 11.42 13.43 13.18	95 PCT 12.11 11.2.11 11.3.13 5.39 5.39 5.464 -6.99 -6.99	-6.70 -5.44 -3.83 2.65 4.78 6.72 9.63 10.95 11.87
ER	0	0.66 0.66 0.36 0.36 0.36 0.36		ER RD INATE- 5 PCT 9.51 6.34 0.34 -2.78 -4.64 -4.64 -6.70 -6.98 -6.99	-6.70 -3.83 -3.83 -3.10 -3.10 -3.10 -3.10 -6.19 -6.19 -6.19
ELBCW CENTER	SE 0.59 0.42 0.63	1.55 1.26 1.21 1.21 0.81	0.58 1.19 1.46 1.58 1.58 2.37 0.70	PIST CENTER  -Y - CO-ORDI  SE 5  1.46  1.54  2.55  2.63  0.0  0.0  0.0	0.0 0.0 0.0 1.75 1.27 1.98 1.01 3.09
- LT ELB	MEAN 12.40 11.28 10.02 8.66	6.883 4.73 3.28 1.62 0.47	0.22 1.30 3.24 5.60 7.66 9.40 10.84 11.97 11.97	(	-6.70 -3.83 -0.23 -0.23 -0.23 6.38 6.38 9.30 11.26 110.54
LANDMARK	95 PCT 6.26 6.58 7.44 7.44	11.07 12.69 12.19 12.91 12.91 12.77	12.83 12.82 12.82 12.62 12.05 10.37 8.51 6.91 6.52	LANDMARK 95 PCT 15.70 15.70 14.43 14.90 14.62 13.96 13.96 13.34 13.34	13.80 13.26 12.68 12.68 15.47 15.25 15.25 15.20 16.11 16.13
	RDI	9.20	4 4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ADINATE- 5 PCT 14.30 14.30 13.69 13.69 13.96 13.96 13.96 13.96	13.80 13.26 112.68 112.53 112.53 112.53 114.08 114.41
	x - CO-O SE 0.55 0.64 0.77	1.255 1.444 1.13 1.007	0.89 1.13 1.527 1.527 1.90 1.942 0.83 0.90 0.71	x - CG-ORD SE 0.45 0.45 0.06 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.31 0.47 0.47 0.55 0.53
	MEAN 5.36 5.53 6.18	. 6221111	11.38 10.97 10.66 10.01 8.93 7.35 7.35 6.19 5.35 5.35 5.35	MEAN 15.50 15.50 14.33 14.03 13.96 13.96 13.96 13.96 13.96	13.80 13.26 12.68 12.89 14.00 14.79 14.79 15.21 15.21
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	- 0000	D O O O O O O O O O O O O O O O O O O O	0.0 0.10 0.10 0.20 1 0.30 1 0.50 N 0.50 1.00	TIME 0.10 0.10 0.10 0.20 0.20 0.30 0.40 0.50 0.60 0.80 0.90	0.0 0.10 0.20 0.20 1 0.50 0 0.50 0 0.60 0 0.80 0 0.90

		MOVED	300	0.0	0.0	0.0	4.83	11 27	12.95	14.13	14.61	14.93	0	1 47	40.7	7 75	10.73	3.09	15.03	15.98	15.98	15.98	15.92			MOVED	COM	0.0	0.0	0.0	0.0	0.0	3.03	10.0	7.87	8.82	04.6	0.0	1.58	4.01	6.19	8.32	1.46	1.46	1.46	1.46	11.46
		DISTANCE									0.48		0-0	1.64	2.60	3.50	3.04	2.30	2.89	0.0	0.0	0.0	0.0			ш		0.0	0.0	0.0	0.0	0.0	3.03	1.41	1.44	0.95	0.58										0.0
		95 PCT	0.0	0.0	0.0	18.80	22.93	23.30	22.84	22.72	22.49	17.77	22.27	24.32	24.97	23.14	23.22	21.59	20.50	0.0	0.0	0.0	0.0				95 PCT	0.0	0.0	0.0	0.0	21 74	22.12	21.84	22.03	23.01	81.12	21.18	22.49	23.61	22.10	21.90	22.01	0.0	0.0	000	00.0
	DOINATE	5 PCT	0.0	0.0	0.0	18.36	19.67	20.57	21.01	20.96	21.07	10.12	21.01	17.72	16.59	19.64	17.58	18.05	16.25	0.0	0.0	0.0	0.0			1										16.77											0.0
	0-03-	SE	0.0	0.0	30	1.14	0.99	0.83	0.56	0.54	44	0	0.38	2.01	2.55	1.07	1.72	1.08	1.29	0.0	0.0	0.0	0.0			- 60-08	SE	000		000	0.28	1.35	1.12	0.81	0.85	0.48	•	0.48	1.52	2.13	1.23	1.65	2.60	30	0	0.0	0.0
	()										21.18		21.54	21.32	20.78	21.39	20.40	19.82	18.37	2.0	0.0	0.0	0.0			7)	MEAN				19.21	19.52	20.28	20.50	20.63	20.39		20.39	19.99	20.12	50.03	¥1.41	11.13	300	0.0	0.0	0.0
(11)											-10.43		-10.43	-7.42	-4.51	-1.33	2.28	2.95	5.83	0.0	0.0	0.0	0.0	1 27)		10000	200				3.05	-0.15	-1.80	-3.86	-5.93	-7.30		-7.30	40.4-	-1.42	1.50	4 23	70.0		0.0	0.0	0.0
œ	C-ORDINATE-	5 PCT	0.0	000	2.79	-3.76	-8-14	-10.56	-11.35	-11 7	-11.97		-11.97	-12.13	-9.93	-6.28	-4-39	10.94	01.1	0	0	000	0.0	œ	OINATE	S DCT	2			0.0	-2.93	-5.71	-7.66	-8-37	-9.35	0.66 -9.47		14.6-	7 63	-1.53	-2 72	-0.50	0.0	0.0	0.0	0.0	0.0
IP CENTER	0-00 - 1	SE	000		0.0	1.37	1.78	1.77	1.25	0.50	0.47		14.0	1043	1.65	16.1	40.0	1.19	•					ST CENTER	- 60-00	200	0.0	0.0	0.0	0.0	1.82	1.69	1.79	1.38	0.76	0.66		99-0	1 04	2 64	1 . 24	1.47	0.0	0.0	0.0	0.0	0.0
- LT GRIP	()	MEAN	000	000	2.79	-1.51	-5.22	-1.65	-10.49	-10.92	-11.20		02.11-	7	77.1-	00.0	100	3.46					•	- LT WRIS	λ)	MEAN	0.0	0.0	0.0	0.0	90.0	-2.93	-4-73	-0.11	-8.09	-8.38		16.86	-4-48	-1.77	-0-6A	1.91	0.0	0.0	0.0	0.0	0.0
LANDMARK	(	95 PCT	0.0	0.0	17.45	16.77	17.18	16.01	15.97	15.30	15.19	01 31	16.00	16 51	17.25	10 10	21.04	20.37	0-0	0-0	0.0	0-0		ANDMARK	(	95 PCT	0.0	0.0	0.0	0.0	13.11	15.32	14.56	13.67	13.69	13.63	13 63	13.90	15.12	16.26	17.60	21.74	0.0	0.0	0.0	0.0	0.0
	RDINATE	5 PCT	0.0	0.0	17.45	14.80	13.40	13.41	13.30	13.59	13.52	12 62	13.83	14.07	14.35	14.09	13.95	15.48	0.0	0.0	0.0	0.0		7	DINATE	5 PCT	0.0	0.0	0.0	0.0	12.90	11.40	11 54	11.65	12.03	12.18	12.18	12.21	11.89	12.00	11.87	9.79	0.0	0.0	0.0	0.0	•
	0-00 - x	0.0	0.0	0.0	0.0	0.60	0.93	0.75	0.81	0.52	0.51	0.51	0.66	0.75	0.88	1.56	2.16	1.49	0.0	0.0	0.0	0.0			- CO-0R	SE	0.0	0.0	0.0	0.0	90.0	61.1	0.70	0.62	0.51	0.44	0.44	0.52	0.99	1.30	1.75	3.64	0.0	0.0	0.0	000	•
	1 7	0.0	0.0	0	_	n u	14.94	-	-5	14.45	14.35		14.91			9		7							X)	MEAN	0.0	0.0	0.0	0	2 6	7 6	20	12	12.86	2	12.90	13.06	13.50	14.13	14.73	15.76	0.0	0.0	000	000	•
	SAMPLE	771	0	0.	<b>-</b>	٠.	1	7	7	7	0	9	9	9	7	4	4	4	0	0	0	0			SAMPLE	SIZE,N	0	0	0	0 1	V 4	٠ د	9	9	5	2	2	2	2	2	3	7	0	0 (	<b>&gt;</b> C	00	,
	TIME		0	0	0	0		o	o			0.0	0.10	_	_	0	0	0	R 0.70	0	06.0	1.00			TIME	- (	0.	0	2.0	000	. 4	0.6	0.7	0.8	0.90	2	0.0	-	0.5	0.3	0.4	0	9.0	. 0	000	1.00	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AT +20.0, 0.0, +12.4 AND REMAINS AT STICK CONTROLLER FOR RIGHT HAND TO COMPLETE A MOVEMENT AND THEN RETURNS BACK TO THROTTLE CONTROLLER.

BACK ANGLE - 13

SUB-MOVEMENT	1 1 1	TIME DATA	[ A		
	MEAN	STO DEV		RANGE	
LEFT FWD	0.46	60.0	0.30 TO	0.73	0.70 SECS.
LEFT REV	0.43	0.15	0.10 TD	0.90 SECS.	SECS.

MOVED CUM 0.0 0.38 0.72 0.85 0.85 0.95 1.05 1.05 1.53	1.555 1.555 1.555 1.555 1.675 1.988 1.991	MOVED CUM 0.10 0.14 0.32 0.33 0.45	000 00444444
DISTANCE INCR 0.0 0.34 0.34 0.03 0.04 0.04 0.09 0.21 0.21	0.00 0.11 0.11 0.00 0.00 0.00 0.00 0.00	DISTANCE INCR 0.0 0.14 0.12 0.06 0.07	000 000000000
31.42 31.42 31.42 31.56 31.61 31.63 31.63 31.63 31.63 31.63 31.63 31.63 31.63 31.63	31.52 31.52 31.46 31.46 31.52 31.52 31.52 31.49	25.35 25.35 25.35 25.25 25.25 25.35 25.35	w
RDINATE- 5 PCT 27.27 27.27 27.20 27.20 27.20 27.20 27.32 27.32 27.45 27.45	27.53 27.41 27.42 27.39 27.35 27.35 27.26 27.26 27.26	RDINATE- 5 PCT 21.97 21.83 21.83 21.83 21.85 21.85	
SE 1.26 1.34 1.34 1.38 1.38 1.38 1.36 1.50	1.54 1.26 1.23 1.24 1.24 1.30 1.30 1.27	- 50-0 SE 1:004 1:004 1:004 1:008	011 1001110000
MEAN 29.34 29.37 29.41 29.42 29.42 29.42 29.64 29.69 29.69	30.29.46 29.46 29.46 29.46 29.39 29.39 29.39 29.39	MEAN 23.68 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.58 23.58 23.58	
95 PCT 2.63 2.08 1.86 1.86 1.86 1.80 2.02 2.02 2.02 2.02 2.11 2.28 2.28 2.59	2.93 2.93 2.93 2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.5	95 PCT 0.92 0.92 0.94 1.52 1.52 1.29	
RD INATE- 5 PCT - 2.03 - 2.24 - 2.85 - 2.96 - 3.02 - 2.95 - 3.02 - 2.95 - 2.95 - 2.95 - 2.96 - 2.	-2.08 -1.08 -1.08 -1.32 -1.33 -1.33 -1.36 -1.89 -1.89	80 IN	777777777 777
- C C O - C C O - C C O - C C O - C C O - C C C C	1.24 1.24 1.24 1.19 1.28 1.33 1.33 1.34	ALE - CO-O 0.93 1.19 1.23 1.15 1.15	0 1 1 0 0 0 0 0 0 0 0 0 0 0
MEAN 0.30 0.30 0.30 0.52 0.52 0.54 0.54 0.37 0.25	00000000000000000000000000000000000000	- CERVICAL	444 44400000000
95 PCT 9.04 9.04 9.18 9.41 9.44 9.44 9.45 9.14 9.14 8.77	8.68 9.18 9.15 9.11 9.21 9.22 9.15 9.10 9.07	ANDMARK 95 PCT 1.10 1.10 1.59 1.59 1.55 1.55 1.55	10100000000
DINATE	3.51 4.07 4.32 4.33 4.43 4.50 4.50 4.50 4.50 4.50	DINATE	222222222222222222222222222222222222222
- CG-OR 1.34 1.65 1.65 1.65 1.65 1.57 1.57 1.50	1.58 1.56 1.56 1.56 1.36 1.39	- CO-OR SE 1.22 1.22 1.44 1.44 1.46 1.46	200 2111111100
MEAN 6.85 6.85 6.83 6.71 6.68 6.70 6.68 6.59 6.59 6.59 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	6.10 6.63 6.68 6.72 6.81 6.82 6.83 6.83	MEAN O 88 O 81 O 82 O 88 O 88 O 88 O 88 O 88	
SAMPLE SIAE N 42 42 42 42 42 42 42 42 42 42 42 42 42	0000000000000	SAMPLE 51XE,N 42 42 42 42 42	144 4444444444444444444444444444444444
TIME 0.0 0.10 0.10 0.30 0.30 0.30 0.30 0.50 0.60 0.90 1.00	0.0 0.10 0.20 E 0.40 T 0.50 U 0.60 N 0.80 1.00	TIME 0 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 0 0	860 00000000000000000000000000000000000

X W F D K Z

TOKMAKO

ZWCJWZ

CABEROL

	200	CIM	0.0	1.11	2.23	3.76	7.54	8 12	00.0	10-01	10.53	10.77		0.0	3.10	4004	5.52	6.42	7.39	8.48	9.42	10.03	10.62	11.14			MOVED	COM	0.0	0.04	0.08	0.13	0.16	11.0	0.22	0000	0.25	0.0	60.0	0.0	0.16	0.23	0.27	0.32	0.66	0.87	1.31	1.41	1.44	1.50
	TOTANCE	INCE	0.0	1.11	1.12	1.48	100	0 0	0.97	0.93	0.51	0.24		0.0	3.10	96.0	1.48	06.0	96.0	1.09	0.95	09.0	0.59	0.52			DISTANCE	INCR	0.0	0.04	0.04	0.05	0.03	20.0	0.0	100	0.05	000	000	0.0	0.16	0.07	0.05	0.05	0.34	0.20	55-0	0.11	0.03	90.0
		S PCT	13.48	14.29	15.08	16.16	15.81	15.40	14.68	14.14	13.87	13.55		13.55	41.01	17.40	18.63	17.20	06-91	16.60	15.72	15.01	14.09	13.48				95 PCT	4.48	4.42	4 - 41	4.38	4.39	74.4	1	4 54	4.50	50		4.50	4.39	4.39	4.42	4.45	4.51	64.4	4.52	4.52	64.4	4.48
	DINATE		12.17	12.92	13 70	13.88	13.51	12.86	12.32	11.71	11.34	11.60		11 45	24.11	11.30	11.33	12 33	13.12	12.19	12.68	12.53	15.49	12.17			DI NA TE	5 PCT	3.32	3.33	3.30	3.32	3.34	0000	3.31	3-31	3.30	3.26		3.24	3.30	3.30	3.32	3.29	3.27	3,33	3.36	3.37	3.36	3.32
	Z - C0-08	SE	0.40	0.42	44.0	0.10	0.10	0.78	0.72	0.74	0.77	0.59	0	1 43	700	1000	77.7	1001	1.17	1.16	0.93	0.15	64.0	0.40			8	SE	0.35	0.33	0.34	0.32	20.00	2000	0.37	0.37	0.37	0.38		0.38	0.33	0.33	0.34	0.35	0.38	0.35	0.35	0.35	0.34	0.35
	()	MEAN	12.83	14-41	14.79	15.02	14.66	14.13	13.50	12.92	12.50	12.58	12 60	13.70	14.25	14.00	15.00	15.04	17. 7.	74.00	07-41	13.77	67.61	15.83			7)	MEAN	3.90	3.00	3.60	2.67	9 00	3.80	3.91	3.92	3.90	3.87		3.87	3.84	3.85	3.87	3.87	3.89	3.91	3.94	3.74	36.6	3.40
(11)	(	95 PCT	10.82	10-13	8 92	7.60	09 - 9	4.80	3.34	2.63	2.85	2.32	2 33	6.13	7.55	10.70	200	10.01	11 22	11 54	11 11	11.11	10.01	79.01	161			95 PCT	8.03	7 35	1.12	7.70	77.77	7.75	7.27	7.82	7.80	7.79		7.79	7.82	7.81	7.11	7.75	8 . 74	69.6	10.49	1000	8 0 0 0	0.00
α	RD INATE-	5 PCT	8.92	6.88	5.19	3.59	1.27	1.23	1.39	0.86	60.0-	0.88	0.88	1.29	1.31	0.80	3.22	4.50	2 8 8	900	7 05	B 64	000	76.0			Ξ,	124 6	74.0	20.0	70.0	5.47	5.48	5.42	5.43	5.44	5.53	5.59		5.59	0.43	5.45	24.6	2.58	4.84	4.20	7.40	100	5.46	•
GRIP CENTER	-Y - CO-ORD 1	SE	0.68	0.99	1.14	1.22	1.63	1.09	0.59	0.54	06.0	4.0	0.44	1.48	1.90	3.02	2.08	1.81	1.63	1.40	95-0	0.00	9 9	•	LT TROCHANTER	000-00-		200	0.0	0.00	0.60	0-71	0.70	0.71	0.71	0.73	69.0	0.67		0.67	0.13	0.12	21.0	21.0	67.7	1000	0.74	0.73	0.79	
- LT G	)	MEAN	9.20	8.50	7.05	5.59	3.94	3.02	2.37	1.75	1 .38	1.00	1.60	3.71	4.43	5.75	6.63	7.55	8.56	9.25	9.53	9.75	9.87		- LT TRO	(	MEAN	ACAN A	4 4 4 1	6.68	9999	6.63	6.63	6.58	09.9	6.63	99.9	69.9	,	69.00	70.0	0.00	70.07	4 70	600	717	99-99	6.68	6.74	
LANDMARK	(	95 PCT	19.36	19.16	18,77	18.79	19.17	19.38	19.45	19.10	10 40	74.67	19.42	18.61	18.49	19.38	18.67	10.61	19,33	19.65	19.83	19.79	19.77		ANDMARK		95 BCT	5.25	5.14	5.13	5.10	5.14	5.17	5.22	5.25	5.19	5.13	5.18	9	5.18	7.40	2.10	7.00	7.07	7.00	5.15	5.11	5.13	5.25	1
			16.76										18.20	15.19	14.83	14.42	14.73	14.93	15.21	15.72	16.17	16.72	17.16		_	0-ORDINATE-	S PCT	3.07	3.20	3.25	3.33	3.34	3.28	3.22	3.23	3.31	3.42	24.5	2 42	3.14	3 20	2 20	200	30.5	2000	3.32	3.18	3.17	3.07	
	x - CO-0RD	SE	0.79	0.89	0.83	0.95	1000	0.40			0.37		0.37	1.04	1.11	1.51	1.20	1.24	1.26	1.20	1.12	96.0	0.79			X - C0-0F	v	0-67	00.00	0.57	0.54	0.55	0.58	0.61	0.62	0.57	76.0	0.04	0.54	0.62	0.57	0.55	0.64	0-87	1.38	0.56	0.59	0.60	0.67	
	)	18 AK	18.06	17.70	17.40	17.23	17 82	18 10	18.55	18.72	18.81	4	18.81	•	A)	16.90	æ	vo.			œ	18.26	œ					4.16	4.18	4.19	4.21	4.24	4.23	4.22	4.24	4.65	4.20	4.30	4.30	4.15	4.22	4.21	4.24	4.50	4.59	4.24	4.14	4.15	4.16	
	SAMPLE	-	19	20	19	20	00	8	170	16	16		16	15	15	15	17	19	18	19	19	19	19			A	SIZE,N		21	21	21	21	21	17	77	77	21	77	21	20	20	21	21	21	21	21	21	21	21	
	TIME		o	0	0		c	0	0	0			0.0	0.10	0	R 0.30	0	0	0	0	0	06.0	1.00			TIME	-	0.0	0.10	F 0.20	0	0	N 0.50	,	2 0	0	1.00		0.0	0.10	0.20	0	0	T 0.50	0	0	0	06.0	1.00	

 $\alpha m \vdash \supset \alpha z$ 

The sample   The	MOVED	700	0.0	0.20	0.31	64.0	0.59	0.17	0.89	0.92	56.0	16.0	0.0	0-25	05-0	25.0	0-41	0.46	64.0	0.59	0.63	0.65	69.0			7	0	0.15	0.29	0.40	0.53	0.71	0.92	1.20	1.25	1.55	00.1	0.0	1.03	1.17	1.27	1.36	1.48	1.54	1.64	1.76	. 0 .
THE SAMPLE ("	ISTANC	INCR	. 0	-	-	7	7.	7		0	0	0	0-0	2	0	0	0	0	0	7	0	0	0		TATANC	O C N	0	0.15	0.14	0.11	0.13	0.18	0.21	0.28	0.15	61.0	64.0	0.0	1.03	0.14	0-10	60-0	0.12	20.0	0.10	0.12	0
THE SAMPLE (		n c	ח ת	3	3	3	3	n	m	m	n	3	13.49												(	95 PCT	22.10	21.74	21.63	21.58	21.61	21.62	21.52	21.49	21.49	14.12	10077	.3	8	6.	8	6	-	7.	2.	2.	•
THE SAMPLE ("	10	S PCT	9.32	9.34	9.32	9.34	9.35	9.33	9.33	9.33	9.35	9.36	9.36	9.41	9.43	9.45	9.45	9.44	9.45	9.42	9.45	9.41	9.35		0	5 P	18.85	19.05	19.04	19.11	19.10	19.08	19.10	19.05	18.94	18.85	•										
THE SAMPLE (" CU-CRDINATE "   CU-CRDINATE "    1 5125   19-99   0.36   18-75   21-20   5-44   0.65   6-15   0.65   0.65    2 5 19-99   0.30   18-75   21-20   5-44   0.65   0.65   0.65    2 6 19-96   0.30   18-75   21-30   5-55   0.65   0.64   4-15   7-22    2 6 19-96   0.30   18-75   21-75   5-55   0.65   4-15   7-22    2 7 19-75   19-31   1.02   18-45   21-75   5-55   0.64   4-15   7-22    2 8 19-75   19-35   1.02   18-45   21-75   5-55   0.64   4-15   7-22    2 9 19-75   19-35   1.02   18-45   21-75   5-55   0.65   4-15   7-22    2 9 19-75   19-35   1.02   18-45   21-75   0.65   4-15   7-15    2 9 19-75   19-75   0.35   18-55   21-20   5-55   0.65   4-15   7-15    2 9 19-75   0.75   18-65   21-20   5-75   0.65   4-15   7-15    2 9 19-75   0.75   18-65   21-15   5-55   0.65   4-15   7-15    2 9 19-75   0.75   18-65   21-15   5-55   0.65   4-15   7-15    2 9 19-75   0.75   18-65   21-15   5-55   0.65   4-15   7-15    2 9 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 9 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-55   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-15   0.65   4-15   7-15    2 19-75   0.75   18-75   21-15   5-15   0.65   4-15   7-15    2 19-75   0.75   0.75   0.75   0.75   0.75   0.65   0.75    2 19-75   0.75   0.75   0.75   0.75   0.75   0.75    2 19-75   0.75   0.75   0.75   0.75   0.75   0.75    2 19-75   0.75   0.75   0.75   0.75   0.75   0.75    2 19-75   0.75   0.75   0.75   0.75   0.75   0.75    2 19-75   0.75	- C0-08	SE	1.23	1.24	1.31	1.32	1.32	1.27	1.28	1.27	1.27	1.26	1.26	1.20	1.20	1.19	1.16	1.17	1.18	1.16	1.15	1.18	1.22			SE	0.99	0.82	0.79	0.75	0.76	0.17	0.74	0.75	0.0	700		0.19	1.06	1.03	0.98	1.00	1.04	1.03	1.01	1.03	
TIME SAMPLE (	7)	11.35	11.34	11.37	11.47	11.50	11.51	11.42	11.42	11.42	11.43	11.43	11.43	11.39	11.41	11.39	11.36	m	m	m	m	m	~		()	MEAN	20.48	20.43	20.33	20.35	20.36	20.35	20.31	20.26	17.07	20.13		20.06	20.38	20.21	20.57	20.33	20.45	20.50	20.57	20.55	
TIME SAMPLE ("	1	0 0	0.0	1		-	- 1	- 1		_		_	7.16	7.06	7.10	7.07	7.04	7.06	7.06	6 . 86	6.82	6 . 83	6.83	( 23)	(	95 PCT	8.57	8.49	8 . 50	8.26	8.13	8.11	8.08	8.05	80.0	0.10		8.29	8.57	8.56	8.52	8.51	8.57	8.66	8.74	8.73	
TIME SAMPLE (X - CU-ORDINATE	DINATE	5 PCI	4.11	4.03	4.13	4.06	3.69	4.17	17.4	4.27	4.32	4.33	4.33	4.06	4.06	4-12	4.15	4.15	4.13	4.18	4.15	4.12	4.06	NTER	DINATE-	5 PCT	6.08	6.02	5.87	5.89	5.82	5.76	5.84	5.91	200	6.13		6.13	5.78	5.74	5.78	5.19	5.77	5.76	5.78	5.88	-
TIME SAMPLE (x - CU-ORDINATE	0	1 .																						LDER CE	- CO-OR	SE	0.76	0.75	0.80	0.72	0.10	0.71	0.68	0.00	0.00	0.0											
TIME SAMPLE (x - CU-ORDINAFE	٨)	MEAN 5.44	5.51	5.63	2.61	5.54	75.41	00.0	60.0	5.70	20.16	5.15	5.75	5.56	5.58	5.59	5.60	5.60	5.60	5.52	5.49	5.48	5.44	7	١)	MEAN	7.33	7.25	7.18	7.08	6.97	6.94	96.9	86.98	1.00	7.21		7.21	1.18	7.15	7.15	7.15	7.17	7.21	7.26	7.30	
TIME SAMPLE ( x - CU-GRDI COLO 25 19.98 0.80 1.00 0.10 0.50 0.70 0.90 0.90 0.90 0.90 0.90 0.90 0.9	1	21.20	21.30	21.43	74.17	21.48	21.19	21.30	21.30	21.28	77.50	21.21	21.21	21.08	21.12	21.11	21.13	21.18	21.19	21.20	21.18	21.19	21.20	×		95 PCT	2.46	2.19	2.05	2.08	2.19	2.40	2.50	2.00	2 000	3.17		3.17	1.94	1.97	1.74	1.94	2.00	2.06	1.98	2.13	
TIME SAMPLE (x - CU-0  1		18.78	18.67	18.49	18-40	18.14	11.00	77.81	14.81	18.54	18.03	18.65												J	DIN	5 PCT	0	0	0	0	0	-0.53	-0.22	0.18	1000	0.36		0.36	14.0-	-0-58	11.0-	-0.83	-0.93	-1.00	-0.82	-0.14	
TIME SAMPLE (	0-02	0.74	0.80	0.90	\$ 0.0	70.1	1.60	000	000	0.83	0	0.78	0.78	0.80	0.19	0.76	0.74	74.0	0.74	0.75	0.72	0.72	0.74		0-03	SE	96.0	0.86	0.84	0.85	0.87	0.89	0.83	0.00		0.86		0.86	47.00	0. 78	18.0	0.85	0.89	0.93	0.85	0.87	000
11ME SAMP  11ME SAMP  11000 1000 1000 1000 1000 1000 1000 1	-	9 1	6	6										6	.6	.6	. 6	6	6	6	0	0	6		:	AN	0.89	0.78	0.68	0.68	0.76	0.94	1.14	14.1	1.77	1.77											
F 00000000 000000000000000000000000000	AMP	171	25	26	17	17	17	26	200	07	07	97	26	25	25	25	25	25	52	54	25	52	52		AMPL	12E,	21	21	21	21	21	21	21	12	21	21		21	17	17	17	17	21	21	21	21	-
	TIME	0.0	0.1	0.5	0 0	2 0	0 0	0 0		000		2	0.0	7.	0.2	0.3	4.0	0.5	0.6	0.7	0.8	6.	0		TIME	_	0	0.1	0.5	0	4.0	0	9 0		0 0	0		0.		0.5	0.0	4.0	0.5	0	0.	0.8	C

TOX M A KO

 $\alpha m \vdash \supset \alpha z$ 

TOXX4X0

 $\alpha \sqcup \vdash \supset \alpha Z$ 

OVED	COM	0	• 93	. 85	500	66.	10.	100	6.4	77	6.02		0	04.	66.	• 56	.11	17.	• 30	.19	.12	6.30	*			OVED	700	9,6	2.43	40	.27	.21	*6.	.93	.57	06.	.11	0	.72	.56	.38	44.	.68	7.81	14.	.03	
7	2										9															x																					
DISTANC	IN	0	6.	. 3		\$ 1	0 1		, 4	, "	0.30		0.0	2.40	0.59	0.57	0.55	0.60	0.59	0.49	0.34	0.18	1.0			DISTANCE	INCH	, c	1.20	1.62	1.23	0.93	0.73	66.0	0.64	0.33	0.21	0.0	2.72	0.85	0.81	1.06	1.24	1.13	3.66	0.56	
	95 PCT	14.71	14.07	13.70	12 27	12 20	13.23	13.13	12.98	12.81	12.68		17.68	15.51	12.70	13.04	13.48	13.97	81.41	14.45	14.68	14.78	1104			(	129 66	13.70	14.65	14.90	15.08	14.77	14.60	14.03	13.71	13.08	13.09	13.09	15.58	14.28	14.53	15.08	15.43	15.75	15.56	14.98	
0	L.	8.95	9.57	60.0	0.00	90	000	8.88	B. 74	8-62	8.48		0	9.11	9.13	11.6	77.6	9.34	60.6	9.89	46.6	06.6	7.01			DIVATE	2 7	11.01	12.31	12.58	12.58	12.34	11.89	11.51	11.11	11.00	60.11	11.09	10.53	11.62	11.85	11.83	11.76	11.54	11.52	11.54	
- CO-OR	SE	1.46	1.37	1.40	1 20	1.20	1.29	1.30	1.29	1.28	1.28		87.1	1.04	1.09	1.18	1.30	1041	1.37	1.39	1.44	1.49	•			3	200	0.01	0.71	0.71	0.76	0.74	0.83	0.17	6.0	***	10.0	0.61	1.54	0.81	0.82	66.0	1.12	1.28	1.23	1.05	
7)	MEAN	12.31	11.82	11.24	11.20	11.17	11.11	11.01	10.86	10.72	10.58	0	00.00	10.81	16.01	77.71	11 6	11 02	17 17	17.71	12.31	12.34				7	12 43	13. 12	13.48	13.74	13.83	13.56	13.24	12.11	14.71	12 20	60.31	12.39	13.35	12.95	13.19	13.46	13.59	13.64	13.54	13.26	
(	95 PCT	13.15	11 03	11.28	10.61	10.02	9.45	8.97	8.57	8.05	7.63	1 63	600	10.01	10.11	07.11	00.11	12 67	13.04	13.00	13.18	13.15		27)		, u	1 62	4 C	10.86	9	8.57	7.39	5.93	01.0	20.03	70. 7	2	90.	.27	.32	.79	69.6	1.08	11.86	1.84	1.72	
INATE	5 PCT	10.49	60.6	7-86	7-72	7.33	6.80	6.39	6.01	6.01	5.91	10	76.07	100	200	000	07.0	0.00	110	60.0	10.26	10-49		2		S DCT	200	8 33	6.30	4-14	3.02	2.52	2.99	17.7	14.1	203	000	2.03	1.80	2.29	3.35	4.50	5.49	6.75	1.96	8 . 82	
- CO-OR	SE	0.81	28.0	1.04	0.88	0.82	0.81	0.79	0.78	0.62	0.52	62	200		11.1	80	90	200	400	000	000	0.81		ST CENTER		רטייט יי	0.59	0.79	1.39	1.38	1.69	1.48	06.00		0.78	0.62		0.62	1.67	1.84	1.66	1.58	1.70	1.56	1.18	0.88	1
١	MEAN	11.82	10.25	9.57	9-17	8.67	8.13	7.68	7.29	7.03	6.77	4.77		100	0000	0 01	10.42	10.92	11.33	11.60	11.72	11.82		- LT WRIS	>	MANA	10-66	9.63	8.58	7.00	5.79	4.96	4.40	2.22	3.14	3.05		3.05	4.53	5.30	10.9	7.10	8.28	9.31	0.00	17.01	
[	95 PCT	6.86	6.81	6.98	7.13	7.47	7.85	8.16	8.36	8.20	8.12	8.12	7.25	700	4.47	4.4	6.65	6.70	64.40	4.69	6.75	6.86		LANDMARK -		95 PCT	16.56	16.25	16.06	15.65	15.50	15.69	10.14	16.69	16-74	16-63		16.63	15.72	15.13	14.84	15.04	15.60	15.94	17.47	76.91	
DINATE	5 PCT	4.21	3.61	3.50	3.70	4-10	4.60	5.03	5.44	5.74	2.96	5.96	3.36	000	3.23	3.15	3-07	3.31	3.50	3.86	4.05	4-21		7	TNATE	5 PCT	13.73	13.37	12.85	12.76	12.50	12.93	13.35	14.10	14.49	14.93		14.93	11.73	11.64	11.70	11.49	11.63	12.24	12 03	76.77	
S.	SE	18.0	20.0	1.06	1.05	1.03	66.0	96.0	0.89	0.75	99.0	0.66	1.19		0	1.01	1.09	1.03	0.95	0.86	0.82	0.81			690-03 -		98	38	86	0.88	31	34	000	0	66	52		25	22	200	96	200	17	1.13	20	5	
1	I .	5.53	5	2	5	5	•	9	9	9	-	7.04	5.30	000	4 85	4.82	4.86	5.01	5-14	5.27	5.40	5.53			>	Z	15.15	14.81	14.46	14.21	14.00	14-31	15.14	15.39	15.62	15.78		00			2 .	0 6		14.09	: 4	;	u
SAMPLE	SIZE,N	12	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	. 12			SAMPLE	SIZEON	14	14	14	15	91	11	7	16	15	15		61	77	77	* u	24	01	4 -	14	-	1
TIME	- 0	0.0	0.20	0.30	0.40	0.50	0.60	0.10	0.80	06.0	1.00	0.0	-			4	5	9	-	89	6	1.00					0.	-	0.50	e.	4	0		8	6	0	(	? -	-,	,,	000	. "		00.00	- 00	0	C

TOKMARO

DATA FOR 30° BACK ANGLE CONFIGURATION

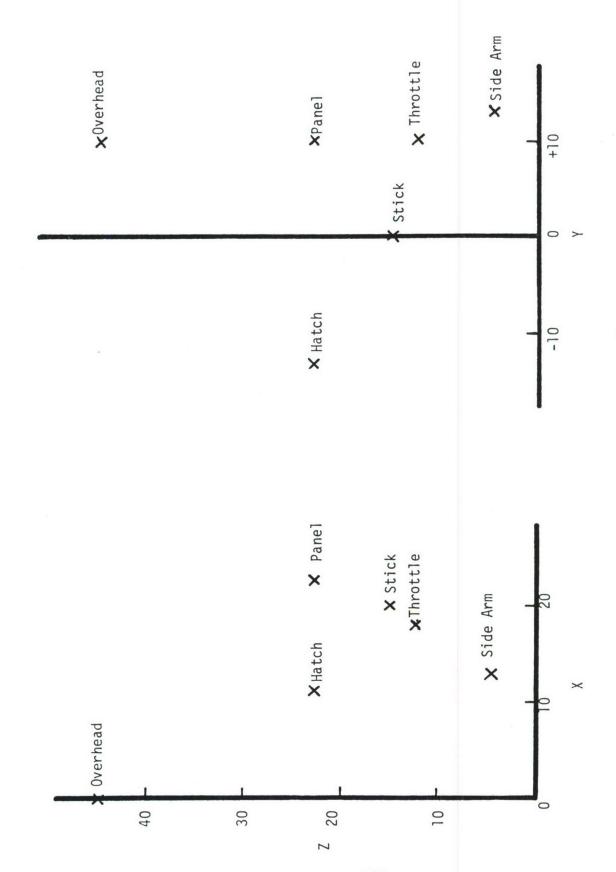


Fig. A-25. Controller Locations for 30° Back Rest Angle

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 to Over-Head controller at 0.0, +10.0, +45.0 and returns. This movement is preceded by left hand moving from Throttle controller at +18.0, +10.0, +12.4 to Stick controller and is followed by left hand returning back to Stick controller.

MUTICN NUMBER - 11130 BACK ANGLE - 30

SUB-MOVEMENT	1 1 1 1	TIME DA	T A	1 1	
	MEAN	MEAN STU DEV RANGE	RANGE	NGE	
RGHT FWD	1.04	0.18	0.90 TO 1.30 SECS.	1.30	SECS.
RGHT REV	96.0	0.10	0.80 TO 1.10 SECS.	1.10	SECS.

						LANDMARK	- NASION		J	1)			
	TIME	SAMPLE	X)	0-00 -	x - CO-ORDINATE	-	()	0-00 -	9	()	7)	- C3-08	DINATE
			MEAN	SE	5 PCT	95 PCT	MEAN	SE		95 PCT	MEAN	SE	,
	0.0		0.62	1.23	-1.41		99.0	1.34		2.85	28.07	1.29	25.95
	01.0		04.0-	1+ -1	-2.12		41.0	0.57		1.07	28.32	1.90	25.80
_ 0	02.0	- 1	-1.33	1.31	-3.47		0.19	0.85		2.14	29.45	2.00	26.16
0	05.00		-2.50	1.32	19.4-		1.47	0.73		2.60	29.35	1.53	27.44
x :	04.0		-3.16	1.14	-5.63		2.14	0.68		3.26	30.21	1.27	28.12
R .	0000		41.4-	1.13	-6.55		2.95	0.80		4.27	33.20	1.31	28.11
4	0.00		-5.37	1.22	-7.37		3.53	0.79		48.4	30.16	1.22	28.16
× 1	0.00		-5.81	1.34	-8.01		4.10	0.89		5.56	30.12	1,35	27.91
0	0.80		-6.37	1.48	-8.50		4.67	1.20		6.63	29.39	1.32	27.84
	06.0		-6.17	1.58	-8.76		5.30	1.40		7.59	29.31	1.40	27.61
	1.00		-6.13	1.56	-8.69	-3.57	96 • 9	1.50	3.49	8.42	29.83	1.39	27.52
	0.0		-6.13	1.56	-8.69		5.96	1.50	3.40	6.42	20 00	1 20	27 63
	0.10		-4.09	1.81	-7.05	-1.12	5-28	1 55	2.74	7 82	20.00	1 71	26.12
	0.20		-3.29	2.03	-6.61	0-03	4.77	. 30	2 41	200	01.00	4	50.07
œ	0.30	7	-2.62	1.88	-5.71	0-47	4-05	1 25	1 84	6 27	20.00	1001	90.00
ш	0.40		-1.81	1.75	-4-68	1.05	3.73	1000	1000	17.0	70.07	71.1	20.00
-	0.50		-1.10	1.72	-3.92	1-72	3-16	1 49	0.72	0 0 0	20.03	1.00	07.07
>	09.0		-0.56	1.22	-2.56	1.64	2 6 6	1 25	7 - 0		11.07	7.40	20.33
œ	0.70		60-0-	1-17	-2.01	1 84	7.00	10.1	1.0	· · ·	TC - 87	7007	42.97
Z	0.80		25.0		-1 47	2 1 2	1001	10 07	10.01	3.48	24.87	1.52	52.99
	06.0		0.57	1.20	07-1-	2 54	0.00	1707	50.0-	3.32	28.23	1.43	25.94
	1.00		640	1 23	7.	40.04	76.0	4.65	71.1-	16.7	58.82	1.33	26.05
			20.0	67.1	74 - 7 -	40.7	0000	1.34	-1.54	2.85	28.37	1.29	25.95
					7	ANDMARK	- CERVICALE	4LE	_	2)			
	TIME	SAMPLE	X)	- 60-0	RDINATE		Y)	- C 0-0B	DINATE		1	00-0	
	_	SIZEON	MEAN	H V		95 PCT	MEA	0 4	E OCT	10000	7	4	DIANIE
	0.0	7	-6.45	0.67	-7.55	15.25	0 76	36	17 25	200	200	SE	2 20.
	0.0	7	-6.83	0.60	-7-81	15.86	0 0	200	10.00	3.87	16.17	1024	19.53
	0.20	7	-6.89	24.0	-7.64	14 15	000	000	70.0	06.1	00.17	0+0	17.67
	0.30	1	-7-13	4	-7.92	75.4-		7001	0.00	55.0	16.17	1.46	11.61
	0.40	7	-7.47	0.51	-8.30	16.63	0 -	24.	11.10	0.00	06.17	1.38	19.25
	0.50	7	-7.90	000	0 0 0	000	7.50	100	70.1-	3 - 50	C+ • 17	1.31	19.50
	0.00	7	-7.90	000	0 0	. 41	1 73	74.7	06.00	3.63	14.17	1001	66.87
2	0.70	7	-8-17	0.00	10.63	16 73	Le. C	10 01	10.43	3.88	21.58	1041	19.36
	0.80	7	-8-31	1.63	-10.93	15.40	7000	1 22	0000	3.03	51.85	1040	74.67
	06.0	7	-8.37	1.55	-10.92	-5-83	2.84	240	60.0	7.5	21 7 4	1.00	10.03
	1.00	1	-8.50	1.57	-11.07	-5.93	3.29	2.02	02 -0-03	2.50	21.75	1 0 1	70.07
											6	1001	40013
	0.0	7	-8.50	1.57	-11.07	-5.93	3.29	2.02	-0.03	19.9	21.75	1.81	18.79
	01.0	- 1	-8.25	1.38	-10.52	-5.99	3.36	1.57	0.78	5.94	21.98	1.82	18.99
	07.0	- 1	-8.15	1.47	-10.56	-5.74	3.15	1.55	19.0	5.68	24.73	1.69	18.96
× .	0000	- 1	-8.05	1.09	-9.81	-6.23	2.93	1.53	0.41	5.44	21.58	1.64	68.81
ш і	04.0	-	-7.63	1.01	-9.23	-5.97	5.59	1.57	10.0	5.16	21.64	1.43	19.29
-	0.50	-	-7.18	1.06	-8.91	-5.44	2.21	1.51	-0.20	69.4	21.81	1.30	19.61
2	09.0	7	-7.00	0.92	-8.50	5	1.56	1.60	-1.06	4.19	21.85	1.21	19.86
~	0.70	1	-6.74	0.77	-8.00	-5.48	1.30	1.65	-1.41	4.01	21.82	1.23	18.64
,	0.80	~ 1	-6.54	0.72	-7.73	-5.36	1.19	2.00	-2.09	4.48	21.50	1.23	99.6T
	06.0	- 1	-6.45	0.75	-7.70	-5.20	0.79	1.83	-2.21	3.73	21.54	1.18	19.71
	1.00	1	-6.45	19.0	-7.55	-5.35	0.76	1.90	-2.35	3.87	21.57	1.24	19.53

MOVED CUM 0.0 1.42 2.67 4.11 5.55 6.84 7.73 9.05 9.05

95 PCT 30.19 32.04 32.04 32.47 32.47 32.41 32.34 32.35 32.37

20.00 20.00

0.00 11.00 10.00 1

32.07 32.27 32.11 31.63 31.41 31.19 30.98 30.98 30.64 30.19

24.72 24.97 24.51 24.51 24.26 23.94 23.83 23.83 23.83 23.61

DISTANCE INCR 1 NCR 200.00 00.

23.70 23.70 23.70 23.70 23.70 23.70 24.29 24.29 24.29

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STANCE MOVED	200											0.49 4.70									0.25 3.99								0.53															1.31 6.23	
210 1																										018																			
F												9 23.35									7 22.15					-			22.81											4 .	9 (	V .	4 1	<b>v</b> n	4
JAC												19.79				-	_	7	-	7	19.27	-	-			3			18.01									22.23							
03 - 7-	, L			1.09									1.08	1.03	1.09	1.08	0.91	0.71	0.71	0.17	0.88	0.85	0.80		,	-07 - 7.	1 1 1	1 3 8	1.46	1.60	1.67	1.83	1.74	1.7	1.34	0		1.19	1.30	1.44	1.20	1. 35	1 27	1.30	1 1
()	MEAN	20-56	20-53	20.10	23.74	20.85	20.97	21.17	21.45	21.50	21.46	21.57	21.57	21.50	21.27	21.13	21.37	20.88	20.82	20.32	23.71	20.53	23.50			7 4 4 7	20.40	20-19	20.41	20.73	21.34	22.14	22.38	22 7	24.01	24.18		24.18	20.47	23	22.75	22.13	21.50	21.15	37.00
[	35 PC1	4.18	2.47	3.05	3.50	3.50	3.99	4.01	3.78	4.35	5.82	69.9	69.9	6.34	5.74	5.45	5.18	4.61	4.23	4.22	4.56	4.55	87.4	( 4 )		0 % DC T	14.95	-7.33	-7.08	-6.58	-5.63	62.4-	-3.85	-1 04	3.07	1.12		1.12	0.65	0.00	10	-3.24	-3.95	-4.57	77 77
RD INATE-	5 PCT	-2.63	-1.26	-1.53	-1.56	-1.16	-0.91	-0.03	0.54	0.91	0.98	1.15	1.15	0.43	0.07	-0.22	-0.65	-0.85	-1.49	-1.87	-2.64	49.7-	-2.03		TAM CO	5 PCT	19.86	-8.34	-7.82	-7.69	-7.46	69.9-	26.47	20.4-	-3.78	60.4-		60.4-	76.4-	74.41	-7.31	-8.02	-8-81	-9.23	0
Y - CO-0	SE	2.08	1.14	1.40	1.54	1.42	1.49	1.23	0.99	1.05	1.48	1.66	1.66	¥ . 80	1.73	1.73	1.77	7.65	1.14	1.86	2.20	2.50	80.7	RT ACROMION		0.00	1.50	0.31	0.23 -	0.34	0.56	0.58	0.04	1.05	1.17	1.59		1.59	1.49	1.78	1.05	1.46	1.48	1.42	1 - 44
				0.77									3.87	3.39	2.91	2.61	2.26	1.89	1.36	1.17	0.00	77.0		- RT ACR	>	MEAN	-7.40	-7.83	-7.45	-7-14	-6.55	-2.14	14.90	-2-78	-1.85	-1.48		15.40	-2.98	-3.46	-4-61	-5.63	-6.38	-6.90	-7.13
[	95 PCT	1.55	1.43	66.0	0.57	0.29	-0.36	-0-66	-1.40	-1.92	-2.09	-5.65	-2.65	-1.36	-0.78	-0.70	-0.36	0.37	16.0	60.1	1.37	1.55	000	ANDMARK		95 PCT	-1.91	-3.40	-3.84	-3.95	14.47	14. (3	15.27	-5.81	-5.62	-6.03	,	15.64	14.95	-4-77	-3.84	-3.24	-2.98	-2.12	-2.01
CO-ORDINATE-	5 PCT	-4.76	-5.61	-5.42	-5.33	-5.67	-5.75	-5.77	-5.53	-5.69	-5.83	-5.43	-5.43	-5.91	-5.61	-5.85	-5.66	-5.28	***	14.8	-4-67	-4.76		-	DINATE	5 PCT	-5.18	-6.28	-6.42	-6.72	-7.55	10.22	-10-2H	-10.14	-10.45	19.6-	17	-11-30	-11.29	-10.42	-8.82	-7.61	-5.89	-5.23	-5.36
0-00 -	SE	1.92	2.15	1.95	1.80	1.82	1.64	1.56	47-7	1.15	1-14	0.85	0.85				•			•	1.84				- CO-OR	SE	000	.88	0.19	. 85	46.	17.	53	32	141	11	:	1.63	. 93	. 72	. 51	. 33	.89	. 95	.02
_	1	7	-2	-2.22	7	7	ח ר	י ה	ני ני	ין	ני י	1	-4.04	-3.64	-3.20	-3.28	-3.01	C+•7-	7.7	100	-1.65	-1.61			X)		-3.54	-4·8¢	-5.13	-5.34	-6.01	-7.15	-7-78	-7.98	-8.03	-7.85	-7 56	-8-32	7	5	6.3	5.4	4.	3.6	9
SAMPLE	SIZE,N	7	7	7	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	7	1	7	7	- 1	- 1	- 1	- 1	. ~	7			SAMPLE	SIZE,N	٥	٥	9	٥.	9 4	0 0	0 0	9	٥	9	4	0	9	0	9	9	9	9	9
T I ME	-	0.0	0.10	0.50	0.30	0 40	000	00.0		000	06.0	1.00	0.0	0.10	0.50	0.30	04.0	000	100	0.80	0.00	1.00			TIME	_	0.0	01.0	0.50	00.00	0 0	000	0.10	0.80	06.0	1.00	0.0	01.0	0.20	0.30	0.40	0.50	09.0	01.0	08.0

	MOVED	500	1.84	3.62	15.38	23.59	30.71	36.02	39.29	41.19	42.27	0.0	3.42	8.45	14.74	22.84	31.15	37.14	40.36	41.16	41.33	41.51		MOVED	CUM	0.0	0.11	0.18	0.59	55.0	0.58	200	0.03		1.31	0	0.50	0.36	0.65	1.11	1.61	1.72	1.86	2.08	2.28	2.40
	DISTANCE	0.0	1.84	1.78	7.18	8.21	7.12	5.30	3.28	1.90	1.08	0.0	3.42	0	7.	7.		6.	.2	1.	7	7		DISTANCE	INCR	0.0	0.11	10.0	0.11	0.15	0.14	0.12	0.13	0.00	0.50		0.20	0.16	67.0	95.0	0.50	0.11	0.14	0.21	0.50	0.11
	1	14.72	2	8 4	4	8	0	2	4	5	45.07	45.07	46.44	43.46	41.87	38.10	30.86	22.75	16.63	15.12	14.99	14.72		0 (	95 PCT	4.63	4.66	4.53	4.56	64.4	4.67	4.58	70.4	4.56	4.75	37 4	4.65	4.59	4.57	4-61	4.64	4.56	4.55	4.53	69.4	4.63
	DINATE	12.80	12.40	12.54	17.59	25.45	32.43	37.67	40.82	42.38	43.22	43.22	38.24	33.16	26.99	20.19	14.38	11.70	12.01	12.48	12.54	12.80		DINATE	5 PCT	2.75	2.74	2.77	2.57	2.66	2.70	2.72	18.7	2000	2.82	2 83	2.78	2.82	2.68	2.66	2.72	2.68	2.71	2.69	2.74	2.75
	~	0.58	1.03	1.88	5.13	4.05	2.61	1.47	1.03	0.91	0.57	0.57	2.04	3.14	4.54	5.46	5.02	3.37	1.41	0.81	0.75	0.58		2	SE	0.57	0.58	0.54	0.61	0.56	0.60	0.57	0.00	4.4	0.59	0	0.57	0.54	0.57	0.59	0.58	0.57	0.56	0.56	0.59	0.57
	7)	13.76	14.39	15.62	26.30	32.10	36.71	40.08	42.51	43.88	41.44	47.44	41.59	38.34	34.43	29.14	22.62	17.22	14.34	13.80	13.77	13.76		7)	MAN	3.69	3.70	3.65	3.57	3.58	3.59	3.65	3.11	700	3.78		3.7.0	3.71	3.63	3.54	3.58	3-62	3.63	3.51	3.74	3.69
16)	[	-0.53	-2.05	-2.18	0.88	3.38	5.77	7.70	6:38	10.28	11.08	11.08	10.95	8.21	4.70	90.0	-1.83	-1.87	-1.41	-1.16	-0.87	-0.53	181	(	95 PCT	-5.83	-5.84	-5.78	10.9-	-5.74	-5.77	-5.75	17.50	10.00	-5.19	01 3	-5.51	-5.46	-5.74	-5.14	-6.19	-6.04	-5.94	-5.70	-5.93	-5.83
_	RD INATE	-2.52	-3.81	-4.25	-4.89	-2.44	1.40	5.12	7.49	8.80	9.27	9.27	5.18	1.20	-1.53	-2.54	-4.23	11.4-	-3.44	-2.57	-2.53	-2.52	J	ORD INATE	5 PCT	-8.80	-8.90	-8.92	-8.70	-9.05	+0.6-	-8.94	87.6-	01.61	-9.32	0	-9.25	100	-9-26	04-6-	-9-01	-9-24	60.6-	10.6-	-8.8J	-8.80
P CENTER		0.61	0.54	0.63	1.76	1.17	1.33	0.79	0.58	0.45	0.55	0.55	1.76	2.14	1.90	0.79	0.73	0.88	0.62	0.43	C-50	0.61	RT TROCHANTER	-03 -	SE	0.00	0.93	0.95	0.84	1.00	1.00	16.0	1.00	00-	1.26	76 (	1.14	1.07	1.07	1 - 30	0.86	0.97	0.96	1.01	0.83	ŭ. 90
- RT GRI	١)	-1.52	-2.93	-3.22	-2.00	74.0	3.59	6.41	8.44	9.54	10.17	10.17	8.07	4.70	1.59	-1.24	-3.03	-3.32	-2.42	-1.86	-1.70	-1.52	- RI TRG	١)	MEAN	-7.32	-7.37	-7.35	-7.38	-7.38	-7.41	-7.35	1.43	74.1-	-7.26	7 2	-7.38	-7.22	-7.50	-7-27	-7-60	-7.64	-7.52	-7.36	-7.37	-7.32
ANDMARK	(	19.58	19.16	18.84	17.91	13.25	6.54	19.1	0.11	0.62	1.36	1.36	0.30	4.21	8.99	14.16	17.63	18.42	19.36	19.45	19.41	19.58	LANDMARK	1	9 5	S	5	5	5	4	2	2	ů 1	° 4	6.02	,	5.60	5.63	5. 79	4.76	5.20	5.54	5.41	5.18	5.41	5.69
_	10		7	-	4	1	•	1	1	1	1	-2.09	-2.17	-3.08	-0.19	5.54	11.73	16.11	17.31	17.66	17.61	17.41	_	~											1.53		1.66	1.64	1 36	1.60	1.90	1.72	1.71	1.65	1.77	1.69
	x - C0-0F	0.66	01.1	1.43	4.07	4.24	2.85	1.66	1.25	1.1	1.05	1.05	96.0	2.22	2.83	2.63	1.80	0.70	0.63	0.55	0.55	0.66		C-03 - X		1.22	0.90	1.17	10.1	0.94	10.1	1.02	1.05	71.7	1.37		1.20	1.22	1.35	96 0	1.01	11.16	1.13	1.08	1.11	1.22
	-	18.50										3	-1.23	.5	4.		0.	7.	8.3	. 5	8	8.5		)	MEAN	en.	3	m	m	m	m	m 1	י ניי	9 0	3.77		- 4	0 4	0 0	-		1 4	5.	3.42	5	3.69
	AMP	512E,N	1	7		7	7	7	7	9	9		7											SAMPLE	SIZEON	1	7	1	7	1	7	7	- 1			r	- 1	- 1	- 1	- 1	7	7	7	7	7	1
	TIME	0	0.10	F 0.20	0 0	0	0	0	0	06.0	1.00	0.0	0.10	0.20	0	0	2	0	0	N C.80	06.0	1.00		TIME	•			0	0	0	0	0			1.00		0		0 0	0 0	0	0	0	N 0.80	C	1.00

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	UVED	0.0	0.13	0.50	9.54	67.0	0.55	0.73	0.77	96.0	1.01	0.0	0.05	0.21	0.46	0.52	0.73	91.0	0.88	1.03	1.17	1.31		0460	NI C	0.0	1.43	1.84	2.38	3.54	5.31	7.25	90.6	0.33	75.1	90.7	0.0	1.25	2.86	19.4	6.28	7.67	8.84	9.31	9.83	96.6	0.21
	STANCE M	0 0 0 C										0.0	0.05	0.16	0.24	90.0	0.18	0.05	0.13	0.15	0.14	0.15		I STANCE M	a CV					1.16				٠,	٠,	-								0.47			7
	, ,	13.00	m	m	20 0	<b>~</b> ~	1 ~	1 (4)	<b>m</b>	<b>(</b> 10)	3	13.14	13.17	13.21	13.17	13.19	13.17	13.15	13.19	13.09	13.13	13.00		0	PCT	20.08	19.44	19.92	20.63	22.11	24.37	25.79	26.93	80.12	67.87	10.02	28.07	27.27	26.06	25.01	23.59	22.02	21.25	50.69	20.26	20.32	20.08
	RDINATE	9.79	9.82	9.86	18 . 6	90.06	9.91	9.85	9.84	9.86	68.6	9.89	9.80	9.72	99.6	9.71	9.79	9.79	9.73	9.71	9.76	61.6		DINATE		16.62	15.98	16.32	16.54	17.26	18.29	16.61	21.14	50 - 17	11.17	00 • 77	22.66	22.55	21.50	19.61	18.23	17.80	17.12	17.21	16.90	19.91	15.62
	- 60-03	0.98	1.01	0.96	200	0.96	0.96	0.99	0.99	1.03	66.0	0.99	1.03	1.07	1.07	1.06	1.03	1.02	1.05	1.03	1.03	0.98		- 60-03	S S	1.06	1.06	1.10	1.25	1.48	1.85	1.78	1.77	1001	1 65	1.00	1.65	1.44	1.39	1.65	1.64	1.29	1.26	1.06	7001	1:11	1.06
	1 1	11.39	11.48	11.43	11 62	11.51	11.49	11.47	11.40	11.55	11.52	11.52	11.48	11.47	11.41	11.45	11.48	11.47	11.46	11.40	11.44	11.39		()	MEAN	18.35	17.71	18.12	18.58	19.59	21.33	22.87	24.04	000+7	25 35	05.63	25.36	24.31	23.78	22.31	20.31	16.61	19.19	18.95	18.58	18.49	18.35
( 50)	(	-4.26	-4.17	-4.33	67.4-	-4-18	-4.00	-4.40	-4.39	-4.31	-4.35	-4.35	-4.24	-4-02	-4.08	-4.26	-4-08	-4.22	-4.13	-4.08	-4.23	-4.26	( 22 )	(	35 PCT	-5.41	-6.73	-6.63	-6.19	-5.87	-5.36	-4.19	-2.92	17.7-	0.00	0	0.35	-0.36	-0.69	-1.87	-3.03	-4.12	-4.73	-5.02	-5.32	-4.86	15.6-
	D INATE-	-6.81	-7.01	-6.73	16.00	76.9-	-7.29	-6.91	-6.84	-6.65	-6.55	-6.55	-6.74	-6.74	68.9-	-6.79	-7.32	-7.12	96.9-	-7.25	-7.11	-6.81	CENTER	DINATE	SE 5 PCT	-8.25	-7.86	-7.81	-7.72	-7.46	69.9-	-5.96	10.5-	60.61	97.6-	0	-3.48	-4.53	-6.14	-6.74	-7.23	-7.42	-8.12	-7.95	-8.14	14.8-	-8.25
E TOP	-Y - CO-ORD I	0.78	0.87	0.13		0.85	1.00	0.76	0.75	0.71	19.0	19.0	0.76	0.83	0.85	0.77	66.0	0.89	0.86	96 .0	0.88	0.18	RT SHOULDER CE	- 60-08	SE	0.87	0.34	0.36	0.47	64.0	0.41	0.54	0.65	12.0	1	11.7	1.17	1.27	1.66	1.49	1.28	10.1	1.02	0.89	0.86	1.10	0.87
- RT KNEE	۲)	-5.53	-5.59	-5.53	15. C	-5.57	-5.65	-5.65	-5.62	-5.48	-5.45	-5.45	-5.49	-5.38	-5.48	-5.53	-5.70	-5.67	-5.54	-5.66	-5.67	-5.53	- RT SHO	λ)	MEAN	-6.83	-7.30	-7.22	96.9-	-6.66	-6.02	-5.08	14.00	1000	-1.57		-1.57	-2.45	-3.42	-4.30	-5.13	-5.17	-6.45	-6.48	-6.13	-0.00	-0.83
LANDMARK	1 20 30	20.14	16.61	19.94	19.87	20.08	20.30	20.10	20.08	20.23	23.25	20.25	20.28	20.44	20.20	20.01	20.02	20.24	20.12	20.04	20.15	20.14	LANDMARK	(	95 PCT	0.71	-0.84	-1.18	-0.98	-0.94	-0.63	-1.31	-2.13	17.7	-3.24	7.64	-3.24	-2.05	-0.72	-0.64	-0.67	-0.29	-0.29	0.44	0.50	0.47	0.11
	101		-		4 -	4 ~	-		-	7	1	18.28	18.23	18.30	18.10	18.23	18.25	17.95	18.14	18.07	18.23	18.27		ADINATE-						-5.38							-8.24	-7.88	-8.02	- 7.42	-6.65	-5.59	-4.36	-4.27	-3.81	-3.61	14.00
	90-03 -	0.57	0.48	0.50	0.47	0.54	49.0	0.59	0.57	0.60	09.0	09.0	0.63	0.65	0.64	0.54	0.54	0.10	0.60	0.00	0.59	0.57		- 00-0	SE	1.45	1.23	1.04	1.21	1.35	1.57	1.59	19.1	1 0 0	1.52	30.4	1.52	1.78	2.23	2.07	1.82	1.62	1.24	1.43	10.1	1.25	1.45
	1		19	10	10	19	19	61	19	19	19	19.26	19.25	9	9	19.12	9	9	0	19.06	0	6		X)	EAN	-	~	2	~	-3.16	n	m·	<b>3</b> U	) u	) LC	1	-5.74	16.4-	-4.37	-4.03	-3.66	-2.94	-2.32	-1.91	-1.65	14.1-	10.1-
	SAMPLE	7	7		- 1		1	7	7	7	7	7	7	7	7	7	7	-	7	7	1	1		A	SIZE,N		9	7	7	7	7	- 1	- 1	- 1	7	•	7	7	7	1	- 1	-	- 1		- 1	- 1	
	TIME	0.0	0	F 0.20	0	0	0	0	0	06.0	1.00	0.0	0.10	0.2	0.3	E 0.40	0.5	9.0	0.7	0.8	6	0		TIME	-	0.0	0.10	3	0	K 0.40	0	0	3 0	0	000		0.0	0.10	2	0 :	2	0	0	S	0 0	06.0	00.1

	MOVED	100	2.41	2.71	4.31	13.28	18.89	23.92	27.54	29.70	30.48	0.0	4.25	9.05	4	9	3	2	9	27.13	-	_		MOVED	CUM	0.0	2.12	3.89	8.53	13.18	20.15	26.65	35.15	36.84	37.53	0.0	4.26	9.51	15.29	23.68	59.09	32.86	35.42	36.17	36.44	36.66
	DISTANCE	INCR	2.41	0.30	1.60	2000	5.61	5.03	3.61	2.16	0.78	0.0	4.25	4.81	5.25	5.23	3.75	2.13	1.22	0.50	01.0	0.23		DISTANCE	INCR		~	2	.+		2	2	3.31	0	6	0.0	4.26	5.26	5.78	8.39	5.45	3.77	2.55	0.75	17.0	0.22
	(	95 PCT	4	4 1		ed or	,	(4.)	4	u ı	41	35.07	35.19	33.83	30.71	26.16	21.34	17.54	15.39	14.59	74.52	14.13		] (	PCT	14.03	15.60	19.54	29.93	31.24	35.75	38.62	41.36	42.11	42.19	42.19	42.68	-	9	9	00	0	16.06	5	4	3
	DINATE	5 PCT	9.18	9.21	74.6	16.17	23.33	28.94	31.37	32.23	32.39	32.39	29.42	24.20	17.89	12.40	9.16	9.36	9.63	06.6	9.90	10.12		DINATE	5 PCT	12.15	11.73	10.84	9.24	16.32	23.12	11.67	38.15	39.65	40.18	40.18	33.91	27.59	21.87	12.23	11.34	11.45	11.63	15.00	11.94	12.15
	8	SE 1.22										0.82	1.76	2.94	3.91	4.19	3.53	5.49	1.76	1.43	1.39	1.22		- C0-0R	SE	0.57	1.18	2.65	6.31	4.55	3.85	2.12	0.98	0.75	0.61	0.61	2.67	4.36	5.32	7.35	5.10	2.87	1.35	0.79	0.19	0.57
	7)	12.13	11.93	12.39	13.04	22.51	27.60	31.25	32.95	33.62	33.73	33.73	32.30	29.31	24.30	19.28	15.55	13.45	15.51	12.24	17.54	12.13		7)	MEAN	13.09	13.56	15.19	19.58	23.78	29.43	34.10	39.75	40.33	61.14	61.14	38.30	34.75	33.59	24.29	19.70	16.16	13.84	13.29	13.63	13.39
241	(	95 PCT	14.9-	-6.87	96.91	10.00	-2.26	-0.73	1.09	3.01	4.38	4.38	1.51	-0-47	-2.60	-4.37	-5.07	-5.72	-5.35	11.4-	-4.58	-4.65	261	(	95 PCT	-1.65	-3.11	-3.47	-2.23	-0.33	1.94	19.4	7.65	8.81	9.45	9.42	8.38	6 . 85	2.95	-0.36	-1.03	-2.49	-2.16	-1.82	-1.67	-1.65
8	IN INATE	5 PCT	-8.59	-8.63	78.87	00.01	-7.80	-4-50	-1.63	0.03	0.21	0.21	-3.57	-6.32	-7.69	-8.38	-8-41	-7.66	-6.86	69.9-	-6.83	-6.38	8	RD INATE-	5 PCT	-3.34	06.4-	16.4-	-5.49	-5.43	-3.65	2 2	5.98	7.37	7.81	7.81	2.82	-1.78	-2.10	-4.19	19.9-	-5-43	09.4-	-4-03	-3.65	-3.34
	- CO-0B	SE 0.53	0.64	0.54	0.00	1.40	1.69	1.16	0.83	16.0	1.27		1.55										ST CENTER	- 00-09	SE	0.51	0.55	94.0	1.00	1.56	1.70	1.55	0.51	0.44	64.0	65.0	1.70	2.63	1.54	1.17	1.70	0.00	0.74	19.0	0.00	0.51
- RT ELBOW	١)	MEAN -5.51	-7.53	-7.75	1.30	-6-78	-5.03	-2.60	-0.27	1.52	2.29	2.29	-1.03	-3.39	-5.14	-6.37	-6.74	69.9-	-6.11	-5.70	11.6-	-5.51	- RT WRI	()	MEAN	-2.50	-4.01	-4.22	-3.86	-2.88	10.85	70.7	6.82	8.09	8.61	8.61	2.60	2.54	0.42	-2.28	-3.82	-3.96	-3.38	-2.92	-2.66	-2.50
ANDMARK	(	95 PCT	6.80	99.9	1.10	8.26	7.40	4.84	2.51	1.00	0.28	0.28	2.98	6.21	7.57	7.17	6.59	6.36	7.38	7.86	1.83	1.66	ANDMARK	(	95 PCT	16.28	15.86	15.88	16.96	14.63	11.58	b. /d	1.36	0.67	0.70	0.70	1.82	5.44	10.13	16.78	16.02	15.00	16.10	16.49	16.28	16.28
-	DINATE	5 PCT	3.18	3.06	3.20	2.10	-0.20	-2.65	-4.63	-5.13	-4.48	-4.48	-2.73	-0.79	0.81	2.86	4-10	4.16	4.18	64.4	7.40	4.93	_	DINATE-	5 PCT	14.42	12.09	10.37	6.38	5.16	1.10	-0.15	-3.84	-3.25	-2.65	-2.65	-2.13	66.0-	1.13	4.15	9.77	13.36	14.07	14-11	14.38	14.42
	- 00-04	SE 0.83	1.10	1.10	1 27	1.83	2.32	2.28	2.18	1.87	1.45	1.45	1.74	2.13	2.06	1.31	19.0	64.0	0. 19	1.03	0.83	0.83		0-0	ш	25	15	89	23	68	9 0	30	1.58	20	02	1.02	1.20	1.96	2.14	3.85	1.90	0.50	0.62	0.12	0.58	0.57
	X)	MEAN 6.30	4.39	4 . 80	77.0	5.18	3.60	1.10	-	-2.06	-2.10	-2.10	0.13	2.71	4.19	5.02	5.20	5.56	90.9	6.18	0.30	6.30		_	MEAN								-1.24			-0.97	-0.15	2.23	5.63	10.47	12.90	14.18	15.08	15.30	15.33	15.35
	SAMPLE	SIZE,N	7		- 1	1	7	7	7	7	7	7	7	7	7	7	7	7	- 1	~ r	- 1	1		SAMPLE	SIZE, N	7	7	7	7	_	- 1		7	7	1	7	7	7	1	7	7	- 1		- 1	-	,
	TIME	0 0	0	F U.20	0	0 0	0	0	0	06.0	1.00	0.0	0.10	0	0	0	0	09.00	0	0	06.0	1.60		TIME	_	0.0	0	0	0	0	0	5	0 0 0	2	1.00	0.0	01.0	0	0	0	0	0	R 0.70	0	06.0	1.00

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 to Over-Head controller AT 0.0, +10.0, +45.0 and returns. Left hand REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTICN NUMBER - 12130 BACK ANGLE - 30

SUB-MOVEMENT		TIME OATA			
	MEAN	STD DEV		RANGE	
RGHT FWD	16.0	0.10	0.80 TJ 1.13 SECS.	0 1.10	SECS.
RGHT REV	1.07	0.19	0.80 T	0.80 TJ 1.40 SECS.	SECS.

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CI	•
MVMT	

MOVED CUM 0.0 5.45 6.87 7.93 8.95 9.28	10.08 11.13 12.03 12.03 0.0 2.88 4.55 5.83 7.09 8.28	9.79 10.29 10.67	MOVED CUM 0.0 0.78 1.23 1.23 2.20 2.20 2.30 2.62 3.31 3.31 4.11	4.54 0.00 0.00 0.00 11.06 22.31 1.56 4.18 4.18
DISTANCE 1NCR 0.0 5.45 1.45 1.05 0.66 0.36	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.68 0.50 0.38 0.22	DISTANCE INCR 0.0 0.78 0.45 0.45 0.42 0.09 0.09	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
95 PCT 29.58 32.79 33.06 32.89 32.53 32.35 32.35 32.35	32.24 32.03 32.03 32.13 32.69 32.14 31.51 29.82	29.94 29.78 29.65 29.58	95 PCT 23.44 PCT 23.63 PCT 23.62 PCT 23.62 PCT 23.62 PCT 23.62 PCT 23.62 PCT 23.63 PCT	23.85 23.63 23.63 23.63 23.82 23.82 23.82 23.82 23.82
DINATE 5 PCT 24.30 27.02 27.35 27.65 27.65 27.65 27.82 27.82 27.72	27.95 27.90 28.01 26.17 25.16 25.55 25.33 25.09	24.76 24.64 24.49 24.30	5 PCT 19:39 19:39 19:39 19:39 19:38 19:19 19:19 19:38 19:32 19:32 19:60 19:60 19:60	19.58 19.78 19.78 19.71 19.25 19.56 19.56 19.54 19.39
- CO-ORD S 1 1.61 1.76 1.76 1.60 1.52 1.33	1.26 1.99 1.999 1.999 1.995 1.667	1.58	SE 11.23	1.30 1.30 1.30 1.30 1.30 1.30 1.22 1.25
HEAN 2694 2994 2994 30.27 30.22 30.18 30.18 30.18 30.18 30.18		27.35 27.21 27.07 26.34	HEAN 21-49 21-49 21-59 21-49 21-49 21-45 21-45 21-45 21-59 2	21.72 21.72 21.72 21.59 21.59 21.59 21.59 21.59 21.59 21.59
4.05 4.05 4.05 4.05 4.34 4.71 5.17 5.43	7.12 7.91 8.87 5.97 4.70 4.20 2.90 1.53	0.33 0.01 -0.21 -0.36	95 PCT 2.02 2.02 2.03 3.72 3.72 4.46 4.46 4.78 5.24	5.87 5.34 6.982 6.982 7.882 7.882 7.882 7.893 7.892 7.993 7.903 7.903 7.903 7.903 7.903 7.903 7.903 7.903 7.903 7.903 7.903 7.
RD INATE	1.10 1.14 1.79 0.71 -0.66 -1.55 -1.55	14.43	PD INATE	1.41
- CO-O SE 1.40 1.36 1.36 1.56	2.07 2.07 2.16 2.16 1.60 1.63 1.75 1.25 1.25	w	CC-ORD SE 10.19 10.02 11.15 11.17 11.17 11.49 11.39	1.36 1.38 1.33 1.33 1.33 1.34 1.39
- NASION FEAN -2.66 0.83 1.61 2.11 2.33 2.61 2.86 3.50	11.44 5.52 3.33 3.33 1.32 1.32 1.25	-1.83 -2.21 -2.50 -2.66	MEAN MEAN 0.07 0.07 0.07 1.27 1.82 1.71 1.71 1.71 2.01 2.93 2.93	3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
ANDWARK 2.41 2.41 -0.33 -1.50 -2.50 -3.47 -3.66	-4.23 -4.12 -6.12 -0.70 -0.29 0.07 1.15	1.86 2.25 2.47 2.41 2.41	95 PCT	
DINATE	-8.90 -8.90 -8.51 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97	-2.75 -2.55 -2.40 -2.15	DINATE - 9 15 PCT - 9	
- CO-OR SE 1.39 1.52 1.51 1.46 1.48	11.5922 1.5922 1.5932 1.5932 1.5932 1.5932 1.5932	1.41 1.46 1.49 1.39	SE 0-08 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.	1.001 1.003 1.003 1.001 1.001
MHEAN 00.13 00.13 00.13 00.20 00.20 00.20	773 372 372 373 373 75 75	13	MEAN NE AN N	
SAMPLE S12E, N 7 7 7 7 7 7			SAMPLE S12E,N 7 7 7 7 7 7 7	
TIME 0.10 0.10 0.20 0.20 0.40 0.50 0.50 0.70	004 0000000	0004	1 I I I I I I I I I I I I I I I I I I I	N N N N N N N N N N N N N N N N N N N

OVED	TO C	0.0	60.7	4.52	4.70	6.59	7.07	7.46	8.04	8.36	8.81	0.0	0.33	1.32	1.83	2.60	3.51	4.37	4.87	5.22	5.33	5.85		DVFD	1	0.0	0.86	1.84	2.64	3.69	4.86	6.01	7.70	8.32	8.74	0.0	0.57	1.47	2.65	4.18	5.53	09.9	1.29	7.87	R.26	0000
DISTANCE	NO.	0.0	60.1	0000	1.17	1.89	0.48	0.39	0.58	0.32	0.45	0.0	0.33	0.98	0.48	0.80	06.0	0.86	0.50	0.35	0.11	64.0		DISTANCE	•	0.0	0.86	0.98	0.80	1.05	1.17	1.15	0.75	0.62	0.45	0.0	0.57	16.0	1.17	1.53	1.36	1.06	0.69	0.58	0.39	
()	U i	7 (	v c	76-70	) -	m	(	m	6	(1)	m	ຕ	23.73	3	m	3	N	2	~	2	2	2		] (	S PCT	1	1.0	w	643	4	ווש	25.62	1 4	וטו	LL.	5	5	5	2	24.23	3	2	2	-	-	4
ROINATE	2000	18.93	14.64	17.86	15.25	16.61	20.07	20.42	20.35	20.40	20.29	20.29	20.24	19.70	19.56	19.16	19.16	19.35	19.09	18.99	19.11	18.93		ADINATE	,	17.38	17.49	18.00	18.37	19.19	19.98	20.19	22.11	22.50	55.90	22.90	22.35	21.22	20.68	19.76	19.05	18.78	18.29	17.78	17.36	2000
- 00-0R	SE			2.70	4.98	1.00	1.00	0.93	0.89	0.89	0.94	96.0	1.06	1.22	1.17	1.21	1.15	0.99	1.09	1.08	1.07	0.99		- CO-OR	SE	1.26	1.56	1.44	1.53	1.51	1.58	1 27	1.10	0.96	0.86	0.86	1.05	1.41	1.36	1.36	1.29	1.15	1.19	1.26	1.36	2004
7)	MEAN	21 - 2	21.17	22.28	23.42	21.55	21.71	21.94	21.31	21.85	21.83	21.83	21.38	21.70	21.48	21.14	21.05	20.38	20.87	20.16	20.36	20-35		7)	MEAN	19.44	20.35	20.37	20.87	21.56	22.56	23.62	23.31	24.38	24.32	24.34	24.38	23.53	22.31	22.33	21.17	20.57	20.24	19.34	19.59	
05 06 7	JA CK	7 50	200	3.96	4-14	4.41	16.4	5.20	6.23	6.57	6.64	49.9	5.98	5.12	4.75	4.63	4.27	3.21	2.90	5.29	1.79	1.53	( 4 )	(	95 PCT	-6.49	-7-11	-6.22	-5.92	-5.18	24.52	-3.11	-1.38	-0.79	0.02	0.02	-0.89	-1.20	-2.53	-3.59	-4-41	-5.08	-5.51	-5.53	-6.40	
RDINATE-	2	61.2-	200	-0.07	0.27	0.59	16.0	1.30	1.27	1.56	2.39	2.39	2.46	1.57	1.16	0.19	-1.11	-1.61	-2.12	-2.15	-1.73	-2.19		RD INATE-	5 PCT	69.6-	-8.50	-8.35	-7.94	-7.53	60.0-	87.0-	-5.12	-4.55	-4.71	-4-71	-4.55	-5.62	-6.20	-7.36	-8.51	-60 06-	-9.51	-10.04	-9.73	
Y - CO-ORDI	35	0.04	00	1.23	1.18	1.17	1.20	1.19	1.51	1.53	1.30	1.30	1.07	1.08	1.09	1.35	1.64	1.47	1.53	1.35	1.07	1.13	ACROM ION	-Y - CO-0RD I	SE	0.98	0.45	0.65	0.61	0.72	0.00	24.0	1.14	1.15	1.4	1.44	1.11	1.35	1.12	1.15	1.25	1.22	1.22	1.38	1.02	
1				1.94								4.51	4.22	3.34	2.95	2.41	1.58	0.80	0.39	0.01	0.03	-0.33	- RT ACRO	١)								13.89				-2.34	-2.72	-3.41	-4.36	-5.47	-6.46	-1.09	-7.51	11:1-	-8.06	
95 PCT	2000	-1.52	-1.72	-1.93	-1.95	-2.16	-2.41	-2.51	-2.75	-2.88	-2.79	-2.79	-2.75	-2.57	-2.24	-1.55	-1.01	-0.84	95.0-	-0.26	-0.39	-0-11	ANDMARK	(	95 PCT	-3.99	-4.66	-5.08	-5.37	-5.60	04.01	15.64	-5.88	-5.90	-5.46	-5.46	-6.36	-6.60	69.9-	-5.58	-4.98	-5.18	-4.91	04.4	-4-17	
S PCT	1 4 5	25.30	-5.52	-6.38	-6.63	19.9-	-6.66	-6.44	-6.74	-6.54	-6.52	-6.52	-6.48	-5.98	-5.95	-5.67	-5.53	-4.98	-4-83	-4.83	-4.73	-4.26	_	DINATE	5 PCT	-6.42	-6.82	-7.93	-8-66	-9.21	17.6	19.88 19.88	-10.29	-10.02	-10.21	-10.21	-10.02	-9.41	-8.70	-8.77	64.8-	-6.91	-6.51	-0.33	-6.38	
- C0-01	900	7 1 2	1.16	1.36	1.43	1.37	1.30	1.20	1.22	1.12	1.14	1.14	1.14	1.04	1.13	1.26	1.38	1.26	1.33	1.39	1.32	1.08		- 00-08	SE	0.74	99.0	0.87	1.00	1.10	1 25	1.29	1.34	1.26	1.45	1.45	1.12	0.86	0.61	0.97	1.07	0.53	0.49	60.0	0.67	,
MEAN	-2.40	-3.41	-3.62	-4.16	-4.29	-4.42	-4.54	-4.48	-4.75	-4.71	-4.66	-4.66	-4.61	-4.27	-4.10	-3.61	-3.27	-2.91	-2.65	-2.54	-4.56	-5.49		X)		-5.20	-5.74	-6.51	-1.02	14.1-	7 53	-7-76	-8.09	-7.96	-7.84	-	-8.19	8	-	-7.18	9	9	5	0	-5.27	
SAMPLE	7	7	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1	- 1	- 1	- 1	-		SAMPLE	SIZE,N	9	9	7	- 1	- 1	- 1	7	7	7	1	7	1	7	7	7	7	9	•	0	9	
IME		0.10	0.20	0.30	0.40	0.50	0.00	0.10	0.80	0.00	1.00	0.0	0.10	0.50	0.30	0.40	0.50	09.0	0.0	0.80	0.00	1.00		TIME	_	0.0	0.10	0.20	0.30	0 0	000	0.70	0.80	06.0	1.00	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.00	0.80	06.0	

ZNC-IMX OXPEXOT

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	MOVED	CUM	0.0	40.4	87.11	13.65	35.50	61.23	45.45	17.00	17.14	49.13		0.0	4.65	10.72	18.23	26.72	34.84	11.45	61.19	7-16	8-30	48.91			MOVED	CUM	0.0	0.46	09.0	0.82	1.01	1.09	1.19	1.60	1.80	2.11	2.71	0	5.4.5	12	1 0	1.07	1.00	67.7	1 67	100	100	46.7	20.7
	DISTANCE	INCR										0.58												0.52			111		0.0	0.46	0.14	0.22	0.19	0.08	0.10	0.41	0.19	0.31	09.0	0-0	0.45	0.26	0 - 1 3	0-18	41.0	200	700		1 40	40.00	11.0
			6.19	11.65	28.82	35.69	40.51	43.53	46-34	46.35	44.57	44.71		44.71	44.11	45.59	40.16	35.16	28.35	19.89	12.11	10.41	7.28	6.19				95 PCT	4.61	4.56	49.4	4.76	4.67	4.83	4.81	5.12	4.96	06.4	4.65	4.65	5.14	5.05	4.93	4.89	4.80	4.71	4.78	4.61	4.54	4-61	400
	RDINATE-	5 PCT	2.98	4.00	15.61	22.49	28.04	33.34	37.48	41.96	43.74	18 44.12		44.12	30.56	29.03	19.96	12.38	5.78	2.39	1.59	1.98	2.74	2.98			DINATE	5 PCT	2.89	2.72	5.64	2.57	2.51	2.51	2.59	80.7	2 67	2000	3.39	3.39	2.76	2.80	2.72	2.56	2.61	2.70	2.63	2.76	2.88	2.89	
	0-00 -	SE	0.98	47.5	4.03	4.02	3.80	3.11	2.70	0.73	0.26	0.18		0.18	16.3	4-14	6.16	6.95	6.88	5.33	3.21	2.57	1.38	0.98			- C0-08	SE	0.52	0.56	0.61	19.0	0.66	0.71	0.67	* .	0000	2000	0.38	0.38	0.73	0.68	0.67	0.71	0.67	0.61	0.66	0.57	0.51	0.52	
	7)	MEAN	****	14.57	22.22	29.39	34.27	38.44	76.14	43.10	44.15	44.45		74.44	70.04	35.84	30.36	23.17	17.06	11.14	6.95	61.9	5.01	4.59			7	MEAN	3.75	3.54	3.54	3.66	3.59	3.61	3.70	000	0 0	4 33	36.4	4.02	3.95	3.92	3.83	3.72	3.71	3.73	3.70	3.68	3.7 i	3.75	
161	[	95 PCT	20.11-	-4.93	-1.39	1.85	5.65	44.6	11.71	10.67	10.48	10.39	000	10.34	10.04	***	4.80	1.25	-1.15	-5.84	-9.48	-10.38	-11.61	-11.68	181			95 PC1	-5-60	-6.33	-6.09	06.6-	64.61	50.00	-4.34	-4.77	-4-93	-6.10	04.0	-6.10	-5.49	-5.55	-5.67	-5.61	-5.71	-5.59	-5.71	-5.77	-5.63	-5.60	
~	CO-ORD INATE-	5 PCT	-14.23	-12.64	-9-01	-4.55	-0.93	1.65	4.42	7.32	69-8	9.36		5.20											-	2444	LINAIET	200	86.8-	16.8-	-8.75	14.81	1000	20.00	10.01	-8-96	-8-68	-8-53	-	-8.53								-8.52			
P CENTER	- 00-0	2 E	1.43	2.35										1.57											RT TROCHANTER	0000	5	200	16.0	20.0	0.85			000	1.48	1.28	1.14	0.74		0.74	0.85	0.97	0.87	0.92	200	1.09	1.01	0.84	0.52	0.91	
- RT GRIP	١	-13.12	-11.89	-8.78	-5.20	-1.35	2.36	5.55	8.06	6.00	9.54	9.87	9.87	7.77	3.96	0.26	14 23	7101	01.0	16.01-	-17.014	19.71-	66.21-	-13.12	- RT TRO	À	MEAN	-7 00	17.60	0 0 0	04.71	-7 11	-7.11	-7.00	-6.79	-6.87	-6.81	-7.32		-7.32	-6.89	-7.15	-1.09	-7.12	-7.25	-7.38	-7.37	-7.14	-7.13	-7.09	
LANDMARK	1	13.19	11.66	11.18	66.6	69.9	3.62	0.82	-0.49	-0.29	0.81	1.66		1.00											ANDMARK		OF DCT	4 57	4 25	7.00	4.55	4 4 8	4.4	4.78	4.52	4.40	5.14	4.62		4.62	4.53	4.32	4.38	4.65	2.09	5.42	5.23	4.67	4.89	4.57	
_	RDINATE-	10.60	9.25	8.53	2.97	2.46	-0.58	55.7-	-3.23	-3.33	-3.02	-3.06	-3.06	-3.68	-3.13	-0.91	2.20	6.23	7 . 61	100	0.00	20.0	40.00	10.60	7	FI AN I C	F PCT	2.08	1.06	000	1.76	1 03	1.93	1.63	1.46	1.94	1.80	1.76		1.76	40.7	91.7	7.51	47.7	1.11	0.86	1.23	2.27	2.02	2.08	
	0-03 -	0.79	0.74	0.81	1.22	1.29	1.28	66.0	40.0	0.93	1.17	1.44	1.44	1.43	1.95	2.49	2.74	1.71	96	2 4 6	100	1 03	100	6.0		- CO-OR	A.	0.76	0. 70	200	0.85	0.84	0.83	0.96	0.93	0.75	1.02	0.87		0.87											
	X)	11.89	10.46	9.86	7.98	4.58	1.52	10.01	99.1-	18.1-	-1.10	-0.10	-0.70	-1.34	0.07	3.17	69.9	90.6	0.87	10.01	11.57	11 63	11 00	40.11		7	AN	33	10	22	3.15	31	29	20	66	11	47	16		3.19	70.6	3.54	3.30	***	3.43	3.14	3.23	14.5	3.45	3.33	
	SAMPLE	7	7	_	- 1	- 1	- 1		- 1	- 1		^	5	9	1	7	7	7	7		- 1		- 1	•		SAMPLE	SIZE.N	7	7	7		7	7	7	7	7	7	9		91	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	,	
	TIME	0.0	9	F 0.20	0	0	<b>o</b> c	0	9 0	9 0	06.0	1.00	0.0	0.10	0.50	0	0	0	0	R 0-70	0	0	000	000		TIME	-	0.0	0.10	2	0 0.30	0	0	0	0	0	0.00	1.00		0	0			1000					200	1.00	

				-	LANDMARK	- RT KNEE	TOP	_	201			
-		X)	0-0	RDINAT	(	()	- CO-OR	ORD INATE	(	7)	-	10
-	SIZEON	AA	SE	2	95 PCT	MEAN	SE	5 PCT		MEAN	SE	5 PCT
0.0		9	0.59	18.03	20.02	-5.32	0.84	-6.70	3.	11.26		9.48
0.1		æ	0.64	17.81	6	-5.46	1.10	-7.26	3.	11.35	0.98	9.74
0.2		9	0.50	18.21	19.86	-5.40	1.08	-7.17	3.	11.34	1.01	89.6
0.3		æ	0.52	17.97	19.61	-5.42	1.08	-7.19	-3.66	11.31	0.95	9.16
0.4		œ	49.0	17.78	19.87	-5.54	1.02	-7.21	3.	11.39	1.00	9. 16
0.5		B	0.51	18.05	19.72	-5.44	1.07	-7.19	3	11.38	1.01	9.72
0.6		æ	0.62	17.95	19.97	-5.40	1.05	-7.12	3	11.32	0.98	9.71
0.7		æ	0.59	18.00	19.95	-5.41	1.02	-7.08	-3.73	11.37	1.08	65.6
0.8		œ	0.59	17.99	19.92	-5.22	16.0	-6.71	3	11.33	10.1	9.68
0.5		œ	0.59	17.88	19.82	-5.15	0.98	-6.76	3	11.28	0.97	69.6
1.00		18.91	0.63	17.88	19.94	-5.26	0.04	-6.80	-3.72	11.37	1.08	09.6
		18-91	0.63	17.88	19.94	-5.26	96.0	-6.80	-3.72	11.37	1.08	09.6
		18 04	0.82	17.60	20.27	-5.20	1.04	06.9-	-3.49	11.30	0.97	9.72
		70.81	02.70	17.79	20.09	-5.37	1.06	-7-11	-3.62	11.26	1.04	9.55
000		18.00	0.0	17.96	20.02	-5.27	0.98	-6-87	3	11.25	1.04	9.55
		10.72		10 01	10.02	15 21	40 0	-6 76	, ,	31.11	1.08	0.41
0		10.61	70.00	10.01	10 05	12.6-		14.71	, "	0	1.08	0.42
0		10.01	000	10.00	10 01	15.00	000	1 14	, "	11.26	1.02	9.50
0		10.61	0.44	17.01	70.01	15.22	000	14 74	, 4	11.25	80	0.47
0		10.61		67.61	10.61	2.60	000	0	, ,	11 25	90	0 51
0.80	100	40.61	000	07.81	66.61	-2.63	000	10.04	13.03	11.24	1.00	9.40
0		86.87	000	18.00	16.67	27.6-	20.00	01.01	0 0	07.41	4 -	0 4
1.(		19.05	0.59	18.08	20.02	-5.32	\$2.0	0.01		07.11	1.09	0
				_	ANDMARK	- RT SHOL	SHOULDER	CENTER	(22)			
		,	100-03	DOTNATE		A)	1 CO-080 1	PO INATE-		[]	- CO-08	DINATE
-		1	) (			MCAN		E DCT	OK DOT	1	) u	S PCT
0			700	2 7 7 1	11 04		0.03	10.42	-6.35		0.82	15.90
000				-5.47	-2 BK		0.53	-8-13	-6.40		1.06	16.40
50			000	10.01	2 . 4		000	0 0	1 5 84		1-16	16.88
0			0.0	10.74	10.40		60.0	-7 03	15.92		1 6 6	17.07
0			000	10.01	10.00		70.0	-7.43	5.00		2.26	17.10
0			000	01.01	1000		4	-7 37	06.4-		1.81	19.43
0			00.	07.61	76.7		000	1701	וני בו		1 72	20.58
0			71-1	-0.03	2 - 2 - 80		000	71.0-	10.01		1 22	22.13
0			1.00	71.01	73.66		000	14. 21	-1.07		1.07	23.01
0			1 - 2	7 32	13.50		72.0	12.70	-0.53		1.01	23.29
3.	0.00	10.40	1 1 2	17 43	12.72	77.7	1.21	200	- 0-02	25.14	0.84	23.77
1.			1.13	04.11	1001		17.1	000				
0		-5.58	-	-7.43	-3.73	-2.00	1.21	-3.98	-0.02	25.14	0.84	23.77
0		-5.25	0.88	-6.70	-3.80	-2.81	0.85	-4.21	-1.42	24.79	1.17	22.87
0		-4.96	0.87	-6.39	-3.53	-4.28	1.19	-6.24	-2.32	23.47	1.38	21.20
8 0.		-4.82	0.61	-5.82	-3.82	-5.08	1.07	-6.83	-3.33	22.07	1.35	19.86
0 .		-4.76	0.72	-5.94	-3.59	-5.91	1.04	-7.61	-4.20	20.41	1.40	18.11
T O.		-4.78	16.0	-6.28	-3.29	-6.70	1.16	-8.60	62.5-	19.50	1.37	16.95
0 0		-4.61	0.80	-5.92	3.	-7.17	1.10	-8.96	-5.37	18.38	1.21	16.40
0.		-4.25	0.78	-5.52	2.	-7.46	0.89	-8.91	-6.00	17.83	1.11	16.02
N 0.80	7 08	-3.90	0.92	-5.41	-2.39	-7.65	45.0	61.6-	-6.11	17.36	1.17	15.45
0		-3.72	0.80	-5.03	-2.40	-7.64	0.79	-8.94	-6.35	17.30	0.92	15.79
1		-3.53	0.97	-5.13	-1.94	-7.89	0.93	-9.42	-6.35	17.25	0.82	15.90
•												

T OVED CUT OF CU

95 PCT 13.04 12.95 12.95 12.97 13.03 13.04 12.93 13.14

0.0 0.10 0.27 0.50 0.59 0.59 0.66 0.75 0.75

13.14 12.89 12.89 12.95 12.96 12.96 12.96 13.00 13.10

MOVED CUM 0.0 1.30 2.14 2.90 6.10 7.60 9.12 10.15

DISTANCE INCR 10.30 00.83 00.83 00.76 11.50 11.50 11.52 11.52

95 PCT 19.86 19.887 21.94 24.52 25.38 26.22 26.54 26.56 26.56

0.0 0.94 2.00 1.662 1.86 1.96 0.96 0.96

26.52 26.72 24.29 22.70 22.70 21.44 20.36 19.68 19.28

X W - D X Z

Z W L D X Z

CONFERCH

COMPERCH

	OVED	CUM	0.	60	53	.79	69	.88	.71	.12	,26	83	0	84	.22	64	.27	484	.64	.51	1.34	46.	,24
	X.						14	12	~	-	111	(1)				-	2	7	7	m	~	m	m
	DISTANC	INCR	2.4	1.13	3.93	7.27	69.9	5.19	3.83	2.40	1.15	0.57	0.0	4.84	5.38	6.42	6.64	4.56	1.81	0.86	0.84	0.60	0.30
	(	95 PCT	10.03	12.61	17.71	25.28	31.18	33.79	34.40	34.58	34.78	34.71	34.71	34.67	32.54	28.37	21.96	16.40	13.65	12.21	11.38	10.97	10.53
	RDINATE-	5 PCT	6.21	6.38	7.28	12.97	19.71	25.38	29.63	31.50	32.26	32.50	32.50	29.03	23.28	15.87	9.62	6.92	6.44	6.16	5.92	5.69	5.56
	0-00 -	SE	1.35	1.90	3.18	3.75	3.50	2.56	1.45	0.94	0.17	0.68	0.68	1.72	2.82	3.81	3.76	2.89	2.20	1.84	1.67	1.61	1.51
	7)	MEAN	0 00	9.50	12.49	19.13	25.44	29.58	32.02	33.04	33.52	33.54	33.61	31.35	27.91	22.14	15.79	11.66	10.04	9.18	8.55	8.33	8.35
( 54)	(	35 PCT	-8.53	-8.36	-8.41	-6.25	-3.42	-1.30	0.28	1.35	2.24	2.92	2.92	1.28	-0.62	-3.77	9	-8.48	œ	ဏ	-8.67	-8.31	-8.48
ER	CO-ORD INATE-	5 PCT	-12.01	-12.20	-12.10	-11.26	-8.60	-5.46	-2.61	19.0-	0.22	0.46	0.46	-5.72	-10.43	-12.70	-13.07	-12.31	-12.00	-12.10	-11.76	-11.42	-11.14
ON CENTER	0-00 -	SE	1.06	1.17	1.12	1.53	1.58	1.27	0.88	0.62	19.0	0.75	0.75	2.14	2.99	2.72	1.90	1.17	\$.0	66.0	75.0	0.95	0.81
- RT ELBOW	١	MEAN	-10.27	-10.28	-10.26	-8.76	-6.01	-3.38	-1.16	0.34	1.23	1.69	1.69	-2.22	-5.52	-8.23	-9.95	-10.39	-10.46	-10.48	-10.22	-9.86	-9.81
LANDMARK	[	95 PCT	0.45	1.25	3.96	6.53	7.48	6.27	3.83	1.22	-0.04	-0.49	-0.49	2.45	4.78	6.29	5.06	2.81	1.59	1.31	1.96	1.69	0.98
	DINATE	5 PCI	-2.72	-2.87	-0.48	5.06	1.41	62.0-	-2.29	-2.83	-2.65	-2.85	-2.85	-1.29	14.0-	-0.72	-1.49	-3.02	-3.39	-2.95	-2.45	55°T-	-0.56
	- CO-OR	SE 0.47	96 0	1.26	1.35	1.36	1.85	2.15	1.87	1.24	0.83	0.72	0.72	1.14	1.60	2.14	2.33	1.73	1.52	1.30	1.34	56.0	0.41
	-	MEAN 0.21											-1.67	0.58	2.15	2.78	1.78	-0.10	-0.90	-2.82	-0.23	0.13	0.21
	SAMPLE	5 1 LE , N	7	7	7	7	- 1	- 1	-	- 1	-	-	7	7	7	7	7	-	-	- 1	~ 1	- 1	-
	TIME	0.0	7	0.50	3	4		01	-	00	6	3	0.0	0.10	0.50	0.30	0.40	0.50	0.00	0.00	0.80	0.00	1.00

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +45.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MOTICN NUMBER - 21230 BACK ANGLE - 30

TIME DATA MEAN STD DEV RANGE	3.60 TO 0.90 SECS.	0.60 TJ 0.93 SECS.
STD DEV	0.11	0.12
MEAN	77.0	0.70
SUB-MOVEMENT	LEFT FWD	LEFT REV

	MOVED	TO CO	2.96	4.31	69.4	5.31	5.46	5.61	5.77	5.95	6.16	0.0	5.63	3.89	4.14	4.21	4.39	4.72	5.03	5.27	5.45	5.48		MOVED	CUM	0.0	0.26	69.0	1.06	1.21	1.38	1.56	1) - 1	000	2.12	0.0	0.15	0.21	0.27	0.45	0.71	1.02	1.23	1.33	1.46	1.61
	DISTANCE	INCR	2.96	1.35	0.38	0.31	0.15	0.14	0.16	0.18	0.22	0.0	5.69	1.20	0.25	10.0	0.18	0.32	0.31	0.25	0.14	90.0		DISTANCE	Н	0.0	0.26	94.0	0.36	0.16	0.16	0.18	91.0		0.20	0.0	7.	0	3		2.	3	0.21	-	-	-
	-	95 PCT	34.12	31.92	31.71	31.97	32.13	32.20	32.18	32.24	32.36	32.36	31.32	30.42	30.30	30.18	58.86	29.94	30.01	29.89	29.84	29.70		(	5 PCT	3	m	3	3	3	3	3	J 4	) 4	23.40	23.40	23.61	23.59	23.51	53.69	23.87	23.70	23.58	23.70	23.79	23.54
	DINATE	5 PCT	28.13	28.47	28.58	28.85	28.60	28.52	28.49	28.38	28.07	e e	26.29	9.	2.		2	9	9	9	•	9		DINATE	N.	19.76	19.78	19.54	19.52	19.65	19.61	19.51	19.46	10 60	19.63	19.63	19.53	19.63	19.68	19.63	19.50	19.68	19.76	19.69	19.64	19.16
	- 30-0R	SE	0.91	1.05	0.95	0000	1.08	1.12	1.12	1.18	1.31	1.31	1.53	1.34	1.35	1.32	1.23	1.17	1.19	1.18	1.19	1.13		- 20-08	SE	1.15	1.06	1.18	1.19	1.06	1.06	1.18	1.23	1 16	1.15	1.15	1.24	1.21	1.17	1.24	1,33	1.23	1.17	1.22	1.26	1.15
	7)	MEAN	29.53	30.19	30.14	30.33	30.36	30.36	30.34	30.31	30.22	30.22	28.30	28.22	23.33	28.01	27.94	28.31	28.05	27.95	27.83	27.35		7)	MEAN	21.65	21.52	21.47	21.48	21.39	21.40	21.45	21.64	21 50	21.52	21.52	21.57	21.64	21.53	21.56	21.50	21.59	21.57	21.69	21.11	21.55
1.1	(	95 PCT	2.18	1.41	1.35	1.38	1.76	1.25	1.34	1.31	0.92	0.92	1.38	1.71	1.60	1.70	1.84	1.72	1.75	2.04	2.14	1.93	2.1	(	35 PCT	0.23	54.0	0	0	0	0	0	-0.87	4 -	-0.85	-0.85	-0.59	-0.57	64.0-	-0-29	-0-12	0.16	0.14	0.10	0.16	0.23
	RD INATE	5 PCT	-1.07	-0.62	12.0-	10.04	-1.07	-0.84	-1.15	-1.47	-1.25	-1.25	-1.52	-1.88	-1.95	-2.05	-2.50	-2.49	-2.66	-2.58	-2.45	-2.15	J			-2.56	-2.88	-3.02	-3.31	-3.28	-3.35	-3.13	-3.00	73.04	-3.44	-3.44	-3.42	-3.46	-3.59	-3.48	-3.15	-3.13	-3.14	-2.90	-2.74	-2.56
527		SE 1.24	66.0	0.62	0.65	0.77	0.86	0.64	0.76	0.85	99 • 0	99.0	0.88	1.09	1.08	1.14	1.32	1.28	1.35	1.41	1.39	1.24	ALE	1 - CO-OR	SE	0.85	1.01	0.86	0.83	0.85	96.0	0.85	0.65	000	0.79	0.79	0.86	0.88	0.95	0.97	0.92	7.00	1.00	0.93	0.88	0.85
- NASION	١)	MEAN	0.55	0.40	0.29	0.20	0.35	0.21	60.0	-0.08	91.0-	-0.16	10.0-	-0.08	-0.18	-0.18	-0.33	-0.38	-0.45	-0.27	-0-14	-0.11	- CERVICAL	()	MEAN	-1.17	-1.22	-1.62	-1.96	-1.88	-1.77	-1.79	-1.94	12 04	-2.14	-2.14	-2.00	-2.02	2	-1.89	-1.63	-1.49	-1.50	-1.43	-1.29	-1.17
ANDMARK	(	95 PCT	0.28	-0.73	-1.18	10.1-	-1-85	-1.88	-2.17	-2.55	-2.35	-2.35	0.04	0.73	0.82	0.63	0.65	0.77	1.21	1.80	2.01	2.13	LANDMARK		2	-3.79	4	3	5	5	5	-5.49	-5.75	000	-5.45	-5.45	-5.48	-5.33	-5.27	-5.33	-5.29	-5.04	-4-11	-4.40	-4.08	-3.79
_		5 PCT										-6.38	-4.19	-2.79	-2.51	-2.36	-2.25	-1.74	-1.58	-1.90	-2.03	-2.09		2	2	'	•	'	'	,	•	'	•		-9.29	1	-9.18	-9.28	-9.23	-9.28	14.6-	-9.18	-9.09	17.6-	64.6-	-9.50
	1	SE	1.55	1.67	1.61	1.52	1.57	1.57	1.47	1.22	1.23	1.23	1.29	1.08	1.02	0.91	0.89	0.77	0.85	1.13	1.23	1.29				1.74	1.46	1.24	1.10	1.25	1.44	1.25	1.06	0.00	1.17	1.17	1.13	1.20	1.21	1.20	1.27	1.25	1.34	1.49	1.65	1.74
	X)	ME AN	-2.25	-3.47	-3.83	-4-13	-4-43	-4.45	-4.57	-4.54	-4.35	-4.36	-2.08	-1.03	-0.84	-0.87	-0.80	64.0-	-0.19	-0.05	-0.01	0.02		X)	MEAN	-6.65	-6.86	-7.04	-7.15	-7.25	-7.37	-7.55	7.54	1.00	-7.37	-7.37	-7.33	-7.30	-7.25	-7.30	-7.38	-7.11	-6.90	0	-6.78	-6.65
	SAMPLE	SIZE,N		7	7		- 1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		AMD	N. H. I.		7	1	7	7	7	7	- 1	- 1		7	7	7	7	7	7	7	7	7	7	1
	TIME	- 0	0.10	0	0	0 0 0	00	0	0	0	1.00	0.0	0.10	0.20	0	E 0.40	0	0	0	0	06.0	1.00		TIME		0.0	0.10	0	0	0	0	0	K 0.70	0	1.00	0-0	0.10	0.20	0	0	0	0	R 0.70	0	0.00	1.00

	DVED	0.0	0.36	0.85	1 23	1.51	1.64	1.82	1.05	2.12	2 34		0.0	0.25	0.37	0.51	1.09	1.38	1.57	1.73	1.81	1.85	2.21		ADVED	NI C		0-73	22	1.00	2 47	2.97	3.62	3.92	4.20	4.37	4.58		0.0	0.63	74.0	60.1	00.1	7.50	3.34	0.10	4.10	74.0	0 • 0
	ISTANCE M	0.0	0.36	84.0	000	000	21.0	21.0	200	71.0	0.22		0.0	0.25	0.12	0.14	0.58	0.29	0.19	91.0	0.08	40.0	0.36		DISTANCE	•		2.0	0 0	00.0	0 0	000	0.65	0.30	0.28	0.18	0.21		0.0	0.23	9.19	50.0	10.0	68.0	0.78	0000	10.1	0.0	1 + • 1
	0 5 PCT	22.17	22.31	22.52	22.60	22 44	22.66	22.95	22 12	23.46	23.26		23.26	23.03	22.78	22.62	22.46	22.48	22.15	22.15	22.12	22.14	22.17		[		22 27	22 34	22 44	23 00	33 03	23.62	23.96	24.03	24.11	24.25	24.36		24.36	54.43	24.18	24.08	23.53	23.53	23.15	18.77	23.21	88.77	16.77
	INATE												19.96	19.92	19.98	19.96	19.97	19.94	20.00	19.88	19.86	19.83	19.89		DINATE	S DCT	10 53	10 16	10.00	19.03	17.13	74.61	10.68	10.79	20.05	23.19	20.11		20.11	66.61	20.11	16.61	19.96	19.11	19.66	19.35	10.81	18.40	76.61
	JR 0	0.69											1.01	0.95	0.85	0.81	0.76	0.78	99.0	69.0	69.0	0.10	69.0		9	5	700		000	1.10	11.1	1.10	1 31	100	1.24	1.24	1.30		1.30	1.35	1.24	1.25	1.09	1.15	1.07	1.06	1.59	1.37	0.87
	7	21.03	21.35	21.09	61-17	97-17	21 34	21 65	C+ . 17	21.50	21 61	16.17	21.61	21.48	21.38	21.29	21.22	21.21	21.07	21.32	20.39	20.99	21.03		1	NEW N	NA DO	20.93	01.00	20.02	20.91	27.17	21 02	21 01	22.38	22.24	22.23		22.23	22.21	22.15	22.02	21.75	21.65	21.41	21.38	79.02	20.54	20.35
3.1	-	1.55											0.87	1.37	1.31	1.41	1.64	1.63	1.55	1.49	1.42	1.33	1.55	5.1		10000	72 66	8.00	9.10	8.23	61.1	1.18	000	4 pg	4.78	6.79	6.64		49.9	6.44	6.50	7.72	7.63	7.19	7.73	7.86	10.55	9.61	8 • 68
~	INATE	-3.24	-2.77	-2.97	-3-38	-3.48	-1.33	27.6	67.6-	3.28	-3.30	-3.56	-3.52	-3.59	-3.65	-3.79	-3.17	-2.82	-2.63	-2.76	-2.67	-2.51	-3.24	_	TAIAT	LINAIE	2 20	7.0	4.83	5.37	5.39	2.16	00.0	01.	4.05	3.84	4-14		4.14	4.12	4.31	4.30	4.80	5.19	5.32	5.17	1.13	5.89	5.74
ERNALE	- CO-ORD	1.46	1.28	1.20	1.28	1.35	1.33	1 22	17.7	1.30	1.28	1.34	1.34	1.51	1.51	1.59	1.47	1.35	1.28	1.29	1.24	1.17	1.46	NOIWO		20-01	SE	06.0	1.32	0.87	0.13	0.80	18.0		0 0	0000	0.76		0.76	0.10	19.0	1.04	0.86	0.61	0.73	0.82	2.87	5.06	0.00
- SUPRASTERNAL	Y	-0.85	-0.67	-1.00	-1.28	-1.27	-1.14	-1.05	-1-12	-1.15	-1.20	-1.33	-1.33	-1.11	-1.17	-1.19	-0-77	-0.60	-0.54	-0.64	-0.63	-0.59	-0.85	- LT ACROMION		1	MEAN	17./	66.0	6.80	6.59	14.9	0.00	0.18	2004	5.32	5.30		5.39	5.28	5.40	10.9	6.22	67.9	6.52	6.51	5.84	6.28	7.21
ANDMARK -	1	-0-98	-2.49	-2.90	-3.44	-2.95	-2.58	71.7-	-3.04	-3.07	-2.86	91.7-	-2.76	-2.36	-2.33	-2.35	-2.06	-1.54	-2.00	-2.16	-2.00	-1.95	-0.98	ANDMARK			95 PCT	-4.24	-4.13	-5.46	-6.24	-6.91	-7-11	-6.66	10.43	7 10	-7.18	07.1-	-7.18	-7.35	-7.43	-7.02	-6.54	-6.18	-5.36	60.4-	-0.17	-1.71	-4.24
2	DINATE	15.40	-4.51	-4.80	-4.17	-5.21	-5.33	-5.35	-5.30	-5.50	-5.48	-2.24	-5.22	-5.58	-5.65	-5.43	-4.93	-4.98	-4.28	-3.89	-3.91	-3.91	-5.40	7		DINAIR	5 PCT	-7.35	-8.20	-8.60	-8.86	-9.17	-9.65	-10.24	+0.01-	00.01	10.07	11.6-	-9.71	-9.96	-10.14	-10.70	-10.17	-8.75	-8.24	-9.20	-13.94	-12.07	-7.35
	- CO-OR	. 2	21		9	69	94	90	69	41	80	5/	0.75	0.98	10.1	96.0	0.88	1.05	0.73	0.53	0.58	0.60	1,35			1	SE	0.95	1.06	96.0	0.80	69.0	0.17	1.09	0.95	16.0	00.0		0.77	0.80	0.83	1.12	1.11	0.79	0.88	1.56	4.02	3.16	0.95
	X)	MEAN	-3.50	-3.85	-4-10	-4.08	-3.96	-4.03	-4-17	-4.28	-4-17	-3.99	-3.99	-3.97	-3.99	-3.89	-3.50	-3.26	-3.14	-3.02	-2.95	-2.93	-3.19			X)	MEAN	-5.80	14.9-	-7.03	-7.55	-8-04	-8.37	-8.45	-8-49	60.81	10.01	-8.40	-8.45	-8.65	-8.79	-8.86	-8.35	-7.46	-6.80	-6.65	-7.36	-6.89	-5.80
	SAMPLE	SIZE,N	~	7	7	7	7	1	7	7	7	7	7	7	7	7	7	7	7		7	7	7			SAMPLE	SIZE,N	7	7	7	7	7	7	9	9	0 -	0 4	٥	9	9	9	9	9	7	7	7	7	7	7
	TIME	- 0	0.10			R 0.40					0.00	1.00	0	01.0	0.20	, 0	, 0	, 0	, 0	, .	2	, ,	1.00			TIME	_	0.0	0.10	F 0.20	0	0	0	0	R 0.70	5	0.00	1.00	0.0	0.10	0.20	o	0	0	0	0	N 0.80	o	1.00

0.00

x w - D x z

0.0 2.76 6.81 11.31 15.44 221.24 26.40 331.05 34.95

0.00 4.00 4.00 6.00

442.99 412.99 411.27 332.43 332.45 27.79 27.17 211.25 113.95 113.95

CUM 0.0 14.46 20.42 24.57 24.57 29.91 34.33 36.47 36.47

DISTANCE INCR 1 NCR 6 . 4 0 8 . 9 7 7 . 9 7 7 . 9 7 1 . 0 7 1 . 0 7 0 . 68

13.52 25.16 34.97 40.65 38.70 43.92 45.83 43.25 43.60 43.60

TIME 0.10 0.20 0.30 0.50 0.50 0.50 0.00 0.00 0.00

LOKEKKO

M DVED CUM 0.0 0.36 0.35 0.75 0.75 0.75 0.75 1.00 1.00 1.30

INCR 0.0 0.10 0.26 0.14 0.01 0.06 0.08 0.07

DISTANCE

0.05 0.15 0.29 0.65 0.90 0.90 1.16 1.27

0.0 0.15 0.114 0.114 0.09 0.09 0.16 0.15

2.91 2.90 2.90 2.77 2.77 2.77 2.80 2.80 2.81 2.81 2.91

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X W F D X Z

LOKEKOL

	HOVED	COM	0.0	9.40	000	1.89	2.09	2.42	3-27	4-00	4.52	4.73		0.0	0.19	0.29	0.40	64.0	0.92	1.06	1.17	1.29	1.40	1.52			0000	200	500	200	10.0	01.0	2.60	3.21	4.02	4.55	66.4	5.38	5.59		74.0	1.12	103	2.71	25.5	000	4.6	6.82	200	5.10	
	DISTANCE		0.0	0.40	7.0	66.0	0.20	0.32	0.85	0.73	0.52	0.21		0.0	0.19	0.10	0.11	60.0	0.43	0.14	0.11	0.11	0.12	0.12			TOTANCE	4	X 2 C	200	0.0		1001	0.61	0.81	0.53	74.0	0.39	0.21											0.17	
	] (	PCT	13.47	13 63	13.75	13.67	13.69	13.82	13.99	13.91	13.86	13.85		13.85	13.91	13.76	13.70	13.65	13.52	13.67	13.80	13.71	13.54	13.47			0		20.00	20.30	20.74	21.48	22.60	23.47	24.42	25.03	25.95	26.68	26.12	26-12	25.53	24.39	23.26	22.40	21.43	21.69	20.85	20.62	20.40	20.23	
	0	5 PCT	9.12	0 82	96.6	10.10	10.02	9.88	9.92	9.88	9.87	9.85		78.6	31.6	9.92	9.83	9.73	9.08	8.99	8.86	9.05	9.17	9.12			ATANIC	5 PCT	18-01	17.65	17.62	18.23	19.07	19.38	19.78	19.89	19.84	19.89	50.03	20.09	20.05	20.03	19.64	19.06	13.45	18.35	18.11	18.06	18.11	18.01	
	- C0-08	SE	1.33	11.16	1.16	1.09	1.12	1.20	1.24	1.23	1.22	1.23		1.23	1.20	1.17	1.18	1.19	1.35	1.43	1.51	1.42	1.33	1.33			- CO-0R	SE	0.67	0.81	0.95	0.99	1.08	1.25	1.42	1.57	1.86	2.07	1.84	1.84	1.67	1.33	1.11	1.02	0.91	0.84	0.84	0.78	0.10	0.67	
	7)	MEAN	11.50	111.72	11.85	11.80	11.86	11.35	11.95	11.89	11.87	11.83	11 03	11 00	10.11	11.04	11.17	11.69	11.30	11.33	11.33	11.38	11.36	11.30			7)	HEAN	19.12	18.97	19.18	19.35	20.84	21.42	22.10	25.46	22.30	23.29	23.11	23.11	22.79	22.24	21.45	20.73	19.94	19.72	19.48	19.34	19.26	19.15	
112	(	95 PCT	6.63	6.53	6.60	7.62	7.19	69.9	7.71	7.07	6.53	6.65	4 65	0 1		0.00	6.35	6.45	6.57	6.43	6.36	6.42	99.9	6.63		163	(	95 PCT	8.73	14.6	9.10	9.01	9.37	9.21	8 . 44	1.87	8.03	8.15	1.58	7.98	8.32	8.75	8 - 86	8.65	8.13	8.52	8.71	8.77	8.68	8.78	
	CO-ORD INATE-	S PCT	100.4	4.55	4-01	2.12	2.85	3.59	1.73	3.22	4.30	4.27	4.27	70.7	200	4.62	4.09	4.60	4.63	4.50	4.36	4.35	4.35	4-33		N I EV	DINATE	SE 5 PCT	6.37	5.60	5.77	5.68	4.95	2.17	5.30	27.5	76.4	4.11	* . *	4.74	2.07	5.24	5.52	6.01	6.55	6.17	6.04	80-9	6.31	6.37	
E T0P	- 00-08	SE	0.40	09.0	0.79	1.68	1.32	0.95	1.83	1.17	0.68	0.73	0.73	0.83	200	2	0.04	0.00	65.0	66.0	0.61	0.63	0.0	0. 10	and mond to	מר מר מר	- CO-OR	SE	0.73	1.18	1.02	1.01	1.35	1.23	96.0	18.0	0.40	1.00	66.0	66.0	66.0	1.07	1.02	0.81	0.48	0.72	0.81	0.85	0.72	0.73	
- LT KNEE	()	MEAN	5.71	5.54	5.30	4.87	5.02	5.14	4.72	5.15	5.41	2.46	5.46	5.47	5.40	2.40	14.0	20.0	00.0	0.40	0.30	5.38	00.0	5.48	-		١)	MEAN	7.57	7.54	7.43	7.34	7.16	7.19	18.9	0.00	14.0	0.40	00.0	6.36	6.70	7.00	7.20	7.33	7.34	7.34	7.37	7.42	65.7	7.57	
LANDMARK	1	20 PCI	20.21	20.16	20.25	23.00	22.33	21.24	23.75	21.43	20.86	50.99	20.99	20.96	21.00	20.10	20.00	00.00	24.02	20.40	20.04	20.49	40.04	20.81	NONA		(	95 PCT	-2.41	-2.57	-3.15	-3.45	-3.16	-3.87	60.4-	67.4-	-4.42	-4.63	000	-4.63	-4.62	-4.32	-4.25	-4.24	-3.91	-3.35	-2.58	-1.99	-1.94	-2.41	
	RDINATE-	17.34	17.79	17.83	17.80	16.83	17.25	11.13	16.73	17.84	17.52	11.18	17.78	17.45	17.22	17 21	17 .0	17 7	27 60	17 63	100/1	17.40	7.40	11.34	-		$\approx$							-7.46						-7.74	-7.61	-7.83	-7.54	86.9-	-6.55	-6.20	-6.06	-6.35	-6.35	-5.77	
	0-03 - x	1.06	0.74	0.71	0.74	1.88	1.55	10.1	51.7	60.1	1.02	0.98	0.98	1.07	1.15	0 1	70			•	000	0.93	000	1.00			•	SE	1.02	1.11	0.95	1.04	1.43	1.09	1 24	1 21	12.00	0.95		0.95	76.0	1.07	1.03	0.84	0.80	0-87	1.06	1.33	1.35	1.02	
		19.37											19.39	19.21	19.11	19.15	10.18	10.00	10.01	90	000	10 07	10.01	10.61			X)	MEAN	60.4-	-4.39	-4.70	-5.15	-5.50	12.66	16.10	-6. 22	-6.21	-61.9		61.9-	71.9-	-6.37	-5.90	19.6-	-5.23	-4. /8	-4.32	17.4-	41·4-	60.4-	
	SAMPLE	•											2	2	2	2	ı ır	. 4	0 4	0 4	0 4	0 4	0 4	0			SAMPLE	SIZE ,N	7	-	7	-	~ 1	- 1	- 1	- 1		7		-	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	
	TIME	0.0				2 · · ·					06.	00.1	0.0	0.10	0.20						0 0			7.00			TIME		0.0					000				1.00		0.0	01.0	3 0	9 0	9	9	9	200	0	200	1.00	

& W - D & Z

CABAKO

ZWFJKZ

MOVEMENT: Left hand moves from Throttle controller at +18.0, +10.0, +12.4 to Over-Head controller at 0.0, +10.0, +45.0 and returns. Right hand remains at Side-Arm controller at +13.0, -13.0, +4.8.

MOTICN NUMBER - 22233 BACK ANGLE - 30

SUB-MOVEMENT		TIME DA	1TA	1 1 1	
	MEAN	STD DEV	RANGE	ANGE	
LEFT FWD	0.80	0.14	0.60 TD	0.90	SECS.
LEFT REV	0.71	0.11	0.60 TO	0.90 SECS.	SECS.

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IOVED	NO.	0.0	20.0	5.16	5.42	5.75	5.91	5.98	90.9	6.26	1.06	0.0	2.32	3.42	3.80	3.89	4.09	4.28	4.71	5.08	5.39	5.65		UNED	NI D	0.0	0.36	0.71	0.83	0.95	1.07	1.28	1.41	1.50	79.1	1.12	0.0	0.11	0.21	0.41	0.56	0.76	06.0	1.11	1.29	1.42	1.57
DISTANCE M	INCR	0.0	1.31	0.33	0.26	0.33	0.16	0.08	0.08	0.20	0.80	0-0	2.32	1.10	0.38	0.09	0.20	0.19	0.43	0.37	0.31	0.26		DISTANCE	INCR	0.0	0.36	0.35	0.12	0.12	0.12	0.20	0.13	60.0	71.0	01.0	0.	.11	.10	.20	.16	.19	.14	0.21	.18	.13	.15
î	95 PCT	30.52	32.12	32.19	32.18	32.45	32.55	32.54	32.45	32.44	32.50	32.50	31.48	31.01	30.81	30.50	30.47	30.31	30.36	30.52	30.48	30.52		[	195 PCT	23.43	23.58	23.43	23.25	23.32	23.55	23.57	23.61	23.58	62.52	23.35	23.35	23.36	23.39	23.58	23.59	23.49	23.55	23.59	23.52	23.52	23.43
	5 PCT	24.09	28.04	28.04	28.25	28.16	28.14	28.02	27.97	27.76	56.99	26.99	25.59	25.04	25.13	25.28	25.08	25.17	24.97	24.86	24.87	54.69		DIVATE	5 PCT	19.95	19.49	19.41	19.41	19.44	19.25	19.43	19.51	19.56	41.61	13.70	19.70	19.60	19.72	19.79	19.64	19.72	19.76	19.72	19.64	19.64	19.95
- C0-08	SE	1.18	1.24	1.27	1.20	1.31	1.34	1.38	1.37	1.43	1.68	1.68	1.80	1.82	1.73	1.59	1.64	1.57	1.64	1.73	1.71	1.78		- CO-OR	SE	1.06	1.25	1.22	1.17	1.18	1.31	1.26	1.25	1.23	7.10	11.1	1.11	1.15	1.12	1.16	1.20	1.15	1.15	1.18	1.18	1.18	1.06
7)	MEAN	50.17	30.08	30.12	30.22	30.30	30.34	30.28	30.21	30.10	29.75	29.75	28.53	28.02	27.37	27.89	27.77	27.74	27.67	27.69	27.67	27.50		1)	MEAN	21.69	21.54	21.42	21.33	21.38	21.40	21.50	21.50	21.57	+6.17	56.17	21.53	21.48	21.55	21.00	21.62	21.51	21.66	21.50	21.58	21.58	21.69
a [	95 PCT	1 55	1.50	1.48	1.39	1.40	1.43	1.69	1.84	1.71	1.78	1.78	1.64	1.99	2.22	2.06	1.75	1.81	2.79	2.25	2.08	2.15	23	[	95 PCT	0.75	0.66	2.0	0.50	0.27	60.0	0.76	1.08	0.89	0.00	0.33	0.93	0.34	0.11	0.29	0.30	0.11	02.0	0.39	0.59	0.67	0.75
) DINATE	5 PCT	61.1-	0-17	-0.01	-0.07	60.0-	60.0	-0.22	-0.38	-0.20	-0.79	-0.79	-0.65	-1.47	-2.01	-1.93	-1.81	-1.83	-1.98	-1.63	-1.55	-1.19	-	DINATE	5 PCT	-1.75	-2.18	-2.24	-2.32	-2.32	-2.38	-2.71	-2.93	-2.91	07.6	-3.66	-3.22	-2.82	-2.58	14.2-	-2.22	-2.34	-2.28	-2.11	-2.00	-1.87	-1.75
- CO-ORD	SE	70.1	0.41	0.46	0.45	94.0	0-41	0.58	0.68	0.58	0.78	0.78	0.10	1.05	1.29	1.22	1.08	1.11	1.45	1.18	1.11	1.02	ILE	- CO-CRD	SE	0.76	0.87	0.85	0.86	0.79	0.75	1.06	1.22	1.16	20.1	07.1	1.26	96.0	0.85	0.84	0.17	0.75	0.76	0.76	0.79	0.77	0.76
- NASION	MEAN	000	98.0	0.74	99.0	99.0	0.76	0.74	0.73	0.75	0.49	64.0	0.49	0.26	0.10	90.0	-0.03	-0.01	0.41	0.31	0.26	0.48	- CERVICALE	λ)	MEAN	-0.50	-0.76	-0.85	-0.91	-1.02	-1.14	16.0-	-0.93	-1.01	00.1	+1-1-	-1.14	-1.24	-1.24	-1.09	96.0-	-1.12	-1.04	-0.86	02.0-	09.0-	-0.50
ANDMARK	95 PCT	10.27	-1-19	-1.99	-2.79	-3.23	-3.58	-3.47	-3.18	-2.80	-1-10	-1.70	-1.30	-0.34	0.36	0.17	0.44	69.0	0.73	0.85	1.48	1.73	ANDMARK	(	95 PCT		-6.33	-6.61	-6.62	-6.75	-6.57	-6.70	-6.88	-6.94	11.0-	74.0-	-6.42	96-9-	-6.83	-6.56	-6.72	-6.62	-6.55	-6.50	-6.56	-6.54	-6.39
- :	S PCT	90.1-	-7.19	-7.02	19.9-	-6.86	-6.75	-6.93	-7.16	-7.22	-6.98	-6.98	-3.43	-2-49	-2.50	-2.38	-2.39	-2.26	-2.44	-1.85	-1.88	-1.88	_	DINATE	5 PCT	-8.38	-8.82	-9.18	-9.25	-9.16	-9.31	-9.30	-9.34	-9.23	07.6	64.61	-9.43	-8.85	-8.86	-9.07	-9.03	-8.90	-8.75	-8.57	-8.46	-8.32	-8.38
- C0-08	SE	•									1.61		0.65								1.03			- C0-0R	SE									0.10	•		0.92			•			•	0.63			
X	MEAN	0.00	-4-19	-4.50	-4.73	-5.05	-5.16	-5.20	-5.17	-5.01	-4.34	-4.34	-2.36	-1.42	-1.07	-1.10	-0.97	-0.79	-0.86	-0.50	-0.20	-0.08		X)		-7.38	-7.57	-7.89	-7.94	-7.96	-7.94	-8.00	-9.11	18.09	66.1	76.1-	-7.92	-7.91	-7.84	-7.81	-7.88	-7.76	-7.65	-7.53	-7.51	-7.43	-7.38
SAMPLE	7	- 1		1	7	7	7	1	7	7	7	7	7	7	1	7	7	7	7	7	7	1		SAMPLE	SIZEON	1	1	1	7	7	7	7	1	- 1	- 1	,	7	1	7	-	7	7	7	7	1	7	1
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MOVED		0.35	0.71	0.83	1.27	1.53	1.97	2.34	3.11	3.27	3.39	,	0.0	0.38	0.57	0.82	96.0	1.10	1.31	1.40	1.64	1.87	1.94				100	000	20.0	1 a	7.41	2.93	3.39	3.82	40.44	4.56	4.77		000	17.0	7+01	7 - 14	7007	3.09	2.10	4.30	100	5.31	4
DISTANCE	200	0.35	0.36	0.12	0.45	0.26	55.0	0.37	0.77	0.16	0.12		0		-	.2	7.	7	.2	0	.2	0.23	0		DICTANCE	TAICE	200	0 0	0.0		0.56	0.52	0.46	0.43	0.62	0.12	0.21			17.0	17.7	0.32	61.0	0.00		***		0.25	
1	2 4	22.15	22.31	22.24	25.42	22.71	22.95	23.16	23.06	23.15	22.99		V	V	N	N	N	N	2	2	2	21.94	~			S DCT	2 2 2							24.00			24.05	0 4			0 0	7	0 0	0.0	1.0	200	100	22.28	
0	0	19.61	9	9	0	6	0	9	0	0	0		98 . 67	11.67	19.75	11.61	19.86	19.78	19.73	19.72	19.63	19.66	19.75		ANIC	2 4	20.01	18.81	18.63	18.60	18.75	19.04	19.49	19.81	19.95	20.18	20.25	d	0		. 0	. 0	. 0	. 0		• a	• a	19.08	
- C0-08	0.64	0.76	0.84	0.19	0.78	0.00	66.0	1.08	1.02	1.01	96.0		0.00	06.0	0.00	0.84	0.11	0. 14	0.10	0.71	0.73	0. 10	0.04		1	3 0	0.98	000	1.10	1.24	1.31	1.34	1.30	1.28	1.33	1.22	1.16	1.16	0 2	1.00	1 1 4	1.25	1 24	1.24	1.24	1 17	100	0.98	
7)	20-83	20.91	20.33	20.95	41.12	21.23	21.32	21.39	21.39	21.49	21.43		54.43	46.17	77.17	51.12	21.13	50.33	50.83	20.48	20.83	20.80	20.80		[]		20-6H	20.44	20.44	20.64	20.90	21.23	21.62	21.90	22.13	22.18	22.15	22.15	21.97	21.94	21.20	21.59	21.34	21.10	20.05	23.81	20.72	20.68	
100 90	1.11	1.22	1.35	1.11	0.13	0.13	25.0	2.13	0.89	0.76	99.0	17	•	00.00	0.95	78.0	0.62	0.30	0.19	14.0	61.0	1.03	11.1	21	[		2 2 2 2							8 . 25				6.79	6.93	0	10.44	0	7.65	7 81	8.01	8 51	8 78	8.58	
ORD INATE	-1.23	-1.41	-1.75	-1.34	16.1-	01.1-	87.7-	-3.88	-1.79	-1.90	-1.84	1 0%	10.4	10.1	76.1-	55.7	-1.32	87.7-	-1.19	64.1-	14.1-	-1.65	-1.63	)	RD INATE	5 PCT	6.31	6.20	5.82	5.78	5.54	5.27	5.16	4.77	4.34	4.43	4.66	4.66	49.4	2.80	2.80	5.15	2 4 8	5.79	6.05	6-10	6-11	6.31	
0-00-		0 - 80					•	•				0 75	000			000	60.0	0.40	24.0	09.0	0.0	0.00	11.0	NOIWO			0.69	0.71	0.84	0.84	0.88	0.89	0.93	1.06	66.0	0.91	0.65	0.65	0.70	2.27	2.33	0.62	0.66	0-62	0.60	6-73	0.81	69.0	
MEAN.	-0-0-	-0.10	-0.20	11.0-	000	20.01	000	0.01	10.4	10.0-	09.0-	0.40	0 0	000	<b>)</b> (	) (	00.01	) (	<b>5</b> (	) (	10.01	11.0-	00.01	- LT ACR	λ)	MEAN	7.45	7.37	7.20	7.15	66.9	6.73	6.68	6.51	5.96	5.93	5.12	5.72	5.78	6.52	6.62	6.16	6.56	6-80	7.03	7.30	7.44	7.45	
95 PCT	-0.28	-1.23	-1.55	61.1	1 70	K1.71	2	0.10	70.1-	70.1-	-1.57	-1.57	-1 41	-1 24	-1 34	200	17.7	000	000	2.01	0	000	07.0	ANDMARK	[	95 PCT	-3.72	-4.85	-5.45	-6.05	-6.29	-6.12	-6.32	-6.37	-6.18	-6.05	-6.24	-6.24	-6.42	-6.20	-5.62	-6.34	-5.94	-5.52	-4.95	-4.54	-4.09	-3.72	
S PCT	-5.09	-4.81	-5.16	10.01	14.04	20.01	-4 41	10.01	77.0-	17.0-	-6.07	-6.07	-5.71	15.60	200	00 7-	- 5 37	15.00	20.0	10.01	60.41	15.00		7	0	5 PCT	-7.82	-8.29	-8.65	-8.97	-9.66	-10.42	-10.72	-11.22	-11.08	-11.00	-10.89	0	0	0	0	0	6	m	00	-8.05	1	-7.82	
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SAMPLE	7	- 1	- 1	- 1	7	1	7		- 1	• 1		1	7	7	7	_	- 1	7	- 1	- 1	7				SAMPLE	17		9	9	9	9	9	9	9 .	0	9	9	9	0	9	9	9	9	9	0	9	9	9	
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MOVED CUM 0.0 3.55 9.46 16.97 16.97 16.97 18.96 34.69 36.02 36.02	0.0 2.58 6.11 9.21 19.66 31.41 34.13 35.23 36.44	MOVED CUM CUM 0.39 0.39 0.56 0.36 0.08 1.01 1.01	0.0 0.18 0.33 0.33 0.33 0.57 0.57 0.62
DISTANCE 1NCR 1NCR 1 3.55 3.55 5.92 7.51 6.53 6.35 0.81 0.81	2.58 3.53 3.10 3.10 5.33 6.33 1.10 1.10	DISTANCE 0.00 0.03 0.03 0.03 0.03 0.03 0.04 0.06 0.06 0.08	0000000000
	453.68 455.40 455.40 395.99 30.33 30.33 114.03 114.03	95 PCT 4.29 4.32 4.35 4.35 4.36 4.41 4.41 4.41	444 444 447 33 4444 447 447 447 447 447
DINATE 5 PCT 13.64 13.64 13.69 27.97 33.57 33.57 41.32 42.31	42.48 35.65 29.49 25.02 21.91 11.43 10.11 12.56 12.56	-ORDINATE	2.82 2.77 2.77 2.90 2.90 2.81 2.88 2.88 2.88
or .	0.37 2.97 5.38 3.02 3.22 3.25 3.31 2.73 0.72	CCO-OF SE 0.45 0.44 0.44 0.44 0.44 0.44 0.44	00000000000000000000000000000000000000
MEAN HEAN 112.76 115.89 20.88 22.09 32.04 35.77 41.19 41.19 41.19 42.37 42.37	43.04 40.52 40.52 34.41 30.31 26.12 26.12 11.15 11.15 11.74	MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	
95 PCT 11.24 11.25 11.50 11.60 11.63 11.63 11.63	111.33 111.00 10.23 9.77 9.54 11.19 111.19 110.72 11.05	95 PCT 7.96 7.70 7.62 7.62 7.72 7.72 7.89 7.89 7.89 7.89	7.80 7.95 7.93 8.00 7.97 7.86 7.76 7.76 7.95
5 PCT 5 PCT 7 PCT	7.86 6.08 6.08 6.13 6.23 7.65 7.77 7.77 8.91	D INATE	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00
- CO-ORD SE 0.48 0.48 0.62 1.22 1.22 1.22 1.22 1.20 0.95	9.77 0.95 8.57 0.96 8.57 1.52 8.01 1.03 8.01 1.03 8.05 1.39 8.05 1.39 8.9 1.04 9.82 0.55 0.13 0.56	OCO-ORD OCO-OCO-OCO-OCO-OCO-OCO-OCO-OCO-OCO-OCO	0.58 0.57 0.68 0.68 0.68 0.69 0.69 0.69
- LT GRIP MEAN 10.13 10.44 9.83 9.50 9.78 9.78 9.78	9.43 8.48 8.48 8.05 8.05 8.05 8.05 9.48 10.13	MEAN 6.82 6.92 6.92 6.77 6.74 6.71 6.81 6.80 6.80	6.85 7.01 6.93 6.88 6.73 6.77 6.82 6.82 6.82
10.25 10.27 10.47 10.47 10.47 10.47 10.47 10.47 10.47 10.28 10.28	1.02 1.01 2.70 3.83 7.56 10.91 15.29 18.56 18.56 18.94 17.93 18.04	95 PCT 95 PCT 964 B3.64 93.64 93.64 93.64 93.64 93.99 93.99 94.00	44.88.88.88.88.88.88.88.88.88.88.88.88.8
DINATE	-3.23 -3.14 -3.42 -1.47 0.47 0.21 10.31 14.93 16.13	0-ORDINATE	2.58 2.58 2.58 2.58 2.58 2.68 2.68 2.68 2.68
- CO-OR SE 0.58 0.58 1.58 1.46 1.46 1.11 1.13	1.29 1.627 1.687 2.16 2.17 2.52 1.55 1.55 0.91	, , , , , , , , , , , , , ,	0.73 0.73 0.39 0.39 0.20 0.20 0.20 0.23
MEAN HEAN 17.09 15.44 12.31 7.88 3.81 0.73 -2.56 -2.19 -2.19	-1.10 -0.36 -0.36 1.00 -0.06 11.25 11.25 11.25 11.64 11.09	MEAN 3.37 3.00 2.94 2.94 2.99 8.20 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	3.15 3.20 3.21 3.21 3.13 3.20 3.20 3.23
SAMPLE SIZE*N 7 7 7 7 6 6 6	7777777000	SAMPLE SIZE,N 7	
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DISTANCE	INCK	0.0	0.89	1.56	76.7	3.54	5.69	3.45	2.83	0.82	000	0 0	0.65	0.0	1.88	200	*6.7	3.80	5.09	3.04	2.33	1.37	9 0	900	71.0	99.0		DISTANCE	CONT		2.24	40.4	4.52	7 4 4	000	7.50	1 1 1 2	1.13	1.23	11.0	0-11	0.0	1.19	3.61	67.4	4.93	000	000	2000	3.83	2.43	1.71	1.11	
(	95 PC1	16.09	15.80	18.08	22.13	26.72	26.67	29.03	31,35	30.01	21 14	10000	30.34	30.94	30.82	2000	31.31	31.61	26.27	23.42	20.96	18.04	-	6401	16,51	16.09		-	OS DCT	13 88	16.97	21.63	27.33	32.63	200	32.00	01.74	20.65	40.07	60.14	40-71	40-71	39.96	40.35	38-13	35.16	20 62	00.07	23.83	10.02	17.47	15.36	13.88	
DINA	D PCI	10.81	11.07	11.64	17.10	15.86	21.24	24.53	26.32	27.03	20 13	20.20	29.30	29.30	26.80	200	60.17	13.82	15.00	11.84	10.50	10.00		77.07	10.50	10.81		POINATE		12 14	12.57	15.04	20.62	25.35	22.00	37.00	07.16	20.00	31.15	38.41	38.97	38.97	37.50	30.66	24.21	18.36	000	00.01	10.00	14.15	13.21	12.43	12.14	
- C0-08	SE	1.61	1.44	1.96	3.04	3.31	1.66	1.37	1.53	100	114	100	0.00	0-50	1.23		3.13	5.42	3.44	3.53	3.19	2.73	2000	77.7	1.85	1.61		0-05 - 7		2 2 2	1 34		2007	2 2 2 2	7.00	1001	2000	66.00	0.80	0.82	0.53	0.53	0.75	20.0	4. 74	5.12	2 10	2019	61.7	1.79	1.30	0.00	0.53	
7)	MEAN	13.45	13.44	14.86	17.14	21.29	23.95	26.78	28.84	2000	20 - 2	20.00	30-15	30-12	28.41	1000	57.97	22.71	20.64	17.63	15.73	14.47	1000	13.85	13.54	13.45		,	14.77	MEAN	16.77	10 23	23 07	20 00	66.07	26.28	10.10	51.33	39.10	39.75	39.84	39.84	38.73	25 50	31 17	24.74	22 . 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	16.67	50.20	17.38	15.34	13.89	13.01	
	95 PC I	14.16	14.15	14.40	15.38	15.94	15.29	14.50	14.20	12 72	13 03	76.61	13.52	13.52	10.41	10.41	14.53	15.55	15.21	15.79	15.78	16.01	74.47	13.98	13.54	14.16	(72)	1	100	13 66	11 66	12 27	12.31	12 74	12.00	12.80	17.21	74.71	11.94	11.79	11.50	11.50	11.57	11 66	11 46	11 22	11 10	91-11	10.63	13.89	11.20	11.50	11.55	
O INATE-	5 PCI	9.18	10.67	11.12	10.84	10.39	10.99	11.23	10.91	10 33	70.07	74.6	9.33	9.33	10 40	10.49	11.29	12.03	12.53	11.63	10 01	900	00-11	11.50	11-11	9.18	ER	PRINATE	TOUR STORY	2 60	10 67	1	7.40	10.0	0.00	8.31	8.40	8.95	87.6	04.6	6.65	9.65	44.0	0	0 4 9	9 0	000	7001	8.29	8.68	9.38	9.71	9.84	
- CO-ORD	SE	1.52	1.06	1.00	1.38	1.69	1.31	1.00	1.00	200	100	10.31	1.28	1.28	1	100	65.0	1.07	0.82	1.27	1 52	1 17	17.7	0.75	0.74	1.52	IST CENTER			S C	75.00		0.88	1.20	40.7	1.39	1.32	1.06	0.81	0-13	0.56	0.56	944		000		7.00	4.03	0.11	19.0	0.55	0.55	0.52	
- A)	MEAN	11.67	15.41	12.76	13.11	13.17	13.14	12.87	12.55	2000	70.71	10.11	11.42	11.42	12 25	17.00	15.91	13.79	13.87	13.71	12 20	200	10.00	12.14	12.32	11.67	- LT WRI						10.01										2000	20.00	100	50.01	60.6	9.50	44.6	61.6	10.29	10.60	10.69	
1	95 PCT	5.81	3.53	2.71	3.31	4.05	4.45	2.89	2.71	41.0	77.0-	-0.03	-0.62	-0.63	200	67.0	1.25	2.61	2.17	2. AO	200	2 6 2	3.04	4.15	4.91	5.81	LANDMARK	•		ъ.	٠.	٠.								•									-	-	_	-	14.52	
DINATE	5 PCT	0.91	2.21	1.95	1.09	0.24	-0.96	-3.32	80 4-	000	14.40	17.6-	-5.28	15. 28	2.50	00.4	-2.53	-1.62	-1.24	10-46		000	-	1.37	1.60	0.91				5 PCI	15.84	66.11	8 86	18 - 4	1.20	-0.36	-5.84	-3.49	-3.66	-2.36	-2.50	0	2 3 3 4	07.7-	67-1-	60.01	60.0	3.94	6.10	7.86	69.6	11.42	12.84	
- C0-08	S	1.49							•	•	•		•	1 43	7. 1	1.34	1.15	1.29	1.22	0		000	0.8	0.85	10.1	1.49			'	SE	0.51	0.08	0.96	1.44	1.83	1.46	3.08	1.32	1.18	0.64	0.81		18.0	0.80	6.0	1.00	2.31	1.48	1.41	1.63	1.49	0.97	0.51	
X)	MEAN	3.36	2.87	2.33	2.20	2.15	1.75					-2.90		30 6	66.7-	-1.88	-0.64	0.50	77.0	1 17	4.	7.0	61.7	2.76	3.26	3.36			-	Σ ,	51	71	2	-	4	~	9	7	7	7		•	41	- 1	2	2	0	3	4	S	7	0	13.68	
SAMPLE	SIZE,N	9	9	9	9	9	9	7		- 1	-	2	2	u	n 1	2	9	9	4	0 4		0 .	٥	9	9	9			SAMPLE	SIZE,N	^ '	0	· 2	9	9	9	9	9	9	2	2		n 1	0	01	- 1	-	7	9	9	2	2	0 0	
TIME	_	0.0	0.10	0	0 0.30	0	0	0	,	9	0	06.0	1.00	0	0.0	0.10	0.20	0	-	, ,	,	00.00	•	_	06.0	1.00			INE	-	0.0	9	F 0.20	0	0	0	0	0	0	06.0	1.00		0.0	01.0	9	0	0	0	0	R 0.70	0	0	1.00	

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 to Panel controller at +23.0, +10.0, +23.0 and returns. This movement is preceded by Left Hand moving from Throttle controller at +18.0, +10.0, +12.4 to Stick controller and is followed by Left Hand returning back to Stick controller.

MOTICN NUMBER - 11140 BACK ANGLE - 30

SUB-MOVEMENT		TIME DATA	A	1	!!!	
	MEAN	STO DEV		24	3 ANGE	
RGHT FWD	0.77	0.14	09.0	1	3.60 TJ 1.00 SECS	SECS
RGHT REV	0.71	0.13	0.50 TJ	CI	0.95 SECS	SECS

NEAN   SE   PCT   NEAN   SE   NEAN   SE
AMPLE   CO-ORDINATE   CO-ORD
AMPLE (
AMPLE  7
AMPLE ( X - CO-ORDINATE
AMPLE (x - CO-ORC 12E,N   HEAN   SE   1.96   1
AMPLE ( X - CO-O  12E,N HEAN SE  7 0.46 1.36  7 0.46 1.41  7 0.50 1.51  7 0.50 1.61  7 0.55 1.67  7 0.55 1.67  7 0.57 1.81  7 0.82 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.95  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.81  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  7 0.87 1.87  8 0.88 1.87  8 0.88 1.88  7 0.88 1.88  7 0.88 1.88  7 0.88 1.88  7 0.88 1.88  7 0.88 1.88  7 0.88 1.88  7 0.89 1.85  7 0.89 1.89  7 0.89  7 0.89 1.89  7 0.89 1.89  7 0.89 1.89  7 0.89 1.89  7 0.89 1.89
AMPLE (
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ZMFDKZ

A DVED	COM	0.0	0.80	1.12	1.24	1.37	2.26	2.57	69.7	3.41	3.95		0.0	0.53	0.36	99.0	06.0	1.25	1.75	2.03	2.28	64.7	60.7			TUVED	500	1.63	1.74	2.17	2.88	3.70	4.75	0.0	11.0	7.64	0	0.0	0000	1.58	10.2	2.15	3.00	3.45	4.62	100
DISTANCE	INCR	0.0	08.0	0.31	0.12	0.63	0.39	16.0	20.00	70.0	0.18		0.0	0.23	0.13	3.30	0.54	0.35	0000	0.28	0.25	0.00	•			LISTANCE	200	2.6	0.11	0.43	0.70	0.83	1.05	1.20	40.00	19.0	0	0.0	000	200	0.13	200	0.00	0.30	0.36	0000
	95 PCT	23.13	22.67	22.77	22.11	22.79	81.27	23.05	23 07	26.23	24.33		24.33	87.47	29.67	23.37	23.34	17.67	77.67	23.21	23.00	23 : 2					22 70	22.49	22.75	23.10	23.53	24.02	24.59	62.62	24.65	24.55	37, 55	64.55	70.47	76.47	72 57	73 50	23 00	23.16	23.08	0000
0	5 PCT	18.34	19.27	19.25	19.38	19.20	19.34	24.61	10 23	18.05	19.11	:	11.61	66.97	17.61	11.61	10.01	10.00	10.03	18.38	10 22	18.34			DIMATE		18.64	18.61	18,33	18.60	19.20	16.61	20.05	23 66	22.17	22.43	23 73	21.03	21 50	21.00	20 48	10.70	10.64	19.18	18.94	
- C0-03	SE	1.46	1.04	1.07	1.03	1.09	1.00	1 23	1 20	1.61	1.59		1.59	10.1	1.39	87.7	1001	1.50	14.1	1.41	1.50	1.46				200	1.24	1.18	1.35	1.37	1.32	1.38	1.39	1001	0.76	0.65	4 0	0.00	20.0	000	0.0	1.16	1.05	1.21	1.26	1111
7)	MEAN	20.73	20.97	21.31	16.17	21.30	21 25	2: 44	21.40	21.59	21.12		21.12	40.17	21.00	77.17	60.17	16.02	50.00	20.80	20.14	20-73			,	NATA	20-67	20.55	20.54	20.85	21.37	21.76	25.32	22.31	23.41	23.49	23.60	23.27	22.51	22.57	22.19	21.50	21.37	21.17	21.01	1
1	95 PCT	3.92	3.32	71.7	80.7	28.5	2000	3.75	4.95	5-75	6.00		20.00		1. N	7.0	7.00	4.77	00.	4.52	3 BA	3.92		7		35 PCT	-5.34	-6.28	-6.26	-5.99	-5.44	-4.78	-3.78	20.7	-1-63	-0.98	-0.98	-1.23	-1.76	-2.36	-2-87	-3.31	-4-30	-4.45	-4.59	
DINATE-	5 PCT	-0.63	19.0-	50.00	67.0-	10.00	1204	1.34	1.00	0.00	0.60	0	000	000	1.50	100	000	34		10.13	-0-34	-0-63		_	F. TNATE	5 PCT	-8.44	-8.57	-8.41	-8.15	16.1-	-7.61	-1.39	-7.29	-6.74	-6.45	-6.45	-6-55	-6-83	-7-13	-7.73	-8-67	-8-21	-8.20	-8.72	
- CO-08	SE	1.39	1.22	50.0	7.	00.00	0.62	0-73	1.21	1.48	1.56	73 .	1 48	000	1 23	1 34	280	1.28	1 4.2	1.42	1.28	1.39		NOIM	- CD-DR	SE	0.95	0. 70	0.65	99.0	0.77	0.86	07.7	1.75	1.56	1.67	1.67	1.62	1.54	1.45	1.48	1.63	1.19	1.16	1.26	1
											3.45		3.33	34.4	3.00	2 10	0 1	2.46	0	1.95	1.76	1.65		- RT ACROMION	Y)	MEAN	-6.89	-7.42	-7.34	-7.07	-6.71	61.9-	40.01	-4-42	-4-19	-3.71	-3.71	-3.89	-4.29	-4-74	-5.30	-5.99	-6.26	-6.36	99.9-	
(	95 PCT	09.0	10.01	000	10.5	-0-39	-0-30	-0.17	-0.07	-0-11	60.0	00	-0-16	-0.10	0.01	0.0	0-12	0-10	25	0.03	0.22	0.00		ANDHARK	[	95 PCT	-1.81	-3.44	-3.29	-3.01	-2.51	+9.T-	00.00	-0.42	-0.37	0.02	0.02	-0.04	-0-71	-1-19	-1.37	-1.58	-1.76	-1.79	-1.74	
DINATE	5 PCT	-3.85	14.08	10.01	-3.03	-3.81	-3.81	-3.70	-3.28	-3.17	1.07 -3.43	-7.43	-3.52	-3.78	-4-12	-6.37	-4-16	-3.70	-3.35	-3-61	-3.70	-3.85		_	DINATE	5 PCT	-4.76	-6.21	-6.24	-6.25	-6.13	16.6-	0000	-3.28	-3.27	-2.91	-2.91	-3.67	-4-12	-4-50	-4.79	-4.58	-4.32	-4.71	-4.52	
- 00-06	SE.	1.36	1.00	1.38	1.03	1.04	1.07	1.08	0.98	0.93	1.07	1.07	1.02	1.12	1.26	1.34	1. 31	1.16	0.92	1.11	1.20	1.36			- CO-OR	SE	0. 30	0.84	0. 30	66 0	1.10	76.1	1.46	0.87	0.88	0.89	0.89	1.11	1.04	1.01	1.04	0.92	0.78	0.89	0.85	000
;	EAN	0	-2.53	5	2	12	0.05	.94	19	69	.67	-1-67	-1.84	-1.94	-2.05	-2.17	-2.02	-1.80	-1.85	-1.79	-1.74	-1.63			×								-2.30				-1.45	-1.86	-2.41	-2.84	-3.08	-3.08	-3.04	-3.25	-3.13	
SAMPLE	SILEON	- 1	- 1		7	7	7	7	7	7	7	7	_	7	7	7	7	7	7	7	7	7			SAMPLE	SIZE,N	7	7	1	- 1	- 1	- 1		7	7	7	7	7	7	7	7	7	7	7	7	•
TIME	- 0		01.0	0.30	0.40	0.50	09.0	0.70	0.80	06.0	1.00	0.0	0.10	0.00	0.30	0.40	0.50	0.00	0.70	0.80	06.0	1.00			TIME	1	0.0	0.10	0.20	0.30	04.0	000	0.70	0.80	06.0	1.00	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	000

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	I							-	7	1	-	7	2					7	7	7	7	-	-	-
	DISTANCE	INCR	0.0	1.59	0.97	1.69	2.74	3.47	3.43	2.86	1.72	1.14	1.15	0.0	1.67	2.64	3.25	3.52	3.00	2.15	1.15	0.61	0.23	0.12
	(	95 PCT	14.48	16.52	18.41	21.37	23.60	25.04	25.98	26.03	25.48	25.12	24.41	24.41	26.59	27.40	26.77	24.26	20.17	17.85	15.83	14.72	14.45	14.48
	DINATE-	5 PCT	13.44	12.18	12.14	12.45	15.03	18.90	21.48	23.05	23.70	23.60	23.04	23.04	22.08	20.86	18.93	16.75	15.10	13.76	13.59	13.70	13.54	13.44
	- C0-08	SE	0.32	1.32	16.1	2.72	2.61	1.87	1.37	0.91	0.54	0.46	0.45	0.42	1.38	1.99	2.39	2.29	1.73	1.25	0.68	0.31	0.28	0.32
	7)	MEAN	13.96	14.35	15.27	16.91	19.31	21.37	23.73	24.54	24.59	24.36	23.73	23.73	24.34	24.13	22.35	23.51	17.93	15.84	14.71	14.21	14.30	13.90
16)	(	35 PCT	-0.22	-0.80	-1.14	0.19	2.86	5.43	8.19	10.37	10.32	10.03	12.12	12.12	11.25	8.25	4.38	1.27	-0.32	-0.52	-0.45	+4°C-	-0.55	-0.22
	DINATE-	5 PCT	-2.71	-4.28	-4.08	-5.02	-5.11	-3.19	-0-14	2.91	10.9	7.84	5.58	5.58	3.92	16.1	-0.17	-2.31	-3.74	-4-16	-3.62	-2.91	-2.62	-2.71
P CENTER	- CO-OR	SE	0.76	1.06	06.0	1.59	2.43	2.62	2.54	2.27	1.31	69.0	1.99	1.99	2.24	1.93	1.39	1.09	1.04	11-11	0.98	0.75	0.63	0.76
- RT GRIP	١)	MEAN	-1.47	-2.54	-2.61	-2.42	-1.12	1.11	4.03	49.9	8.16	8.96	8.85	8.85	7.59	5.08	2.10	-0.52	-2.03	-2.34	-2.02	-1.67	-1.59	-1.47
ANDMARK	(	95 PCT	20.37	19.39	19.20	18.77	18.58	18.51	18.98	19.70	20.48	20.87	21.88	21.88	21.13	20.97	21.08	21.44	21.63	50.99	20.39	20.30	20.38	20.37
_	DINATE	5 PCT	17.28	16.05	15.65	15.33	15.06	14.96	15.31	16.23	17.05	18.21	19.10	19.10	18.04	16.68	15.99	15.95	16.48	17.17	17.49	17,37	17.27	17.28
	- 00-3	SE	46.0	1.32	1.08	1.05	1.07	1.03	1.12	1.05	1.05	0.81	0.85	0.85	46.0	1.31	1.55	1.67	1.57	1.16	0.88	0.83	0.95	<b>96 °0</b>
	X)	MEAN	18.82	17.72	17.43	17.05	16.82	16.74	17.14	17.97	18.76	19.54	20-49	20.49	19.58	18.82	18.53	18.70	19.06	19.08	18.94	13.84	18.82	18.85
	SAMPLE	S 12E, N	7	7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	7	7	7	7	7	1
	TIME	_	0.0	0.10	F 0.20	0.30	3 0.40	0.50	09.0 A	4 0.70	08.00	06.0	1.00	0.0	0.10	0.20	R 0.30	E 0.40	0.50	09.00	8 0.10	08.0	06.0	1.00

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CUM CUM 0.00 1.50 2.56 4.25 6.425 11.0.46 11.0.46 11.0.46 11.0.46 11.0.76 1.0.7

MUVED	COM	0.0	97.0	0.37	94.0	0.51	0.74	0.86	0.94	1.08	1.13	1.27	0.0	0.13	91.0	0.19	0.35	0.56	0.67	0.85	0.92	0.95	
DISTANCE	INCR	0.0	0.16	0.20	60.0	0.05	0.23	0.12	0.08	0.14	0.05	0.15	0.0	0.13	0.03	0.03	0.17	0.50	0.10	0.18	20.0	0.0	
[	95 PCT	4.57	4.60	4.61	4.61	4.72	4.60	4.50	4.43	4.56	4.59	4.51	4.51	4.54	4.60	4.62	4.62	4.60	4.53	4.50	4.56	4.57	
DINATE-	5 PCT	2.70	2.63	2.64	2.77	2.73	2.73	2.73	2.82	2.86	2.93	3.02	3.02	2.86	2.82	2.78	2.69	2.67	2.75	2.71	2.68	2.64	
- CO-OR	SE	0.57	09.0	09.0	0.56	0.61	0.57	0.54	64.0	0.52	0.52	0.45	0.45	0.51	0.54	0.53	0.59	0.59	0.54	0.55	0.57	0.59	
7)	MEAN	3.54	3.61	3.53	3.69	3.73	3.57	3.51	3.53	3.74	3.75	3.77	3.17	3.70	3.71	3.70	3.50	3.53	3.54	3.50	3.52	3.54	
(	95 PCT	-5.88	-5.92	-5.97	-5.91	-5.82	-5.78	-5.87	-6.07	-5.85	-5.85	-5.73	-5.70	-5.83	-5.95	16.5-	-5.83	-5.67	-5.63	-6.01	-5.94	-5.97	
ID INATE-	5 PCT	-8.66	-8.93	-8.70	-8.72	-8.82	-8.95	+0.6-	-8.77	-8.90	-8.97	-8.88	-8.88	-8.92	-8.82	-8.90	+0.6-	-8.81	-8.94	-8.87	-8.80	-8.84	
- CO-OR	SE	0.85	16.0	0.83	0.86	0.92	0.97	16.0	0.82	0.92	0.95	16.0	16.0	0.94	0.88	0.91	.66.0	96.0	1.01	0.87	0.89	0.87	
١)	MEAN	-7.27	-7.41	-7.34	-7.32	-7.32	-7.36	-7.46	-7.42	-7.38	-7.41	-7.29	-7.29	-7.38	-7.38	-7.40	-7.42	-7.24	-7.29	44.1-	-7.40	-7.40	
(	95 PCT	5.41	5.59	5.05	4.80	4.59	5.23	5.30	5.22	5.29	5.31	5.27	5.27	5.08	5.10	5.26	5.19	4.96	4.86	5.39	5.35	5.32	
DINATE	5 PCT	1.27	0.92	1.08	1.45	1.73	1.53	1.58	1.54	1.27	1.24	1.45	1.45	1.50	1.55	1.36	1.10	1.45	1.37	1.02	16.0	0.92	
- C0-08	SE	1.26	1.42	1.21	1.02	0.87	1.13	1.13	1.12	1.23	1.24	1.17	1.17	1.09	1.08	1.19	1.25	1.07	1.07	1.33	1.34	1.34	
X)	MEAN	3.34	3.26	3.07	3.12	3.16	3.38	3.44	3.33	3.28	3.27	3.36	3.36	3.29	3.32	3.31	3.14	3.21	3.11	3.20	3.16	3.12	
SAMPLE	SIZE,N	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	7	
TIME	-	0.0	0.0	0.20	0.30	0.40	0.50	09.0	0.10	0.80	0.00	1.00	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	06.0	

 $\alpha \cup - \supset \alpha Z$ 

TOXBAXO

X W L D X Z

0
3
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7
NO
HVMT

MOVED	0.0	0.04	0.10	0.18	0.24	0.30	0.34	0.39	44.0	0.52	0.13	0.0	0.05	60.0	0.16	0.23	0.29	0.52	0.60	0.64	0.12	0.86		MOVED	NO O	0.0	1.86	2.04	2.37	76.7	7 200	5.72	6.41	16.91	1.64	0.0	0.53	1.45	2.20	2.72	3.20	3.73	60.4	4.35	69.4
DISTANCE	0.0	0.04	90.0	10.0	0.07	90.0	40.0	0.04	0.05	60.0	0.21	0.0	0.05	0.04	0.08	10.0	0.05	0.23	0.08	0.04	0.08	0.14		DISTANCE	INCR	0.0	1.86	0.18	0.34	40.0	* 0	1.18	0.68	0.57	0.67	0.0	0.53	0.92	0.75	0.52	0.48	0.53	0.36	0.26	0.34
170 30	12.88	13.05	12.99	12.92	12.98	15.91	15.96	13.01	12.92	15.90	12.92	12.92	12.95	12.96	12.87	12.75	12.65	12.68	12.85	12.92	12.89	12.88		(	95 PCT	20.83	20.17	20.99	21.33	61.17	22 30	22.71	22.74	22.66	22.73	22.73	22.55	22.20	16.12	21.73	21.53	21.25	51.05	20.91	20.80
DINATE	9.82	9.64	69.6	9.86	9.85	9.87	9.84	9.85	68.6	9.83	9.84	9.84	9.83	9.79	61.6	9.80	9.86	9.84	6.17	9.76	61.6	9.85		DINATE-								19.27				20.98	20.44	19.80	19.17	18.49	66.71	17.59	17.19	16.91	16.83
- CO-OR	0.93	1.04	10.1	0.93	96.0	0.93	0.95	0.97	0.92	46.0	76.0	96.0	0.95	0.97	0.94	06.0	0.85	0.87	0.94	96.0	0.04	0.93		- CO-OR	SE	1.27	1.28	1.37	1.45	1.50	1.32	1.05	0.83	0.62	0.53	0.53	0.64	0.73	0.83	66.0	1.08	1.11	1.18	1.20	1.21
7)	11.35	11.35	11.34	11.39	11.40	11.39	11.40	11.42	11.41	11.30	11.38	11.38	11.39	11.33	11.33	11.27	11.25	11.26	11.31	11.34	11.34	11.35		7)								20.99				21.85	21.49	21.00	20.54	20.11	19.76	19.45	71.61	18.94	18.81
100 30	-4-22	-4.25	-4.25	-4.36	-4.53	-4.49	-4.34	-4.22	-4.35	-4.25	-4.36	-4.36	-4.46	44.4-	-4.36	-4.14	-4.30	-4.40	-4.31	-4.23	-4.37	-4.22	(22)	()	95 PCT	-5.46	-5.72	-5.60	-5.35	-5.00	14.60	13.11	-2.16	-1.92	-1.33	-1.33	-1.54	-2.22	-2.73	-3.33	-3.76	-4.26	14.47	-4.72	-5.00
ORD INATE-	-6-30	-6.90	-7.00	-6.80	-6.54	-6.53	19.9-	-6.74	-6.54	69.9-	-6.16	-6.16	-6.13	-6.23	-6.34	14.9-	-6.42	-6.72	-6.85	-6.97	66.9-	-6.90	CENTER	RD INATE-	5 PCT	-7.67	-8.00	-7.81	-7.61	-7.41	10.40	-7-14	-7.09	-6.53	-5.86	-5.86	-6.33	-7.11	-7.49	-7.41	-7.59	-7.77	-7.90	-8.04	-8 24
- 00-03	0.82	0.81	0.8	0.75	0.61	0.63	69.0	0.77	0.67	0.74	0.55	0.55	0.51	0.55	9.0	0.71	0.64	0.71	0.78	0.84	0.80	0.85	SHUULDER CI	Y - CO-0R0 I	SE	0.68	69.0	19.0	69.0	6.13	98	1.23	1.50	1.41	1.38	1.38	1.46	1.49	1.45	1.25	1.17	1.07	1.05	10.1	00
¥)	15.56	-5.58	-5.63	-5.58	-5.53	-5.49	-5.47	-5.48	-5.45	-5.47	-5.26	-5.26	-5.29	-5.33	-5.35	-5.31	-5.36	-5.56	-5.58	-5.60	-5.68	-5.56	- RT SHOU	Y)								-5.13				-3.59	-3.94	-4.66	-5.11	-5.36	-5.68	-6.02	67.9-	-6.33	14.63
150 90	19.00	16.61	16.61	19.95	19.85	19.92	16.61	19.92	20.04	19.90	50.02	20.05	20.00	20.00	19.96	19.82	20.04	20.06	19.76	19.93	20.02	19.90	LANDMARK	(	95 PCT	-0.26	-1.40	-1.37	-1.25	-1.18	96-0-	0.30	0.89	1.26	1.73	1.73	1.42	69.0	0.03	-0.26	-0-18	-0.68	-0.73	-0.68	-0 24
DINATE-	17.93	18.01	17.94	17.92	17.93	17.94	17.97	18.10	18.05	18.05	17.83	17.83	17.95	17.96	18.12	18.27	18.05	17.80	17.97	17.76	17.67	17.93	-	ADINATE-								-2.45				-2.21	-2.31	2	~	2	-2.49	2	-2.57	-2.62	-2 40
- CO-3R	0.60	0.53	0.60	0.62	0.59	0.60	79.0	0.56	3.63	0.56	0.68	0.68	0.63	0.62	0.56	0.47	19.0	69.0	0.55	0.66	0.12	0.63		- 60-0	SE	0.70	1.13	1.10	01-1	0.98	0.19		0.91	0.95	1.20	1.20	1.14	0.86	69.0	0.61	0.73	0.53	0.56	0.59	74
×	JA OZ	18.96	00	œ	B	æ	B	9	9	æ	œ	18.94		00	19.04	9	9	æ	8.8	18.84	8.8	8.9		X)	MEAN	-1.42	-3.25	-3.18	-3.06	-2.78	-2.25	10.11	-0.63	-0.59	-0.24	-0.24	-0.44	-0.72	-1.11	-1.27	-1.33	-1.54	-1.65	-1.65	-1 1.4
SAMPLE	317E9N	- ~	7	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	7	1		SAMPLE	SIZE,N	7	7	7	7	7	- 1	- 1		1	7	7	- ~	7	7	7	7	7	7	7	1
LINE	- 0	01.0	0.20	0.30	0.40	0.50	09.0	0.10	0.80	0.00	1.00	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	06.0	1.00		TIME	-	0.0	01.0	0.50	0.30	0 * 0	0.50	000	0.80	0.00	1.00	0.0	0.10	0.20	0:00	0.40	0.50	09.0	0.10	0.80	000

TOXBAXO

ME	SAMPLE	X)	0-00 -	RDINATE-	(	()	- 60-00	DINATE						
<b>—</b>	SIZE,N	MEAN	SE	S PCT	1 JG 5 6	MEAN	0	L DO T	1	7	- 00-03	DINATE	(	018
0	7	15.24	15.0	14 40	900	-2 42	200	2 76	30 K	MEAN	SE	5 PCT	95 PCT	
10	9	14.21	000	- 2 - 4	10000	70.7	0.00	-3.68	-1.56	13.18	0.21	12.83	13.53	
20	) 1	13 04	70.0	12.10	12.12	-3.52	95.0	-5.09	-1.94	13.59	1.58	11.10	16.29	
000	- 1	12.90	0.00	14.71	15.52	-3.09	1.40	-5.38	-0.83	15.01	2.58	10.78	19.25	
200	-	13.90	1.05	12.18	15.62	-2.46	2.78	-7.32	2.10	16 76	200		73.66	
40	7	13.98	1.15	12.10	15.85	-1.98	2 - 44	100	200	0 - 0	0.00	17.01	73.54	
20	9	13.98	1.25	11.94	16.03				20.7	47.07	7.50	14.53	21.74	
09	9	14.41	1 1 4	100	000	100	70 - 7	87.4-	4.37	50.54	2.05	16.87	23.60	
70	0 4	15 20	01.	16.21	76.01	2.30	75.2	-1.32	7.12	22.15	1.48	19.73	24.57	
		07.67	61.1	13.43	11.13	5.33	2.45	1.31	9.35	23.27	0.97	21.67	24 94	
90	0	12.96	1.05	14.23	17.69	7.19	2.19	3.59	10.79	23.76	0	22 14	2000	
06	9	16.65	0.86	15.24	18.05	7.02	0.98	5.41	24	22	0 0	07.77	25.51	
3	9	17.35	0.77	16.10	10 41	7 23		4 6	0	77.67	0.04	66.33	54.09	
					10.01	07-1	10.7	3.80	13.60	22.31	0.44	22.09	23.53	
0	9	17.35	0.77	16.10	18.61	7.20	2.07	3.80	13 60					
10	9	16.73	1.14	14 94	10 67	2 2 3		000	00.01	78.77	0.44	55.09	23.53	
20	4	14 07	200	100	10.01	2000	97.7	78-1	9.54	22.85	1.15	20.95	24.75	
0 0	0 1	10.01	4007	13.18	18.35	3.16	2.17	-0.40	6.72	22.29	1.56	19.73	24.85	
0 0	- 1	77.61	1.39	13.44	18.01	0.10	4.36	-2.13	2.33	20.50	1.81	17.64	73 56	
2		15.37	1.29	13.25	17.50	-2.84	2.03	-6.18	0.49	18.73	2 2 2		0000	
20	7	15.48	1.16	13.57	17.38	-3.14	O. BO	-4 45	-1 -2			67047	19.17	
09	7	15.34	0.83	13.89	16.78	-3 63	000	7.4	50.7	10.35	77.7	14.95	18.94	
70	7	15.25	0.47	76 76			0.0	14.00	04.7-	15.15	96.0	13.57	16.73	
0		2000		+7.47	10.33	-3.41	0.81	61.4-	-2.15	14.10	0.59	13.14	15.06	
0 0	- 1	17.61	70.0	14.25	16.29	-3.17	0.76	-4.41	-1.93	13.55	0.28	13.00	14.00	
2	-	15.25	0.57	14.31	16.19	-2.98	0.74	-4-20	-1.76	13.27	3-0		000	
00	7	15.24	0.51	14.40	16.08	-2.62	0.65	-2.42	-1 54	13.61	0.10	10.61	13.54	_
							1	•	1.00	07.67	77-0	12.83	13.53	

AUVED CUM 0.0 1.46 2.87 4.72 6.18 9.08 12.57 15.38 17.42 18.32

STANCE INCR 0.0 0.0 1..46 11..46 11..46 2.89 3.49 3.49 3.00 0.90 0.0 1.80 4.31 7.62 11.77 12.87 14.74 15.80 15.80

0.0 2.51 3.551 3.955 11.10 11.87 0.63 0.33

11140/33

ON

HVHT

X M L D X Z

CUM 0.0 1.63 1.93 2.43 4.06 6.50 6.50 9.51 12.50 14.82 15.04

95 PCT 12.74 14.25 14.25 16.29 18.14 20.11 22.41 23.84 22.52

SE 5 PCT 0.71 10.40 1.62 9.65 1.62 9.85 2.12 9.32 2.12 9.38 2.57 11.70 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90 2.51 13.90

MEAN 111.57 112.24 112.34 112.34 112.34 114.04 115.90 118.01 119.70 20.91 20.94

1 5 PCT 1 5 PCT 1 5 PCT 1 5 PCT 1 6 PCT 1 6 PCT 1 7 PCT 1 PCT 

INATE-5 PCT -7.19 -8.58 -8.88 -8.80 -8.62 -8.62 -7.11 -7.66 -3.06 -1.25

SE 00.76 00.89 00.90 00.85 00.

MEAN MEAN MEAN 7.11 7.11 7.74 7.74 7.75 9.55 9.35 0.39

9.5 PCT 9.5 PCT 9.6 PCT 9.6 PCT 9.6 PCT 11.9 PCT 1

CENTER

ELBOW

- RT

0.0 1.89 4.45 7.57 7.57 9.39 11.14 12.23 12.94 13.34

10.0 2.56 3.112 3.112 11.75 11.75 00.40 00.40

22.52 21.72 20.05 20.06 117.12 117.12 115.40 114.36 113.23 112.94

19.27 18.66 17.32 14.46 13.08 11.88 10.95 10.22

0.999 11.228 11.228 11.028 11.004 0.90

20.90 20.19 18.59 16.50 15.10 13.54 12.56 11.56 11.58

3.28 -1.73 -2.57 -5.71 -5.71 -5.75 -4.78

-2.34 -3.23 -4.76 -7.76 -7.62 -7.65 -7.65 -7.63

1.72 1.18 0.92 i.57 0.58 0.52 0.57 0.77 0.87

& W - D & Z

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTICN NUMBER - 12140 BACK ANGLE - 30

SUB-MOVEMENT	-	TIME DAT	A	1	
	MEAN	MEAN STD DEV RANG	RANGE	NGE	
RGHT FWD	0.73	0.08	0.60 TO 0.80 SECS.	0.80	SECS.
RGHT REV	0.83	0.13	0.70 TO 1.00 SECS.	1.00	SHOA

7	u			4			
	0		1.8	3	0	.5	2
1	5		6.	0	0.5	.2	2
1	5		1.8	6	1.2	7	
1	0		.6	0	1.8	0	3
1	0.72	1.43	9	3.05	-2.23	7	
1	9		-	3.11	2.4	1.15	-4.33
				LANDMARK	- CERVICALE	ALE	
0	X)	0-0	NAT		١)	9	AT
IZE, N	EA	SE	5 PCT	2	EA	SE	5 PC
1	9.9	-	8.4	4.8	.6		9.
1	.8	0.	8.6	5.1	-		-
7	6.8	?	8.5	5.1	4.		2
1	-6.65		8.3	-4.95			7.
1	6.0	6.	8.1	5.1	80		6.
1	4.9	0	8.2	4.7	8		1.
7	6.0	0	7.7	4.	7		6.
1	5.6	0	7.4	6.	4.		0
1	5.4	6	6.	0	8		4.
7	.5	8	6.8	7	7.		8
7	5.4	1.	6.9	.2	3	1.04	1.65
7	5.4	7	6.5	~		0	4
1	-5.88	0.85	-7.28	-4.48	3.14	1.49	0.69
1	6.1	8	7.4	4.7	6	.3	
1	6.1	1.	7.4	4.8	80	4.	4.
1	4.	6.	6.	6.	4.	.2	6
7	6.5	0	8.2	4.8	7	0	4
-	9.9	0	8.3	6.4	8	0	7
1	6.5	0	8.2	1.	0	0	0
1	6.5	0	8.3	4.8	.2	-	9
1	6.5	6.	8.1	4.8	0	. 2	6
7	9	7	8.4	80	9	4.	9

TOKEATO

	0100	O A C	0.0	2.69	3.99	4.72	5.22	5.43	5.71	6.14	6.71	1.04	7.15	0-0	1.57	2.31	2.93	07.6	4.12	4.79	07.5	40.00	400	6-76			2000		9	0 0	000	1.30	1.63	2.13	2.67	3.17	3.43	3.69	c	20.0	0.92	1.12	1.57	1.88	2.22	2.49	2.86	3.11	3.52
	DISTANCE		0.0	2.69	1.30	0.72	0.50	0.22	0.28	0.45	0.57	0.33	0.11	0.0	1.57	0.75	0.50	0.50	1990	0-67	02-0	0.57	0.42	0.28		DISTANCE	1000	200	200	76.0	0.0	0.20	0.24	0.49	0.55	0.50	0.26	0.26	0	45.0	, 40	1	4		3	.2	0.38	.2	0.41
		OS DET	29.66	30.13	30.34	30-17	30.46	30.61	30.38	30.48	30.60	30.68	30.72	30.72	30.93	30.45	30-10	29.91	29.75	29-72	29.78	29.PR	29.84	29.66				23.47	23.58	23.57	23.60	23.73	23.88	23.98	23.99	24.03	54.09	24.30	08.30	23.74	23.69	23.57	23.68	23.58	23.53	23.46	23.47	23.43	23.47
	DINATE	5 PCT	23.90	25.60	70.97	26.07	26.15	11.97	07.07	26.26	20.35	26.35	26.31	26.31	24-82	24.79	24.84	24 - R6	24-80	24-61	24-31	24.08	24.00	23.90		DIVATE		19.19	18.06	18.96	19.09	19.31	19.49	19.65	20.00	20.36	20.47	50.29	20.29	20.44	20.04	19.92	19.44	19.40	19.58	19.53	19.41	19.35	19.19
	- CO-08D	, u	1.76	1.38	1.32	1.25	1.31	1.37	1.20	1.29	1.50	1.32	1.34	1.34	1.86	1.73	1.60	1.54	1.51	1.56	1.67	1.77	1.78	1.76		ä	5	1,31	1.41	1.41	1-37	1.35	1.34	1.32	1.22	1.12	1.10	1.22	1.22	1.01	1.11	1.11	1.30	1.27	1.20	1.20	1.24	1.25	1.31
	()	MEAN	26.78	27.80	28.17	28.12	28.31	20 20	67.07	76.87	14.07	16.87	76.87	28.52	27.83	27.62	27.47	27.39	27.28	27.17	27.05	26.98	26.92	26.78		()	MEAN	21.33	21.27	21.27	21.34	21.52	21.68	21.82	22.30	22.19	22.28	55.23	22.29	22.09	21.85	21.74	21.50	21.49	21.56	21.49	21.44	21.39	21.33
7	()	95 PCT	-0.55	0.68	2.56	4.16	4.80	2.00	7.00	16.0	1.10	14.	1.85	7.85	6.39	5.56	4.66	3.69	2.65	1.52	0.56	-0.08	-0.42	-0.55	12)	(	DC DCT	2.99	2.96	3.15	3.25	3.28	3.00	3.26	3.89	4.26	4.45	2.07	5.07	5.59	5.16	5.11	4.58	3.99	3.60	3.37	3.20	3.01	2.99
	RD INATE-	5 PCT	-4.33	19.0-	-0.07	-0-35	01.0	0.01	100	000	0 0	0.00	00.0	90.0	-1.29	-1.84	-2.07	-2.27	-2.47	-2.67	-3.09	-3.57	-4.04	-4.33		NO INATE-	S PLT	-1.66	-0.71	-0-23	0.18	0.34	0.75	96.0	1.03	1.49	1.80	1.65	1.65	69.0	0.70	64.0	0.34	0.40	0.13	-0°08	-0.65	-0.91	-1.66
	- CO-ORD	SE	1.15	0.41	0.80	1.37	1 55	1.78	700	2000	000	2 20	66.3	2.38	2.34	2.26	2.05	1.82	1.56	1.28	1.11	1.06	1.10	1.15	ALE	- CO-0RD	3.5	1.42	1.12	1.03	45.0	06.0	69.0	0.10	0.87	0.84	0.80	1.04	1.04	1.49	1.36	1.41	1.29	1.09	1.06	1.65	1.17	1.20	1.42
- NAS I ON	k)	MEAN	-2.44	00.0	1.25	16.1	2 53	2.76	2 1 3	2 40	000	0000	2.42	3.95	2.55	1.86	1.29	0.71	60.0	-0.57	-1.26	-1.82	-2.23	-2.44	- CERVICAL	()	MEAN	0.66	1.13	1.46	1.71	1.81	1.87	2.11	2.46	2.87	3.11	3.36	3.36	3.14	2.93	2.80	2.46	2.19	1.87	1.04	1.28	1.05	99.0
ANDMARK	(	95 PCT	3.11	2.71	2.45	2.31	1.00	2.27	2.54	2 5 5 5	04.0	2 27	1707	2.27	2.93	3.15	3.15	3.13	2.92	2.95	2.94	2.94	3.05	3.11	LANDMARK	(	95 PCT	-4.80	-5.15	-5.10	-4.95	-5.15	-4.75	14.44	-3.95	-4.00	-4.16	-4.27	-4.27	-4.48	-4.73	-4.89	-4.93	-4.88	-4.95	-4.78	-4.81	-4.89	-4.80
_	RDINATE-	5 PCT	-1.91	-2.14	-2.36	61.7-	-2.94	-2.97	-2 84	-2 71	-2.24	1001	76 07	-1.91	-2.01	-2.07	-1.94	-2.02	-1.82	-1.91	-1.82	-1.66	-1.62	-1.91	_	DI NA TE		-8	- 8	-8	- 8	-8		-7	- 7	-6		9-	-6.59	-7.28	-7.47	-7.48	-7.92	-8-24	-8-34	-8.27	-8.36	-8.12	-8.42
	0-00 -	SE	1.53										•	1.27												1	S										0.82				0.84								
	X)	MEAN	09.0	0.28	0 (	<b>)</b>	04.0-		C	) C	0.07	0 0		0.18	94.0	0.54	0.61	0.56	0.55	0.52	0.56	0.64	0.72	09.0		X)	AN	-6.61	-6.88	-6.82	-6.65	-6.65	64.9-	-6.08	-5.69	-5.49	-5.50	-5.43	4	80	-6.10	٦.	4	5	0	.5	5	5	9
	SAMP	S 1 2 E												7	7	7	7	7	7	7	7	7	7	7		SAMPLE	SIZE.N	7	7	7	7	7	7	7	7	7			7	7	1	7	7	7	_	7	-	1	7
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TOKEARO

MEAN SE SPCT 95 PCT HEAN SE 10.01 1.03	AMPLE	)	0-0	RDINAT	1	!	- 00-09	RD INATE-	1	7)	- CO-08	RDINA
-2.76	17E,N	T	SE	5 PCT	5 PC	A	SE	5 PCT	2	MEAN	LLI	5
1.12 1.99 -6.36 0.12 1.42 1.15 -0.25 3.24 20.39 1.99 1.31 1.39 1.30 2.39 1.30 1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	1	-2.	19.1	-5.40	0	0	1.08	-0.76		20.85	0	19.
-3.22 1.95 -6.41 -0.02 1.03 1.15 -0.25 3.51 5.12.2 1.0 -3.12 1.94 -6.35 0.01 1.75 1.03 0.042 3.74 20.14 0.9 -3.27 1.46 -6.38 0.019 2.03 1.01 0.42 3.74 20.14 0.9 -2.17 1.46 -6.38 0.019 2.03 1.00 0.42 3.74 20.14 0.9 -2.18 1.93 -6.38 0.019 2.03 0.08 1.00 3.94 2.13 7 -2.24 1.03 -3.05 0.01 2.03 0.08 1.00 3.94 2.13 7 -2.24 1.03 -3.07 0.05 3.24 0.08 1.00 4.22 3.14 2.13 7 -2.24 1.03 -3.07 0.05 3.24 0.08 1.00 4.22 2.10 0.0 -2.24 1.03 -3.07 0.05 3.09 1.12 1.05 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 5.53 22.13 0.04 -2.24 1.03 -3.02 0.05 3.09 1.12 1.03 1.00 1.00 0.00 -2.24 1.03 -3.02 0.05 3.09 1.12 1.00 1.00 0.00 -2.24 1.03 -3.02 0.05 3.09 1.12 1.00 1.00 0.00 -2.24 1.03 -3.02 0.05 1.25 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	1	-3.	1.98	-6.36	0	4	1.14	-0.45		20.39	0	0
-3.17 1.94 -6.35 -0.01 1.75 1.03 0.06 3.44 20.94 0.9 -3.07 1.99 -6.38 -0.19 1.01 0.05 3.44 20.91 0.9 -2.40 1.90 -6.38 -0.19 0.05 1.01 0.04 3.74 21.01 0.9 -2.40 1.00 -4.11 -0.82 2.29 0.68 1.00 3.94 21.19 0.7 -2.24 1.00 -4.11 -0.82 2.29 0.68 1.00 1.39 4.28 21.10 0.9 -2.24 1.03 -3.77 -0.26 2.34 0.98 1.39 4.28 21.10 0.9 -2.24 1.03 -3.92 -0.56 3.09 1.12 1.85 5.33 22.12 0.7 -2.34 1.03 -3.92 -0.26 3.30 1.12 1.85 5.33 22.12 0.7 -2.34 1.37 -4.73 -0.24 3.25 1.29 1.14 5.35 21.15 0.7 -2.49 1.37 -4.73 -0.24 3.25 1.26 1.14 5.35 21.15 0.7 -2.49 1.37 -4.73 -0.24 3.25 1.26 1.14 5.35 21.15 0.7 -2.49 1.37 -4.73 -0.24 3.25 1.26 1.14 5.35 21.15 0.7 -2.49 1.37 -4.73 -0.24 3.25 1.26 1.14 5.35 21.15 0.7 -2.49 1.37 -4.73 -0.24 3.25 1.26 1.14 5.35 21.15 0.7 -2.49 1.50 -0.24 1.25 1.25 1.26 0.93 0.05 3.20 1.10 0.9 -2.40 1.50 -0.24 1.25 1.25 1.26 1.14 5.35 1.10 0.9 -2.40 1.50 -0.24 1.25 1.25 1.26 0.93 0.05 3.20 1.10 0.9 -2.40 1.50 -0.24 1.25 1.25 1.26 0.93 0.05 3.20 1.10 0.9 -2.40 1.50 -0.24 1.25 1.25 1.25 1.25 1.20 0.05 3.20 1.20 0.05 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1	-3.	1.95	-6.41	o	9	1.15	-0.25		21.32	0	6
-3.29 1.39 -6.38 -6.18 -6.18 1.00 0.42 3.74 21.10 0.49 2.72 1.40 -6.20 1.30 -6.20 1.40 0.55 1.20 1.40 0.55 1.30 1.40 0.55 1.20 1.40 0.55 1.30 1.40 0.80 1.40	-	-3.	1.94	-6.35	0.01	1.	1.03	3.06		20.34	0	O
-3.07 1.46 -5.48 -0.68 2.19 0.55 0.64 3.74 21.18 0.7 2.14 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	1	-3.	1.89	-6.38	0	0	10-7	0.42		21.01	0	0
-2.772 1.32 -4.88 -0.55 2.50 0.88 1.00 3.94 21.07 0.8 2.21 0.8 2.2	1	-3.	1.46	-5.46	0	7	0.55	0.64		21.18	~	0
-2.46	1	-2-	1.32	-4.88	0	5	0.88	1.06		21.37	00	19.
-2.31 0.89 -3.77 -0.86 3.27 0.63 1.75 4.79 1.70 0.8    -2.24 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.12 0.7   -2.24 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.13 0.4   -2.24 1.03 -3.92 -0.26 3.69 1.12 1.85 5.53 22.13 0.4   -2.24 1.24 -4.73 -0.24 3.25 1.28 1.14 5.53 22.13 0.4   -2.24 1.27 -4.73 -0.24 3.25 1.28 1.14 5.53 22.13 0.4   -2.24 1.27 -4.73 -0.24 3.25 1.28 1.14 5.53 22.13 0.4   -2.24 1.27 -4.73 -0.24 3.25 1.28 1.14 5.20 1.2   -2.30 11.90 -26.50 12.52 -1.85 1.14 -20.12 1.6.42 2.18 0.5   -2.31 1.24 -5.32 -0.27 1.25 1.28 0.53 3.59 1.10 0.9   -2.31 1.25 -5.41 -0.25 1.20 1.37 1.77 -20.12 1.6.42 2.18 0.5   -2.31 1.58 -5.41 -0.25 1.20 1.08 0.93 0.53 3.59 21.09 0.8   -2.31 1.59 -5.42 -0.27 1.15 1.01 1.08 0.93 0.53 3.59 21.09 0.8   -2.30 1.54 -5.32 -0.27 1.15 1.00 0.93 0.53 3.59 21.09 0.8   -2.31 1.55 -5.42 -0.27 1.15 1.00 0.93 0.53 3.59 21.09 0.8   -2.34 1.54 -5.32 -0.27 1.15 1.00 0.90 0.90 0.90 0.90 0.90 0.90 0.90	7	-2-	1.30	-4.11	0	0	0.88	1.39		21.60	8	0
-2.20 0.90 -3.66 -6.73 3.68 1.09 1.89 5.47 21.96 0.6 -2.24 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.12 0.7 -2.31 1.24 -4.35 -0.26 3.69 1.32 1.35 1.09 0.7 -2.41 1.24 -4.35 -0.26 3.69 1.32 1.35 1.09 0.7 -2.42 1.03 -3.92 0.26 3.69 1.32 1.36 0.05 -2.49 1.03 -2.92 0.2 0.26 3.20 1.36 1.09 1.04 0.01 -2.40 1.845 -39.65 2.08 -4.07 1.77 -33.21 2.507 20.79 0.0 -2.40 1.845 -39.65 2.08 -4.07 1.77 -33.21 2.507 20.79 0.0 -2.40 1.845 -39.65 2.08 -4.07 1.77 -33.21 2.507 20.79 0.0 -2.40 1.845 -39.65 2.08 0.00 0.00 0.00 0.00 0.00 0.00 -2.40 1.845 -3.00 0.27 1.16 0.09 0.05 3.26 2.04 0.09 -2.76 1.64 -5.20 0.27 1.16 1.09 -0.62 3.16 2.13 1.0 -2.76 1.61 -5.40 0.12 1.10 1.08 -0.76 2.74 20.07 0.09 -2.76 1.61 -5.40 0.12 1.01 1.08 -0.76 2.74 20.07 0.09 -2.76 1.61 -5.40 0.12 1.01 1.08 -0.76 2.74 20.07 0.09 -2.76 1.16 -0.40 0.12 1.00 0.00 0.00 0.00 0.00 0.00 0.0	1	-2.	0.89	-3.77	0	2	0.53	1.75		21.70	90	20.
-2.24 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.12 0.7 -2.34 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.12 0.7 -2.49 1.37 -4.35 -0.28 3.30 1.36 1.14 5.35 22.13 0.4 -2.49 1.37 -8.65 2.09 2.37 2.35 2.32 1.00 -2.40 1.39 -2.25.50 2.09 2.37 2.32 1.00 -2.40 1.39 -2.25.50 1.20 2.30 2.37 2.32 1.00 -2.40 1.30 -2.25.50 2.00 2.37 2.32 1.20 -2.40 1.30 -2.25 2.00 2.30 2.30 2.30 2.30 2.30 -2.40 1.30 -2.32 -0.27 1.35 1.14 -20.12 1.5.72 2.31 3 0.0 -2.40 1.30 -2.32 -0.27 1.35 1.08 -0.42 3.11 2.10.1 0.9 -2.40 1.40 -2.32 -0.27 1.15 1.00 -0.42 3.10 2.11.1 0.9 -2.40 1.40 -2.32 -0.27 1.15 1.00 -0.42 3.10 2.11.1 0.9 -2.40 1.40 -2.40 -0.12 1.10 1.08 -0.42 3.10 2.10.1 0.9 -2.40 1.40 -2.40 -0.12 1.10 1.08 -0.42 3.10 2.10.1 0.9 -2.40 1.40 -2.40 0.40 1.40 0.40 0.40 0.40 0.40 0.40 0	7	-2-	0.00	-3.68	0	9	1.09	1.89		21.96	2	0
7 -2.24 1.03 -3.92 -0.56 3.69 1.12 1.85 5.53 22.12 0.7   7 -2.49 1.13 -4.73 -0.28 3.30 1.36 1.07 5.53 22.03 0.4   7 -2.49 1.137 -4.73 -0.28 3.30 1.36 1.07 5.53 22.03 0.4   7 -2.49 1.137 -8.65 2.08 2.37 2.59 1.14 5.12 1.6.42 2.0.79 1.1   7 -6.99 11.90 -2.6.50 2.0.86 -4.07 17.77 -3.12 1.6.42 2.0.79 1.1   7 -2.92 11.59 -2.6.50 2.0.86 0.93 0.53 3.59 21.10 0.9   7 -2.94 11.59 -5.41 -0.24 2.06 0.93 0.53 3.59 21.10 0.9   7 -2.94 11.59 -5.42 -0.27 1.136 1.08 0.45 3.12 1.0.19 0.9   7 -2.94 11.59 -5.29 -0.27 1.136 1.08 0.45 3.12 2.0.19 0.8   7 -2.94 11.51 -0.24 2.0.27 1.136 1.09 -0.45 3.12 2.0.19 0.8   7 -2.76 1.61 -5.40 -0.12 1.10 1.09 -0.45 3.10 2.0.1   7 -2.76 1.61 -5.40 -0.12 1.10 1.09 -0.45 2.04 2.0.07   8 PCT PRAN SE PCT PROMION (4)   125.41 1.20 -7.54 3.13 1.00 -7.50 0.80 -8.81 1.0.1   1.25 -7.54 1.20 -7.54 3.32 -7.50 0.80 -8.81 1.0.1   1.25 -7.54 1.20 -7.54 3.32 -7.50 0.80 -8.81 1.0.1   1.25 -7.54 1.20 -7.54 3.32 -7.50 0.80 -8.81 1.0.1   1.25 -7.54 1.20 -7.54 3.32 -7.50 0.80 -8.81 1.0.1   1.25 -7.54 1.20 -7.54 3.32 -7.50 0.80 -8.81 1.0.1   1.25 -7.55 1.30 -7.27 1.15 1.20 -7.51 1.35 1.20 1.20   1.25 1.33 1.20 -7.24 1.35 -7.22 2.86 -7.11 1.45 -9.55 2.20 1.10 1.20   1.25 1.35 1.35 1.30 -9.25 1.10 1.20 1.20 1.20 1.20 1.20 1.20 1.20	7	-2-	1.03	-3.92	0	9	1.12	1.35		22.12	-	0
7 - 2.31	7	2		3.9	0	.0		00		-	-	20.
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T -6.99 II.99 -26.50 I.2.52 -1.85 II.14 -20.12 16.42 20.85 0.88  T -2.82 1.58 -5.41 -0.24 2.06 0.93 3.25 21.09 0.8  T -2.83 1.54 -5.32 -0.27 1.35 1.08 -0.45 3.11 21.01 1.09  T -2.83 1.54 -5.32 -0.27 1.16 1.09 -0.63 2.94 20.87 0.99  T -2.76 1.61 -5.40 -0.12 1.01 1.08 -0.76 2.78 20.85 0.99  IZE.N HEAN SE 5 PCT HEAN SE 5 PCT HEAN SE 5 PCT HEAN SE 5 PCT HEAN SE 7.24 1.16 1.20 -0.965 -6.33 19.86 1.20  T -5.64 1.16 -7.55 -3.73 -7.64 -9.05 -6.33 19.86 1.20  T -5.64 1.16 -7.55 -3.73 -7.65 0.80 -8.81 -6.19 20.12 1.20  T -5.64 1.16 -7.55 -3.73 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.16 -7.55 -3.73 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.16 -7.55 -3.73 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.15 -7.55 -3.73 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.15 -7.25 -3.73 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.16 -7.55 -3.75 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.15 -7.25 -3.75 -7.65 0.80 -8.81 -6.19 20.15 1.20  T -5.64 1.15 -7.25 -3.35 -7.25 0.80 -8.74 -5.61 0.80  T -5.65 1.10 -7.55 -3.75 -7.65 0.80 -8.75 -7.75 0.80  T -5.65 1.10 -7.55 -7.75 -7.75 0.80 -8.75 -7.75 0.80  T -5.65 1.10 -7.55 -7.75 -7.75 0.80 -8.75 -7.75 0.80  T -5.65 1.10 -7.55 -7.75 -7.75 0.80 -8.75 0.80  T -5.65 1.10 -7.55 -7.75 0.80 -8.75 0.80 -8.75 0.80  T -5.65 1.10 -7.55 -7.75 0.80 -8.75 0.80 -7.57 0.80  T -5.65 1.10 -7.55 0.80 0.80 -8.85 0.80 0.80 0.80  T -5.65 1.10 -7.55 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0	7	0	α	30.6	0	-		33.2	u	1	-	0
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Cardinary   Card												
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IZE,N         HEAN         SE         5 PCT         95 PCT         HEAN         SE           7         -5.24         1.24         -7.27         -3.21         -8.02         1.00         -6.39         19.51         1.2           7         -5.64         1.26         -7.55         -3.73         -7.67         -1.67         -6.33         19.51         1.2           7         -5.64         1.20         -7.64         -3.70         -7.29         0.76         -9.53         -6.05         20.39         1.2           7         -5.64         1.33         -7.22         -2.86         -7.17         0.95         -8.74         -5.61         20.75         1.2           7         -5.64         1.03         -5.27         -1.69         -6.24         1.15         -9.12         -6.05         20.39         1.2           7         -3.48         1.09         -5.27         -1.69         -6.24         1.15         -9.12         -1.35         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2	AMPIF	X)	0-0	ROINA	[	1	J-13 -	BO	1	()	- CO-OR	-
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-5.30 1.13 -7.16 -3.44 -7.45 1.07 -9.20 -5.70 19.90 1. -5.26 1.06 -7.01 -3.52 -7.75 1.08 -9.52 -5.98 19.77 1.	7	2.4	0		-3.61	1.1	2.	-9.13	2	3	1.07	18
-5.26 1.36 -7.01 -3.52 -7.75 1.08 -9.52 -5.98 19.77 1.	7	5.3	-		-3.44	4.1	0	-9.20	2	0	1.08	18
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DISTANCE INCR 00.00 00.55 00.15 00.15 00.30 00.44 00.44

95 PCT 22.32 22.32 22.48 22.48 22.49 22.43 23.09 23.09 23.09

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COXMENCH

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24.78 24.51 23.98 23.47 23.47 22.56 22.26 22.08 21.72 21.72 21.55

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DISTANCE	INCR	0.0	2.4	5.35	5.60	4.96	3.88	3.37	2.20	1 11	11.0		0.0	1.96	3.80	4.73	5.71	5.52	00.0	9 - 1	1 52	1 44	04.1	1.09		DISTANCE	-	0.0	0.33	0.11	0.12	1.43	5.09	2.08	1.43	0.27	41.0	0	0.0	0.36	0.08	0.14	0.12	0.54	90.0	0.22	0.23	90.0
13	95 PCI	10.54	15.00	19.20	22.64	24.95	26.04	26.28	25.66	26.00	24.74	+10+7	24.74	25.38	25.32	24.02	21.85	18.23	15.39	10 01	77 01	1100	80°8	67.0		()	95 PCT	4.72	4.71	61.4	46.4	8.38	15.20	8.33	4.93	20.6	00.0	4.43	4.93	4.65	4.83	4.80	4.81	4.80	4.83	4.63	4.65	4-74
DINATE	5 PCI	11.7	7 32	11.23	14.93	18.19	20.66	22.65	23.73	26 16	23.01	76.67	23.91	23.83	22.65	20.33	16.36	12.90	3.43	2 2 2	2000	2 67	70.7	71.7		DINATE		2.44	2.61	2.70	2.71	-3.58	-14.57	-3.57	2.68	2.18	2.93	7. 34	2.94	3.07	3.01	2.84	2.86	2.17	2.67	5.64	2.58	2.58
- CO-OR	5E	000	2 35	2.43	2.35	2.06	1.64	1-11	0	40.00	0.25	67.0	0.25	24.0	0.82	1.13	1.67	1.63	3.65	1 45	200	1 66	1001	1.00		- C0-0R	SE	0.69	0.64	0.64	0.68	3.65	80.6	3.63	0.68	0.00	***	10.0	0.61	0.54	0.55	0.00	0.59	0.62	99.0	0.61	0.63	0.66
7)	MEAN	10.4	11 17	15.22	18.78	21.57	23.35	24.47	24.70	24 54	24.33	64.33	24.33	24.51	23.98	22.18	19.10	15.50	9.0	27.0	17.0	D. 17	75.0	TC.4		7)	MEAN	3.58	3.60	3.74	3.83	2.40	0.31	2.38	3.80	3.93	200	26.6	3.93	3.30	3.32	3.84	3.84	3.79	3.75	3.54	3.62	3.50
1	95 PCI	15.21-	-7 99	-4-10	0.33	4.21	6.71	8-63	10.19	10 05	11.21	17.11	11.21	0	7.62	2.86	2	9	) a	0	-12 16	<b>9</b> C	7	v	18)	(	95 PCT	-6.05	-5.84	-5.58	-5.62	-5.44	-5.72	-5.76	-5.63	-5.22	10.49	+7.0-	-6.24	-5.85	-5.67	-5.69	-5.44	-5.81	-6.02	-5.94	-5.38	-5.54
- CO-ORDINATE-	5 PCI	14.00	-12 60	-9.87	-5.85	-1.74	2.16	5.76	7.70	0.40	24.0	0.40	8.43	5.74	2.73	-0.55	-4.26	-9.39	-19.75	10 01	16.01	17.01	16.91	-14.00		ORD INATE-	5 PCT	-8.82	-8.56	-8.80	-8.87	-8.94	-8.91	-8.71	-8.56	-8.52	10.40	****	-8.44	-8.56	-8.65	-8.69	-8.87	-8.95	-8.82	-8.85	-8.93	-8-77
- C0-08	SE		1 . 00	1.76	1.88	1.82	1.39	0.88	0.76			000	0.85	1.56	1.49	1.04	0.48	16-0	3.63	70	1007	1.00	0.0	0.0	RT TROCHANTER	- 00-0	SE	0.85	0.83	0.58	0.99	1.07	16.0	05.0	0.00	1.01	0.40	0.0	19.0	0.85	0.51	0.91	1.05	96.0	0.85	0.88	1.08	000
١	MEAN	12.51	16.51	-6.98	-2.78	1.23	4.44	7.19	20.0	04.0	0.0	3006	9.82	8.30	5.18	1.16	-3.47	-7-59	-14-12	14 25	13.62	13.92	78.61-	-13.51	- RT TRO	()	MEAN	-7.43	-7.20	-7.19	-7.24	-7.19	-7.32	-7.23	-7.08	-6.87	16.01	-1.34	-7.34	-7.21	-7.16	-1.19	-7.16	-7.38	-7.42	-7.33	-7.16	-7.15
1	5 PCT	2.63	2 62	15.28	6.27	7.26	8.00	8.66	0.57	10.6	1 70	1.13	21.79												ANDMARK	(	95 PCT	5.24	14.4	4.54	4.80	4.87	4.83	4-58	4.34	4.51	14.4	4.10	4.10	4.45	4.52	64.4	4.45	4.47	4.32	4.77	4.70	05.7
RDINATE	5 PCI	10.74	10.01	10.28	11,30	11.99	13.78	16.29	17.00	10 54	10.04	17.01	18.21	16.53	14.52	12.38	10.50	9.77	200	24.0	1000	10.6	10.04	10.94	_	DINATE-	5 PCT	1.90	2.23	2.29	2.15	2.12	1.94	1.80	2.10	2.15	2.01	06-1	1.90	2.25	2.24	5.09	1.90	1.72	1.87	1.79	1.88	217
- C0-08	SE			1.53	1.51	1.61	1.28	0.72	24	0	• • •	1.03	1.09	1.39	1.35	1.61	1.94	1.80	1.65	000	20.00	0.73	0.52	0.0		- 00-0	SE	1.02	0.63	69.0	0.81	0.84	0.88	0.85	0.68	0.72	0. 73	0.01	0.67	99.0	0.70	0.73	0.78	0.84	0.75	0.91	0.86	17 0
×				12.78									20.00	18.81	16.73	15.01	~	12.72	٠,	4 (	00.00	٠,	-	~		X)	MEAN					3.50							3.00	3.33	3.38	3.29	3.17	3.09	3.09	3.28	3.29	2 .23
SAMPLE	SIZE,N	- 1		- 1	_	7	7	- 1	- 1	- 1		-	1	7	7	7	7		- 1	- 1	- 1	- 1	- 1	-	•	AMP	SIZE.N	1	7	7	7	7	7	7	7	7	-	_	7	7	7	7	7	7	7	1	7	1
		0.	01.	30	04	50	09	200		000	0.00	00-	0	01.0	-20	30	40	2	2 4	0 0	0.00	000	06.0	00.1		TWI	-	0.	.10	0.50	0.30	04.0	05.0	09.0	0.10	08.0	06.0	00.	0.0	01.0	.20	0.30	05.0	05.0	09.0	0.10	08.0	00 0

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	OVED	NO C	200	1.73	3.90	7.13	06.0	5.30	3.51	1.25	. 78	2.07		0.0	00.3	0.30	60.0	61.	76.1	9.93	16.0	21.58	2.17	98-2			IOVED	COM	0.0	18.	5.92	0.43	19.0	2.21	68.	67.0	64.6	100	68.85	0.0	.32	.16	.18	.24	1.79	-89	-02	.03	100	16.0	
	I	INCR																				0.61 21					ш				3.05 5												1	-	1 7	~	110	2	1	י ייי	
	DISTANC	N.			2.	3.	3.	4	4	1	0	0	•			•	3.	*		7	-	0	2	0			DISTANC	Z	0	2.	3.	4	9	5.	0		7	•	0	0	2.	3.1	5.1	6.0	3.	3.	3.	2.0	1.	0.89	
	(	95 PCT	10.84	11.60	13.32	15.90	18.59	21.38	24.93	24.67	21.84	22.18	22 10	21 07	10000	67.07	18.55	84.01	04.61	17.71	17.01	11.36	11.03	10.18			(	95 PCT	7.71	10.89	14.33	17.71	21.37	25.29	24.05	40.47	79.47	23.73	53.65	23.65	24.87	24.76	22.85	20.00	16.12	14.97	12.69	10.64	9.15	7.71	
	-ORDINATE-	5 PCT	5 B1	6.04	6.82	8.16	10.27	13.40	15.54	17.76	20.57	20.01	20 01	17 74	76.0%	+6.+7	14.21	79.6	9.10	16.31	0.40	2.88	01.0	78.6			DINA	5 PCT	2.85	4.85	6.37	9.41	13.49	16.08	17.55	19.88	22 25	22.23	84.77	22.48	20.04	18.21	15.47	11.86	11.54	7.94	5.09	3.37	2.91	2.85	
	- 20-0	SE	1.54	1.70	1.98	2.36	2.54	2.43	2.86	2.11	0.38	99.0	44 0		1 43	100	1001	2000	76.7	1.00	1.0	1.60	1.50	10.1			- C0-0K	SE	1.48	1.84	2.43	2.55	2.40	2.81	86.1	1.40	1.0	0.00	0.30	0.36	1.47	5.00	2.25	2.48	1.40	2.14	2.32	2.22	1.90	1.48	
	7)	MEAN	0 6	8.82	10.01	12.03	14.43	17.39	20.24	21.22	21.21	21.09	21.00	10 01	17 61	10.4	04.67	11.01	67-17	10.04	67.6	79.8	8.00	06.80			7)	MEAN	5.28	7.87	10.35	13.59	17.43	20.58	20.80	07.77	22 1 2	24.62	63.31	23.37	22.46	21.43	19.16	15.93	13.83	11.45	8.89	7.00	6.03	5.28	
241		95 PCT	-8-27	-8-16	-7.87	-6.36	-4.34	-1.38	2.64	2.70	1.51	1.57	1.57	0.05	-1.16	77	200		000	00.00	10.01	0000	16.01	60.00	261	ĺ		35 PCT	-11.24	-10.31	-8.16	16.4-	-0-14	6.32	5.13	7	000	0 11	11.6	9.11	8.66	5.68	1.02	-2.61	-4.48	-8.82	-10.25	-11.00	-11.29	-11.24	
ER	CO-ORD INATE-	5 PCI	-11.52	-11.27	-10.45	-9.81	-8.51	-6.31	-4.92	-2.31	-0.08	-0.51	-0.51	-4-10	-7.04	10 27	20.01	13 10	-13 22	13 01	13.77	-12.10	-11 47	10.11-	ER		CU-UKU INA IE	S PCI	-14-17	-12.98	-11.66	10.6-	91.6-	-3.38	0.40	2000	4.45	200	06.6	2.90											
ELBOW CENTER	10-03 -	SE O 86	66.0	0.55	0.79	1.05	1.27	1.50	2.31	1.53	64.0	0.64	0.64	1 - 54	2.67	9		1 44	30	1 33	1 10	1 05	400	•	ST CENT	0		SE	0.89	0.85	1.07	1.25	1.53	2.96	7.00	24.0	200		•	0.98	1.93	1.96	1.58	2.30	2.79	1.28	1.41	1.35	1.09	0.89	
- RT ELB	١)	-10 24	-9.89	-9.71	-9.16	-8.08	-6-42	-3.85	-1.14	0-19	0.72	0.53	0.53	-1-58	-4-55	-4-01	000	0 4 01-	10 05	10.00	1000	-10.63	10.01	07.01	- RT WRI	,		MEAN	-17.11	-11-04	-9.91	-7.02	59.7-	1.47	× 00. ×	4004	7.37	7.51	10.1	7.51	5.49	2.46	-1.57	-6.38	-9.05	-10.92	-12.56	-13.21	-13.08	-12.71	
LANDMARK		1.05	0.65	1.53	3.85	5.94	7.81	9.73	11.90	12.49	12.55	12.64	12.64	12.49	11.94	0	7 0 2	41.4	2.16	700		10.01	1 05	7	LANDMARK						10.46									19.45	19.36	17.30	15.77	14.51	12.55	11.38	10.15	9.46	8.98	9.46	
_	RDINATE	17.69	-2.10	-1.79	-0.73	1.83	4.75	6.82	7.67	8.14	8.24	7.78	7.78	6.91	5.40	30.0	1 24	-1 71	-2.77	-2 86	12 21	-2.12	-1 60	60.4	_		DINAIE	2.5	19.	0.03	60.9	6.68	47.6	10.60	13 63	15.02	15.80	15.25	17.67	15.25	13.36	11.07	8.96	19.9	6.51	6.36	6.14	6.27	7.46	7.61	
	- CO-OR	1.11	0.84	1.01	1.40	1.25	0. 93	0.89	1.29	1.33	1.31	1.48	1.48	1.70	1.99	1.68	1 71	1 70	1.50	1.16	900	1.05		11.1			20-02	SE SE	000	0.0	1.33	1.73	00.1	1.80	1000	7 0	0.82	1.27	7 . 7	1.27	1.83	1.90	2.07	2.39	1.84	1.53	1.22	0.97	14.0	0.56	
	X)	O. 13	-0.73	-0-13	1.56	3.89	6.28	8.27	61.6	10.32	10.40	10.21	10.21	9.70	8.67	6- 72	20.4	1.22	-0-31	) C	000	04.01	-				V	MEAN	8.03	16.7	8.27	<b>T</b> •	- 1	J 6	15 21	1 4	, r			17.34	6.3	4 . 1	2.3	0.5	S	8	7	8	2	S	
	SAMPLE	7	9	7	7	_	- 1	-	-	7	9	9	9	7	7	7	_	7	7	. ~		- 4	0 4	)		D TON Y D	SATILE	216591	0 4	0 1	- 1	- 1		0 4	0 4	) v	'n		,	5	ın I	- 1	_	7	7	7	7	7	9	9	
	TIME	0.0	0.10	F 0.20	0	0	3	9	9	0	0.00	1.00	0.0	0.10	0.20	0	0	0	,0	B 0.70	0	06-0	1.00			1	1111	- 0		0	F 0.20	0	0 (	0	9 0	0 0	0	00-1		0.0	01.0	0	0	0	0	0	R 0.70	0	06.0	1.00	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MUTICN NUMBER - 21240 BACK ANGLE - 30

SUB-MOVEMENT	MEAN 0.54	EAN STD DEV 0.40	RANGE 0.40 TO D. BO SECS	0
LEFT REV	0.53	0.15	0.30 TJ 0.70 SECS.	SECS.

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CO-0001MATE	3.07 3.08 3.08										•			
NAME OF SECRET O	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3	LDINATE	(		- CO-OR	DINATE	1 1	7)	¥	-	1	STAN	MOVED
0.072		SE	5 PCT	95 PCT		5 E	5 PCI -1.92	2	20.72	1.14	18.85	22.60	0.0	000
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0,72	-4.26	-1.89		0.94	-1.83	1.27	20.81	1.07	19.05	22.57	0.23	0.23
1.0		0.88	-4.53	-1.65		1.32	-2.52	1.82	20.85	1.04	19.13	22.56	0.08	0.31
2. 69 0. 691 -4.38 1.139 -6.149 1.34 -2.38 2.00 20.05 0.97 1.09 0.97 1.09 0.22.81 0.15		0.84	-4.33	-1.58		1.36	-2.48	1.58	20.19	1.00	19.14	22.43	0.18	64.0
2.86 0.84 -4.23 1.47 -0.42 1.31 -2.43 1.85 20.77 1.101 19.10 22.77 0.27 2.26 0.89 1.42 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2		0.91	-4.38	-1.39		1.34	-2.38	2.00	20.69	0.97	19.09	22.28	0.13	0.62
2.84 0.83 -4.20 1.49 0.42 1.22 -2.54 1.79 20.37 1.10 19.15 22.77 0.00 1.25 2.27 0	•	0.84	-4.23	-1.47		1.31	-2.43	1.86	20.15	10.1	60.61	14.22	0.12	*
LANGMARK - LT ACRONIANT  CO-DOINT TO THE TOTAL		0.83	-4.20	-1-49		1 23	14.7-	1 30	20.05	01.	10 15	22 74	70.0	100
2.91 0.79	7	16.0	-4.35	05.1-		1.32	-2 41	200	20.00	1 1 3	10.00	22.79		1 24
2.91 0.79	,	0.0	16.4-	17.1-		1 37	10.2	20.0	21.01	1.12	19.17	22.85	0000	1.33
2.91 0.79 -4.21 -1.60 -0.44 1.38 -2.70 1.82 21.15 1.16 19.25 23.04 0.0 3.12 0.66 -4.22 -2.24 -0.65 1.34 -2.70 1.82 21.05 1.01 1.01 10.01 3.13 0.66 -4.41 -2.14 -0.65 1.35 -2.83 1.05 21.05 1.01 10.01 3.41 0.85 -4.41 -2.14 -0.078 1.21 -2.87 1.05 21.03 1.21 1.00 1.02 22.75 3.42 0.87 -4.42 -2.14 -0.078 1.21 -2.83 0.05 1.02 1.02 1.02 1.02 1.02 1.02 1.02 3.35 0.77 -4.68 -1.15 -0.08 0.08 -1.28 0.05 1.01 1.02 1.02 1.01 1.02 2.70 0.02 3.35 0.74 -4.42 -1.17 -0.08 0.08 -1.76 0.09 1.01 1.01 10.13 22.79 0.02 3.30 0.80 -4.41 -1.79 -0.17 1.00 1.00 1.00 1.01 10.10 22.70 0.08 3.30 0.80 -4.42 -1.79 -0.17 1.00 1.00 1.00 1.00 1.00 1.00 1.02 0.02 3.30 0.80 -4.42 -1.79 -0.17 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50	0.79	-4.21	-1.60		1.38	-2.70	1.82	21.15	1.16	19.25	23.04	0.31	1.65
2.19 0.69 -4.12 -1.86 -0.51 1.34 -2.70 1.68 21.03 1.23 19.13 22.01 0.0.22 3.13 0.69 -4.12 -2.14 -0.76 1.39 -2.87 1.32 20.98 1.02 19.19 22.70 0.22 3.14 0.69 -4.42 -2.14 -0.76 1.28 -2.87 1.32 20.98 1.02 1.03 1.21 19.10 22.70 0.22 3.14 1.02 -2.01 -1.67 -0.69 0.64 -2.29 1.05 21.03 1.02 1.09 1.09 22.70 0.22 3.15 1.02 -2.01 1.04 0.08 0.08 0.08 0.09 0.09 0.09 0.09 0.09	2.91	0.79	-4-21	-1.60	-0.44	1.38	-2.70	1.82	21.15	1.16	19.25	23.04	0.0	0.0
1.00	2.99	0.69	-4.12	-1.86	-0.51	1.34	-2.70	1.68	21.15	1.23	19.13	23.16	0.11	0.11
1.2   1.2	, ,	0.66	-4-22	-2.04	-0.62	1.35	-2.83	1.59	21.03	1.21	19.04	23.02	0.22	0.32
1.00	3 6	69.00	-4-41	-2-14	-0.78	1.28	-2.87	1.32	20.98	1.09	19.19	22.76	0.22	0.54
1.00   1.00	, "	0.77	-4-68	-2-17	-0.93	1.21	-2.91	1.05	21.30	1.12	19.16	22.85	0.22	0.75
1.02	3	0.83	-4.85	-1.96	-0.85	0.84	-2.22	0.53	20.97	1.13	19.12	22.81	60.0	0.85
3.55 0.59 -4.93 -1.77 -0.53 0.75 -1.76 0.69 20.95 1.12 19.10 22.79 0.028 3.20 0.71 -4.42 -1.79 -0.17 1.08 -1.76 1.12 20.90 1.10 19.10 22.70 0.20 3.20 0.89 -4.52 -1.61 -0.07 1.13 -1.92 1.76 20.92 1.10 19.10 22.70 0.20 3.07 0.89 -4.52 -1.61 -0.07 1.13 -1.92 1.78 20.92 1.10 18.98 22.60 0.14 18.08	3	1.02	-5.01	-1.67	-0.61	0.74	-1.83	0.61	20.95	1.11	19.13	22.73	0.25	1.09
Column	3	0. 96	-4.93	-1.77	-0.53	0.75	-1.76	69.0	20.95	1.12	19.12	22.79	80.0	1.17
LANDHARK - LT ACROHION (5)  LANDHARK - LT ACROHION (6)  LA	1	0.74	-4.42	-1.99	-0.32	0.88	-1.76	1.12	20.90	1.10	19.10	22.70	97.0	1.43
LANDMARK - LT ACRCMION (5)  LANDMARK - LT ACRCMION (6)  LANDMARK - LT ACRCMION (6)  LANDMARK - LT ACRCMION (6)  LANDMARK - LT ACRCMION (7)  LANDMARK - LT ACRCMING (7)  LA	3	0.80	-4-41	-1.79	-0-17	1.06	-1.91	1.58	20.82	1.12	18.98	22.66	0.20	1.64
LANDHARK - LT ACROMION ( 5)	3	0.89	-4.52	-1.61	-0.07	1.13	-1.92	1.78	20.12	1.14	18.85	22.60	0.14	1.78
AN SE 5 PCT 95 PCT HEAN SE 5 PCT 95 PCT HEAN SE 5 PCT 95 PCT 110CR NATE			_	LANDMARK	7	NOIWO	_	15						
FEAN SE SPCT 95 PCT MEAN SE 5 PCT 95 PCT HEAN SE 9 PCT 1002 -7.34 -4.00 7.70 0.82 6.36 9.05 20.59 1.22 18.60 22.58 0.00 22.83 1.00 -7.47 -4.19 7.57 0.79 6.09 9.03 20.44 1.22 18.50 22.55 0.0.72 1.00 -7.65 -4.28 7.56 0.90 6.09 9.03 20.44 1.22 18.50 22.57 0.07 1.00 -7.65 -4.28 7.56 0.90 6.09 9.02 20.45 1.22 18.33 22.57 0.05 1.00 -7.61 -4.05 7.65 1.06 6.09 9.02 20.45 1.22 18.39 22.57 0.05 1.00 -7.61 -4.05 7.65 1.06 6.09 9.02 20.45 1.32 18.39 22.57 0.05 1.00 1.00 -7.61 -4.05 7.65 1.06 6.09 9.02 20.64 1.22 18.39 22.57 0.05 1.00 1.00 -7.33 7.50 0.96 5.99 9.07 20.64 1.36 18.48 23.00 0.28 25.00 0.90 6.09 9.07 20.64 1.36 18.48 23.00 0.20 1.00 0.20 0.20 0.20 0.90 0.90 0.90 0.90 0			100		\\	d	DINATE	(		- C0-0R		(	151	MOVED
5.67         1.02         -7.34         -4.00         7.70         0.482         6.28         9.05         20.51         1.22         18.51         22.58         0.00           5.95         1.00         -7.47         -4.19         7.57         0.79         6.28         8.87         20.51         1.22         18.51         22.55         0.02           5.95         1.00         -7.67         -4.23         7.59         0.99         5.92         20.45         1.22         18.51         22.57         0.02           5.95         1.05         -7.67         1.06         5.91         9.40         20.55         1.32         18.33         22.57         0.05           5.91         9.02         20.45         1.32         18.33         22.71         0.05           5.51         1.09         -7.67         1.04         5.96         9.22         20.45         1.32         18.39         22.71         0.05           5.30         0.97         -6.70         0.96         5.93         9.07         20.44         1.38         18.46         23.29         0.05           5.30         0.97         6.02         9.97         20.94         1.36         1.89	MEAN	, ,	2	95 PCT	MEAN	ш	וטיי	5	MEAN	SE	5 PCT	95 PCT	-	CUM
5.89         1.00         -7.47         -4.19         7.57         0.79         6.28         8.87         20.51         1.22         18.51         22.52         0.22           5.97         1.03         -7.65         -4.28         7.56         0.90         6.09         9.02         20.41         1.29         18.29         22.53         0.90           5.89         1.05         -7.61         -4.05         7.67         1.06         5.91         9.40         20.55         1.32         18.39         22.57         0.05           5.41         1.05         -7.33         -3.89         7.67         1.04         5.96         9.39         20.64         1.35         18.42         22.57         0.07           5.42         0.97         -7.02         -3.83         7.50         0.96         5.93         9.07         20.74         1.38         18.42         22.57         0.02           5.42         0.97         -6.60         -3.51         7.49         0.95         5.96         9.07         20.74         1.38         18.42         23.00         0.22         4.86         0.89         20.97         1.36         18.46         23.20         0.22         22.78         0.	10	1.02	-7.34	-4.00	7.70	0.82	6.36	9.05	20.59	1.22		22.58	0.0	0.0
5.97         1.03         -7.65         -4.28         7.56         0.90         6.09         9.03         20.44         1.29         18.29         22.57         0.017           5.95         1.05         -7.67         -4.23         7.59         0.99         5.96         9.22         20.45         1.29         18.33         22.57         0.05           5.81         1.05         -7.33         -3.89         7.67         1.04         5.96         9.39         20.64         1.35         18.32         22.57         0.07           5.42         0.97         -7.02         -3.83         7.67         1.04         5.96         9.37         20.64         1.35         18.48         22.57         0.07           5.42         0.97         -7.02         -3.83         7.67         0.94         5.85         8.94         20.87         1.38         18.48         23.00         0.22           5.30         0.97         -6.80         -3.51         7.49         0.95         5.96         9.10         21.01         1.38         18.42         22.53         0.22           6.94         0.97         0.97         0.95         5.96         9.10         21.01         1.38 <td></td> <td>1.00</td> <td>74.7-</td> <td>-4.19</td> <td>7.57</td> <td>0.79</td> <td>6.28</td> <td>8.87</td> <td>20.51</td> <td>1.22</td> <td></td> <td>22.52</td> <td>0.22</td> <td>0.22</td>		1.00	74.7-	-4.19	7.57	0.79	6.28	8.87	20.51	1.22		22.52	0.22	0.22
5.45         1.05         -7.67         -4.23         7.59         0.99         5.96         9.22         20.45         1.29         18.33         22.57         0.05           5.40         1.09         -7.61         -4.05         7.65         1.06         5.91         9.40         20.55         1.32         18.33         22.57         0.05           5.41         0.97         -7.02         -3.83         7.60         0.96         5.93         9.07         20.74         1.38         18.48         22.07         0.23         0.23         0.20         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.24         0.24         0.24         0.20         0.24         0.23         0.20         0.23         0.23         0.23         0.23         0.23         0.23         0.24         0.24         0.20         0.20         0.21         0.20         0.21         0.22         0.22         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.24         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23		1.03	-7.65	-4.28	7.56	0.90	60.9	9.03	20.41	1.29		22.53	0.17	0.39
5.83         1.09         -7.61         -4.05         7.65         1.06         5.91         9.40         20.55         1.32         18.39         22.71         0.17           5.41         1.05         -7.33         -3.89         7.67         1.06         5.96         9.39         20.64         1.35         18.42         22.88         0.23           5.42         0.97         -7.02         -3.79         7.50         0.94         5.86         8.94         20.87         1.38         18.48         22.71         0.23           5.00         0.94         -6.85         8.94         20.87         1.38         18.48         23.20         0.22           4.85         0.94         -6.85         8.96         20.97         1.36         18.49         23.20         0.22           4.68         0.97         -6.60         -3.51         7.40         0.59         5.96         9.10         21.01         1.36         18.48         23.20         0.22           4.68         0.97         -6.99         9.10         21.01         1.36         18.84         23.22         0.22           4.68         0.99         7.99         6.92         9.27         21.01		1.05	-7-67	-4-23	7.59	0.99	5.96	9.22	20.45	1.29		22.57	0.05	0.44
5.5.61         1.05         -7.33         -3.89         7.67         1.04         5.96         9.39         20.64         1.35         18.42         22.85         0.23           5.42         0.97         -7.02         -3.83         7.50         0.96         5.93         9.07         20.74         1.36         18.48         23.00         0.28           5.06         0.97         -6.60         -3.51         7.40         0.95         5.96         9.10         21.01         1.36         18.48         23.20         0.26           4.68         0.97         -6.43         -3.28         7.53         0.95         5.96         9.10         21.01         1.36         18.84         23.22         0.26           4.68         0.97         -6.27         -3.09         7.64         0.99         6.02         9.27         21.07         1.36         18.84         23.29         0.22           4.68         0.97         -6.27         -3.09         7.64         0.99         6.02         9.27         21.07         1.36         18.84         23.29         0.22           4.68         0.97         -6.27         21.07         1.36         18.84         23.29         0.0		1.09	-7.61	-4.05	7.65	1.06	5.91	04.6	20.55	1.32		22.71	0.17	0.61
5.42         0.97         -7.02         -3.83         7.50         0.96         5.93         9.07         20.74         1.38         18.48         23.00         0.21           5.30         0.92         -6.80         -3.51         7.40         0.95         5.96         9.10         21.01         1.38         18.48         23.00         0.22           5.50         -6.43         -3.28         7.53         0.95         5.96         9.10         21.01         1.36         18.48         23.20         0.22           4.68         0.97         -6.27         -3.09         7.64         0.59         6.02         9.27         21.07         1.36         18.84         23.29         0.22           4.68         0.97         -6.27         -3.09         7.64         0.99         6.02         9.27         21.07         1.36         18.84         23.29         0.22           4.68         1.01         -6.52         -3.20         7.49         0.92         5.99         9.00         21.07         1.36         18.84         23.29         0.22           4.38         1.01         -3.20         7.49         0.92         5.99         9.00         21.00         1.33 <td></td> <td>1.05</td> <td>-7.33</td> <td>-3.89</td> <td>7.67</td> <td>1.04</td> <td>96.5</td> <td>9.39</td> <td>20.64</td> <td>1.35</td> <td></td> <td>22.85</td> <td>0.23</td> <td>0.84</td>		1.05	-7.33	-3.89	7.67	1.04	96.5	9.39	20.64	1.35		22.85	0.23	0.84
5.30 0.92 -6.80 -3.79 7.39 0.94 5.85 8.94 20.87 1.38 18.60 23.13 0.21   5.06 0.94 -6.60 -3.21 7.40 0.95 5.85 8.96 20.97 1.36 18.60 23.20 0.24   6.68 0.97 -6.27 -3.09 7.64 0.99 6.02 9.10 21.01 1.36 18.84 23.29 0.22   7.64 0.97 -6.27 -3.09 7.64 0.99 6.02 9.27 21.07 1.36 18.84 23.29 0.22   7.85 1.01 -6.52 -3.20 7.49 0.92 5.99 9.00 21.04 1.34 18.84 23.29 0.0   7.85 1.01 -6.52 -3.36 7.35 0.91 5.86 8.85 21.00 1.33 18.81 23.18 0.23   7.85 1.11 7.73 -3.45 7.34 0.85 5.96 8.73 20.83 1.29 18.72 22.95 0.21   5.63 1.45 -8.02 -3.25 7.42 0.85 5.96 8.73 20.83 1.27 18.75 22.95 0.21   5.64 1.31 7.71 -3.18 7.41 0.81 6.23 8.58 20.83 1.27 18.75 22.90 0.11   5.45 1.28 7.57 -3.35 7.41 0.68 6.31 8.52 20.73 1.18 18.81 22.66 0.07   7.85 1.14 7.74 -3.35 7.44 0.88 6.31 8.55 20.73 1.18 18.81 22.66 0.07   7.85 1.14 7.15 7.15 7.15 7.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0	5	0.97	-7.02	-3.83	7.50	96.0	5.93	4.07	20.14	1.38		23.00	0.28	1.12
5.06 0.34 -6.60 -3.51 7.40 0.55 5.85 8.96 20.97 1.36 18.74 23.20 0.26 6.02 0.37 -6.57 -3.28 7.53 0.95 5.96 9.10 21.01 1.35 18.84 23.22 0.24 6.08 0.97 -6.27 -3.09 7.64 0.59 6.02 9.27 21.07 1.36 18.84 23.29 0.02 6.02 9.27 21.07 1.36 18.84 23.29 0.02 6.02 9.27 21.07 1.36 18.84 23.29 0.02 6.02 9.27 21.07 1.36 18.84 23.29 0.02 6.02 9.27 21.07 1.36 18.84 23.29 0.02 6.02 9.27 21.04 1.34 18.84 23.29 0.02 6.02 9.27 21.04 1.34 18.84 23.29 0.02 6.02 9.03 1.07 -7.31 -3.45 7.34 0.88 5.99 8.75 21.00 1.33 18.81 23.18 0.25 6.31 1.77 7.31 -3.45 7.34 0.88 5.90 8.73 20.83 1.27 18.75 22.95 0.21 6.25 6.3 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.08 6.00 8.63 20.83 1.27 18.75 22.91 0.08 6.00 8.63 20.83 1.27 18.78 22.83 0.16 6.31 8.52 20.73 1.18 18.78 22.83 0.16 6.31 8.52 20.73 1.18 18.78 22.89 0.18 6.31 8.52 20.73 1.18 18.78 22.89 0.18 6.31 1.27 18.77 22.88 0.18 6.31 8.52 20.73 1.18 18.78 22.88 0.18 6.31 8.63 20.65 1.27 18.77 22.88 0.18 6.31 8.64 20.65 1.28 7.25 8.02 1.28 7.25 8.02 7	5	0.92	-6.83	-3.79	7.39	0.94	5.85	8.94	20.87	1.38		23.13	0.21	1.33
4.68 0.97 -6.27 -3.09 7.64 0.99 6.02 9.27 21.01 1.35 18.80 23.22 0.22 4.68 0.97 -6.27 -3.09 7.64 0.99 6.02 9.27 21.07 1.36 18.84 23.29 0.02 4.68 0.97 -6.27 -3.09 7.64 0.99 6.02 9.27 21.07 1.36 18.84 23.29 0.02 4.86 1.01 -6.52 -3.20 7.49 0.92 5.99 9.00 21.04 1.34 18.84 23.24 0.23 5.13 1.08 -6.89 -3.36 7.34 0.68 5.90 8.78 20.94 1.33 18.75 23.18 0.23 5.56 1.31 -7.70 -3.41 7.34 0.89 5.96 8.73 20.83 1.27 18.75 22.95 0.21 5.60 1.40 -7.89 -3.30 7.42 0.76 6.17 8.63 20.83 1.27 18.75 22.91 0.08 5.61 1.40 -7.81 0.71 -3.18 7.41 0.71 6.23 8.58 20.83 1.23 18.78 22.83 0.16 5.57 1.14 -7.44 -3.69 7.54 0.71 6.38 8.58 20.83 1.25 18.78 22.89 0.16 5.57 1.14 -7.44 0.71 6.83 8.68 20.83 1.25 18.78 22.89 0.16	2	0.34	-6.60	-3.51	7.40	95.0	5.85	8.96	20.97	1.36		23.20	0.26	1.59
4.68 0.97 -6.27 -3.09 7.64 0.59 6.02 9.27 21.07 1.36 18.84 23.29 0.02 4.68 0.97 -6.52 -3.20 7.64 0.99 6.02 9.27 21.07 1.36 18.84 23.29 0.00 6.23 6.25 -3.20 7.49 0.92 5.99 9.03 21.34 18.84 23.29 0.02 21.34 18.84 23.24 0.23 6.25 1.31 1.08 1.33 18.84 23.24 0.23 1.31 1.32 18.81 23.18 0.31 1.32 1.33 1.345 7.34 0.88 5.90 8.73 20.84 1.33 1.875 23.12 0.25 5.56 1.31 7.70 -3.45 7.34 0.88 5.96 8.73 20.83 1.27 18.75 23.12 0.28 5.60 1.40 7.89 -3.30 7.42 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.08 1.45 7.89 7.81 0.81 8.67 20.84 1.23 18.79 22.90 0.11 6.23 8.58 20.83 1.25 18.78 22.89 0.16 6.31 8.52 20.73 1.18 18.78 22.89 0.16 6.31 8.52 20.73 1.18 18.78 22.89 0.16 7.44 0.74 0.88 6.31 8.52 20.73 1.18 18.78 22.89 0.16 7.44 0.74 0.88 6.31 8.54 20.89 1.20 1.31 18.79 22.90 0.10 18.79 22.90 0.10 18.79 22.90 0.10 18.79 22.90 0.10 18.79 22.90 0.10 18.79 22.89 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18	4	0.96	-6.43	-3.28	7.53	0.95	96.5	01.6	21.01	1.35	•	23.22	0.24	1.83
4.68 0.97 -6.27 -3.09 7.64 0.99 6.02 9.27 21.07 1.36 18.84 23.29 0.0 0.0 0.0 1.34 18.84 23.29 0.0 0.0 0.0 1.34 18.84 23.29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4	0.97	-6.27	-3.09	7.64	65.0	6.02	9.27	21.07	1.36	•	23.29	0.22	2.05
4.86         1.01         -6.52         -3.20         7.49         0.92         5.99         9.00         21.04         1.34         18.84         23.24         0.23         0           5.13         1.08         -6.89         -3.36         7.35         0.68         5.96         8.78         20.94         1.33         18.81         23.12         0.51           5.34         1.34         0.68         5.96         8.78         20.94         1.33         18.72         23.18         0.51           5.56         1.31         -7.70         -3.41         7.34         0.68         5.96         8.73         20.94         1.29         18.72         22.95         0.21         1           5.63         1.45         -8.02         -3.25         7.32         0.80         6.00         8.63         20.84         1.27         18.75         22.95         0.21         1           5.60         1.40         -7.89         -3.38         7.41         0.71         6.23         8.58         20.84         1.23         18.79         22.99         0.01         1           5.46         1.28         -7.57         -3.35         7.41         0.41         6.31 <td< td=""><td>4</td><td></td><td>-6-27</td><td>-3.09</td><td>7.64</td><td>0.99</td><td>6.02</td><td>9.27</td><td>21.07</td><td>1.36</td><td>18.84</td><td>4</td><td>0.0</td><td>0.0</td></td<>	4		-6-27	-3.09	7.64	0.99	6.02	9.27	21.07	1.36	18.84	4	0.0	0.0
5.13 1.08 -6.89 -3.36 7.35 0.51 5.86 8.85 21.00 1.33 16.81 23.18 0.31 0 5.31 1.08 -6.89 -3.36 7.35 0.51 5.86 8.85 21.00 1.33 16.81 23.18 0.31 0 5.38 1.17 -7.31 -3.45 7.34 0.88 5.90 8.73 20.84 1.33 18.75 22.95 0.21 1 5.63 1.45 -80.2 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.028 1.45 -80.2 -3.30 7.42 0.76 6.17 8.67 20.84 1.25 18.79 22.90 0.11 1 5.45 1.38 -7.71 -3.18 7.41 0.71 6.23 8.58 20.83 1.28 18.78 22.83 0.16 1 5.46 1.28 -7.57 -3.35 7.41 0.68 6.31 8.52 20.73 1.18 18.81 22.65 0.10 1 1 5.45 1.14 -7.44 -3.69 7.54 0.71 6.38 8.69 20.65 1.27 1.88 73 22.58 0.18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4		-6.52	-3.20	7.49	0.92	5.99	6.00	21.34	1.34	18.84	m	0.23	0.23
5.38 1.17 -7.31 -3.45 7.34 0.68 5.90 8.78 20.94 1.33 18.75 23.12 0.26 0.25 13.1 -7.70 -3.41 7.34 0.85 5.96 8.73 20.83 1.29 18.75 22.95 0.21 13.5 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.08 15.63 1.45 -7.89 -3.30 7.42 0.76 6.17 8.67 20.84 1.25 18.79 22.90 0.11 15.45 1.38 -7.71 -3.18 7.41 0.71 6.23 8.58 20.80 11.23 18.78 22.83 0.16 11.5 18.8 -7.57 -3.35 7.41 0.68 6.31 8.52 20.73 1.18 18.81 22.65 0.07 13.5 14.7 -7.44 -3.69 7.54 0.71 6.38 8.69 20.65 1.27 18.81 22.85 0.18 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	2		-6.89	-3.36	7.35	0.51	5.86	8.85	21.30	1.33	18.81	m	0.31	0.54
5.56 1.31 -7.70 -3.41 7.34 0.85 5.96 8.73 20.83 1.29 18.72 22.95 0.21 1 5.63 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.08 1 5.65 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.10 1 5.45 1.39 7.71 -3.18 7.41 0.71 6.23 8.58 20.83 1.23 18.78 22.83 0.14 1 5.45 1.28 7.57 -3.35 7.41 0.68 6.31 8.52 20.73 1.18 18.81 22.65 0.07 1 5.57 1.14 7.74 -3.69 7.54 0.71 6.38 8.69 20.65 1.18 18.73 22.58 0.18 1 5.57 1.14 7.74 3.69 7.54 0.71 6.38 8.69 20.65 1.27 18.60 22.88	2		-7.31	-3.45	7.34	0.68	5.90	8.78	20.94	1.33	18.75	3	0.26	0.80
5.63 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.83 1.27 18.75 22.91 0.08 1 5.63 1.45 -8.02 -3.25 7.32 0.80 6.00 8.63 20.84 1.25 18.79 22.99 0.11 1 5.65 1.40 -7.89 -3.30 7.42 0.76 6.17 8.67 20.84 1.25 18.79 22.89 0.11 1 5.65 1.38 -7.57 -3.35 7.41 0.78 6.31 8.52 20.73 1.18 18.81 22.65 0.07 1 5.55 1.14 -7.44 -3.69 7.54 0.71 6.38 8.69 20.65 1.18 18.73 22.55 0.18 1 5.55 1.14 -7.44 -3.69 7.54 0.71 6.38 8.69 20.65 1.27 1.8 18.73 22.55 0.18 1	2		-7.70	-3.41	7.34	0.85	5.96	8.73	20.83	1.29	13.72	2	0.21	1.01
5.60 1.40 -7.89 -3.30 7.42 0.76 6.17 8.67 20.84 1.25 18.79 22.90 0.11 1 5.45 1.38 -7.71 -3.18 7.41 0.71 6.23 8.58 20.80 1.23 18.78 22.83 0.16 1 5.46 1.28 -7.77 -3.35 7.41 0.68 6.31 8.52 20.73 1.18 18.81 22.46 0.07 1 5.57 1.14 -7.44 -3.69 7.54 0.71 6.38 3.69 20.65 11.8 18.73 22.58 0.18 1 8.18 22.58 0.18 1 8.19 22.58 0.18 2 2.58 0.28 2 2.58 0.18 2 2.58 0.18 2 2.58 0.18 2 2.58 0.18 2 2.58 0.18 2	2		-8-02	-3.25	7.32	0.80	00.9	8.63	20.83	1.27	18.75	2	0.08	1.09
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INATE-5 PCT 9.38 9.15 8.38 8.29 8.29 8.27 8.27 8.33 8.33 8.35

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	ADINATE-	)	69.6	19.6	9.37	9.36	9.28	9.27	3.44	9.50	9.50	9.50	0	000	0.00	76.6	76 96	1.39	0000	000	0 0 0	9.72	9.59				5 PCT	16.81	17.04	16.88	17.06	17.21	17 54	17.68	17-78	17.92	18.06	18.06	17.95	17.80	17.68	17.58	17.53	17.52	17.33	17.09	16.89	16.81	
	- CO-OR	SE	1.21	1.17	1.21	1.24	1.26	1.25	1.17	1.16	1.16	1.17	1 17	1 0 0 1	100	000	0000	1 23	1.05	100	200	1.10	1.21			- CO-OR	SE	1.08	1.03	1.17	1.13	71.1	1.11	1:11	1.14	1.10	1.02	1.02	1.02	1.05	1.03	1.00	0.95	0.88	0.93	1.04	1.09	1.08	
	7)	MEAN	11.59	11.58	11.30	11.37	11.35	11.33	11.36	11.41	11.40	11.45	11 6	11 64	11.64	11.60	10 7	11 03	יון	11.40	11.54	11.53	11.59			71	MEAN	18.58	18.13	18.79	18.91	10.01	19.48	19.49	19.54	19.73	19.73	19.73	19.63	19.53	19.36	19.21	19.34	18.96	18.86	18.78	18.58	18.58	
(17)	(	95 PCT	8.61	8.25	8-16	8 - 27	3.17	8.14	8.19	8.37	8.40	8.26	8.26	A 31	8.17	8 34	2 8	100	8 36	8 38	8 34	8 . 43	8.61	231		1	95 PCT	10.39	7.86	10.02	17.01	16.6	69.6	9.92	10.06	10.06	10.17	10.17	10.04	10.11	10.09	10.13	9.87	9.76	96.6	10.00	10.08	10.39	
		5 PCT	3.54	3.61	3.60	3.48	3.61	3.43	3.24	3.24	3.27	3.23	3.23	3.52	3.75	3.72	3.88	3-93	3.51	3.31	3.26	3.36	3.54	NTER		C C C C C C C C C C C C C C C C C C C	2 PC	10.0	06.0	70.0	20.0	6.22	6.12	5.99	16.5	5.87	5.81	5.81	6.08	91.9	6.12	5.94	5.89	6-12	6.24	6.36	6.23	10.9	
E TOP	- CO-ORD	SE	1.55	75-1	1.39	1.46	1.39	1-44	1.51	1.57	1.56	1.53	1.63	1.46	1.35	1.41	1.35	1 - 24	1.47	1.55	1.55	1.54	1.55	SHOUL DER CENTER		20100	32	1 20	1 34	1.00	200	1.11	1.09	1.20	1.27	1.28	1.33	1.33	1.21	1.20	1.21	1.28	1.21	1.11	1.14	1.11	1.17	1.33	
- LT KNEE	()	MEAN	20.9	2000	5.88	5.87	5.89	5.78	5.71	5.80	5.84	5.15	5.75	5.91	5.96	6.03	6.10	5.96	5.92	5.85	5.80	5.89	6.07	- LT SHO	>	MEARI	NA DE	7.02	7 8 2	7 01	7.96	8.05	7.90	7.95	7.99	7.97	1.99	7.99	8.06	8.14	8.11	8.03	7.88	7.94	8.10	8.18	8.16	8.20	
LANDMARK	(	95 PCT	20.10	20.54	20.37	20.37	20.26	50.19	20.28	20.34	20.30	64.07	20.49	20.64	20.65	20.56	20.18	20.45	20.74	20.42	20.27	20.32	20.10	LANDMARK		OS DCT	2000	-2.65	-2.03	-2.94	-2.86	-2.79	-2.69	-2.42	-2.16	-1.86	-1.45	-1.45	-1.88	-2.07	-1.92	-1.69	-1.50	-1.56	-1.69	-2.10	-2.26	-2.20	
	201	ın ı	٠,	-	17.60	-	-	-	- '	4 "	٠,	→	17.40	17.50	17.51	17.56	17.42	17.10	17.03	17.23	17.42	17.63	18.09	_	DINATE	5 PCT	15.11	-5.12	-5.11	-4.98	-4.83	69.4-	-4.55	-4.33	60.4-	-3.94	-3.93	-3.93	-3.83	-4.32	16.4-	-5.36	-5.64	-5.62	-5.37	-4.89	-4.86	-5.11	
	- 00-01	SE	10.0	0.95	0.84	0.85	0.78	0.76	0.86	000	0.83	***	0.94	96.0	0.96	0.92	0.84	1.02	1.13	0.97	0.87	0.82	19.0		- 60-08	1 V	0.83	0.75	0.66	0.62	0.60	0.53	0.57	0.58	0.59	0.64	0.15	0.75	0.59	69.0	0.93	1.12	1.26	1.24	1.12	0.85	0.19	0.89	
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MVMT NO. 21240/33

ZWFDKZ

ONDEROL

ZWCHER

LOKKAKO

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8.

MOTICN NUMBER - 22240 BACK ANGLE - 30

SECS.	SECS.
09.0	0.60 SECS.
TO	CI
0.30	0.20 TO
0.14	0.13
94.0	0.39
LEFT FWD	LEFT REV
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	O A O A		0.24	0.36	0.72	0.90	1.15	1.25	1.36	1-44	1.50	1.57		0.0	0.25	0.45	0.56	0-67	0.75	0.70	4 0	0000	1 05	1 15	67.7				Citt	50		0.20	0.37	0.45	0.61	0.70	0.82	1.00	1.13	1.30		0.0	11.0	0.31	14.0	74.0	0.57	0.64	0.68	62.0	0.83	0.92
u CN	TANCE	1 N C	0.24	0.12	0.36	0.18	0.25	0.10	0.11	0.08	0.06	20.0		0.0	.2	.2	0.11	7	0	2	9		-		:			A POTATOTA	,			0-10	0.17	0.08	0.16	60.0	0.12	0.18	0.12	0.17	0	2.0	71.0	* * * * * * * * * * * * * * * * * * * *	0 0	200	80.0	0.08	0.03	0.11	0.04	60.0
	S DCT	29.74	29.63	29.61	29.76	29.83	29.85	29.77	29.74	29.82	29.85	29.86		29.86	29.74	29.67	29.72	29.66	29.50	29.52	29.61	29.68	20.60	20.74	7			-		23.28	23.34	23.38	23.35	23.38	23.43	23.48	23.49	23.45	23.43	23.41	33 43	14.67	22.43	77 20	14.67	20.00	23.29	23.29	23.33	23.31	23.27	23.28
NIO		25.43	25.82	26.04	25.91	25.73	25.55	25.64	25.70	25.70	25.66	25.59		25.59	25.68	25.69	25.58	25.64	25.77	25.75	25.73	25.72	25.60	25.43				DINATE	S DCT			19.07									-	10.00	10 20	10 15	10 16	10 17	17. LY.	19.12	17.13	19.29	16.31	19.24
- C0-08	, u	1.32	1.16	1.09	1.17	1.25	1.31	1.26	1.23	1.26	1.28	1.30		1.30	1.24	1.21	1.26	1.23	1.14	1.15	1.18	1.21	1.25	1.32	10.4			- CO-OB	5 u	1.23	1.29	1.31	1.26	1.28	1.34	1.35	1.36	1.35	1.33	1:31	1 31	1 20	1.31	1 32	100	1 27	17.7	1.27	07.7	1.23	1.21	1.23
7)	MEAN	27.58	27.72	27.83	27.84	27.78	27.70	27.73	27.72	27.76	27.75	27.72		27.72	27.71	27.68	27.55	27.65	27.64	27.63	27.57	27.70	27.65	27.58				()	MEAN	21.26	21.23	21.23	21.20	21.28	21.24	21.26	21.27	21.24	21.24	21.25	21.25	21.21	21 . 45	21.2	21.26	21 22	77.17	21.20	67.17	21.50	21.29	21.20
2	95 PCT	1.91	1.01	1.43	1.44	1.78	1.90	1.85	1.86	1.92	2.00	2.10		2.10	2.00	1.97	1.84	1.73	1.61	1.57	1.59	1.71	1.80	1.91		i	17	(	95 PCT	0.92	1.07	1.16	1.05	1.09	1.23	1.14	1.04	0.99	1.10	1.26		000	0.85	0.62	0 80	080		0.78		78.0	0.87	0.92
O INATE-	5 PCT	-1.66	-1.12	-1.60	-1.05	-1.12	-1.15	-1.12	-1.18	-1.22	-1.17	-1.15		-1.15	-1.51	-1.85	-1.91	-2.03	-2.37	-1.94	-1.85	-1.81	-1.73	-1.66				RDINATE	5 PCT	-3.40	-3.37	-3.36	-3.32	-3.20	-3.06	-2.95	-2.93	-3.07	-2.97	-2.78	-2.78	-2 . B4	-2.96	-3.21	-3.26	-3.21	73.54	-3.07	12.01	17.6-	-3.28	-3.40
- 00-03	ш	1.09	0.65	0.92	0.76	0.88	0.93	0.91	0.93	96.0	0.97	0.99		66.0	10.1	1.16	1.14	1.14	1.12	1001	1.05	1.07	1.68	1.09			ALE	- C0-08	•	1.32	1.35	1.38	1.33	1.31	1.31	1.25	1.21	1.24	1.24	1.23	1.23	1.17	1.16	1.26	1.26	1.22	1 18	1.17	1 22	77.1	17.7	1.32
- NASION	MEAN	0-12	90-0-	60-0-	0.20	0.33	0.37	0.36	0.34	0.35	0.41	14.0		4.0	47.0	0.08	-0.04	-0.15	-0.23	-0.19	-0-13	-0.05	0.04	0.12			- CERVICAL	()	MEAN	-1.24	-1.15	-1.10	-1.13	-1.05	-0.92	06.0-	-0.95	-1.04	-0.93	91.0-	-0-76	-0-92	-1.06	-1-14	-1-19	-1-21	-1.16	07.1-	-1 17	17.7-	07-1-	-1.24
LANDMARK	95 PCT	1.57	2.10	2.36	1.62	1.58	1.70	1.45	1.31	1.37	1.39	1.36		1.30	10.7	1.80	1.17	1.73	1.80	1.86	1.79	1.67	1.60	1.57		200	ANDHARK	()	95 PCT	-4.35	-4.45	-4.58	69.4-	-4.75	-4.84	-4.71	-4.56	44.4-	-4.48	-4.55	-4.55	-4-52	-4.48	-4.45	-4.51	-4-61	14.55	14.50	14.56	00.41	16.4-	-4.35
D-ORDINATE	5 PCT	-1.89	-2.30	-2.68	-2.39	-2.13	-1.80	-1.75	-1.81	-2.02	-2.03	-1.97		16.1-	00.2-	10.2-	-2.09	-2.07	-2.09	-2.13	-2.08	-1.96	-1.90	-1.89			,			-9.25	-9.23	-9.26	14.6-	-6.39	-9.14	-9.11	-9.03	-8.83	19.8-	-8.53	-8-53	-8.60	-8.68	-8.76	-8.80	-8.82	100	19.03	-8.73	000	50.00	-9.25
1	S	1.05	1.34	1.54	1.22	1.13	1.07	0.98	0.95	1.03	1.04	1.02		•										1.05				1	SE	1.49	1.46	1.43	1.46	1.42	1.31	1.34	4.30	1.34	1.28	1. 21								1.37			•	
x)	AN	-0.16	-0.10	-0.16	-0.38	-0.27	50.0-	41.0-	-0.25	-0.32	-0.32	-0.30	•	J.	'n.	٠.	7	7	∹	7	∹	7	7	-0.16				X)	AN	-6.80	-6.84	-6.92	-7.38	-7.07	-6.99	16-9-	61.0-	10.01	10.0-	-0-24	-6.54	-6.56	-6.58	-6.61	-6-66	-6-71	-6-77	-6-78				
SAMPLE	SIZE, N	7	7	_	-	- 1	- 1	- 1	- 1	-	7	7	٢	- 1	- 1	- 1	-	1	7	7	7	7	7	7				SAMPLE	SIZE, N	7	7	7	7	7	7	- 1	- 1	~ 1	- 1	-	7	7	7	7	7	7		- 1-			- 1	•
TIME	-	0.0	0	F 0.20	9	٠, ر	9	•	-	_	06.0	1.00		• -	•	0.0	0.3	4.0	0.5	9	0.7	0.8	6	1.00				TIME	-			0	ċ	•	o	•	•	•	•		0.0	0.10	0.20	0	0	0	0	R 0.70	, 0	3 0	0000	1.00

MOVED	TOU TOU	0.0	0.23	0.37	14.0	0.56	69.0	0.86	0.98	1.19	1.29	1.50	0.0	0.25	77	1	79.0	1.0	0.86	1.03	1.20	1.27	1.31	1.39		MOVED	MIL	0-0	0-12	0.29	0.50	9.0	06.0	1.36	1.65	1.48	2 2 2 2	16.7	0.0	0.16	0.32	0.52	0.66	0.85	96.0	1.03	1.16	1 20
DISTANCE	INCR	0.0	0.23	0.14	0.10	60.0	0.13	0.17	0.12	0.21	0.10	0.21	0.0	0	1 "	2 -		-	7	-	7.	0	0	0.08		DISTANCE	-	0.0	0.12	0.17	0.20	0.14	0.26	0.45	0.29	0.23	17.0	77.0	0	7.	0.17	7	7.	7		3	7.	(
(	95 PCT	22.18	22.02	21.96	21.94	21.98	22.05	22.10	22.18	22.25	22.29	22.35	~	10	1 6	A L	V	N	2	2	2	2	2	22.18		[]	v	10	10	10	22.24	~	5	N	2	4	A L	4	22.81	10	22.53	(V	~			1.4	1.4	
	5 PCT	19.22	19.24	19.20	19.18	19.14	19.07	19.23	19.35	19.47	19.52	19.55	19.55	10.66	0000	70.61	19.30	19.15	10.09	19.00	18.96	19.09	19.17	19.22			5	18-10	18.26	18.35	18.29	18.23	18.13	18.45	18.61	18.61	10.03	40.00	8	8	18.76	8	8	8	æ	18.11	8	-
- C0-0R	SE	06.0	0.85	0.84	0.84	0.87	0.91	0.88	0.86	0.85	0.84	0.85	0.85	47	7 - 0	000	0.93	0.97	96.0	66.0	1.00	96.0	0.92	0.00		- CO-OR		1.31	1.23	1.18	1.20	1.26	1.35	1.26	1.21	1.23	1 27	17.7	1.27	1.19	1.15	1.22	1.28	1.34	1.37	1.36	1.34	
7)	MEAN	20.70	20.63	20.58	20.56	20.56	20.50	20.66	20.17	20.86	20.91	20.95	20.95	20.00	20.00	20.00	78.07	20.14	20.67	20.07	20.61	20.55	20.69	20.10		[]	MANA	20.25	20.28	20.29	20.26	20.30	20.36	20.48	20.60	20.59	20.13	71.07	20.72	50.69	20.05	20.50	20.48	74.02	20.38	20.35	20.33	
[]	S	1.02	1.29	1.52	1.59	19.1	1.63	1.72	1.78	1.77	1.92	2.15	2.15	1.66	000	1.30	1.19	1.26	1.45	1.33	1.22	1.24	1.16	1.02	51	()					8.57						•		8.44	8.26	8.12	1.97	7.89	7.89	7.94	8.04	8.25	
RD INATE	5 PCT	-3.14	-3.12	-3.13	-3.13	-3.00	-2.84	-2.69	-2.66	-2.30	-2.79	-2.69	-2.69	-2 48	2 7 7	+1.7-	18.7-	-3.01	-3.14	-3.15	-3.16	-3.17	-3.16	-3.14	_	RO INATE	S DC	81.4	6.26	6.22	6.13	6.18	6.33	6.02	5.85	19.9	01.0	100	41.9	6.72	6.71	61.9	6.13	6.57	6.53	6.52	6.56	
	SE	1.27	1.35	1.42	1.44	1.40	1.36	1.35	1.35	1.39	1.43	1.48	1.48	1 33	200	1.63	47.7	1.30	1.40	1.36	1.33	1.35	1.32	1.27	CMION		)	0.73	24.0	0.68	0.75	0.74	19.0	0.73	0.77	0.44	44	0.32	0.52	0-47	0.43	0.36	0.35	0 - 40	0.43	0.46	0.52	
١)	MEAN	-1.06	-0.92	-0.81	-0-77	-0.70	-0.61	64.0-	-0.44	-0.52	-0.43	-0.27	-0-27	10.51	10.0	70-0-	10.84	-0.87	-0.85	-0.91	16.0-	-0.96	-1.00	-1.06	- LT ACRCMION	Y)	NATA	7.38	7.35	7.34	7.35	7.39	7.44	7.21	7.12	7.32	1.40	60.)	7.59	7.49	7.41	7.38	7.31	7.23	7.24	7.28	7.40	
(	95 PCT	-1.49	-1.33	-1.03	-1.09	-1.11	-1.13	-1.19	-1.31	-1.37	-1.35	-1.26	-1-26	-1 20	1 1 2	71.1-	55.01	-0.78	-0.64	-0.86	-1.11	-1.33	-1.42	-1.49	ANDMARK	(	OS DCT	13.46	-3.99	-4-37	-4.36	-4.14	-3.94	-3.76	-3.39	-3.25	2.30	71.7-	-2.72	-2.91	-3.06	-3.07	-3.09	-3.37	-3.57	-3.59	-3.64	
	5 PCT	-5.25	-5.06	-5.23	-5.35	-5.23	-5.02	-4.82	-4.70	-4.99	16.4-	-4.80	-4.80	-5.00	200	n	2	2	2	5	2	5	-5.24	-5.25	7	RDINATE		, [	-	-	-7.83	-	-	-6	9	- 6	1	i	-6.77	-6.81	-6.94	-7.28	-7.44	-7.38	-7.46	-7.53	-7.41	
•	SE	1.15	1.14	1.28	1.30	1.26	1.19	1.11	1.03	1.10	1.10	1.08	1.08	1 16	300	1.23	1.32	1.39	1.42	1.39	1.32	1.21	1.16	1.15		0-03 -	) ц	1.30	1.05	0.93	1.06	1.11	1.08	96.0	1.03	1.11	1.20	1.24	1.24	-	1.18	.2	. 3	2.	1.	. 2	7.	'
!	I	-3	-3	-3	-3	-3	-3	-3	-3	-3	- 3		-	000	7 0	7	-3.16	3	2	3	3	-3.32	3	-3.37		X)	MEAN	2 4	7.7	5.8	-6.09	5.9	5.7	5.3	5.0	2.0	46.4-	4.	4	-4.36		S	S	S	S	-5.56	S	١
SAMPLE	SIZE,N	7	7	7	7	7	7	7	7	1	1	7	7		- 1	- 1	-	_	7	7	7	1	7	7		SAMPLE	SIZEN	215	0 4	0.0	0 0	9	9	9	9	9	9.	٥	9	9	9	9	9	9	9	9	9	1

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- III				3.20				•	-	_	-	-	0		4 (	7.7	3.0	2.1	9	1.5	9.6	9.1	10.5	10.84		E MOVED	บี	0	0.1	0.14	0.5	0	0.4	0.4	0.5	0	0	0.0		0.0	0.1	0.0	0.3	0.4	0.5	0.	0.8	0.8	6.0	1.0
018				1.73									0		100	11.1	1 . 48	1.58	1.66	1.15	1001	0.75	0.54	0.55		DISTANCE		0.0	0.11	0.03	0.11	0.09	0.13	0.01	0.03	0.08	0.15	0.23	,	0.0	0.12	0.11	0.10	0.13	0.12	0.14	0.10	0.05	0.08	0.11
-	95 PCT	13.47	15.50	17.64	21 02	22 67	24.10	01-47	04.47	24.07	23.69	23.47	23.47	22 51	23 74	41.00	60.77	81.17	19.40	17.58	16.07	15.06	14.25	13.47		(	6			4.56										4.98	19.4	4.43	4.37	4.42	4.43	4.40	4.40	4.43	4.52	4.62
	5 PCT	12.50	13.42	14.72	10.01	1000	20.50	81.02	76.07	21.42	21.60	21.50	21.50	20 30		70 07	14017	15.94	14.35	13.97	13.51	13.08	12.82	12.50		CO-ORDINATE-	5 PCT	2.58	2.68	2.73	2.73	2.80	2.86	2.89	2.93	3.00	2.53	1.51		1.51	5.00	2.52	2.77	2.82	2 . 83	2.85	2.88	2.83	2.76	2.58
- CO-OR	SE	0.29	0.63	0.89		1 22	1.00	61.1	1.04	0.81	0.64	09.0	040	000		1.00	80.1	1.00	1.50	1.10	0.78	0.60	44.0	0.29		0-00 -	SE	0.62	0.58	0.56	0.54	64.0	0.44	0.45	0.40	0.38	0.57	1.06		1.06	0.80	0.58	0.49	64.0	0.49	0.47	0.46	0.47	0.54	0.62
7)	MEAN	12.39	14.40	16.18	10.01	21 20	22 14	41.77	60.77	22.15	22.54	55.49	22.69	21 05	21 27	70.77	20.00	18.50	76.07	12.11	14.79	14.07	13.53	12.99		7)	MEAN	3.60	3.63	3.65	3.51	3.59	3.58	3.58	3.59	3.62	3.47	3.25		3.25	3.37	3.47	3.57	3.62	3.63	3.63	3.04	3.66	3.64	3.50
	6	-	٠,	10.41	1			•	٠,	-	-	-	11.00	13.82	70	000	10.00	97.01	C+*OT	10.37	10.47	10.66	10.60	10.52	101	(	95 PCT	7.46	7.48	7.59	7.70	7.78	7.84	7.78	7.71	7.63	7.67	7.79		7.79	1.83	7.90	7.92	7.87	7.86	7.77	7.66	1.54	7.45	7.46
D INATE-	5 PCT	01.6	9.13	01.6	20.00	200	70.0	0.00	66.00	60.6	9.24	9.36	9.36	000	17		10.0	1.19	8.20	8.56	8.87	80.6	9.11	9.10		DINATE-	W)	5.41	5.49	5.43	5.31	5.39	5.54	5.60	5.62	5.56	5.52	5.48		2.48	74.0	5.49	5.41	5.25	66.4	5.25	2.50	2.67	19.5	5.41
	SE	0.43	44.0	0.42		2.0	1000	62.0	40.0	0.39	0.43	0.50	0.50	2 2 0	200		0.00	15.0	0.0	0.55	0.49	0.48	0.45	0.43	STANDOOF T	- CO-ORD	SE	0.63	0.61	99.0	0.73	0.73	0.10	99.0	0.64	0.63	0.65	0.10		0.00										
\ <b>)</b>	MEAN	9.81	9.85	61.6	92 0	0.30	2000	7.40	7.00	9.13	6.65	10.18	10.18	00.0	64.0	50.0	74.6	17.6	7.30	14.6	19.6	9.87	9.85	9.81	1	λ)	MEAN	44.9	64.9	6.51	6.51	69.9	69.9	69.9	99.9	69.9	09.9	6.63		6.63	99.0	6.70	99.9	6.54	6.43	6.51	6.58	6.61	6.53	44.9
	95 PCT	17.98	17.80	10.00	10 24	18.75	10 41	10.61	20.00	47.17	21.67	21.96	21.96	21.02	20 20	20.00	19.00	19.00	18.05	18.68	18.67	18.46	18.15	17.98	MONA	(	95 PCT	4.75	4.73	4.71	4.72	4.85	66.4	46.4	4.89	4.86	4.86	4.84		4.84	4.81	4.88	4.85	4.84	4.85	4.80	4.17	4.78	4.77	4.75
- 1	5 PCT	15.69	15.73	15.39	15.51	16.10	14.51	10.01	10.07	11.39	17.99	18.63	18.63	17.94	14 00	10000	17.40	17001	01.61	12.44	15.26	15.47	15.66	15.69		2	S	1.82	2.03	5.09	1.87	1.80	1.82	1.85	1.88	1.87	1.92	2.00		2.00	2.03	2.02	2.04	2.07	5.05	1.88	1.77	1.84	1.85	1.82
0-03 -	SE	0. 10	0.63	0.0	1000	9 0	000		1.10	1.17	1.12	1.02	1.02	70		10.1	71.1	66.0	0.88	66.0	1.04	0.91	0.76	0.10		- C0-0R	SE	06 0	0.82	0.80	0.87	0.93	0.97	0.94	0.92	0.91	0.89	0.87		0.87										
X)	MEAN	16.83	10.76	10.61	00.01	17 43	10 04	00.01	60.01	18.81	19.83	20.29				•	•		٠,	:	,			16.83		X)	AN	3.28	3.38	3.40	3.29	3.32	3.40	3.40	3.39	3.37	3.39	3.42		3.42		•								
SAMPLE	12E,	1	-	- 1			- 1	- 1	- 1	-	7	1	1			- 1	- 1	- 1	- 1	-	-	1	1	7		AMPL	SIZE,N	7	7	7	7	7	7	7	7	7	7	7	,	- 1	1	7	7	7	7	7	7	7	7	7
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3		2000																					0.30		STANCE	,	0.0									_	-								0.87		•	_
		15-17	15.48	15.81	16.38	17.19	18.08	18.85	19.64	20-17	20.32	20.40	20.40	19.18	18-11	17.37	16.84	16.35	15.92	15.51	15.19	15.17	15.17		10 (		12.81	14.53	17.01	18.20	19.41	20.61	21.36	22.06	22.23	81.77	50.22	22.04	22.31	22.51	21.32	19.93	18.37	16.80	15.47	14-10	13.42	16.51
T A T C		10.71											52	41	14	53	63	86	42	10	69	21	10.71		INA TE		12.57											89	95	46	65	99	20	38	13.06	11	16	26
190-03	2	1.36	1.33	1.25	1.11	1.01	0.93	0.85	0.87	0.95	0.92	0.88	0.88	0.75	0.72	0.87	0.98	1.07	1.07	1.06	1.07	1.21	1.36		- C0-08	SE	0.07	0.27	1.28	0.94	19.0	9.46	0.50	0.48	0.43	24.0	0.42	0.42	1.03	1.70	1.75	1.61	1.42	1.04	0.73	0.32	0.16	0.0
,	MEAN	12.94	13.30	13.76	14.55	15.53	16.55	17.45	18.21	18.62	18.85	18.90	18.96	17.96	16.93	15.95	15.24	14.60	14.17	13.76	13.44	13.19	12.94		7)	MEAN	12.69	14.09	14.92	16.67	18.30	19.86	50.54	21.27	24.12	64.17	71.30	21.36	20.53	19.72	18.45	17.29	16.03	15.39	14.27	13.04	13.16	14.09
1671	OS DCT	13-69	13.21	13.19	13.12	12.99	12.93	12.82	12.69	12.47	12.35	12.32	12.32	12.75	13.34	13.65	13.85	14.00	13.85	13.73	13.76	13.59	13.69	( 27)	[]	95 PCT	11.72	11.79	11.96	11.97	11.73	11.50	11.55	11.11	11.73	13 30	17.29	12.29	12.13	12.06	15.01	12.06	11.85	11.91	11.94	10.21	11.35	71.11
EK DO INATE	S DCT	11.71	11.79	11.56	11.72	11.72	11.52	11.24	10.90	10.56	10.21	9.85	9.82	10.53	11.05	11.46	11.65	11.73	11.83	11.92	11.97	11.98	11.11	E	AD INATE-	S	9.72	66.6	9.25	8.65	8.58	8.67	60.6	9.59	18.6	40.0	9.63	69.63	9.62	9.48	9.31	6.05	9.40	9.16	10.14	10.37	10.01	7016
ELBUM CENTER	2 4	0.60	0.43	0.50	0.43	0.39	0.43	0.48	0.55	0.58	0.65	0.16	0.76	0.68	0. 70	0.67	0.67	69.0	0.62	0.55	0.54	64.0	09.0	LT WRIST CENTER	1 - CO-ORD	SE	0.61	0.55	0.82	10.1	95.0	0.86	0.75	0.66	65.0	20.00	18.0	0.81	0.17	0.79	0.82	0.52	0.13	99.0	0.55		40.0	10.0
	MEAN	12.70	12.50	12.38	12.45	12.36	12.22	12.03	11.80	11.51	11.28	11.07	11.07	11.64	12.19	12.55	12.75	12.86	12.84	12.82	12.87	12.79	12.70	- LT WR	()	MEAN	10.72	10.88	10.60	10.31	10.15	60.01	10.32	10.68	10.01	10.85	10.90	10.96	10.87	10.77	10.66	10.56	10.65	10.83	11.04	77.11	10.78	71.01
ANDUNAL	o	4.71											8.71	8.01	7.44	7.00	6.49	5.86	5.41	5.23	4.97	4-74	4.71	LANDMARK	()	95 PCT	14.34	14.82	15.18	15.59	16.13	16.82	17.59	11.98	19.61	18. 18	18.00	18.66	18.34	18.07	17.31	16.52	16.32	16.07	15.62	16.47	14.00	16.47
POTNATE	5 007	2.71	2.84	2.96	3.15	3.59	4.16	4.50	4.91	5.36	5.80	6.25	6.25	5.54	4.69	3.92	3.49	3.17	2.95	2.76	2.98	2.97	2.71		RDINATE-	5 PCT	11.66	11.72	11.92	11.87	12.52	13.35	13.80	13.77	14.19	12.15	77-91	16.22	14.58	12.85	11.76	11.39	10.85	10.68	10.78	00.11	11.50	00 . 7 7
- CO-		0.61	0.10	0.73	0.64	0.71	0.85	0.04	96.0	0.86	0.19	0.75	0.75	0.75	0.84	0.94	0.91	0.82	0.75	0.75	0.61	0.54	0.61		0-03 - X		0.81	0.95	0.99	1.13	1.10	1.06	1.15	1.28	1.3/	11.1	47.0	0.74	1.15	1.59	1.69	1.56	1.61	1.64	1.47	1.00	24.0	10.0
		3.71	3.98	4.15	4.20	4.75	5.51	6.04	6.49	92.9	7.10	7.48	7.48	6.78	90.9	5.46	66.4	4.52	4.18	4.00	3.98	3.86	3.71				13.00	13.27	13.55	13.73	14.33	15.08	15.69	15.87	16.43	16.01	11.44	17.44	16.46	15.46	14.54	13.96	13.58	13.38	13.20	13.13	13.09	13.00
CAMDIE	CI ZE N	9175911	9	9	9	•	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		SAMPLE	SIZEON	3	3	4	4	4	4	4	6	m (	7	5	6	3	3	m	m	•	0	m	9 (	91	9
1	-	0.0	0.10	0	0	4 0.40	0	0	0	0	0.00	1.00	0.0	0.10	0.20	0	0	1 0.50	0	0	0	0	1.00		TIME	-	0.0	0.10					0.00 A			06.0	1.00	0.0	0.10			E 0.40			0.70		0.00	1.00

& W F D & Z

TOXBAKO

COMMENGE

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 to Hatch Release controller at +11.0, -13.0, +23.0 and returns. This movement is preceded by Left Hand moving from Throttle controller at +18.0, +10.0, +12.4 to Stick controller and is followed by Left Hand returning back to Stick controller.

MOTICN NUMBER - 11160 BACK ANGLE - 30

RANGE	0.60 TO 1.00 SECS.	0.70 TO 1.20 SECS.
1 ~	10	13
T AT	09.0	0.70
TIME DATA	0.15	0.21
MEAN	0.83	0.36
SUB-MOVEMENT	RGHT FWD	RGHT REV

0.14			OF BCT	MEAN		100	L		- C0-08	DINA
114	C	17.6	0 %	MEAN	SE C	יי ארו	2	-	W C	5 PCT
21	1.37	-2.11	2.30	-1.22	0.00	-2.45	0.00	27.03	1.35	14.67
	3	-2.01	2.43	-1.41	0.83	-2-78	0	n 0	7	25 73
.17	5	-2.33	2.68	-1.51	0.76	-2.75		0	20	25.01
115	3	-2.07	2.37	-1.65	0.69	-2.77	0	0	10	25.90
175	3	-2.26	2.50	-1.55	0.62	-2.57	0	m	10	26-11
.05	4	-2.44	2.40	-1.41	0.74	-2.62	0	m	0	26.11
.01	10	-2.61	5.59	-1.28	0.89	-2-74		m	0	26.08
.11	S	-2.61	2.39	-1.16	16.0	-2.75		n	0	26.14
+1.	10	-2.71	2.43	-1.06	0.89	-2.52		m	0	26.20
-12	10	-2.65	2.40	-1.00	0.95	-2.56		O	0	26.14
-0.12	in		2.40	-1.00	0.95	-2.56	0.56	0	C	26 16
• 05	1.64	N	2.74	-0.20	0.93	-1-72	1 33	27.82	1.21	25 25
.28	10	2	2.78	-0-02	0.68	-1-14	000	2 0	u -	25 05
-42	+		2.81	0-03	0.75	-1-21	1 24	2 0	4 -	25.00
.46	+	-	2.89	0-0	07.0	-1 20	1 20		4 -	65.63
51	- 1	-	2000			13.20	95.7	- 1	-	25.96
4 4 4	2 4	•	2 3 3	0.10	0.0	17.1-	1.58	m	-	25.93
0 0	0 0	:.	2013	11.0	0.84	-1.27	1.50	30	0	26.12
	M C	:.	19.7	90.0	0.82	-1.28	1.40	-	-	25.82
71.	V	:.	2.68	-0.05	0.12	-1.20	1.16	-	N	25.65
300	11		2.86	-0-11	19.0	-1.11	0.90	-	N	25.64
. 80	~		3.04	-0.21	0.62	-1.23	08.0	27.53	1.35	25.41
		7	ANDMARK	- CERVICALE	LE		( 2)			
×	CO-OR	OIN	(	()	9	ORD INATE	(	1	0-00	2
MEAN	SE	5 PCT	5 P	MEAN	SE	5 PCT		V	) II	9 11
	0.78		5	0.55	1.25	-1.50	,	2	1 4	0
	1.17		5	0.39	0.54	-0.50		110	1 4	01.0
	1.19		5	0.47	0.59	07-0-		u	- 3	10 24
	1.22		5	0.51	0-62	-0.51		1 11	1 3	10.00
	0.95	-8.72	-5.61	0.65	0-75	-0.50		1 1	+ "	12.67
	0.93		5	0.82	0.91	-0-67		~	) "	10 12
	0.95		5	3.96	0.75	-0-27		1 3	2 0	10.40
	16.0		5	1.27	0.97	-0.32		. 3	2	10.15
	0.93		5.	1.29	1.02	-0.38		5	. 4	10.16
	26.0		5	1.25	1.16	-0-65		4	. 4	000
	96.0		5	1.19	1.26	-0.88	3.26	21.48	1.47	19.07
90	96 .0	æ	5.4		1.26	-0.88		.4	-4	0
66.	96.0	8	5.4	N	1.23	-0-80			- 1	
98	0.89	8	5.4	$\sim$	1.15	-0.70		. 10	. 4	0
.85	9.84	8	5.4	-	1.10	-0.71		10	- 10	
2	0.85	8	5.4	Ch	0.99	-0.67		10	1 4	0
61.	0.83	8	5.4	O	0.98	-0.70			. 4	0
.72	71.0	7	5.5	C	1.12	-0.93		10	- 1	, ,
7	0.73	7.	5.4	Ch	1.48	-1.45		10	2	
-62	0.71	-7.78	-5.45	6.74	1.27	-1.35	2.82	21.51	1.4.1	10.10
19.	0.82	80	5.3	-4	1.18	-1 64			٠.	
5.1	7.		1	۰	2					

MOVED CUM CUM 0.0 1..23 1..55 1..55 1..59 2.12 2.12 2.28 2.38 2.38

95 PCT 29.84 30.05 30.07 29.90 29.66 29.66 29.60 29.61 29.55

0.0 0.0 0.83 11.27 11.57 11.62 11.91 2.02

0.00

29.72 29.80 29.74 29.69 29.61 29.70 29.71 29.72 29.72 29.69

24.04 23.83 23.85 23.85 23.99 23.75 23.57 23.80 23.81 23.87

0.0 0.05 0.05 0.32 0.47 0.63 0.63 0.77 0.77 0.77

23.89 24.92 24.92 24.94 23.87 23.85 24.85 24.94 24.04

ZWCJWZ

1 I E

X W L D X Z

TOXBAXO

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MOVED	COM	0.0	64.0	0.59	00.00	0.00		1.30	7001	1.68	1.80	2.02	0.0	0.11	0.25	0.32	0.47	0.55	0-68	0.83	1.00	1.15	1.33			200	0.0	1.15	1.30	1.59	1.84	2.25	2.63	3.07	3.18	3.28	3.35	0.0	0.28	0.75	1.16	1001	2.03	2.39	5.59	2.77	2.94	1
DISTANCE	INCR	0.0	64.0	0.10	000	0000	77.0	0.34	17.0	0.17	0.11	0.22	0.0	0.11	0.14	0.07	0.16	0.08	0.13	0.15	0-17	0.15	0.18		DICTANCE	7	0.0	1.15	0.14	0.29	0.25	0.41	0.38	0.44	0.10	0.11	0.0	0.0	0.28	2.67	0.41	74.0	0.43	0.36	61.0	0.19	91.0	1
[	95 PCT	22.45	22.19	22.21	22 22	22 11	77.77	22.35	45.27	22.37	22.27	25.45	22.45	22.33	22.38	22.43	22.38	22.39	22.49	22.43	22.30	22.51	22.45				21.83	22.00	22.14	22.10	22.22	22.17	22.25	75.27	22.38	22.33	14.77	22.41	22.35	22.26	22.11	21.90	21.86	21.81	21.82	21.76	21.88	
0	5 PCT	19.06	19.05	18.94	0000	10000	000	18.81	16.97	18.96	19.03	18.98	18.98	18.89	19.00	19.02	18.95	19.01	18.93	18.95	19.06	18.92	19.06		DINATE		18.00	18.05	18.02	18.13	18.09	18.28	18.26	18.21	18.43	18.45	84 - 87	18.48	18.29	18.18	18.25	18.40	18.43	18.45	18.23	18.22	18.06	
- CO-OR	SE	1.04	96-0	1.00	200	100		80.1	1.00	1.04	66.0	1.06	1.06	1.05	1.03	1.04	1.05	1.03	1.09	1.06	0.99	1.10	1.04		0-05	5 4	1,17	1.20	1.25	1.21	1.26	1.18	1.22	1.28	1.21	1.19	1.20	1.20	1.24	1.25	1.18	1.07	1.04	1.03	1.09	1.08	1.16	
7)	MEAN	20.15	20.02	15.02	20.56	34.00	0 4 00	20.08	70.07	20.56	20.65	20.71	20.71	20.51	20.59	20.72	20.56	20.73	20.71	20.69	20.58	20.72	20.75		()	MEN	19.97	20.03	23.38	77.07	20.16	22.62	20.25	76.07	23.39	20.39	50.43	20.45	20-32	20.22	20.19	57.07	23.15	20.13	20.02	66.61	19.37	
(	95 PCT	2.51	1.79	1.49	1 54	1 82	20 20 2	7.34	20.5	3.07	3.22	3.41	3.41	3.01	2.88	2.90	2.67	2.75	2.92	3.38	2.67	2.26	2.51	3		95 PCT	-6-81	-6.63	-6.78	-6.46	-6.26	-6.75	-6.74	-6.33	-6.56	76.92	77.0-	-6.22	-6.56	-6.71	-6.70	-6.62	-6.52	-6.63	-6.66	-6.75	-6.81	
	5 PCT	-1.20	-1.21	70.1-	-1-1	-1-1-	1	-1.50	+0 · T-	-1.64	-1.57	-1.61	-1.61	-1.20	-1.19	-1.19	-1.21	-1.28	-1.34	-1.53	-1.16	-1.03	-1.20		- STANT CO	5 PCT	-8-86	-8.94	-8.69	-8-71	-8.79	-8.43	-8.26	41.8-	-8.05	91-8-	1001	-8.47	-8.45	-8.55	-8.58	-8.66	-8.75	-8-74	-8.75	-8.77	-8.96	
- CO-0RD	SE	1.13	76.0	9.0	0 81	80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30	1.30	1.44	1.46	1.53	1.53	1.28	1.24	1.25	1.18	1.23	1.30	1.50	1.17	1.00	1.13	MION	10-03	) u	0.62	0.70	0.58	69.0	0.77	0.51	0.40	0.55	0.46	33	•	89.0	0.58	0.56	0.58	0.62	0.68	0.64	0.0	0.62	0.66	
X)	MEAN	0.66	67.0	0.21	10.0	25.0	640	24.0	70.0	0.11	0.82	06.0	06.0	0.00	0.85	0.86	0.73	0.73	0.79	0.92	0.76	0.62	99.0	- RT ACROMION	X	MEAN	-7.84	-7.78	-7.73	-7.58	-7.52	-7.59	-7.50	47-1-	-7.30	-1.34	11.34	-7.34	-7.51	-7.63	-7.64	-7.64	-7.63	-7.68	-7.70	-7.76	-7.88	-
	95 PCT	0.37	4.01	84.01	10-67	-0-13	710	10.14	0000	-0.50	-0.51	-0.29	-0.29	-0.39	-0-14	-0.06	0.03	0.04	0.06	-0-18	0.00	0.38	0.37	~		95 PCT	-2.30	-3.81	-4.10	-4.39	-4.43	-4.81	-4.86	-2-18	-5.22	01.6-	17.6-	-5.27	-4.87	-4.54	-4.29	-3.73	-3.34	-2.82	-2.53	-2.54	-2.43	
DINATE	S PCT	14.40	17.4-	61.4-	-4-15	-4.70	-5.42	24.00	11.6-	-5.22	-5.26	-5.09	-5.09	-5.04	-5.09	-5.05	66.4-	-4.87	-4.66	-4.26	-4.58	-4.81	-4.46		DINATE		-5.69	-6.47	-6.42	-6.62	-7.06	-7.49	-8.17	-8.50	-8.52	14.8	10.04	-8.34	-8.34	-7.80	-7.23	-6.90	-6.44	-6.25	-6.22	-5.87	-5.76	
- 00-08	SE	1.41	1.14	11.1	1.12	1.42	14	10.1	C+ - T	1044	1.45	1.46	1.46	1.42	1.51	1.52	1.53	1.50	1.44	1.24	1.42	1.58	1.47		40-05	) 0	1.03	0.81	17.0	0.68	0.80	0.82	1.01	1.03	1.00	70.7	**	96 0	1.06	1.00	0.89	0.97	0.95	1.05	1.12	1 - 02	10.01	
×	MEAN	-2.05	-2.34	-2.30	-2-31	-7.46	-2.78	-2.10	2000	-2.80	-4.83	-2.69	-2.69	-2.72	-2.61	-2.55	-2.48	-2.41	-2.30	-2.22	-2.26	-2.22	-2.05		X	•	-3.99	-5.14	-5.26	-5.51	-5.75	-6.15	-6.52	18.9-	-6.87	1000	00.01	-6.30	19.9-	-6.17	-5.76	-5.32	-4.89	-4.53	-4.38	-4.20	60.4-	
SAMPLE	SIZE,N	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	7	7	7	7	7	7	7	7	7	7	7	7		SAMPLE	SIZE	7	7	~	7	7	7	7	- 1	- 1	- 1	-	7	7	7	~	7	7	7	7	7	7	
TIME		0.0	0.10	07.0	0 4	0.50		000	200	0.80	0.00	1.00	0.0	0.10	0.50	0.30	0.40	0.50	09.0	0.70	0.80	0.90	1.00				. 0	01.	.20	.30	040	.50	09.0	0	.80	06.	2	0.0	0.10	0.50	0.30	0.40	0.50	0.00	0.10	08.0	06.0	

FOKMAKO

ZWFDZZ

TOKBAKO

0	
0	1
0	5
7	0
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0	5
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MOVED	COM	0.0	0.16	0.26	0.29	0.37	0.52	0.56	0.62	0.68	0-73	06.0		0.0	0.07	0.10	0.18	0.30	0.38	0.45	0.60	0.70	0.75	0.82			ANVED	1	0-0	1.12	1.20	1.52	1.92	2.35	2.87	3.06	3.17	3.32	3.43	0.0	0.30	0.75	1.17	1.52	2.08	2.63	2.92	-
DISTANCE	œ	0.0	0.16	0.10	0.03	0.08	0.15	0.04	3.05	0.07	0.05	0.16		0	0	3	0	7.	0	0	7.	0.10	0	0			ANCE	Jack I	0.0	1.12	0.08	0.32	0 * 0	0.44	0.52	0.19	0.11	0.15	0.11	0.0	3	0.45	4.	3	5	.5	12.	
i	6	13	13	13	13	13	13	12	12	17	13	13.12	,	<b>n</b>	m	m	m	3	m	3	m	13.04	m	3			(	S PCT	9.81	. Or	19.74	O.	0	C.		0		9	_	20.83	20.64	20.39	20.19	20.11	19.84	19.85	19.92	10 70
RDINATE	5 PCT	9.83	9.80	9.72	9.81	99.6	9.73	9.73	9 . 86	9.80	9.78	9.77		11.6	9.11	61.6	9.85	9.84	9.80	9.83	9.81	9.85	9.85	9.89			0		16.04	15.93	15.87	15.94	15.83	16.26	16.47	16.57	16.66	16.71	10.08	16.68	16.42	16.31	16.30	16.25	16.50	16.31	16.11	16 34
- 00-03	SE	96.0	66.0	1.04	66.0	1.06	1.03	16.0	0.94	96.0	0.96	1.02		70-1	1.00	1.00	0.98	0.99	1.01	0.98	1.00	0.98	16.0	96.0			- 00-08	SE	1.15	1.15	1.18	1.19	1.25	1.13	1.18	1.22	7.52	1.20	07.1	1.26	1.29	1.24	1.18	1.18	1.02	1.08	1.16	70
7)	MEAN	11.47	11.42	11.43	11.43	11.39	11.42	11.38	11.41	11.38	11.36	11.44		44.77	14.71	64.77	11.46	11.40	11.45	11.44	11.45	11.43	11.44	11.47			7)	MEAN	17.94	17.82	17.30	17.30	17.95	18.11	18.40	16.51	96-87	10.00	61.01	18.75	18.53	18.35	18.25	18.18	18.17	18.08	16.81	18-11
(	95 PCT	-3.82	-3.67	-3.72	-3.66	-3.77	-3.84	-3.75	-3.85	-3.69	-3.57	-3.68		00.61	<b>u</b> .	13.6	77	$\sigma$	11.4-	2 1	-3.81	-3.82	-3.43	-3.85	100	7	(	95 PCT	-6.10	-6.44	-6.55	-6.41	-6.55	-6.77	-6.81	79.9-	*0.01	16.0-	•	-6.43	-6.58	-6.65	-6.38	-6.53	-6.37	-6.03	-5.94	-6.32
RD INATE-													7 20	67.1	1000	1 20	1.38	16.9-	10.00	81.0-	-0.80	76.9-	76.0-	86.9-	0.00	4	DINATE-	5 PCT	-8.31	-8.32	-8.34	14.8-	-8.38	-8.16	-8-11	61.8-	01.0	77.01	•	-8.44	-8.33	-8.03	-Y.94	-8.23	-8.30	-8.24	-8.34	-B 07
- C0-0B	SE	96 .0	1.13	1.12	1.14	1.05	1.10	1.14	1.06	1.16	1.25	1.10	01	01.	1 13	1 15	61.1	86.0		10.0	16.0	0.0	16.0	0.30	משט וווטאס		- CO-08	SE	0.68	0.57	0.55	0.63	0.56	0.45	0.40	**	24.0	50.00	3	09.0	0.53	0.45	0.48	0.53	0.59	99.0	0.73	53
١)	MEAN	-5.40	-5.53	-5.55	+C-C-	-5.50	-2.64	-5.62	-5.59	-5.59	-5.62	-5.49	-5.40	15.54	15.0	0 4	0 0 0	10.50	10.01	01.01	15.27	15.67	71.0	04.0-	TO -	5					-7.44									-7.46	-7.46	-7.34	-7.16	-7.36	-7.33	-7.17	47-1-	-7.20
(	95 PCT	20.00	50.00	20.03	11.02	50.07	20.11	50.02	19.98	20.08	20.30	20.32	20.32	20.02	10.00	10 84	1000	20 00	1000	20 01	20.02	10.04	00 00	20.00	MOMMON		[	95 PCT	-0.68	-1.54	-1.79	-2.18	-2.63	-2.84	15.6-	00.61	13.27	-3.25		-3.25	-3.22	-2.77	-2.45	-1.79	-1.24	-0.92	- 3.42	-1.08
IO	5 PCT	18.14	17.86	18.10	10.03	17.81	18.16	18.18	18.32	18.37	18.06	17.95	17.95	18.10	18.32	18.36	2000	10.24	18.42	1101	18 20	18.31	10.01	41.01		•	0	5 PCT	-3.30	-4.65	-4.48	-4.70	-5.05	-5.64	10.04	-5.84	-6.16	-6-30		-6.30	-5.93	-5.59	-5.18	-5.30	-4.74	-4.02	-3.95	-3.19
- C0-0R		0.57											-	· v	1 4	- 4	u	יו ר	1 3	r v	1 1	0 0	) u	7			D.R	SE	. 80	. 95	82	17	41.	62	500					0.93								
X)	E	10.61	o c	7 0	P 0	7 (	7 (	7 (	7 (	7 (	7	9	0	C	0	0	10	10.10	0	0	0	19-12	0				X)	MEAN	-1.99	-3.09	-3.14	13.44	-3.84	47.4-	10.4-	-4-66	-4-72	-4-78		4.7	4.5	4 1	3.8	3.5	5.9	4.7		7.7
SAMPLE	17E	- 1	- 1		- 1	- 1	- 1	- 1	- 1	- 1	-	1	7	7	_	1		1	7	- 1	-	7	. ~	-			SAMPLE	17	- 1	-	7	- 1	- 1	- 1	- 1	7	7	- 1		~ 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-
T IME		2 -		•		000	0 0	0 0	0	0	5			7	~	0 - 3	9	0	0.6	0.7	00	06.0	-				TIME	_	•	0	P 0.20	200	2 0	0 0	0 0	0	0.9	0		0.0	-	0	0	4	0.0	0 0		0.0

	MOVED	KOO	0.0	2.84	4.78	7.89	11.54	15.47	17.96	20.08	21.27	10.17	0.0	1.98	4.28	7.25	11.50	15.19	16.33	17.88	18.60	18.94	19.13		CHAOM	CUM	0.0	0.17	0.33	0.39	0.43	00.00	0.75	0.87	1.23	1.32	0-0	0.31	0.52	C.67	0.69	0.75	0.77	0.91	1.03	1.09	1.21
	ш			16.	+6.	.12	.65	. 43	64.	.12	67-7	•	0.0	1.98	2.30	2.97	4.25	3.68	1.15	1.54	0.73	0.34	61.0		DISTANCE	INCR	0.0	0.17	0.16	0.0	40.0	57.0	0.0	0.12	0.36	60.0	0.0	0.31	0.22	0.15	0.02	0.05	0.02	41.0	0.12	90.0	0.11
	(	95 PCT	15.26	16.34	18.55	21.34	22.81	55.99	55.99	22.63	22.33	70 • 77	25.62	22.80	55.49	25.35	21.35	18.95	17.84	15.88	14.82	47.41	14.20		(	95 PCT	4.63	4.64	4.66	4.66	4.70	7104	4-64	4.66	4.70	4.69	4.69	4.73	4.66	4.73	4.71	4.60	4.56	4.62	4.68	4.76	4.63
	DINATE-	5 PCT	12.38	12.17	12.03	12.85	15.86	19.34	20.99	21.25	21.52	11.17	21.41	50.02	20.39	18.30	15.03	73.52	13.16	13.36	13.59	13.71	13.61		DINATE	5 PCT	2.67	2.50	2.64	2.56	7.51	2 54	2.55	2.49	2.47	2.43	2.43	1.96	2.34	2.47	2.53	2.68	2.74	2.63	2.58	2.56	2.67
	- 00-08	SE	0.83	1.27	1.99	2.59	2.12	1.11	0.61	0.45	16.0		0.37	0.00	0.64	1.24	1.92	99.7	1.42	0.0	0.37	01.0	81.0		- CO-OR	SE	0.59	0.65	0.62	0.04	0.0	0.00	0.64	99.0	0.68	69.0	69.0	0.85	0.71	69.0	19.0	0.59	0.55	0.61	0.64	19.0	0.59
	7)	NE AN	13.87	14.25	15.29	17.09	19.34	21.17	21.99	56-17	22.01		22.01	88.17	44.17	20.33	18.19	67.01	10.00	74.02	13 20	13.00	13.90		7)	MEAN	3.65	3.57	3.55	3.01	3.50	4.63	3.50	3.58	3.59	3.56	3.56	3.34	3.50	3.60	3.62	3.54	3.55	3.53	3.53	3.50	3.65
(16)	1	95 PC1	-2.04	-2.53	-2.40	-3.09	11.4-	15.1-	-10.46	12.21-	-13.22		-13.22	7	1	1	7.	7	1	7	17	1	1	181	(	95 PCT	-5.88	-5.85	-5.84	10.00	10.01	15.89	-6.01	-6.56	-5.99	-6.03	-6.03	-5.65	-5.71	-5.89	-6.04	-5.84	-5.91	-5.95	-5.73	-5.65	-5.83
	DINATE-	12 70	-3.76	-4.39	-5.89	79.7-	-4.83	-11-66	-13.47	19.41-	-14-10		-14.10	64.01	-12.88	-11-35	94.81	74.01	12.61	10.61	-2.63	-2.70	01.7		DINATE	5 PCT	-8.92	-8.85	-8.67	11.01	-8-54	-8-80	-8.76	-8.40	-8.57	-8.46	-8.46	-9.12	-8.97	-8.71	-8.58	-8.72	-8-70	-8.77	-8.96	-8-93	-8.92
IP CENTER	Ö										0.27		17.0											HANTER	- CO-ORD	SE	0.93	16.0	0.86		0.75	0.89	0.84	0.56	0.78	0.74	0.74	1.06	0.99	0.86	0.11	0.88	0.85	0.86	66.0	200	0.93
- RT GRIF	١	- I - A -	-2.90	-3.46	-4.14	-5.38	00.0	70.6-	-11.97	13.94	-13.66		-13.00	000077	71.01	000	77.27	12.2	10.00	-2-07	-1.93	-1-82		- RT TROCHANTER	١)	MEAN	0401-	1.34	2 33	7 30	-7.31	-7.35	-7.39	-7.48	-7.28	-7.24	-7.24	-7.38	-7.34	-7.30	-7.31	-7.28	-7.30	-7.37	-7.34	67-1-	04.7-
LANDMARK	[	19.66	18.88	18.96	18.03	16.29	00.00	9.08	7.50	10.84	11.52		76.11	20.01	17.11	17 67	10.30	10.20	19.05	19.27	19.53	19.66		LANDMARK	-	6							4.73				46.4	5.16	5.12	5.13	5.21	2.01	4.71	4.60	16.4	5.01	20.6
	DINATE	17.23	14.93	13.57	11.52	8.82	11.0	11.00	7 00	10.04	9.19		7.75	7 7 7	700	0 22	12 54	14.06	16.33	16.94	17.09	17.23			JINA TE-	5 PCT	1.97	1001	11.7	400	2.11	2.00	1.83	1.91	5.25	1.90	1.90	1.35	1.67	1.87	1.78	1.90	2.19	2.06	1.98	1.92	16.7
	- CO-ORD	0.74	1.19	1.64	1.98	2.28	0.72	7.0	000	0.00	0.53		0.00	75	0.00	2 61	2.08	1.63	83	0.7	0.74	0-74			- CU-UK	SE	0.93	1.00	200	100	0.81	0.85	0.88	0.79	0.16	0.93	0.93	1.16	1.05	66.0	1.05	0.95	0.77	0.17	68.0	20.0	04.0
	X - 1 4	8 45	6.93		81.4	20.2	7.80	000	30.	44	99.	,	5-00	00.0		,	, u	1 4	, ,-	- 4	18.31	, and	,		X	MEAN	6.50	00.0	20.40	2 40	3.44	3.39	3.28	3.20	3.50	3.45	3.42	3.25	3.40	3.50	3.50	3.46	3.45	3.33	3.45	7.00	00.0
	SAMPLE	7	7	7	- 1		- 1-	- 1	- 1	- 1	_	,	- 1	7	- 1		- 1	. ~	7	- 1	7	7	•		SAMPLE	-	- 1	- 1	- 1	- 1	_	7	7	7	- 1	-	7	7	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	
	TIME	0.0	01.0	F 0.20	0	<b>o</b> c	00	0	0	0	1.00	0	0.0	07.0	0	0	1 0.50	0	0	0	0	1.00			HI -	- 0	0	0	0 0	0 0	0	0	R 0.70	0	06.0	1.00	0	-	0.0	0.3	4.0	0.0	9.0	R 0.70	200		

( 54)
CENTER
ELBOW
- RT
LANDMARK

250	1.86	2.36	3.4i	5.06	64.9	7.17	8.23	9.34	9.67	9.73	,	0.0	1.09	2.28	3.23	4.38	5.62	6.50	7.15	7.58	7.82	8.01		MOVED	CUM	0.0	1.81	2.64	4.10	6.58	9.52	12.83	14.33	15.83	16.05	06.0	0.0	5.06	4.48	6.45	9.54	12.23	13.16	14.54	14.86	15.23	15.47
INCR	1.86	05.0	1.04	1.65	1.43	0.68	1.06	1.11	0.33	0.07		0.0	1.09	1.18	0.95	1.16	1.24	0.88	9.65	0.43	0.24	61.0		DISTANCE		0.0	1.81	0.83	1.47	2.47	5.95	3.28	1.53	64.1	0000		0.0	2.06	2.42	1.98	3.08	5.69	0.93	1.08	0.62	0.34	0-77
95 PCT 13.53	14.01	13.95	m	12.87	N	~	13.14	13.66	14.03	14.09		14.09	13.74	12.89	12.33	12.36	12.63	12.92	13.07	13.14	13.31	13.53		(	95 PCT	13.73	15.01	15.58	16.68	18.31	19.41	20.74	20.25	20.39	20.02	000	20.65	20.08	19.50	10.61	18.25	16.82	16.51	14.77	14.18	13.81	14-14
5 PCT 1 10.21	9.20	8.73	8.27	7.85	7.84	8.54	9.77	10.88	11.06	11.07		10-11	10.05	04.6	9.41	6.55	61.6	96.6	10.16	10.34	10.33	10.21		DINATE		12.62	11.69	11.58	11.77	15.50	14.29	16.28	16.71	86.81	00.00		19.00	18.46	49.27	16.27	14.00	12.11	15.91	12.93	15.89	15.89	17.67
SE 1.01	1.47	1.59	1.60	1.53	1.46	1.28	1.03	0.85	0.00	0.92		76.0	1.12	1.06	0.89	0.86	0.87	06.0	0.89	0.85	16.0	1.01		- C0-08	SE	0.34	10.1	1.22	1.50	1.17	1.58	1.36	0.71	19.0	0.50		0.50	65.0	0.57	0.84	1.30	1.23	0.92	0.56	0.39	0.28	0. 34
MEAN 11.87	11.51	11.34	10.90	10.30	10.24	10.63	11.46	12.27	12.55	12.58		12.58	11.30	11-14	10.87	10.36	17.21	11.44	11.52	11.74	11.84	11.87		7)	MEAN	13.17	13.35	13.58	14.23	15.40	16.88	18.51	19.18	19.39	19.83		19.83	19.61	18.57	17.64	77.91	14.19	14.4	13.85	13.54	13.35	14-11
95 PCT -5.14	-5.89	-6.01	04.9-	-7.35	-8.36	-9.32	-10.00	-10.33	-10.83	-10.75		-10.75	60.01-	9	-8.08	-6.88	-5.79	-5.25	-5.16	-5.25	-5.40	-5.14	( 56)	(	95 PCT	-1.85	-3.07	-3.30	-3.09	-3.87	-5.06	-6.70	+1001-	-11.50	-11-93		-11.93	-9.28	S	4	-3.61	-1.83	-2.38	-2.33	-2.32	-2.12	1 83
SE 5 PCT	-8.64	10.6-	-9.76	-10.54	-11.38	-11.53	-12.05	-13.05	-12.68	-12.75		-12.75	+11.11-	-11.05	-10.57	-10.03	-9.50	-8.94	-8.10	-7.27	-6.81	-6.95	ER	CO-ORD INATE-	5 PCT	-3.54	-4.37	-5.05	-6.31	-7.54	-9.75	-12.78	11.21-	-13.73	-14.29		-14.29	-13.04	-12.72	-10.26	-7.79	-6.72	-5.44	-4.35	-3.66	13.49	14.54
SE 0.55	0.85	0.93	1.02	16.0	0.92	19.0	0.62	0.83	0.56	0.61		0.61	2	0.58	0.76	96.0	1.13	1.12	0.93	0.62	0.43	0.55	RT WRIST CENT	1	SE	0.51	0 - 40	0.53	0.98	1-12	1.43	1.85	79.0	0	0.72		0.72	1.15	2.35	1.65	1.28	1.49	0.93	0.61	14.0	74.0	
MEAN -6.05	-7.24	-7.54	-8.08	-8.95	-9.87	-10.42	-11.02	-11.69	-11.75	-11.75		-11.75	16.01-	60.01-	-9.32	-8.46	-1.65	-7.10	-6.63	-6.26	-6.10	-6.05	- RT WRI	λ)	MEAN	-2.70	-3.72	-4.17	-4.70	-5.71	14.1-	41.6-	-11-10	14.71-	-13-11		-13.11	-11.16	-8.87	-7.55	-5.70	-4.21	-3.91	-3.34	-2.99	-2.80	-2 10
95 PCT 7.58	6.24	6.39	5.80	4.43	3.99	5.99	2.91	2.92	2.89	3.18		3.18	3.20	4.30	2.10	6.02	6.92	7.14	7.11	7.20	7.47	7.58	ANDMARK	(	95 PCT	16.56	15.36	15.39	14.66	12.60	10.46	9.31	8.17	0.00	0 00		8.83	6.83	96.5	12.24	14.58	15.87	15.97	15.99	16.10	10.30	14.35
5 PCT 4.81	3.35	2.57	1.63	0.39	-1.34	-0.31	0.38	1.09	1.45	1.27		17.1	76.0	0.64	0.81	1.41	2.31	3.38	4-24	4.51	4.56	4.81	-	DINATE	5 PCT	13.88	12.12	10.79	60.6	7.30	5.64	3.54	20.01	7.00	7.25		7.25	09.9	6.22	6.22	1.11	10.19	11.63	13.05	13.75	16.61	1 A HH
0 0 0	8	1.17	2	2	9	0	-	5	4	5		0.08										0.85		١	S	œ	0	3	F.	0	41	~	7	Ď.	0.48		4	9.	-	8	0	-		6	-		-
MEAN 6.19	4.79	4.48	3.71	2.44	1.33	1.34	1.65	2.00	2.17	2.23		2.63	2.00	74.7	56.7	3.72	4.61	5.26	5.68	5.85	6.02	61.9		X)		15.22	13.74	13.09	11.88	9.95	8.05	6.43	60.0	77.7	8 - 04		8.04	7.72	8.09	2	-	<b>m</b>	13.83	4	4	n	v
S12E,N	7	7	1	1	1	-	7	1	9	9	,	0 .	01	-	1	1	7	7	1	7	7	7		SAMPLE	SIZE, N	7	7	7	7	-	-	-	- 1	- 1	1		7	7	_	1	7	1	1	-	-	-	,
-0	-	0	0.3	0.4	0.5	0.0	1.	0.8	6.	3		0.0	4	0.5		0.4	0.5	0.6	0	0.8	6.	5		TIME	-	0	-	0.5	.3	4	0	9.0	0	000	1000		0	7	0.5	0.3	0.4	. 5	0	0	9.0		7

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTICN NUMBER - 12160 BACK ANGLE - 30

	0	DACK ANGLE - 30	0			
SUB-MOVERENT	HEAN	TIME DATA STD DEV	Α	RANGE	10E	
RGHT FWD	0.61	0.12	0.40 TD	10	0.80 SEC.	SEC
KGHT REV	69.0	0.16	0.50 TT 02.0	L	00.00	C H C

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3
3
63
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2
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X
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	MOVED	50	0.59	0.89	16.0	1.05	1.13	77.7	10.1	46.1	04.7	1.58	0.0	0.38	0.53	0.58	0.63	0.10	0.78	0.95	1.16	1.21	1.35		MOVED	CUM	0.0	0.43	1.11	1.17	1.37	1.58	1.78	2 01	2.32	2 45	7.5	0.0	500	1	000	0.80	66.0	76.0	CO. 1	01.1	00.1	1.00
	DISTANCE	N C C	0.59	0.30	0.08	0.08	60.0	60.0	71.0	0.00	0 0	0.13	0.0	0.38	0.16	0.04	0.05	0.07	0.08	0.16	0-21	0.05	0.14		DISTANCE	INCR	0-0	0.43	0.68	90.0	0.19	0.21	0.50	0.10		0.01	61.0	0.0		000	77.0	41.0	0.13	0.01	11.0	1.0	75.00	41.0
		29 PC	29.58	59-67	29.58	29.58	29.63	29.66	21.67	61.67	40.67	76.67	26.62	29.60	29.52	29.59	29.59	29.50	29.48	29.51	29.39	29.42	29.43				23.21	23.32	23.56	23.53	23.61	23.80	23.65	15.57	22 60	22 22	63.63	23.73	23.80	71.67	23.40	73.44	23.44	23 - 32.	23.40	40.67	23.30	17.67
		24.75	25.31	25.65	52.69	25.75	25.71	25.57	44.07	25.30	67.67	61.67	25.19	24.88	24.72	24.73	24.76	24.88	24.91	24.78	24.62	24.58	24.75		OUTNATE	S PCT	19.72	19.75	18.65	18.75	18.89	18.86	18.76	10.81	10000	10.50	14.01	18.41	18.23	14.81	79.87	18.70	18.82	18.92	10.01	10.01	72.67	71.67
	- C0-08	3E	1.30	1.21	1.19	1.17	1.20	1.25	10.7	1.35	1. 39	1.44	1.44	1.44	1.46	1.48	1.47	1.41	1.39	1.44	1.45	1.48	1.43		- C D - OB	) u	100	1.09	1.50	1.46	1.44	1.51	1.49	1001	1.04	1001	70.1	1.62	7.1	7.00	1.4.1	1.45	1.41	1.34	7.47	1.00	1.00	1.00
	7)	NEAN 27 00	27.45	27.65	27.64	27.66	27.57	27.62	50.17	16.17	05-17	51.33	27.55	27.24	27.12	27.16	27.17	27.19	27.20	27.15	27.01	27.00	27.09		,	MEAN	21 46	21.54	21.11	21-14	21.25	21.33	21.21	21.09	80.17	50.17	10.17	21.07	21.04	50.17	21.04	21.07	21.13	21.12	21.14	51.12	21.55	04.17
1		95 PCI	0.03	0.38	44.0	0.54	69.0	0.53	0.39	0.37	0.45	0.51	0.51	0.16	0.12	0.26	0.45	90.0	-0.23	-0.29	-0.40	14.0-	-0.51	( 2)	-	OS DET	2 35	2.15	2.05	2.18	2.29	2.34	2.39	2.45	6.50	76.7	61.7	2.73	7.91	3.52	18.2	2.36	2.39	2.42	2.35	77.7	2.37	66.5
•	D INATE	5 PCT	-3.13	-3.12	-3.32	-3.47	-3.61	-3.38	-3.32	-3.37	-3.55	-3.86	-3.86	-3.70	-3.49	-3.58	-3.85	-3.51	-3.30	-3.40	-3.57	-3.57	-3.29		ON THATCH	2	3	-0-83	-1-18	-1.28	-1.09	62.0-	-0.57	94.0-	14.0	0.50	0.13	0.13	0.04	47.1-	66.0-	-0.14	-0.71	-0.75	-0.89	46.0-	-0-86	-0.0-
	- CO-ORD	SE	0.96	1.67	1.15	1.22	1:31	1.19	1.13	1.14	1.22	1.33	1.33	1.18	1.10	1.17	1.31	1.09	96.0	0.55	16.0	0.95	0.85	ALE			100	0.91	66-0	1.06	1.03	0.95	0.93	0.89	16.0	0.71	61 .0	0.19	0.88	1.45	1.18	96.0	0.55	16.0	66.0	85.0	96.0	16.0
- NASION	()	MEAN	-1.55	-1.37	-1.44	-1.47	-1.46	-1.43	-1.47	-1-50	-1.55	-1.68	-1.68	-1.17	-1.68	-1.66	-1.70	-1.73	-1.77	-1.84	-1.99	-2.00	-1.90	- CERVICALE	,	MANA		0.66	0.44	0.45	09-0	0.78	0.91	1.00	1.05	1.36	1.43	1.43	1.47	1.14	0.94	0.81	0.84	0.84	0.73	29.0	0.76	0.85
ANDMARK	(	95 PCT	2.40	2.46	2.39	2.32	2.42	2.26	2.13	2.08	2.11	2.14	2.14	2.33	2.38	2.34	2.20	2.29	2.37	2.58	2.67	2.66	2.68	ANDMARK		100 30	20.00	-5.31	-5-44	-5-47	-5.43	-5.33	-5.26	-5.33	-5.23	-5.19	-5.20	-5.20	-5.05	-5.03	-5.37	-5.48	-5.13	-5-14	-5.06	-4.95	-5.19	-5.19
,	DINATE	5 PCT	-2.71	-3.08	-3.06	-3.13	-3.06	-3.03	-3.12	-2.99	-2.95	-2.96	-2.96	-2.75	-2.70	-2.65	-2.45	-2.41	-2.35	-2.29	-2.24	-2.33	-2.39	-	9	2	200	18.65	-9-48	-9.56	-9.58	-9.51	+1.6-	-9.60	16.6-	-9.65	-9.45	-9.45	44.6-	-9.29	-9.12	-8.90	-9.02	-9.01	-9.00	-9.00	-8.28	-8.02
	- CO-ORD	SE	1.56	1.69	1.66	1.66	1.67	1001	1.60	1.54	1.54	1.55	1.55	1.55	1.55	1.52	1.42	1.43	1.44	1.49	1.50	1.52	1.54			1	200	200	1.23	1.25	1.27	1.27	1.36	1.30	1.32	1.35	1.29	1.29	1.34	1.30	1.14	1.04	1.19	1.18	1.20	1.23	56.0	0.86
	×	MEAN	1 9	31	34	14	32	33	64	45	45	41	-0.41	-0.21	-0.16	-0.16	-0.12	-0.06	0.01	0-14	0.21	0.16	0.14			Y	MEAN	10.01	-7.46	-7.52	-7.50	-7.42	-7.50	-7.46	-7.40	-7.42	-7.31	-7.31	-7.24	-7.16	-7.25	-7.19	-7.08	-7.08	-7.03	16.9-	-6.74	-6.61
	SAMPLE	12E,			7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			SAMPLE	-	0 4	0 1	7	7	7	7	7	7	9	٥	9	9	7	7	7	7	7	7	7	9	9
	TIME	-	2			4	.5	9		8	6.	•	0.0	7	.2	0.3	4-0	0.5	0.6	0.7	8	6.0	1.00			INE		2 -		0	R 0.40	0.5	0.0	0.1	0.8	6.	0	0	7	0.5	0.3	0.4	0.5	0.6	1.	8.0	0.00	0

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TOO .	0.0	0.75	1.15	1.25	1.41	1.61	1.84	1.88	1.98	5.09	0.0	0.14	0.28	0.43	0.58	0.78	1.11	1.20	1.29	1.38	1.52		MOVED	NO.	0.0	0.30	0.65	1.00	1.91	2.20	2.36	2.40	2 63	2.81	0.0	0.23	0.40	0.55	0.76	96.0	1.15	1.34	1.49	1.62	3000
INCR	0.0	20.0	0.39	0.11	0.16	0.20	0.23	0.03	0.10	0.11	0.0	0.14	0.15	0.15	0.15	0.20	0.33	0.08	60.0	60.0	0.14		DISTANCE	5										0.18	0.0	0.23	0.17	0.15	0.21	0.20	0.19	61.0	0.15	0.13	1400
95 PCT												21.92	21.58	21.93	21.87	21.97	21.97	22.00	21.98	21.98	21.96		(	95 PCT	20.86	21.12	21.30	21.49	51.66	21.87	21.92	26.17	21 04	22.10	22.10	21.73	21.54	21.32	21.22	21.15	21.06	21.05	21.00	20.88	)
IEAN SE 5 PCT	19.10	19.21	19.19	19.31	19.44	19.61	19.35	13.24	19.28	19.40	19.40	19.26	19.20	19.26	19.29	19.27	19.32	19.25	19.20	16.11	19.10		RUIVATE	5 PCT	17.43	17.54	17.67	17.69	17.61	17.61	17.67	17 05	7 00	17.80	17.80	17.85	17.77	17.74	17.72	17.71	17.51	17.47	17.44	17.42	1
S S S	18.0	0.85	0.86	0.83	0.81	0.77	0.78	0.85	0.83	0.11	0.77	0.81	0.85	0.81	0.79	0.85	0.81	0.84	0.85	0.88	0.87		- C0-08	SE	1.04	1.09	1.11	1.16	1.23	1.30	1.30	1.25	1 24	1.31	1.31	1.18	1.15	1.09	1.07	1.05	1.08	1.09	1.09	1.06	1000
MEAN	20.53	20.60	20.60	20.67	20.76	20.68	20.63	20.54	20.64	20.66	20.66	20.59	20.59	20.60	20.50	20.62	20.64	20.02	20.59	50.54	20.53		()	MEAN	19.15	19.33	19.49	65.61	19.64	19.74	61.61	19.84	10.01	19.95	19.95	19.73	19.55	19.53	19.47	19.43	19.29	19.56	19.22	19.15	
95 PCT	2.30	2.89	5.09	2.46	2.81	2.73	5.66	5.69	5.69	2.12	2.72	2.97	3.49	3.71	4.01	3 - 33	2.78	2.63	2.54	5.49	2.33	(+)	[	95 PCT	-6.65	-6.66	-5.85	-4-16	-6.24	-6.42	64.9-	10.40 C4.01	16.53	-6.45	-6.42	-6.27	-6.21	-6.32	64.9-	-6.54	-6.57	-6.49	-6.50	-6.67	
E 5 PCT	-0-89	-1.04	-0.80	-1.01	-1:11	-0.84	-0.75	-0.72	-0.64	-0.63	-0.63	19.0-	-1.09	-1.41	-1.60	-1.26	-1-14	-0.98	-1.06	-1.15	-0.89		D INATE-	5 PCT	-9.25	-9.13	-6.33	-10.24	60.6-	-9.18	-8.96	76.8-	-B 54	-8.64	-8.64	-8.98	-9.15	-9.15	86.8-	-8.94	-8-94	-9.03	61.6-	-9.23	1000
SE	1.37	1.20	0.88	1.06	1.20	1.09	1.04	1.04	1.02	1.02	1.02	1.11	1.40	1.56	1.11	1 - 40	1.19	1.10	1.09	11.11	0.97	ACROMION	- CO-0RD I	SE	0.79	0.75	1.06	1.85	0.81	0 84	0.78	0.13	24	0.67	0.67	0.83	06.0	0.86	0.76	0.73	0.72	0.17	0.82	0.78	
MEAN	000	0.93	0.65	0.73	0.85	76.0	96.0	0.98	1.03	1.04	1.04	1.15	1.20	1.15	1.21	1.03	0.82	0.82	0.74	0.00	0.10	- RT ACR	λ)	MEAN										-7.53	-7.53	-7.63	-7.68	-7.73	-7.73	-7.74	-7.75	-7.76	-7.84	-7.95	
95 PCT	-0-14	-0.26	-0.58	-0.75	-0.86	-1.04	-1.26	-1.40	-1.27	-0.84	-0-84	-1.09	16.0-	-0.21	0.50	-0.24	-0-51	-0.45	14.0-	14.0-	-0-14	ANDMARK	(	95 PCT	-4.03	-4.59	-4.32	-3.15	-5.39	-5.43	15.51	15 20	-5.40	-5.72	-5.72	-5.44	-5.31	-5.25	-5.00	-4-78	-4.79	64.4-	-4.28	-4.21	
5 PCT	-6.87	-7.02	-6.15	-5.98	-5.80	-5.93	-6.16	-5.98	-5.93	-6.14	-6.14	-5.78	-5.68	99.9-	-7.64	-6.72	-5.94	-5.87	-5.80	18.6-	-5.80		DINATE-	5 PCT	-7.42	-7.31	-7.42	-8-40	-7.58	10.8-	18.05	60.01	18.04	-8.17	-8.17	-8.17	-8-14	-8.06	-7.91	-7.72	1-1-47	-7.40	-7.37	-7.39	
SE	2.00	2.06	1.70	1.60	1.51	1.49	1.49	1.40	1.42	1.62	1.62	1.43	1.46	1.97	2.48	1.97	1.06	1.66	7. 62	1.05	1.12		- 00-06	SE	1.03	0.83	0.95	1.60	19.0	0.19	0.0	0 0	0. 78	0.75	0.75	0.83	0.86	0.86	0.89	06.0	0.82	0.89	0.94	0.97	
I	-3.	-3.	-3.	-3.	-3	-3.	-3	-3.	-3	-3.	-3.49	-3.43	-3.30	-3.44	-3.57	3	3	m	-3.13	7	16.2-		X)	EAN	-5.72	-5.95	-5.87	-5.78	64.9-	-6.72	19.0-	10.01	-6-76	46.9-	-6.94	-6.81	-6.72	-6.65	-6.45	-6.25	-6.13	-5.94	-5.82	-5.80	
S12E , N		7	2	7	7	1	1	7	1	1	7	1	7	7	7	7	-	7	- 1	- 1			A	SIZE, N	7	7	7	7	_	- 1	- 1	- 1	7	7	7	7	7	7	7	7	7	7	1	7	
- 0	0.10												0.20										TIME	_	0	7.	.2	.3	4		0 1	- 0	0	1.00	0.0	0.10	0.50	0.30	0.40	0.50	0.60	0.10	0.80	06.0	

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	MOVED		0	2.03	4.9	8.97	12.35	15.32	17.00	18.21	18.71	18.78	18.96		0.0	1.07	, ,	10.	0.13	7.1	12.93	15.18	16.46	17.37	17.99	18.53			MOVED	COM	0.0	0.24	0.52	0.75	1.16	1.20	1 30	1 40	1.50	1.64	1 74	7.10	0.0	0.04	0.15	0.0	0.40	240	75	000	000	1.22	1.45
	DISTANCE	, -	0.0	2.03	2.92	4.01	3.38	2.97	1.68	1.21	0.50	0-07	0.18		0.0	1.97	2 52		77.7	2.98	3.62	2.24	1.28	0.91	0.62	0.54			DISTANCE	INCR	0.0	0.24	0.28	0.23	0.41	0.12	0.10		0-10	0-05	0.10	71.0	0.0	0.04	0.10	0.14	0.11	200	61.0	000	0.12	0.25	0.24
		95 PCT	5.31	9.28	13.19	16.82	19.36	21.21	21.87	22.44	22.71	22.63	22.58		N		-	4 C	24.74	D v	•	-	62.6	7.17	6.08	5.31			(	95 PCT	4.82	4.76	4.77	4.80	4.80	4.76	4.75	4.79	4.88	46.4	4.00		66.4	4.90	4.89	4.86	4.81	4.75	4 84	4.07	4.83	4.79	4.82
			3.44	2.77	4.21	8.34	15.55	16.57	18.89	20.33	20.71	20.77	20.52		20.52	17.75	13.48	11 41	7 7	000	0000	4.35	2.31	2.89	3.37	3.44			N	5 PCI	2.65	2.71	2.74	2.67	2.67	2.71	2.65	2.61	2.56	2.51	2.43		2.45	2.54	2.63	2.57	2.53	2.65	2.57	2.51	2.58	2.62	2.65
	- CO-OR	SE	0.57	1.99	2.74	5.59	2.08	1.41	0.91	0.64	0.61	0.57	0.63		0.63	1.27	2.44	2.35	2.83	200	2000	70.7	5.13	1.31	0.83	0.57			- CO-OR	SE	99.0	0.63	0.62	0.65	0.65	0.63	0.64	0.66	0.71	0.74	0.77		0.17	0.72	0.69	0.10	69.0	0.64	0.69	0.73	69.0	99.0	99.0
	7)	MEAN	4.38	6.33	8.70	14.58	15.95	18.89	20.38	21.39	21.71	21.70	21.55		21.55	19.84	17.48	15.27	12.30	200	4 07		000	5.03	4.12	4.38			7)	MEAN	3.74	3.73	3.75	3.73	3.74	3.73	3.70	3.70	3.72	3.73	3.72		3.72	3.72	3.76	3.71	3.67	3.70	3.70	3.72	3.71	3.70	3.74
(91)		6	7	-	7	71-	71-	1	-1-	-13	-13	-13	-13.25		-13.25	-13.28	-12.81	-13.43	-13.01	-12.46	-12 37	-12 14	01.21-	17.21-	-12.39	-12.39	(18)			95 PCT	-5.23	-5.85	-6.00	-5.84	-5.93	-5.64	-5.67	-5.77	-5.75	-5.76	-5.73		-5.73	-5.72	-5.65	-5.72	-5.78	-5.67	-5.58	-5.78	-5.60	61.4-	-5.23
œ	ORD INATE-	5 PCT	-14.38	-16.05	17.81	110 06	17 47	10011	17.01-	-15.17	-14.89	-14.85	-14.76		-14.76	16	18	17	18	17	14	7	9 4	76.61-	-15.10	-14.38			TOINAIE	5 PCT	81.6-	-9.03	-9.25	-9.70	-9.12	-9.21	-8.99	-8.95	-8.88	-8.92	-9.12		-9.12	10.6-	-8.94	-8.91	-6.03	-9.15	-9.04	-8.73	-8.67	-9.30	-9.18
P CENTER	0-00 -	SE	0.61	1.19	2 10	7 . 10	1 36	000	0.00	0.48	0.45	0.47	0.46		0.40	0.88	1.65	1.39	1.64	1.64	1.37	1.28	1 12	71.0	70.0	0.61	ROCHANTER			. SE 5	1.50	0.78	66.0	1.18	15.0	1.09	10.1	16.0	9.0	16.0	1.03		1.03	10.1	1-00	0.97	66.0	1.06	1.06	0.00	75.0	1.37	1.20
- RT GRIP	(	MEAN	-13.38	11.41-	15.00	-15.86	-15.44	114 03	00.41	26.41-	-14.15	-14.09	-14.00		-14-00	-14.12	-15.52	-15.71	-15.71	-15.15	-14.62	-14.26	-14.00	-12 74	12 20	-13.38	- RT TRO	>		MEAN	7 7.3	0101	1.63	11.1-	-1.53	-7.43	-7.33	-7.36	-7.32	-1.34	-7.43	,	-1.43	1.30	-1.29	-1.31	04.7-	-7.41	-7.31	-7.26	-7-13	-1.05	-7.20
LANDMARK	1	0	13.10	,,	, ,	1	10			÷.	11.93	-	11.59		11.59	11.59	17.11	12.22	11.81	11.28	11.43	11.73	12.28	12.00	12.70	13.10	ANDMARK			100	7.07	16.4	79 - 4	2.00	2.08	5.32	2.41	5.27	5.55	5.12	5.56		5.56	01.0	4.08	61.0	5.31	5.03	4-40	4.45	4.74	66.4	5.18
	JRD INATE-	124 6	14.01	8.21	6.77	6.39	6.47	7.75	8 70	000	40.0	7.54	8.62	,	7006	17.0	28.9	6.97	7.81	8.93	9.31	9.78	10-14	10.34	100	14.01	_	RDINATE	100	200	200		1001	1.50	1.85	1.14	1.65	1.60	1.49	74.1	1.41	:	1.41	10.1	20.2	16.7	1.84	1.74	2.52	2.61	2.32	4.55	10.7
		30	76	21	74	82	76	77	70	70	12	600	00		•	•								0.78		•		0-0	200	0.06	00.0	000	1 1 2	07.7	66.00	1.09	4.1.	71.1	47.7	1.31	1.51		17.7	70.0	000	200	1.08	00.1	0.57	0.56	91.0	0.0	0.00
	X)	Ε.	10.82	0	0	9.38	9.35	9.83	, C	) (	2	00.01	•	10.61	000	2000	04.6	09.6	9.81	0	0	0	-	11.62		4		X)	EAN	3.50												0.7	3.40	3 45	0.00	00.0	10.0	3.38	3.46	3.53	3.73	3.1	3.37
	SAMPLE	NESTE	- 1	7	7	7	7	7	7		- 1	- 1	-	7		- 1	- 1	-	1	7	7	7	7	7	7			A	SIZEN	3166911	7		- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	-	-	- 1		- 1	- 1	- 1	- 1	- 1	-		- 1	
	TIME	- 0	0.10	0	0 0.30	0	0	0	0	0	0	000	1.00		•	•	•	5		•	o	o	0	0.00				TIME	-	0-0		0	02.0			000	0 0				2		0.10		0 0			0	0.0		50		•

MOVED CUM CUM 2.344 2.344 4.310 6.344 6.344 6.356

DISTANCE PINCR LINCR LIN

95 PCT 13.35 13.16 13.01 13.02 12.98 12.98 12.93 12.93

9.61 9.70 9.70 9.73 9.73 9.75 9.76 9.76

CHAIRON

00.00

0.00 0.00 0.00 0.00 0.00 0.10 0.10 0.00 1.49

13.07 13.14 13.14 13.09 13.00 13.00 13.00 13.00 13.00

9.74 9.74 9.78 9.78 9.76 9.76 9.67 9.69

ADVED CUM 0.0 0.31 0.52 0.94 1.15 1.39 1.39 1.69 1.69 1.69

DISTANCE INCR 0.0 0.31 0.22 0.22 0.22 0.17 0.17 0.16

95 PCT 18.59 18.59 18.92 18.93 19.11 19.42 19.70 19.75 19.85

0.00 0.34 0.52 0.75 0.90 1.09 1.35 1.50 1.71 1.71 1.87

0.00 0.18 0.18 0.15 0.15 0.21 0.21

19.91 19.59 19.53 19.23 19.23 19.23 19.87 19.85 18.85 18.68

16.97 16.81 16.81 16.33 16.33 16.34 16.12 16.12 16.12

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		MOVED	100	200	1.49	2.05	2.85	4.18	5.38	6.27	6.72	6.73	16.0	0		67.7	2000	06.6	76.4	2.66	5.93	6.30	6.59	4.09	7.28			0 3 7 0	200		2.31	4.03	7.78	0.55	2.26	3.83	2.00	5.51	70.0	0	0.0	. 52	19	117	.63	50.	. 8	3.86	.55	60.	.55
		TANCE	NC K	27.0	0.72	0.56	08.0	1.33	1.51	.88	9.40	90.0	91.	0	0	67	0 0	000	20.		17.	.37	0.28	10.	.18			3						7	-	-	-	15-0	1-	4						-	' -	1.03 13	-	-	-
		0																										DIST													0	1	7	2.	2.	2.	1	1.	0	0	0
		30	000	9 3	9.85	10.1	10.6	9-11	12.0	13.0	13.14	13.67	-	13.53	13.08	12.17	11.02	0.07	0 72	71.0	0	0	1	71.0	4.15				95 PC	5.95	9.63	13.42	16.33	19.11	18.60	19.38	18.61	20.22	20-61		20.61	20.26	19.08	16.74	14.62	12.66	10.44	8.75	7.18	44.9	2.95
	DINATE	S DCT	5.70	6.42	6.86	7.46	7.88	79.0	10 00	10.00	11 30	10.94		10.94	9.37	8.01	7.25	7.00	67.9	6.36	9	5.07	5.74	200				DINATE	5 PCT	3.70	4.13	5.29	7.95	10.70	14.59	16.72	10.30	18.76	18.31		18.31	15.82	12.80	10.17	7.35	4.53	3.24	3.05	3.43	3.75	3.70
	2	5			0.91									0.79	1.13	1.27	1.15	0.00	0.98	0.95	1.00	1.07	1.02	1.05				K										0.48			0.70	1.36	1.92	2.00	2.22	2.48	2.20	1.74	1.14	0.82	60.0
	1	MEAN	7.4.	7.89	8.35	8.80	10.25	11.23	11.94	12.27	12.31	12.23		12.23	11.23	10.09	9.13	8.43	8.10	7.92	7.82	7.72	7.43	7.42				. 7	MEAN	4.82	6.48	9.35	41.5	16-41	0.50	0000	0.50	19.55	9.46		19.46										
241	Ī	PCT	.24	.18	-9.72	10	73	10	53	43	45	43		11.43	11.23	10.56	-9.67	-8.81	-8.71	-8.48	-8.02	-8.13	-8.17	-8.24		261												-12.88 1			11.	83	69	17	16	20	38	50	200	20	<b>†</b>
8	INATE-		12.20	12.10	-12.43	12.71	12.85	13.17	13.37	13.27	13.24	13.27	!	13.61	13.00	12.63	12.11	15.99	15.84	15.69	12.62	12.44	12.47	.2.20		-															14.66 -12										
ELBOW CENTER	- CO-ORD	SE	21	68	0000	81	55	64	54	99	25	99	:	00	*	63	0		. 92	- 82	0		1.31 -1			CENTER		CO-OKO	SE.	500	000	000	1001	31	- 06	- 69 -	- 54 -	1.42 -	- 66.	30	0.55			'	'			'	•	'	
RT	. λ	MEAN	10.22	10.04	-11-19	11.39	11.79	12.12	12.33	12.35	12.34	12.35	3 2 5	2 11	7107	6001	77.1	0.00	11.0	65.0	0.32	0.28	-10.32	0.22		RT WRIST		- 1	MEAN	2 24	4 4 4	00.4	6.52	4.35	3.99	3.73	3.64	-13.57	3.41	17.61	-13.74										
ANDMARK -	-	5 PCT			1.94 -									1 -	4 9	2 4	0 0	10	- 0	0 0	22	2	1- 94-1	8		ANDMARK -	,	DO T	200	200	200	1 00	33	31	31	35	30	9.17 -1	7		9.25 -1										
LAN	1	0.																								LAND																									
	-ORDINATE-	۳ ر	-2-	-3	-3.	-1.	-1-	0	0	ċ,		-	1-(	0	-	-2	-2				7		11.2-	7.2			TANTOR	5 PC	7.3	0.9	4.4	3.6	3.6	3.8	4.8	5.7	6.3	0.04		6.5	5.63	4.6	4.7	5.2	5.5	6.1	9.9	6.9	7.16	7.34	
	)-03 - x	35	1.35	1.69	1.58	1.17	1.10	0.0	0.0	5 6		0.0	0.64	0.76	1-12	1 32	1 34	1.41	8	1 2 2	100	300	1.0	61.1			- 60-0	SE	0.62	0.87	1.52	1.76	1.74	1.66	1.35	1.10	0.89				1.10			•							
	1	A D C -	-0-63	-0.96	-0.65	-0.03	0.75	1 0 5	7 10	2 23	2.05		2.05	1.46	0.76	00.0	-0.72	-1.33	-1.25	-1.00	77	-0-32	-0.17				X)	EAN	8.36	7.50	6.92	69.9	6.48	69.9	7.10	7.55	48.	7.88		7.88	7.44	7.13	7.08	7.04	6.92	7.14	7.43	7.75	8.12	8.36	
	SAMPLE	771	0	9	1	- 1	- 1	- 1	- 1	- 1	7		7	7	7	7	7	7	1	7	7	. 4	9 40	)			SAMPLE	SIZE,N	1	2	7	7	7	7	- 1	- 1	- 1	. ~		7	7	1	7	7	7	7	7	7	-	1	
	TIME	0-0	7	0.7	0 0.30	0 0	0	0.7	0.8	0	0		0	٦.	0.2	0.3	0.4	0.5	9.0	-	0.8	0.9	1.00				TIME	_	0.0	0	0	0 0.30	0	0	9	0	0	1.00		0	0.10	0.2	· .	4.0	0.5	9.0	0.1	0.8	6	2	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MOTICN NUMBER - 21260 BACK ANGLE - 30

SUB-MOVEMENT	MEAN 0.61	MEAN STD DEV 0.40 1	1 0	ANGE 0.80 SECS.
LEFT REV	19.0	0.14	0.50 13	0.50 TJ 0.90 SECS.

	MOVED	YOU !	0.0	3.03	3.26	3.39	3.57	3.80	40.4	4.20	4.36	4.55	0.0	1.73	2.95	3.43	3.55	3.62	3.70	3.87	4.26	4.46	4.61		MOVED	100	0.0	0.21	0.39	0.64	96.0	1.32	1.40	1.56	7.10	2.37		0.0	0.13	67.0	0.0	0.01	11.0	0.90	1.16	1.35	1.4.1	1.1
	DISTANCE	INCR	0.0	1 1 1	0.23	0.14	0.17	0.24	0.23	0.10	0.16	0.19	0.0	1.79	-	4.	7.	0	0		.3	0.50	-		DISTANCE	INCR	0.0	0.21	0.18	0.25	0.33	0.36	80.0	0.16	17.0	0.35		0.0	0.13	0.10	77.0	0.14	0.12	0.13	0.26	0.00	0.12	0.65
	(	2	29.90	0	$\circ$	0	0	-	-	0	0	0	30.98	30.60	30.08	29.74	29.62	29.57	29.43	29.55	29.72	29.75	29.90		(	5 PCT										24.47		24.47	24.34	24.31	23.97	23.84	24.04	23.75	23.65	23.80	23.81	73.83
	10	5 PCT	25.18	26.22	26.26	26.38	26.42	26.46	26.44	26.38	26.34	26.31	ŝ	26.04	9	5	9	.9	. 9	9	. 9	5	5		ANIO	5 P	19.69				6	6		6		19.64		19.64	19.65	19.43	19.45	19.49	19.50	19.61	19.72	19.61	19.72	69.61
	- 30-0R	SE	1 23	1.42	1.40	1.33	1.37	1.40	1.42	1.39	1.39	1.42	1.42	1.39	1.26	1.14	1.08	1.04	0.98	1.02	1.13	1.16	1.26		- 60-03		1.26	1.11	1.14	1.22	1.31	1.40	1.45	1.47	1041	1.47		1.47	1.43	1.49	1.38	1.32	1.38	1.26	1.20	1.26	1.25	1.26
	7)	MUM	76.72	28.55	28.50	28.55	28.55	28.17	28.17	28.55	28.52	28.65	28.65	28.32	28.02	27.86	27.35	27.36	27.83	27.88	27.37	27.85	27.34		()	MARAN	21.76	21.53	21.57	21.58	21.53	21.75	21.81	21.35	21.37	22.05		22.35	66.17	21.87	21.11	21.56	21.17	21.58	21.58	21.13	21.70	21.10
1	1	6	2.44	1	1	1	1	1	1	1	1		-1.03	-0.23	1.39	1.74	1.84	1.82	1.68	1.84	2.26	2.37	2.44	( 2)	[]	95 PCT	10	0.49	1.37	9.00	54.0	69.0	0.85	0.82	0.0	0.84		0.84	17.0	69.0	0.33	0.17	0.13	0.37	0.47	0.37	0.31	0.45
	JINATE-	5 PCT	77.1-	-4.85	-5.21	-5.35	-5.45	-5.73	-6.13	-6.43	-6.53	-6.63	-6.63	-3.96	-3.32	-2.82	-2.79	-2.85	-2.59	-2.41	-2.12	-1.83	-1.62		DINATE	5 DCT	-2-05	-1.91	-2.48	-2.24	-2.35	-3.11	-3.32	-3.51	-3.73	-3.38		-3.38	-3.40	-3.49	-3.35	-3.33	-3.35	-3.41	-3.06	-2.63	-2.39	-2.05
	- CO-ORD	SE	1.24	1 43	1.54	1.55	1.52	1.57	1.68	1.80	1.76	1.71	1.71	1.15	1.43	1.39	1.41	1.42	1.30	1.30	1.33	1.28	1.24	ALE	- CO-ORD	, u	0.75	0.73	1.17	0.98	0.85	1.16	1.27	1.32	1.35	1.29											0.83	
- NASION	١)	MEAN	0.41	12.50	-2.68	-2.82	-2.95	-3.15	-3.37	-3.48	-3.64	-3.83	-3.83	-2.08	96.0-	-0.54	-0.48	-0.52	-0.45	-0.28	0.07	0.27	0.41	- CERVICAL	Y)	MEAN	-0-81	-0.71	-0.56	-0.63	-0.95	-1.21	-1.23	-1.35	-1.52	-1.43		-1.27	-1.35	-1.40	-1.49	-1.58	-1.61	-1.52	-1.30	-1-13	-1.04	18.0-
LANDMARK	(	95 PCT	1.11	1 25	1.22	1.32	1.42	1.24	1.05	1.18	1.38	1.44	1.44	1.54	1.71	1.96	2.13	1.98	2.23	2.25	1.77	1.63	1.77	LANDMARK	(	OF DCT	15.20	-5.81	-5.95	-6.23	-6.06	-5.76	-5.84	-5.62	-5.17	-5.86		-5.86	-5.99	-5.98	-5.55	- 5.09	-5.15	-4.92	-4.97	-5.22	-5.25	-5.26
-	DINATE	W.	-2.40	'			•	•	•	•	,	,	-3.55	-3.17	-3.13	-3.07	-3.04	-3.00	-3.26	-3.32	-2.56	-2.40	-2.40	_	TANIC	u c	10.44	-8.65	-8.38	-8.58	-8.78	-8.64	-8.46	-8.49	-8.68	11.8-		-8.99	-0.05	-9.19	-9.37	-9.64	-9.73	-9.93	-10.18	-9.87	19.6-	-9.44
	- C0-0R	SE	1.27	1 22	1.28	1.32	1.40	1.33	1.27	1.35	1.47	1.52	1.52	1.44	1.48	1.54	1.58	1.52	1.67	1.70	1.32	1.23	1.27		90-00		1.27	0.87	0.74	0.72	0.83	0.88	08.0	0.83	1.07	0.95			6.	6.	7.	.3	.3	.5	. 5	4	1.35	2.
	!	A	-0.32	0 1	- 00	8	8	6	0	0	C	0		-0.81								0			×	V	1 "	1 ~	-	1 4	4	2	-	3	σ.	-7-43		7	_	-	1	-7.37	-	-7.43	-	-	-7.46	-7.35
	AMPL	SIZE,N	~ 1	- 1		7	7	7	7	7	1	7	7	7	7	7	7	7	7	7	7	7	7		Q 14 V	C 1 7 E M	371		7	-	7	7	7	7	1	1		7	7	7	7	7	7	7	7	7	7	7
	TIME	_	0.0		02.0	0 0	0.5	0.0	0.7	0.8	6.	5	0.0	7	2.	0.3	0.4	5	0.6	0.7	0.8	0.9	1.00		TIME	-		2	0.2	0.3	4	0.5	0.0	0.7	0.8	0.90	•			0	0	o	0	o		0	0.00	

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- 5	1.9	00	1.0	1.4	1.9	2.9	2.9	3.0	3.3	2.9	3.2	3.2	7.7	. 9	2.5	2.7	2.6	2.6	2.3	2.0	1.9	-1.90		NAT	5 PC	.8	0	0	4.	.2	8			. 0	3.78	1	4.06	7		.5	.5	. 8	0	3	.5
- CO-ORU	•	0.40										4	0	1 -	6	0	0	0	0	5.	0	1.05	201	0-0	SE			. 8	7	-	7	- "		:-	1.06	C	1.01	0	6.	5.	6.	. 8	8	-	
FA	0.1	-0.22	0.2	0.2	4.0	0.7	9.0	1.0	1:1	1.0	0.9	6.0	7.0	9	0.9	1.0	6.0	0.8	9.0	4.0	0.3	-0.18	- LI ACRUM	١)	EA	0	7	.3	3	0	-	4 (	9 0	. 4	5.52	r.	5.72	8	6.	7.	7	.2	4.	9.	
	1.16		0.8	9.0	0.6	0.5	0.9	0.8	0.5	0.4	0.5	0.5	0.0	1 6	0.7	0.9	1:1	0.7	0.9	1.3	1.2	-1.16	ANDMAKK		٩	4.2	4.3	4.5	4.4	4.1	3.5	3.5	3.5	2.0	-2.40	2.4	-2.78	3.0	3.2	3.5	3.9	3.8	4.0	4.6	4.5
2 5	3.8	0	4.6	6.4	4.9	4.8	4.4	4.4	4.6	4.3	3.9	3.9	7 .		3.9	4.1	4.0	4.5	4.5	3.8	3.8	-3.82	,	DINAT	5 PC	7.4	7.4	7.5	7.3	6.8	4.9	5.8	0.0		-5.80	8	-6.28	6.8	7.2	7.5	7.7	8.2	8.3	7.6	7.3
SE OF	1 00	0.84	7		.3		0	0	.2	7	0	0	0	0	6	0	6	7	-		8	0.81			SE	6.	6.	6.	8	80	8		0 1	•	1.04	0	1.07	7	.2	.2	7	.3	.3	6.	α
FA	2.4	-2.61	2.7	2.8	2.7	2.7	2.6	2.6	2.5	2.4	2.2	2.2	2.0	2.0	2.3	2.5	2.6	2.6	2.7	2.5	2.5	-2.49		1	EAN	5.8	5.9	0.9	5.8	5.4	4.9	4.6	***	7 . 4	-4.10	1	-4.53	6.4	5.5	5.5	5.8	6.0	6.2	6.1	S. C.
SIZEON	7	7	1	7	7	7	7	7	7	7	7	7	7		7	7	7	7	7	7	7	7		AMPL	SIZE,N	1	7	7	7	1	1	- 1	- 1	- 1		7		1	7	7	7	7	7	7	1
TIME		7			4.	.5	9.	1.	8	6.	()		-	1		1 3	. 5	9		B	6	1.30		TIME	-		-:	.2	3	4.		91	•	. 0	1.00		0.10	2	3	4	.5	9.		00	C
																													-					- //					7.04					_	

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MOVED CUM CUM 0.12 0.12 0.36 0.95 0.95 1.13 1.72 1.72

DISTANCE 1NCR 0.0 0.15 0.09 0.24 0.38 0.21 0.21 0.21

22.25 22.25 22.25 22.27 22.27 22.34 22.43 22.71 22.95 23.00 22.96

CD-ORDINATE-SF PCT 0.84 19-50 0.84 19-50 0.83 19-54 0.85 19-67 0.85 19-63 1.02 19-63 1.00 19-71 1.00 19-71

HEAN 20.89 20.89 20.89 20.90 20.95 21.28 21.28 21.28 21.35 21.36

1.54 0.44 0.51 1.02 1.02 1.35 1.35 0.98 0.98

CYPINCH

SUPRASTERNALE

LANDMARK

SE 0.97 0.84 0.85 0.83 0.84 0.85 1.02 1.02 1.00

0.0 0.29 0.41 0.84 1.25 1.42 1.59 1.99

0.00 0.12 0.12 0.12 0.26 0.15 0.17 0.27

22.96 22.63 22.63 22.63 22.41 22.41 22.47 22.47 22.46

19.65 19.55 19.50 19.51 19.51 19.40 19.35 19.35

1.01 1.00 0.96 0.91 0.94 0.93 0.95 0.95

21.31 21.19 21.19 21.08 20.39 20.39 20.32 20.32 20.91 20.91

1.39 1.25 1.25 0.56 0.59 0.93 1.29 1.29

24.55 24.55 24.13 23.65 23.65 23.60 23.31 23.26 23.28 23.28

21.37 20.80 20.66 20.29 19.96 19.67 19.52 19.32 19.32

0.97 1.14 1.00 1.00 1.13 1.11 1.11 1.22 1.25

22.96 22.57 22.39 22.39 22.35 21.31 21.57 21.57 21.39 21.32 21.32

7.26 7.37 7.54 7.54 7.67 7.69 7.79 88.05 8.05

ZWFDWZ

DISTANCE INCR 0.0 0.3 0.31 0.24 0.74 0.75 0.53 0.53

22.31 22.31 22.31 22.32 22.35 22.67 23.06 23.92 24.22 24.37

RDINATE-19.07 19.04 19.64 19.64 19.66 19.65 20.31 20.55 20.81 21.03

MEAN MEAN 20.37 20.83 20.83 21.30 21.30 21.59 22.37 22.37 22.83 22.83

95 PCT 8.25 8.35 8.35 8.67 9.19 9.19 8.93 8.56 8.28 8.28 8.28 8.05 7.50

CAPEROT

X W F D X Z

	1	MEAN	0 1	000			2.3	2.3	3.1	3.3	3.2	3.2	3.2	3.2	3.0	2.5	1.5	0.1	8.3	4 . 4	4.4	12.97	,		MEAN	0 10	2	4	4		.5	0	. 5	.5	5	5	.5	3.50	0	5	5.	.0.	5	. 5
171	1	95 PCT	1.32	51.0	36	63	0.88	3.40	5.70	.74	0.01	69.62	9.65	.73	6.34	2.13	• 34	14.	00	9.85	0.00	11.32	~	1	20		- 00	9	.2	8	.1	7.	0	6.	6.			7.52						
R	-	5 PCT	9.86	ח מ	7	-	6	10.9	12.5	0	12.8	13.7	13.7	0	10.5	1.5	0.4	1.4	m (	7.	0 4	9.86	4 7 7	TAN D	5 PCT	1		9	.5	. 5	0	8	0	.2	3	3	.5	5.68	1.	.5	6	7	3	7
P CENTER	0-0	SE	4.0																			0.44	W	0	SE	0.64	9	8	00	1.	6.	0	6	00	8	8	.6	0.56	.5	1.	6.	8	1.	00
- LT GRIF	1	MEAN	0	* 4	2	1.0		7.1	9.1	0.3	11.4	1.6	11.6	4.	8.4	4.8	1.3	6.	-	0 -	100	10.59	p-m		MEAN A 70		0	6.	8	1.	.5	.5	.5	9.	9.	9.	9.	09.9	9.	9.	5	9.	9.	4
ANDMARK	1	PC	: 4	0 -		2	4.	3.	3.	3	3	3	3.0	3.5	4.5	2.0	4.0	200	1 .0	1 . 1	2	17.64	× 1	-	95 PCT	3	3	5	2	3	2	m	m	N.	-	.1	7.	4.20	. 3	.3	.2	7	3	1
٦	DINAT	5 PCT	0.0	10	0.6	1.7	1.5	6.0	0.0	1.	4	.3	3	4.	8	9.3	1.0	9 6	7 . 7	0 0	4.7	15.56	F < 2			1 m	.2	1.	1.	0	6.	6	0	7.		3	.3	2.07	. 8	8	6.	7	00	2
	- CO-OR	SE	0.00	- 00	0	7.	6.	00	0	-	-	-	7.	2.	-	-		1 2	. "	0 0	0	0.63		0 1	SE		9.	80	00	9.	1.		9	0 1		. 5	5	0.65		-	1.	9.	1.	0
	!	MEAN	0 4	6.4	3.9	3.6	3.0	2.2	1.7	1.5	1.3	1.2	1.2	1.4	1.1	7.7	3.5	5 0	200	מ מ	6.3	16.60			3-31	3	2.	7.	7.	.2		-	-	7	7.	.2	2.	3.13	7	7.	0	7	0	7
	SAMPLE	IZE,	n (r	0	7	7	7	2	2	S	4	4	4	4	4 1	n I	- 1	- 1	- 4	0 4	0.10	S	Z V	1 1 1 1 1	146,	7	7	7	7	7	- 1	- 1	- 1	- 1		7	7	7	7	7	1	7	7	1

MOVED CUM CUM CUM 7.809 1.2.13 1.4.63 1.4.63 2.1.16 2.3.22 2.4.22 2.5.58 2.5.58

DISTANCE O N C R O

113.72 116.27 116.27 122.86 223.94 233.54 233.54 233.56 233.66

INATE-5 PCT 12.12 14.79 115.69 117.46 19.15 20.16 22.16 22.77 22.88 22.88

0.0 1.31 3.29 6.90 10.75 14.47 18.24 21.31 23.55 25.24

0.00 11.31 11.99 3.60 3.60 3.77 2.23 1.69

23.68 24.03 24.03 24.57 22.65 20.44 17.89 116.02 13.72

222.85 23.13 222.10 220.78 19.47 117.67 116.24 115.00 113.92

0.00 0.00 0.00 0.59 0.59 0.64 0.53 MOVED CUM 0.0 0.17 0.39 0.55 0.65 0.65 0.65 0.65 0.95 1.03 1.03

DISTANCE INCR 0.00 0.01 0.11 0.11 0.11 0.08 0.08 0.05

SE 5 PCT 5 PCT 5 PCT 6 P

ZWFDXZ

CONFEROL

0.00 0.01 0.02 0.22 0.22 0.23 0.24 0.23

0.00

& W - D & Z

CHARACH

& W - D & Z

	MOVED	COM	0.0	0.36	19.0	0.73	000	1.19	1.25	1.36	1.49	0.0	0.11	0.19	0.56	69.0	0.88	1.06	1.26	1.51	1.59	1.71		MOVED	500	0.0	C.18	0.27	29.0	1.92	2.41	2.88	3.23	3.52	3.85	0.0	0.43	0.85	1.39	1.03	2.30	60.7	000	0 4	3.89
	DISTANCE	INCR	0.0	0.24	0.32	0.11	11.0	0.13	0.07	0.11	0.13	0.0	0.11	0.08		7	7	0.18	.2	.2	0	7		DISTANCE		0.0	0.18	0.08	0.35	0.00	0.49	2.47	0.35	0.30	0.30	0	0.40	4	٠.	4.	5 .				0.23
		2	13.65	13.40	<b>m</b> 1	13.59	9 4	חח	3	ന	m	13.58	13.60	13.63	13.59	13.56	13.52	13.56	13.77	13.67	13.65	13.74		(	-	21.19	20.48	20.16	20.38	21.13	21.61	22.10	22.42	45.27	10.77	22.67	22.45	91.77	50.22	66.17	66-17	00.17	21.21	21.22	21.19
	0	5 PCT	9.93	9.72	9.05	9.03	000	9.13	9.16	60.6	00.6	00.6	30.6	9°04	9.78	9.81	9.84	6.67	9.84	68 . 6	6.61	00 - 01				17.22	17.60	17.78	18.02	18.57	18.94	19.14	19.28	74.61	06 - 67	19.50	19.27	50°67	1 8 43	11 25	11.10	17 54	17.46	17.21	17.22
	- CO-OR	SE	1.13	1.12	1.38	1.39	100	1.36	1.35	1.37	1.40	1.40	1.39	1.40	1.16	1.14	1.12	1.19	1.20	1.15	1.12	1.14		- CO-OR	SE	1.21	0.88	0.73	27.0	0.78	0.82	0.90	96.0	0.00		0.97	16.0		1.10	77.7	1.29	1 14	1.14	1.22	1.21
	7)	MEAN	11.79	11.56	11.29	11.31	11.34	11.36	11.36	11.33	11.29	11.29	11.32	11.33	11.68	11.58	11.68	11.62	11.81	11.78	11.81	11.87		(7	MEAN	19.21	19.34	18.97	19.20	19.85	20.28	20.62	20.85	20.98	00.17	21.38	20.86	00.00	47.07	66.67	10.61	70.00	10.31	19.27	13.61
21)	(	95 PCT	6.70	7.04	7.09	6.99	7.00	6.93	68.9	6.98	7.08	7.08	6.95	6.83	6 . 88	6.55	6.31	6.45	6.55	06 . 9	6.77	6.65	231	()	95 PCT	9.24	9.11	60.6	9.02	8 65	8.35	8.09	8.01	1001	70.1	7.62	7.50	100	+000	71 · C.	00.00	24.0	20.00	9.12	9.24
J	JINATE	5 PCT	4.32	4.07	4.00	3.97	3.56	3.39	3.54	3.63	3.64	3.64	3.96	4.16	4.13	4.19	4.12	4.30	4.30	4.27	4.37	4.39	INTER	D INATE-	LC)	5.66	5.87	5.95	2.19	4.75	4.63	4.24	3.83	3.00	67.6	3.25	3.69		0	1.40		000	5.27	5.43	5.66
100	- CO-0RU	SE	0.72	0. 90	96.0	0.92	1.05	1.08	1.02	1.02	1.05	1.05	0.91	0.81	0.84	0.72	19.0	99.0	0.68	0 80	0.73	69.0	LDER CE	- CO-ORD	SE	1.09	0.99	96.0	2.0	1.19	1.14	1.17	1.27	4 . 33	66.4	1.33	1.16	1.08	1.03	1 27	1001	1.15	1.12	1.13	1.09
- LT KNEE	١	MEAN	5.51	5.56	5.54	7.48	5.28	5.16	5.21	5.30	5.36	5.36	5.46	5.50	5.51	5.37	.2	5.38	4		.5	.5	- LT SHUULDER CENTER	()	MEAN	7.45	7.49	7.52	14.1	6.70	6.48	6.16	5.92	70.07		5.43	5.59	20.00	01.0	07.0	10.0	- a - 4	7-11	7.27	7.45
ANDMARK		95 PCT	19.86	19.50	19.66	20.08	19.80	19.71	19.88	19.99	20.10	20.10	20.10	20.07	20.08	20.08	20.13	20.05	20.32	20.03	50.00	20.12	ANDMARK	(	95 PCT	-2.84	-2.94	-2.91	-2.13	-1.37	-1.64	-1.61	-1-16	0.30		-0.54	-1.01	-1.63	64.1-	2 20	-2.24	-2.67	-3.00	-2.97	-2.84
_	RDINATE	5 PCT	18.49	18.72	18.22	18.31	18.37	18.36	18.27	18.26	18.36	18.36	18.28	18.17	18.38	18.37	18.14	18.33	18.15	18.82	18.61	18.40	-	2								-3.91				-4.28	-4.39	01.4-	000	00.01	00.01	00.4-	-5.56	-5.26	-5.11
		SE	0.45	0.24	0.44	0.43	0.45	0.41	0.49	0.53	0.53	0.53	0.55	0.58	0.52	0.52	0.61	0.52	0.66	0.37	0.45	0.52		- 00-0	SE	69.0	0.67	0.66	0.02	0.92	0.70	0.10	0.91	66.0		1.14	1.03	70.1	000	1.00	00-1	100	0.78	0.70	69.0
		MEA	9.1	19.11	6.0	0 -	0	0.6		9.1	9.5	19.23	19.13	9	S.	19.22	19.14	0	ייס	19.42	0	9		X)	Z	-3.97	-4.03	-4-00	-3.15	-2.88	-2.79	-2.76	-2.65	-2.52	74.7	2	-2.70	i	• •	-5.51	70.4-	14.10	14.28		-3.97
	SAMPLE	IZE,	'n	9	- 1		7	7	7	1	7	7	7	7	9	9	9	9	5	<u>د</u> د	in i	2		SAMPLE	SIZE,N	7	7	7	- 1	1	7	7	- 1	- 1	- 1	_ 1		- 1	- 1	- 1	- 1	- 1-	- 1	7	1
	TIME	- 0	2 -	0.20	0.0	* n	0	0.7	0.8	6		0.0	0.10	0.20	0	0 * * 0	0	09.0	0	0	0.00	1.00		TIME	-	0	0.1	0.0	0 0	0.5	0.6	3 0.70	000			0	0.10	7.0	2	000	000	0 0		0	0

LOKEKKO

ZWFDZZ

TOXBAKO

MVMT NO. 21260/30

& W - D & Z

X W L D X Z

CABAKO

LOXXAKOL

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8.

MOTICN NUMBER - 22260 BACK ANGLE - 30

30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30 < 1 30	MEAN	STD DEV		Z	
LEFT FWD	69.0	0.13	0.50 TO	TO 0.9	0.90 SECS.
LEFT REV	0.66	0.11	0.50 TO		0.80 SECS.

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	MOVED	NO.	0.0	1.01	3.21	3.37	3.55	3.64	3.76	4.10	4.36	4.60	0	1.97	3.01	30.6	0 6	3 20	3 20	7.56	3.84	10.4	6.33			TUVED		2.53	000	1.08	1.21	1.39	1.69	2.10	2.29	2.57	2.83	0.0	0.48	0.78	0.85	66.0	1.12	1,36	1.51	1.80	1.98	2.26
	DISTANCE	INCR	0.	1001	0.47	0-16	0.18	0.09	0.12	0.34	0.25	0.24	0-0	1.97	1.04	0.0	40.0	11.0		0.17	0.28	0.25	0.24			THE	120	2.0	7 6 0	0.19	0-13	0.18	0.31	0.41	0.18	0.29	0.26	0.0	0.48	0.30	0.07	0.14	7	0.24	0.16	0.28	-	2
	(	95 PCT	29.50	30-01	30-28	30.40	30.48	30.48	30.41	30.51	30.66	30.93	30.93	29.73	29.44	29.46	29.42	29.38	29.36	29-43	29.59	29.62	29.50		•	100 00	23 72	23.28	23.35	23.39	23.42	23.66	23.81	23.79	23.75	23.92	24.20	24.20	24.12	24.31	24.23	24.06	23.99	23.98	23.99	23.96	23.83	23.72
	DINATE	5 PCT	24 30	26.54	26.42	26.49	26.49	26.58	26.67	26.55	26.38	25.99	25.99	25.73	25.29	25.30	25.27	25-14	25-12	25.08	24-92	24-83	24.83		14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	A DOT	18 57	19.50	19.84	19.79	19.79	19.78	19.77	19.70	19.80	18.61	19.54	19.54	18.95	18.41	18.42	18.46	18.38	18.37	18.41	18.41	18.50	18.57
;	- cu-uk	SE	7.00	1.06	1.18	1.19	1.22	1.19	1.14	1.21	1.30	1.51	1.51	1.22	1.26	1.27	1.27	1.29	1.29	1.33	1.42	1.46	1.42			2000	1.57	1.15	1.07	1.10	1.11	1.18	1.23	1.25	1.20	1.25	1.45	1.42	1.58	1.80	1.77	1.71	1.71	1.71	1.70	1.69	1.63	1.57
	7	DY 17	27.80	28.27	28.35	28.44	28.48	28.53	28.54	28.53	28.52	28.40	28.46	27.73	27.36	27.38	27.34	27.26	27.24	27.26	27.26	27.23	27.17		,	ZIVVIN	21.14	21.39	21.59	21.59	21.61	21.72	21.79	21.75	21.77	21.87	21.87	21.87	21.53	21.36	21.33	21.26	21.19	21.18	21.20	21.19	21.16	21.14
2	100 50	95 PCI	0.05	-0.31	-0.59	-0.70	69.0-	-0.39	-0.41	-0.68	-0.56	-0.53	-0.53	1.16	2.60	2.54	2.65	2.71	2.22	1.98	2.10	2.20	2.24	23		OS DCT	0.36	0.63	0.85	0.61	0.57	74.0	0.56	0.64	0.39	0.22	0.10	0.10	0.18	0.20	90.0	0.10	0.26	-0.14	-0.05	-0.10	0.10	0.36
	CU-UKUINAIE	17.6	40.8-	-3.82	-4.37	-4.52	-4.73	-5.15	-5.24	-5.54	-6.14	14.9-	-6.41	44.4-	-3.95	-3.95	-3.83	-3.77	-3.18	-2.61	-2.16	-1.81	-1.48	~	DINATE	4 10	1000	-1.60	-1.79	-1.90	-1.98	-2.14	-2.52	-3.06	-3.12	-3.45	-3.67	-3.67	-3.39	-3.12	-2.91	-2.17	-2.97	-2.85	-2.68	-2.11	-1.96	-1.90
0		1,13	1.22	1.07	1.15	1.16	1.23	1.45	1.47	1.48	1.70	1.79	1.79	1.71	2.00	1.98	1.97	1.98	1.64	1.40	1.30	1.22	1.13	1LE	00-00-	2 u	0.69	0.68	0.80	0.76	0.78	0.79	0.54	1.13	10.1	71.17	1.15	1.15	1.09	1.01	0.91	0.88	0.98	0.83	0.80	0.61	0.63	69.0
- NASION	MEAN	O.38	-1.05	-2.07	-2.48	-2.61	-2.71	-2.17	-2.82	-3.11	-3.35	-3.47	-3.47	-1.64	-0.68	-0.70	-0.59	-0.53	-0.48	-0.32	-0.03	0.19	0.38	- CERVICALE	À	MEAN	-0-77	-0.49	-0.47	-0.64	-0.70	-0.83	-0.98	-1.21	-1.31	79.1-	-1.79	-1.79	-1.61	-1.46	-1.43	-1.34	-1.36	-1.50	-1.36	-1.11	-0.93	-0.11
ANDMARK	OS DCT	1.75	2.32	2.45	2.09	2.07	2.32	2.12	1.88	1.84	1.71	1.38	1.38	1.29	1.51	1.44	1.33	1.52	1.40	1.43	1.50	1.66	1.75	ANDMARK	-	95 PCT	-5.55	-5.54	-5.35	-5.14	-5.19	-5.35	-4.97	-4.58	46.4-	14.90	-4.63	-4.63	-5.01	-5.30	-5.42	-5.74	-5.83	-6.01	-5.99	-6.20	-6.14	-5.55
J JANA	5 07 T	-2.09	-3.06	-3.73	-3.80	-3.83	-4.38	-4.27	-3.81	-4.14	-3.86	-3.13	-3.13	-2.82	-2.83	-2.73	-2.49	-2.59	-2.30	-2.30	-2.34	-2.28	-2.09	7	DINATE	5 PCT	-8.82	-9.58	-10.37	-10.45	-10.18	-10.08	-9.94	-9.65	14.6-	67.6-	11.6-	-9.17	-9.37	14.6-	-9.44	-9.30	-9.45	-8.85	-8.73	-8.76	-8.68	-8.82
0	3 0	1.17	1.64	1.89	1.80	1.80	2.04	1.95	1.73	1.83	1.70	1.38	1.38	1.25	1.32	1.27	1.16	1.25	1.13	1.14	1.17	1.20	1.17		- C0-08		000	. 23	. 53	.62	. 52	44	. 52	* 04	900	000	.38	1.38	. 3	.2	.2	0	-	8	0.83	1.	1.	1.00
,	MEAN	-0-17	-0-37	-0.64	-0.85	-0.88	-1.03	-1.07	-0.97	-1.15	-1.08	-0.87	-0.87	-0.76	99.0-	-0.65	-0.58	-0.53	-0.45	-0.44	-0.42	-0.31	-0.17		X)	AN	-7.19	-7.56	-7.86	-7.80	-7.68	-7.71	-7.46	-1.12	17.1-	60.7	06.90	-6.90	-7.19	-7.38	-7.43	-7.52	-7.63	-7.43	-7.36	-7.48	-7.41	-7.19
CANDIC	SIZEN	7	. 1	7	7	7	7	-	7	7	1	1	7	7	7	7	7	7	_	7	7	7	7		SAMPLE	SIZE.N	7	7	7	7	7	7	-	- 1	- 1	- 1	-	7	7	7	7	7	7	_ 1	7	-	1	7
THE	-	0.0	0.10	0	0 0.30	0	0	0	0	0	06.0	1.00	0.0	0.10	0	0	0	0	0	R 0.70	0	06.0	1.00		TIME	-	0.0	7.	0.2	0.3	0.4	M 0.50	9.0	000			•	0.0	0.10	0	0	0	0	0	R 0.70	0	0.00	1.00

	CON	0.0	64.0	0.77	1.15	1.3/	1001	2.12	2.42	2.68	3.03		0.0	0.57	0.87	1.05	1.20	1.36	1.53	1.72	2.00	2.19	2.42			MUVED	100	0.0	0 0	00.	1.73	2.37	2.89	3.60	4.23	4.36	4-14	0.0	1.09	1.74	2.11	2.79	3.65	4.13	4.27	4.58	
DISTANCE	4	0.0	4	20		,,		4 (	, "		0.36	,	?	5	.3		7	7	-		10	-	0.23		,	DISTANCE	INCK		0 0 0	000	0.54	0.64	0.52	0.71	0.63	0.13	0.38	0.0	0	0.65	.3	9.	. 8	4.	7.	33	١
	u	21.79		. 4 .	4 6	4 "	4 (	10	10	3 (1)	22.97		v	12	~	2	14	~	~	_	•		21.79			100000	95 PC	22 02	22.22	22.40	22.52	22.58	22.91	23.60	24.48	24.26	24.40	24.40	24.16	24.03	23.67	23.54	23.72	23.16	23.00	23.03	
	5 PCT	18.86	19.35	19.22	19.22	19.32	19.12	19.21	19.22	19.15	19.41		74 -67	19.21	8	8	18.78	8	8	8	8	8	18.86			2 1	17 6	18 62	18.96	19-11	19.47	20.02	20.31	20.27	23.25	20.69	50.78	20.78	19.49	18.71	18.59	18.42	18.02	17.91	17.85	17.77	,
- C0-08	SE	0.89	0.74	06.00	0 0	0.00	1.13	1.12	1-13	1.18	1.08		T-00	1.00	1.11	1.06	1.07	1.06	1.03	0.99	0.97	0.94	0.89			1 CO-03	3 5 1	100		1001	0.93	0.78	0.79	1.01	1.29	1.09	1.10	1.10	1.42	1.62	1.55	1.56	1.74	1.60	1.57	1.60	
()	MEAN	20.32	20.56	20.02	20.02	20.30	20.96	21.04	21.07	21.08	21.19	01	67.77	20.35	20.68	20.62	20.54	20.43	20.37	20.34	20.30	20.30	20.32		,	7-1-1-1	20 CC	20.20	20-61	20.75	20.99	21.30	21.51	21.93	22.37	14.77	66.22	22.59	21.83	21.37	21.13	20.38	20.87	20.54	20.42	20.40	
(	95 PCT	0.73	0.72	1.00	8	0.88	0.97	0.76	0.52	0.28	0.07	0		7.00	0.89	09.0	0.57	0.78	0,23	0.06	0.28	0.51	0.73	15)			n a				8.25							6.65	7.15	7.48	7.28	8.12	71.6	8.52	8.18	8.63	
2	5 PCT												000	-3.44	-3.30	-3.03	-2.77	-2.88	-2.45	-2.04	-1.72	-1.65	-1.68		DO THATCH		2 2 2	5.89	5.93	5.92	5.72	5.07	4.57	4.34	3.82	3.89	3.81	3.87	4.25	4.60	4.84	4.45	3.53	4.27	4.68	4.89	
10-00 -	SE	0.73	0.73	70	0.92	1.02	1.13	1.21	1.24	1.24	1.18	1 10		77.1	1.28	11.11	1.02	1.12	0.82	0.64	0.61	99.0	0.73	ACRCMION	-	7	1.16	0-89	0.83	0.78	0.77	0.95	11.11	0.98	1.03	0.40	0.00	0.85	0.88	0.88	0.74	1.13	1.90	1.30	1.67	1.13	
()	MEAN	14.0-	14.01	44.01	-0.58	-0.79	-0.89	-1.22	-1.51	-1.75	-1.87	1 87		C+-1-	07-1-	-1.21	-1.10	-1.05	-1.11	-0.99	-0.72	-0.57	-0.47	- LT ACR	A)	MEA	7.05	7.35	7.30	7.20	66.9	6.63	6.38	5.95	7000	7.44	07.6	5.26	1.	6.04	90.9	.2	6.65	.3	4.	1.	
(	95 PCT	-0.39	100	11.00	-0-78	-0.61	-1.08	-1.72	-1.79	-1.65	-1.23	-1 23		60.01	91.0-	-0.33	-0.58	-0.76	-0.72	-0.44	-0.43	-0.44	-0.39	ANDMARK		u	-3-18	-3.68	-3.65	-3.33	-3.00	-2.49	-2.74	-2.63	01.2-	-1.45	60.1	-1.65	-2.87	-3.02	-3.25	-3.42	-3.29	-3.51	-3.71	-3.92	
RDINATE	5 PCT	-4.83	15.52	-4.71	-4.72	-5.13	-4.71	-3.90	-4.02	-3.97	-3.75	-3.75	100	00.4	01.	00.4-	14.4-	-4.51	-4.82	-5.41	-5.43	-5.19	-4.83	7	_	. r	, ,	- 1	- 1	- 1	-7.44	•	1	1	•			-5.33	-5.40	-5.85	-6-19	-7.29	-8-94	-8.27	-7.93	-7.80	
	SE	1.35	1.48	1.10	1.20	1.38	1.11	19.0	0.68	0.71	0.77	77	1 04	1 200	1.20	1.30	1.19	1.14	1.25	1.51	1.53	1.45	1.35		- CO-OR	SE	1.43	1.32	1.43	1.42	1.35	1.40	1.04	0.83	1 13	1.12	74.4	1.12	0.77	0.86	0.90	1.18	1.72	1.45	1.29	1.18	
-	MEAN	-2.61	13.26	10	-	8	8	8	6.	8	4	-2.49	-2 23	4 6	v c	v	7	N	2	2	-2.93	2	-2.61		X)	MEAN	.51	.85	00.	99.	-5.22	.78	45	200	000	000		-3.49	-4.13	44.4-	41	S	91	2	5	2	
AMP	SIZEON		- 1	7	7	7	7	1	7	1	7	7	7	- 1	- 1	- 1	- 1	-	-	7	7	1	1		A	SIZEON		9	9	9	9	9	۰ و	0 4	0 4	0 0	•	9	9	9	9	9	9	9	9	9	
200																																															

& W F D & Z

11HE 0.11HE 0.12HE 0.12

ZMFDKZ

LOXMAKO

COMPEROL

	MOVED		.59	6.57	• 53	29	.81	.92	*6*	.53	66.	0	.85	.26	.33	.20	.78	.33	.24	.62	.41	25.92		MOVED	711		040	80	.91	•0•	.20	1.28	•39	•53	.00	98.	0.0	•45	.64	.73	.78	.86	06.	• 65	.14	.17	.34
	ш																							ш	,																						
	DISTANC	0.0	2.	3.98	+ "	. 6	2.	3.	1.	0	0.4	0	1.	2.	3.	3.	3.	3.	2.	2.	1.	0.51		DISTANC	•	0	0	0	0	0	0	0.08	0	0		5	0.0	0	0	0	0	0	0	0	0	0	0
	(	13.14	16.30	19.91	22.90	23.81	24.25	24.10	23.90	23.96	24.10	24.10	23.60	23.92	24.07	22.97	21.51	19.67	17.66	15.54	14.80	13.14			OF DCT	4-23	4-27	4.28	4.13	4.22	4.32	4.24	4.20	4.31	4.32	4.31	4.31	4.33	4.35	4.25	4.18	4.21	4.22	4.20	4.38	4.41	4.23
	INATE	12.77	13.32	14.50	10.00	21.20	21.86	22.70	23.27	23.47	22.99	22.99	22.62	21.58	19.96	18.78	17.37	15.85	14.81	13.90	12.07	12.77		INATE	F DCT	2.65	2.76	2.80	2.87	2.87	2.96	5.99	2.96	2.94	66.7	48.7	2.84	2.81	2.75	2.78	2.79	2.79	2.77	2.71	2.59	2.58	5.65
	- CO-ORD	0.11	0.91	1.65	1.19	0.80	0.73	0.43	0.19	0.15	0.34	0.34	0.30	0.71	1.25	1.28	1.26	1.17	0.87	0.50	0.83	0.11		- CO-ORD	47	0.48	0.46	0.45	0.38	0.41	0.41	0.38	0.38	74.0	14.0	0.40	0.45	14.0	0.49	0.45	0.42	0.43	0.44	0.45	0.55	0.56	0.48
	7	12.96	14.81	17.20	20.95	22.50	23.05	23.40	23.59	23.72	23.54	23.54	23.11	22.75	22.02	20.87	19.44	17.76	16.23	14.72	13.43	12.96		7	MIAN	3.64	3.51	3.54	3.50	3.55	3.64	3.61	3.58	3.63	0.00	3.31	3.57	3.57	3.55	3.52	3.48	3.50	3.49	3.46	3.48	3.49	3. +4
17)	) (	. 96	.35	.73	57	. 82	.93	.41	.68	.10	.43	.43	8									11.96	191	) (	95 PCT	7-74	8.00	8.04	7.76	7.62	8.02	8.35	8.57	8 - 32	*0.6	06.1	7.96	7.86	7.74	7.63	7.80	7.87	7.63	7.81	8.8	7.92	1.14
~	CO-ORD INATE	8.61	6.81	3.28	-4-20	-8.18	.11.00	11.63	13.10	13.75	-13.23 -	13.23 -										8.61	_			5.56	5.58	5.66	5.75	5.69	5.27	5.05	5.03	20.0	000	90.0	5.08	2.17	5.31	5.54	5.33	5.33	5.61	5.37	5.54	5.63	96.5
CENTER	- CO-ORD	1.02	1.08	1.36	1.76	2.24	2.46 -	0.98	1.35 -	1.42 -	0.85	0.85	99.0										HANTER	- CO-ORD		0.66	0.74	0.73	0.61	0.59	0.84	1.01	1.08	200	100		0.88	0.82	0.74	0.64	0.15	0.17	0.62	74.0	0.15	0.0	00.00
- LT GRIP	Y	10.29	8.58	5.51	-1.32	-4.50	-6.97	10.02	-10.89	-11.43	-11.83	-11.83	-10.06	-7.67	-4.74	-1.13	2.09	5.10	7.48	9.20	10.19	10.29	- LT TROCHANTER	X	MEAN	6.65	6.19	6.85	6.75	6.65	49.9	6.70	6.80	0.00	0.04	76.0	6.52	6.52	6.53	6.59	6.57	09.9	6.62	6.59	11.9	11.9	60.9
LANDMARK -				17.30									13.23										- ANDMARK -		95 PCT	6.03	4.54	3.85	3.69	3.75	3.70	3.64	3.61	3.50	70.0	07.4	4.10	5.65	6.42	6.02	6.13	2.91	5.75	5.68	5. 12	5.85	6.03
2	JINATE	15.51	14.63	13.35	10.82	10.49	10.34	10.48	16.6	9.16	6.62	9.95	10.30	9.56	49.6	10.53	11.17	12.00	13.03	14.46	15.22	15.51	٦	JINATE	S PCT	1.68	2.43	2.33	2.53	2.64	2.44	2.41	2.54	10.7	2 2 2 2	1707	2.27	1.63	1.24	1.50	1.45	1.54	1.17	1.88	1.14	1.67	1.68
	- CO-ORD	0.74	0.92	1.20	1.54	1.24	1.30	96.0	10.1	96.0	0.92	0.92	0.89	1.31	1.56	1.51	1.52	1.53	1.29	0.85	0.83	0.74		- CO-08	SF	1,33	0.64	0.47	0.35	0.34	0.38	0.37	0.33	0.30	0 0	00.00	0.56	1.22	1.58	1.38	1.43	1.33	1.21	1.16	1.22	1.28	1.33
	X)	16.73	16.13	15.32	13.35	12.53	12.48	12.06	11.56	11.34	11.45	11.45	11.76	11.70	12.21	13.00	13.67	14.51	15.15	15.86	16.59	16.73		X)	MEAN	3 . 85	3.48	3.09	3.11	3.19	3.07	3.02	3.07	3.00	2000	9.19	3.19	3.64	3.83	3.76	3.79	3.72	3.76	3.78	3.13	3.76	3.85
	SAMPLE	7 7716	1			. 0	5	4	4	+	4	4	4	5	9	7	7	7	7	7	7	7		SAMPLE	SIZE .N	7	7	7	7	7	7	7	- 1		- 1	-	7	1	7	-	-	7	7	7	- 1		•
	TIME	0.0	0.10	F 0.20	0	0	0	0	0	06.0	1.00	0.0	0.10	0.20	0	0	0	0	R 0.70	0	06.0	1.00		TIME	-	0.0	0.10	0	0	0	0	A 0.60	0	0	000	1.00	0.0	0.10	0	0	0	0	0	R 0.70	0	06.0	1.00

				LANDMARK	LANDMARK - LT KNEE TOP	E TOP		(17)			
SAMPLE	X)	0-00 -	-ORDINATE-	(	λ)	- 00-0	RD INATE-		[]		DINATE
SIZEON	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT		N N I	1	COLORDINA IN
2	19.48	0.64	18.43	20.52	5.28	0.27	4.84	5.72	11.37	1.14	0 7.7
5	19.58	0.45	18.84	20.32	5.73	0.58	4.78		11.50	1.43	1 0
2	19.29	0.53	18.43	20.15	5.67	0.59	4.70		11.61	1.53	0
5	19.23	0.40	18.57	19.89	5.54	0.48	4.76		11.61	1.45	0 23
2	19.24	0.59	18.27	20.22	5.55	0.58	4.60		11.61	1 41	0 21
2	19.10	0. 10	17.96	20.25	5.62	0.60	4.63		11.64	1 30	7.0
2	19.18	0.58	18.22	20.14	5.58	0.70	4.43		11.62	1 9 0	7.00
2	19.36	0.38	18.74	19.99	5.50	0.71	4.33		11.54	1 20	0 43
2	19.25	0.50	18.43	20.07	5.52	0.10	4.37		11.53	1 24	30.45
2	19.30	0.43	18.60	20.00	5.41	0.64	4.36		11.51	1.36	70.00
2	19.40	64.0	18.60	20.20	5.27	0.52 4.42	4.45		11.56	1.25	9.50
80	19.40	0.49	18.60	20.20	5.27	0.62	4 43		:		,
2	19-41	0.54	18.53	20 20	200	200	74.4	11.0	11.50	1.25	9.50
· <	1000	-	10.00	47.07	07.0	0.38	4004	5 . 89	11.60	1.37	9.36
9	06.61	67.7	11.94	71.86	5.36	0.34	4.81	5.91	11.72	1.29	9.61
0	19.93	1.09	18.14	21.73	5.32	0.29	4.85	5.80	11.59	1.28	9.59
9	19.94	1.08	18.16	21.71	5.32	0.39	4.69	5.95	11.67	1.28	0.57
9	19.77	1.18	17.83	21.70	5.13	24.0	4.36	5.90	11.66	1 28	74.0
9	19.77	1.15	17.89	21.65	5.06	0.41	4.30	5.74	11 62	1 24	1000
9	19.79	1.08	18.02	21.56	5.18	0.58	4-23	6.12	11.50	1 10	00.6
9	19.79	1.08	18.01	21.56	5.32	0.43	4 61	100	100	4.4	7.00
5	19.43	0.45	18.69	20.17	5.28	0 8 - 0	1001		11.51	1.15	9.68
2	19.48	0.64	18.43	20.52	5-28	0.27	4 94	200	21. 27	77-7	54.6
								7	16.11	01.1	14.6
			7	- ANDMARK -		LT SHOULDER CENTER	NTER	(23)			
CAMBIE	>	0									
111111111111111111111111111111111111111	Y	בים-חי	- CU-UKUINAIE	(	١	- CO-OR	CO-ORD INATE-	(	7)	- C0-0R	CO-ORDINATE
SILEON	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MAM	SE	5 PCT
- 1	-3.11	0.80	-5.07	-2.46	7.57	1.45	5.19	6.6	18.63	1.20	16.67
- 1	-4-11	0.98	-5.72	-2.50	7.72	1.13	5.87	9.56	18.53	0. 70	17.38
- 1	-4.16	1.18	60.9-	-2.23	7.52	0.98	5.91	9.13	18.62	0.95	17.06
1	-3.67	1.26	-5.74	-1.61	7.20	0.97	5.61	0 70	70 01		

X W F D X Z

TOXXXXO

95 PCT 13.86 PCT 13.86 PCT 13.99 13.99 13.92 13.66 13.66 13.78 13.78 13.78 13.76 13.76 13.76 13.76 13.77

DISTANCE INCR 10.00 0.48 0.32 0.16 0.09 0.22 0.12 0.13 0.18

	0000	200		0	0.39	0.61	1.23	1.89	2.44	300	1000	3.60	3.92	4.22	77.	200		0.0	0.72	0 -	4 6 7	40.1	5.06	2.62	3.04	3 28		3.59	3.93	1 6 7
	DISTANCE	JAN D	200	0.0	0.39	0.22	0.62	0.67	7.5	04.0		0000	0.33	0.30		0 1 0		0.0	0.72	87-0		00.0	0.51	0.56	0.42	0.24		0.31	0.35	
		95 PCT	0 4	60.00	60°67	20.19	20.36	20.57	20.86	21.06	200	74077	21.73	21.91	22 06	2000		75.06	21.79	21.71	21 52	77. 77	44.17	21.41	21.14	21.00	00000	20.78	71.07	20 00
	DINATE-	5 PCT	14.47	17 30	11.000	1 1.06	17.32	17.60	18.19	18.74	10 04	100	19.12	19.13	18.97	-		16.81	18.17	17.53	17.30	000	70 - 17	16.63	16.73	16.90	16.77	11.07	10.07	16 67
	- CO-OR	SE	1.20	100		0.95	0.93	0.91	0.81	0.71	0.75		0.80	0.85	96.0			***	1.10	1.28	1.29	200	CC . T	1.46	1.35	1.25	1.28	1 24	47.7	1.20
	7)	MAM	18.63	18 5 5	000	79.87	18.84	19.39	19.52	19.90	20.18	9 00	64.02	20.52	20.52		20 63	70.07	19.98	19.62	19.41	10.23	67.67	19.32	19.34	18.95	18.88	1000	70.12	18.63
167	(	95 PCT	96.6	9.56	200	7.13	61.0	8.53	7.96	7.58	7.47	1 22	1 . 33	7.29	7.13		7 13	64.	7.08	7.21	7.60	8.22	77.0	3.00	8 . 18	8.61	9.14	0.62	7 . 02	40 0
	DINATE-	5 PCT	5.19	5.87	0	1600	10.0	2.46	5.69	5.68	5.18	4 0%	+00+	4.32	3.58		2	0 1	17.4	4.56	4.50	4-46		17.4	4.80	5.10	5.16	5-17		200
	- CO-08	SE	1.45	1.13	80		0.0	\$4.0	69.0	0.58	0.68	0.74		06 0	1.08		1.08		000	0.81	0.95	1,15	1 47	100	17.1	1.07	1.21	1,35		L . 42
	A	MEAN	7.57	7.72	7.52	100	000	0	6.83	6.63	6.30	80-4		2.81	5.36		5.36	0 7 4	0000	5.88	6.05	6.34	2 2 2	100	61.0	6.85	7.15	7.40	1	1001
	(	95 PCT	-2.46	-2.50	-2.23	-1 41	100	07.7	-0.82	-0.40	-0.37	-0.38		-0.33	-0.35		-0.35	70 01	00.	-1-11	-1.39	-1.85	-2.00	7	00.7	71 .7-	-2.65	-2.49	13 11	04.7
	DINATE	5 PCT	-5.07	-5.72	60-9-	-5.74	200	000	14.18	-4.35	-3.70	-3.79	000	08.6-	-3.41		-3.41	-3 41	100	-3.10	-3.98	-4.29	-4.0A	- 5 2 2	77.0	10.6-	-5.49	-5.27	10 91	
		SE	0.80	0.98	1.18	1.26	1 21	100	17-1	1.21	10.1	1.04	100	00.1	0.93		0.93	78 0		6.0	0.19	0.75	0.89		000	00.0	0.87	0.85	0	0
	X)	MEAN	-3.77	-4-11	-4.16	-3.67	-3.00		72.80	-2.38	-2.03	-2.09	-2 07	10.21	-1.88		-1.88	-2.23	27.6	04.7	-2.69	-3.07	-3.53	-3.80	10.0	77.4	10.4-	-3.88	-3.77	
	SAMPLE	SILEON	-	1	1	7	1		- 1	- 1	•	_	7	- 1	-		7	7		- 1	_	1	7	7		- 1	1	7	7	
	TIME	- 0	0.0	01.0	0.20	0.30	0.40	2	000	000	2	0.80	00.00		7.00		0.0	0.10	000	010	0.30	0.40	0.50	09-0	07.0		0.80	06.0	1.00	

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	DVED	NO C	0.0	81	18.	23	1.82	.13	.62	1.64	.26	59.	•	0.	10.	150	.37	.88	•25	.76	.74	4.28	19.	00.				OVED	¥00	0	• 20	.61	.81	61.	1/0	579	71	0.5	2.52		0	1.14	10.	04.	.03	.24	.21	49	19.	,52	.27
								-	_	-	7	1						•	-	-	_	~	-	-				2					•	٠.	٠.	40	10	2	2					,	٦.	-	-	-	~	~	7
	DISTAN	INCR	9 6	1.1	2.0	2.4	2.6	2.3	1.4	1.0	0.6	0.3		0.0	2.0	7.4.7	7.80	1.5	2.3	1.51	0.98	0.54	0.33	0.39				DISTANC	INCR	0.0	1.50	3.10	4.20	3.38	0.00	2.70	0.69	0.33	0.47		0.	1.14	10.4	0.40	3.55	3.61	2.98	24.2	1.98	06.0	0.76
	1	95 PCT	14.00	14.44	15.31	16.36	17.37	18.14	18.75	19.23	19.49	18.69	07 01	60.61	10.4	19.11	61017	10.13	77.01	15.94	15.60	15.26	76.97	14.85										20.92					22.38		A L	21.00	• -	<b>-4</b> (	<b>)</b> (	,	oo r	- 1	ο,	•	3
	_	10.45	10.73	10.97	11.81	12.94	14.20	15.42	15.98	16.23	16.30	16.12	14 13	16 22	15.04	13.00	23.62	11. 13	54.47	10.00	10.25	10.37	74.01	10.45				DINAIE	S PCT	17.60	12.31	15.40	17 13	10 11	20.17	21.49	21.68	21.78	21.31	21 21	21.00	20-03	18.30	10.01	15.50	12.24	14.10	77.61	12.50	12.15	11.60
	X0-03	1.34	1.02	1.06	1.07	1.04	96.0	0.83	0.85	0.91	0.97	1.09	1.00	04	200		1 . 1 0	17.7	100	T. 04	1.03	1.49	10.7	1.34			Č	5						00.0							2.6	0,00	1.06		1.27	17.7	1.32	010	00.0	0.00	*
	N W U M	12.65	12.41	12.70	13.56	14.55	15.78	16.78	17.36	17.73	17.90	17.90	17.90	17.36	14.44	15.10	14 44	13 62	13 24	13.01	12 03	12.02	13 6	60.21				7	12 0	13.75	15.30	17.34	10.01	20.59	21.35	21.89	22.04	22.32	21.85	21.85	21.59	21.00	20.13	18.04	17.57	14 24	15.12	17.16	12 64	12.40	10.71
( 25 )	05 PCT	13.32	12.43	11.25	10.14	8.58	6.95	5.12	3.51	2.13	1.40	99.0	0.66	3.69	7.53	11.53	0 15	11.20	12.20	12 00	12 24	1 3 30	12 23	76 • 6 7		27)		OF DCT	12 56	10.72	7-80	4-66	3.43	1.01	-0.87	-6.47	-6.61	-6.26	-6.23	-6.23	-6.18	-4.77	-0.86	2.66	5.67	2 4	10.74	11.95	12.40	12.56	00.31
ER	S PCT	10.67	10.42	9.38	7.48	5.19	2.34	0.15	-0-95	94.1-	16-1-	46.1-	-1.94	-0-98	-0-29	0.81	5.60	7.40	8.66	0 4	10.13	10.42	10 47	0		ER	DINATE	S DCT	200	8.89	6.62	2.49	-2-14	-5.93	-8.85	-8.71	-9.84	-10.85	-11.01	-11.01	-8.88	-6.76	-3.99	-0-81	2.05	4.30	5.46	8.52	0.0	9 30	10.0
ELBOW CENTER	) H	1 80	9	0.57	8	0	7 1	0	ňò	56	5	~	0.79	1.43	2.38	3.27	1.05	1.16	1.08	1.04	20.0	0.91	0.81			ST CENTE	90-00	A A	0.97	0.56	0.36	0.66	1.70	2.12 -	2.43	0.68	0.98	1.40	1.46	1.46	0.82	0.61	0.95	1.06	1.10	1.27	1.31	1.05	1-00	0.97	
- LT ELB	MEAN	11.99	11.42	10.32	8.81	9.88	4004	2003	1.20	40.0	-0.65	*0.01	-0.64	1.36	3.62	6.17	7.42	9.30	10.43	11.19	11.69	11.91	11.99			- LT WRI	/)	•						-2.46						-8.62	-7.53	-5.76	-2.43	0.93	3.86	6.47	8.60	10.24	10.76	10.97	
LANDMARK	95 PCT	4.95	4.81	5.30	6.23	7.67	4	0 0	10.7	160 2	1000	70.0	8.02	8.35	8.40	8.05	7.23	5.84	4.90	4-41	4.36	4.42	4.95			LANDMARK	(	95 PCT	14.83	15.02	14.57	13.99	13.74	12.75	12.62	11.91	11.18	11.36	61.21	12.19	11.95	12.24	13.00	13.28	13.50	14.00	13.97	14.10	14.33	14.83	
DINATE-	un	2.30	2.01	1.84	2.91	10.4	5.42	200	5.82	5.71	7. 2	2	5.70	5.34	5.07	4.73	4.27	3.29	2.60	2.04	1.73	2.08	2.30		-	_	DINATE	5 PCT	11.03	10.62	9.76	9.07	00.6	8.96	9.05	9.44	69.6	24.6	7.40	9.46	9.26	9.22	8.66	61.6	9.28	9.24	9.63	10.55	10.89	11.03	
1	SE	0.81		1.06									0.71	0.92	1.01	1.01	0.00	0.78	0.10	0.72	0.80	0. 71	0.81				- C0-0R	SE						1.15								0.92	•								
X)		3.63	3.41	3.57	4.01	00.00	62.75	96-99	6.86	6.79	48.4		6.86			•						3.25					X)	-	2.9	2.8	2.1	1.5	1.3	10.85	0.8	9.0	4.	200	•	10.82		10.73									
SAMPLE	17	7	- 1				- ~	7	7				7	1	7	_	7	7	7	7	7	7	7							9	9	9	7	9	9	4	* *	•	٠	4	4	4	S	7	7	7	7	9	9	9	
TIME	-	0.0	0	0.20	0	0	0	0	0	0	1.00		0.0		ċ	•	·	ċ	•		0						TIME	_	0.0	0	0	0	0	M 0.50	0	0	0	000		0	7.	0	0.3	0.4	0.5	0.6	.7	0.8	6.	0	

MOVEMENT: Left hand moves from Throttle controller at +18.0, +10.0, +12.4 to Stick controller at +20.0, 0.0, +15.0 and remains at Stick controller for right hand to complete a movement and then returns back to Throttle controller.

BACK ANGLE - 30

MOVED		25.0	0.62	0.75	11.0	0.82	06.0	1.00	1.10	1.21	1.32	0.0	1.18	1.30	1.43	1.55	1.64	1.71	1.77	1.84	1.88	1.92		MOVED	COM	0.0	0.22	0.45	0.53	0.57	0.64	0.70	0.80	0.00	0.98		0.0	0.40	0000	0.0	100	1000	000	0 0	0 0	0.87	
ANCE	N C	2.0	0.30	0.13	0.01	0.05	0.08	0.10	0.10	0.11	0.11	0.0	1.18	0.11	0.13	0.12	60.0	0.07	0.07	0.07	0.04	0.04		DISTANCE	-	0.0	0.22	0.22	0.08	40.0	10.0	90.0	60.0	×0.0	0.00		0.0	0 0	0	0	0	0.00	0	. 0		0.01	
	95 PCI	29-84	29.84	29.87	29.90	29.94	30.01	30.04	30.13	30.28	30.45	0	CD)	C	C	(C)	C	O.	O.	C C	On	29.89		[	5	3	3	3	3	6	3	m	<b>n</b> (	7	23.34	1	23.34	<b>2</b> 12	חר	חר	U L	חת	ח ת	ח ת	ח ר	23.48	
0	25 A4	, "	2	5	5	2	5	5.	5	9	9	26.04	25.69	25.64	25.61	25.60	25.63	25.60	25.55	25.49	25.47	25.44		DINATE	b) .	19.49	19.45	19.38	19.38	19.41	19.45	19.46	19.49	66.67	19.52		19.52	10 43	70 . 41	10 61	10.67	10 52	10 51	10.50	10.50	19.49	
Ö	3 E	1.26	1.20	1.22	1.25	1.26	1.26	1.25	1.26	1.30	1.35	1.35	1.27	1.29	1.29	1.28	1.26	1.28	1.30	1.32	1.34	1.36		- 00-08	SE	1.22	1.21	1.22	1.21	1.20	1.20	1.20	1.17	1 1 5	1.16		1.16	1 1 2 1	1 1 1 1	7.7	1.10	1 22	1 22	1 22	1 21	1.22	
7)	MEAN	27.78	27.87	27.87	27.86	27.88	27.94	27.99	28.06	28.15	28.25	28.25	27.78	27.76	27,72	27.70	27.70	27.71	27.59	27.56	27.67	27.67		7)	-	*		m	m	3	+	+ .	+ .	* .	21.42		21.43	n w	n u	n u	n u	n u	1 1	1 4	- 1	21.49	
	95 PCI	1 86	1.47	1.38	1.39	1.40	1.40	1.48	1.61	1.75	1.92	1.92	2.73	2.65	2.53	2.44	2.41	2.42	2.40	2.36	2.36	2.39	23	(	95 PCT	N	2.00	1.79	1.75	1.73	1.67	1.62	1.1	1001	1.98		1.98								•	2.47	
RD INATE	יי לי	-2.11	-2.13	-2.23	-2.23	-2.17	-2.08	-1.99	-1.96	-2.01	-2.10	-2.10	-1.18	-1.32	-1.46	-1.58	-1.73	-1.87	-1.98	-2.06	-2.13	-2.21	J	D INATE	5 PCT	-2.25	-2.01	-2.00	-2.03	-1.96	-1.89	-1.77	-1.74	-1.13	-1.77		-1.77	06.1-	CT-7-	77.7	21.7	17.7-	-2 23	25.22	70 0-	-2.25	
- CO-08	SE	1.21	1.10	1.10	1.10	1.09	1.06	1.06	1.09	1-14	1.22											1.40	1 E	- CO-0RD	SE	1.44	1.22	1.15	1.15	1.12	1.08	1.03	1.05	00.	1.14		1.14	1 44	1 45	4.4	74-1	1 45	1 67	1 47	1 45	1.4	
\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	NAN	-0-03	-0.33	-0.43	-0.42	-0.39	-0-34	-0-26	-0.18	-0-13	60.0-	-0.09	0.78	19.0	0.54	0.43	0.34	0.27	0.21	0-15	0-12	60.0	- CERVICAL	\)	MEAN	0.11	-0.00	-0-11	-0-14	-0-11	-0-11	-0.08	-0.02	000	1100		0.11	0.30	0.17	1.0	0.10	7.0	100	000		0.11	
7	95 PCI	2.20	2.04	1.95	1.90	1.91	1.97	2.04	2.03	1.96	1.91	1.91	2.46	2.49	2.49	2.49	2.54	2.56	2.53	2.51	2.49	2.49	ANDMARK	[	95 PCT	-4.91	-5.20	-5.22	-5.09	-5.05	-5.01	-5.03	-4.93	78.4-	-4-10		-4.72	-4.13	0 0	14.	61.41	14.00	14.07	10.4	00 71	-4.91	
ATEL	5 PCT	4 -	4	2	-	_	_	-	-	-	-1.96	-1.96										-1.53	_	RDINATE	9	-8.51	-8.60	-8.96	-9.23	-9.22	-9.12	-8.99	-8-95	76.8-	18.90		-8.91	m a	0 0	0 0	0 0	000	0 0	0 0	0 4	-8.51	
- 60-03	5E	1.18	1.20	1.21	1.18	1.16	1.18	1.22	1.22	1-19	1.18											1.23		0-0	SE										1.28											1.10	
X)	MEAN	0.23	0.06	-0.03	-0.03	0.01	0.03	40.0	0.03	00.0	-0.02	-0.02	0.63	0.63	0.62	0.59	0.57	0.56	0.54	0.53	0.50	0.48		X)		-6.71	-6.90	-7.09	-7.16	-7.13	-7.07	-7.01	-6.94	20.01	-6.82		-6.82	10.40		10.0-	ė,		*0.01	16.73		0 0	
SAMPLE	_	42	42	42	42	42	45	42	42	42	45	42	42	42	42	42	42	42	42	42	42	42		A	SIZEON		42	42	42	42	45	45	74	74	747		45	74	74	74	74	74	100	74	7.7	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
TIME		-	. 7	.3	4.	. 5	.6	1.	. 8	6.	1.00		7.	.2	.3	4.	.5	9.	7.	80	6			TIME	-	0		.2	6.3	0.4	0.5	9.0	0.7	9 0	1000		0.	-,	0.0	0.0	000		0 0		000	1.00	

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SAMPLE	X)	0-00 -	CO-ORDINATE-	[	١)	0-00 -	CO-ORD INATE	(	7)	- CO-08	CO-ORDINATE	[	DISTANCE
SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR
76	-2.23	1. 55	11.4-	0.32	40.0	1.43	-1.80	2.88	20.60	66.0	18.97	22.23	0.0
74	04.2-	1.25	14.40	10.35	0.37	4 . 32	08-1-	7.7	50.59	0.04	19.04	22.13	0.24
74	10.7-	1.10	16.4-	0.00	0.18	1.45	-2.20	2.55	20.57	0.92	19.06	22.08	0.28
74	41.7-	1.24	11.6-	-0- 17	0.05	1.66	-2.68	2.11	20.60	0.91	19.11	22.09	0.19
74	-2.68	1.20	-4.65	11.0-	0.13	1.60	-2.49	2.75	50.64	0.95	19.09	22-19	0.11
745	-2.56	1.20	-4.52	-0.59	0.25	1.42	-2.09	2.58	20.70	1.06	18.96	22.44	0.18
45	-2.40	1.18	-4.34	-0.46	0.27	1.25	-1.79	2.32	20.07	0.95	19.12	22.23	0.16
45	-2.26	1.28	-4.35	-0-17	0.32	1.19	-1.63	2.27	20.63	0.00	19.16	22.10	0.15
45	-2.20	1.31	-4.34	-0.06	0.37	1.18	-1.57	2.31	20.61	0.92	19.10	22.11	0.08
45	-2.14	1.34	-4.33	0.05	0.41	1.22	-1.59	2.40	20.63	0.92	19.12	22.14	0.08
45	-2.08	1.41	-4.39	0.23	0-44	1.29	-1.67	2.55	20.65	0.92	19.14	22.16	0.07
42	-2.08	1.41	-4.39	0.23	0.44	1.29	-1.67	2.55	20.65	0.92	19.14	22.16	0
42	-1.97	1.31	-4.12	0.18	69.0	1.30	-1.44	2.82	20-56	1.04	18.86	22.26	000
42	-2.00	1.35	-4.21	0.21	0-63	1.29	-1-48	2.75	20-56	1.04	18.82	22 30	
62	-2-09	1.45	-4-47	0.29	0.62	1.29	-1-40	27.7	20.50	100	10 02	22 20	0.0
42	-2.18	1.60	-4-81	0.45	0.65	1.33	-1.52	2 83	20.00	900	10 05	22 27	500
42	-2.16	200	10.4-		140	1 28	1 40	2 71	20.00	1001	10.00	22.22	60.0
42	-2.23	1.53	-4.73	0.00	44	1 40	0 0 0	7.00	20.00	1.00	00.00	25.32	90.0
42	-2.37	2 4	200	24.0	22	1 0 2	200	2000	20.00	1.00	10.90	25.30	80.0
4.2	17 6-	1000	15.46	64.0	21.0	1 08	13 33	3.77	10.07	T.04	16 - 91	25.22	91.0
42	-2.32	1.60	-4.95	0.31	24.0	1.55	-1.01	7. 6	00.00	1.03	76 - 97	22.23	50.0
42	-2 22	200	74 77	25.0	70.0	1 43	76.7	07.0	20.00	10.0	26.91	67-77	0.12
7.	67.7	000		76.0	10.0	64.4	00.1	00 • 7	00.07	6.0	16.81	52.23	0.13
				LANDMARK	- LT ACRCMION	MION		5.1					
AMPLE	X)	0-00 -	CO-ORDINATE-	(	λ)	0-00 -	CO-ORD INATE	(	7)	- CD-08	CO-ORDINATE		DISTANCE
SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SF	S PCT	95 PCT	I N I D
26	-5.90	1.01	-7.56	-4.24	7.49	0.88	6.04	8 93	20-89	1.45	18.51	23.28	200
26	-5.89	0.94	-7.43	-4.35	7.52	0.82	6.17	8.88	20.80	1,32	18-63	22.47	
26	-5.89	0.97	-7.48	-4.31	7.56	0. 90	6009	9.03	20.71	1.22	18-71	22.71	
26	-5.76	1.08	-7.54	-3.98	7.45	0.97	5.85	9.05	20.67	1.19	18-72	22-62	81.0
56	-5.63	1.37	-7.88	-3.38	7.37	1.30	5.24	9.50	20.58	1.16	18.68	22.49	0-18
25	-5.53	1.73	-8.37	-2.69	7.26	1.77	4.36	10.16	20.53	1.10	18.71	22.30	0-17
25	-5.15	1.33	-7.33	-2.98	7.43	1.25	5.38	74.6	20.52	1.06	18.78	22.25	0.42
56	-4-77	1.03	-6.46	-3.08	7.58	0.84	6.20	8.96	20.53	66.0	18.91	22.15	0.41
52	-4.53	1.00	-6.17	-2.89	7.64	0.74	6.42	8.86	20.45	0.88	19.00	21.90	0.26
52	-4.36	96 .0	-5.94	-2.18	1.64	0.12	6.45	8.83	20.47	0.87	19.04	21.89	0.17
67	-4.20	0. 96	-5.11	-2.63	1.64	0.13	6.45	8 . 84	20.48	0.86	10.61	21.89	0.16
25	-4.20	0.96	-5.17	-2.63	7.64	0.73	6.45	8.84	20.48	0.86	19.07	21.89	0-0
23	-5.44	0.96	-7.01	-3.87	7.92	0.89	6.47	9.37	20.50	1.48	18.07	22.94	1.27
23	-5.62	1.02	-7.29	-3.95	7.80	0.95	6.24	9.36	20.60	1.49	18-16	23.05	0.23
54	-5.66	1.04	-7.37	-3.95	7.70	0.89	6.24	9.17	20.72	1.53	18.21	23.23	0.16
24	-5.74	1.39	-7.52	-3.96	7.62	0.89	6.16	90.6	20.73	1.52	18.24	23.21	0.12
54	-5.82	1.15	-7.70	-3.94	7.57	0.95	6.01	9.13	20.79	1.53	18.29	23.29	0.11
54	-5.88	1.12	-7.72	-4.04	7.54	1.01	5.89	9.20	20.85	1.55	18.31	23.38	0.09
54	-5.95	1.10	-7.76	-4-14	7.52	0.55	2.97	9.08	20.87	1.55	18.32	23.41	0.07
25	-5.96	1.10	-7.77	-4-16	7.51	0.89	40.9	8.98	20.88	1.52	18.38	23.38	0.03
52	-5.92	1.05	-1.64	-4.20	7.50	0.89	6.03	8.96	20.89	1.50	18.43	23.35	0.05
97	-2.90	10.1	-7.56	-4.24	4.49	0.88	40.9	8.93	20.89	1.45	18.51	23.28	0.02

MOVED CUM 0.10 0.10 0.20 0.20 0.20 0.20 0.12 1.14 1.14 1.14 1.27 1.27 1.27 1.51 1.78 1.99 2.15 2.15 2.15

X W F D X Z

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MOVED	¥00	0.0	1.57	3.11	4.77	4.36	***	8.25	0.0	400	10.08		0.0	2.98	3.89	5.25	6.35	1.83	8.77	9.72	10.41	10.83	11.22			0.00			27.0	84.0	0.56	0.62	19.0	0.78	0.81	0.84	06.0	0.0	0.06	0-12	0.15	0.18	0.21	0.25	0.30	0.32	95.0	10.0
DISTANCE	INCR	0.0	1.57	1.53	1.67	1.59	0.0	17.7	10.0	0.1	0.28		0.0	2.98	16-0	1.36	1.11	1 - 4 1	0.04	0.95	69.0	24.0	0.39		0.10101	TANCE	Y C	200	0.21	0.05	0.08	0.05	90.0	0.11	0.04	0.03	90.0	0.0	90.0	0	0	0.03	0	0	0.05	0	0	9
	S PC	4.1	4	15.43	e ·	U	U	U	1 W	17.61	14.67		10-41	00.00	76.61	61.01	16.27	00.01	15.80	15.13	65.41	13 63	13.53			0 5 0 7	40 40	41.4	4-27	4.30	4.30	4.40	4.32	4.16	4.11	4.13	4.16	4.16	4.11	4.25	4.22	4.15	4.15	4.15	4.10	4.06	40-4	->-
DINA	5 PCT	12.35	13.05	13.55	13.83	13.70	12.20	12 64	12 22	13.40	13.42	13 63	13 41	13 60	13.00	13.92	10.00	69.67	13.68	13.26	12.13	12 35	15.35		DIMATE	2 0	200	2 8 2	2.80	2.82	2.83	2.79	2.84	2.88	2.87	2.86	2.87	2.87	2.92	2.85	2.84	2.86	2.85	2.82	2.86	2.90	2.92	
- C0-08	SE	0.36	0.41	0.57	000	0 80	400	0.70	0	24.0	0.38	0	0 0 0	0.0		000	0.00	0.00	0.00	0.57	0.00	0.00	0.30		- 60-09	0 4	0.35	0 0	0.45	0.45	0.45	0.49	0.45	0.39	0.38	0.39	0.39	0.39	0.36	0.42	0.42	0.39	0.39	0.40	0.38	0.35	0-34	
7)	MEAN	12.94	13.72	14.49	15.75	15.15	4	14.65	14.40	14-14	14.05	14.05	14.60	14 74	0 0 0 0 1	10000	87.67	17.64	14.14	14.50	13.01	12.50	46.27		//	<	1 3	· w	3.53	S	S	5	2	10	+ .	+ 1	0	.5	10	.5	.5	5	.5	4.	3.48	4.	4	
	S	11.13	0	9.86	0.93	2.99	5.38	3.01	2.87	2.38	2.17	2.17	5.26	07.4	7 75	010	0 0	0	0 0	) -	4 (	11.13	4	161	[]	95 PCT	7.93	7.88	8.03	8.05	7.92	7.86	7.81	7.72	01.1	21.1	0.	7.70	7.73	7.76	7.78	7.87	7.81	7.67	7.71	7.80	7 87	20 .
0	5 PCT	9.53	1.81	2000	0.00	1.88	0-36	1-41	1.33	1.27	1.00	1-00	1.92	2 20	2 4 5	7.47	1004	7	000	0.00	000	0.53	1.00	•	DINATE	u	5.50	5.61	5.55	5.61	5.68	5.66	5.76	5.77	7) • 6	71.0	2.01	5.67	5.75	5.68	5.68	5.59	5.61	5.75	5.80	5.76	5. 40	0000
- CO-OR	SE	0.49	0,0	1 76	2 14	1.25	1.53	0.76	0-47	0.34	0.35	0.35	1.02	1.28	1 32	1 23	1 15	40	0 0	000	0 4	04.0	•	CHANTER	- CO-OR		91.0	0.69	0.75	0.75	0.68	19.0	0.63	0.59	50.0	70.0	70 • 0	0.62	09.0	0.63	0.64	69.0	19.0	0.59	0.58	0.62	0.65	000
١)	MEAN	10.33	9.40	400	4-40	3.94	2.87	2.66	2.10	1.83	1.58	2	3.59	-	, 4	1 4		4 0	. 4	0	-	. "	•	- LT TROCHANTE	\\	MEAN	6.71	6.74	6.19	6.83	6.80	92.9	6.19	41.0	6 73	71.0	60.0	69.9	6.74	6.72	6.13	6.73	6.71	6.71	6.76	6.18	4 75	1
1	95 PCI	17.22	***	18.30	18.52	18.63	19.04	18.88	19.02	19.12	19.29	19.29	17.39	16.98	16.55	16.73	17.01	17.25	17.30	17.53	17.34	17.22		ANDMARK	(	95 PCT	4.52	4.83	5.24	5.25	5.08	5.11	5.29	**************************************	700	4 73	71.6	4.72	4.75	4.61	4.56	4.59	4.64	4.70	4.65	4-60	53	-
DINATE-	2	15.46	16.01	14.73	14.90	15.51	16.19	17.00	17.41	17.52	17.56	17.56	15.14	14.55	14.34	13.92	13.94	14.10	14.53	14.83	15.19	15.46		_	DINATE	5 PCT		1.93	1.91	1.87	1.89	1.83	7 00	2.00	2.17	2.16	9	2.16	5.09	2.13	2.14	2.10	2.01	1.88	1.92	1.97	1.92	1/00
- C0-0R	D O	20.00	000	1.12	1.10	0.95	0.87	0.57	64.0	64.0	0.53	0.53	0.69	0.74	0.68	0.86	0.94	0.96	0.85	0.82	0.65	0.54			0-0R	SE	0.83	0.88	1.02	1.03	0.97	1.00	200	0 0	08.0	78		0.78	0.81	0.76	0.74	0.76	0.80	0.86	0.83	0.80	0 80	
X)	E	D 4	D 4	16.56	9	-	-	-	œ	œ	œ	8.4	16.26	5.7	5.4	5.3	5.4	5.6	5.9	9	6.2	6.3			X)	MEAN	3.16	3.38	3.58	3.56	3.48	3.47	3.51	74.6	3 . 6 8	3.66		3.44	•	•	•							٠
SAMPLE	7	0	20	20	21	24	23	24	23	22	23	23	21	21	19	19	20	19	19	19	19	19			MPLE	7	21	21	21	21	21	21	17	21	20	20	2	20	17	21	17	77	77	21	17	12	17	
TIME			0	0 0 30	0	0	0	0	0				0.10		0	0		0	0	0	o				TIME	-	0		F 0.20	0.3	0.4	0.0	0 0	0	0.0	9	,	0.0	-	0.2	0.3	4.0	0.5	0.0	0.00	0.8	6.	9

 $\alpha m \vdash \supset \alpha x$ 

THE SAMPLE (	MUVED	NO.	0.0	0.18	0.41	0.45	0.63	0.68	0.84	66.0	1.14	1-17	1-20		0.0	0.17	0.23	0.32	04.0	000	20.0	00.0	09.0	0.64	0.74	0.79			1	0	23	64.0	89.0	0.91	1.15	1.42	1.71	1.95	2.03	2.11	0.0	1.30	1.44	1.57	1.70	1.81	1.92	1.98	2.03		-
THE SAMPLE (	ISTANC	INCR	0.0	0.18	0.23	0.04	0.17	0.05	0.16	0.15	0.14	0.0	0.03		0.0	0.17	0.07	0	0	-		2	0	0	7	0		CTANC	2 2 2		0.23	0.20	0.25	0.22	0.24	0.27	0.29	0.24	0.08	0.08	0.0	1.30	0.15	0.13	0.13	0.11	0.10	0.07	0.05		
THE SAPLE (————————————————————————————————————	(	95 PCT	13.21	13.33	13.26	13.23	13.38	13.39	13.45	13.24	13.21	13.20	13.20		2.	13.10	13.14	-	-	י ר	77.61	13.18	13.08	13.01	13.11	13.21			95 PCT	000	20.11	19.91	10.01	19.78	19.70	19.61	19.56	19.56	19.57	19.61	19.61	20.04	20.14	20.11	20.09	20.22	20.33	20.40	20.48		
THE SAMPLE (	DINA	5 P	10.13	10.16	10.02	10.06	10.19	10.24	10.25	10.20	10.13	10.18	10-23		10.23	10.03	10.01	9.91	0.85	000	000	76.6	10.00	10.05	10.14	10.13				16.48	16.78	16.88	16.81	16.87	16.97	17.08	17.07	17.03	17.03	17.02	17.02	16.39	16.40	16.47	16.48	16.45	16.51	16.53	16.51	1	
TIME SAMPLE (***	- C0-08	N C	0.94	0.97	66.0	0.97	16.0	96.0	0.98	0.93	76-0	0.92	0.91		0.91	0.93	96.0	0.98	1.00	000	700	66.0	0.94	0.90	0.91	0.94		90-01	) u	1.23	1.01	0.00	0.06	0.89	0.83	0.77	0.76	0.77	0.78	0.19	0.79	1.11	1.14	1.11	1.10	1.15	1.17	1.18	1.21	1	
TIME SAMPLE (	7)	MEAN	11.67	11.75	11.64	11.64	11.79	11.32	11.85	11.72	11.67	11.59	11.71		11.71	11.57	11.57	11.52	11.50	7 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11 55	11.00	11.54	11.53	11.62	11.57		()	V	1 4	9	9 0	0	8 . 3	8.3	8.3	8.3	8.2	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.3	4.8	8.4	8.5		,
THE SAMPLE (	(	PC	6.52	6.59	7.13	7.24	7.06	7.05	7.17	7.39	7.17	7.09	7.08		7.08	6.84	7.04	6.87	4.66	27.4	70.7	0 . 40	6.55	6.62	6.55	6.52	1 23)		20 8	200	08.0	9 52	9.46	9.57	9.50	9.41	9.33	9.23	9.17	61.6	9.19	9.66	9.71	9.70	9.71	9.71	9.74	9.75	9.79		
TIME SAMPLE (	7		•												3.76	3.84	3.76	3.83	3.02	3 0		3.33	3.98	4.00	4.01	4.03	ENTER	O INATE-	· u		7 6	5.76	5.73	5.53	5.36	5.44	5.56	5.66	5.64	5.54	5.54	5.82	5.70	5.63	5.53	5.55	5.64	5.70	5.71	1	
TIME SAMPLE (	- CO-OR	SE	0.76	0.74	0.95	1.03	15.0	0.95	1.08	1.24	1.04	1001	1001		10.1	0.92	1.00	0.93	48.0	***	1	0	0.79	0.80	0.77	0.76	ULDER CE			1 22	1.20	1.15	1.14	1.23	1.26	1.21	1.15	1.09	1.08	1.11	1.11	1.17	1.22	1.24	1.27	1.27	1.25	1.24	1.24		
TIME SAMPLE (X - CG-ORDINATE	X)	MEAN	5.27	5.38	5.57	5.56	5.47	5.49	5.41	5.36	5.46	5-44	5.42		5.42	5.34	5.40	5.35	5.20	7.00	17.0	7.5	5.27	5.31	5.28	5.27	7	- 1	MEAN	200	7.83	7.64	7.50	7.55	7.43	7.42	7.44	7.45	7.41	7.36	7.36	7.74	7.71	7.66	7.62	7.63	7.69	7.73	7.75		
TIME SAMPLE ( x - CG-OR T SEND SEND SEND SEND SEND SEND SEND SEND	(	95 PCT	20.45	20.63	20.83	20.81	20.63	20.59	20.58	20.76	20.65	20-62	20.64		0	20.52	20.53	20.44	20.34	1000	20.40	V4.0V	20.57	20.63	20.55	20.45			OS DCT	2 2 2	-2.93	-2.93	-2.67	-2.59	-2.55	-2.15	-1.61	-1.26	-1.24	-1.15	-1.15	-2.51	-2.65	-2.83	-2.94	-2.91	-2.82	-2.73	-2.64		
TIME SAMPLE (X - CG-OR T SIZE,N MEAN SE	O	S. C	18.09	18.16	17.78	17.73	17.82	17.80	18.08	17.99	17.94	17.97	17.96		_	8	œ	œ	α	0	0 0	D	æ	_	œ	8	_	DINATE	F DC T	15.24	-5.21	-5.27	15.03	-4.69	-4.31	-4.17	-4.13	00.4-	-3.88	-3.83	m	1	S	5	S	5	S	S	S	١	١
TIME SAMPLE (	C	N V	0.72	0.75	0.93	96.0	0.86	0.35	0.76	0.84	0.82	0.81	0.82		0.82	0.76	0.75	0.72	04.0		0.00	0-12	0.78	0.81	0.76	0.72		0-05	, u	74	10	2 2	12	19	24	62	17	83	81	82	0.82	0.75	0.74	0.70	0.71	0.79	0.84	0.87	0.92	-	
TIRE SAY  1 T T T T T T T T T T T T T T T T T T	×	FAN	· U	σ	Q.	Q.	Q.	9	5	v	U	· U	. 0	•	9.3	9.2	9.3	9.2	0 0	3 . 0	7.6	6.6	6.3	9.3	9.3	9.2			MEAN	14.02	70.4-	0 4	13.85	-3.64	-3.43	-3.16	-2.87	-2.63	-2.56	-2.49	-2.49	-3.73	-3.86	-3.98	-4.11	-4.20	-4.20	-4-17	-4.15		
F 000000000	A	17	:	18	20			22	22	21	21	2.5	21	;	21	22	22	22	0 0	27	17	17	21	21	20	20			1	7	0 0	0 0	200	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	1	
	TIME	-	0.0	7	0.2	0.3	0.4	0.5	0.6	0.7	0.8		0		0.0	0.10	0.20	C	0	0 0	0	0	0	0	0	1.00		1		- 0		) (	) C	, 0	, 0	, 0	0	O	06.0	1.00				0	0	0	0	0	0	•	

TOXXXXO

THE SAMPLE (	_	1	-	1	•													-	٠,	7	-	7	7	7	=	1	i	. 1	1	4				, ,			, ,	,, ,	4	14	14	4	u	1 4		a	0				
THE SAMPLE ( X - CG-GROINATION OF STATE IN MEAN SE SPECION OF STATE IN STATE IN SE SPECION OF STATE IN SECOND OF ST	1 5	4. 3	2	6	3	7	-	1 0	-	4 "	, ,	,,	2	6	9	0	9 0			\$ 1		4	.5	3		2		5	4.7	7 . 7	7 . 7	10	0 9	2	7.5				0.0	6.1	6.1	4.2	3.6	7.3	3.2	3-6	3.8	3.9	4-1	4-1	
THE SAMPLE (x - CO-O  T SIZE'N MEAN SE  20 3.61 0.82  20 3.61 0.82  21 5.93 0.75  22 3.61 0.82  23 6.20 0.67  24 6.27 0.63  25 6.25 0.67  26 6.27 0.63  27 6.27 0.63  28 6.27 0.63  29 7.59  20 20 6.27 0.63  20 20 6.27 0.63  21 3.37 0.79  22 12.95 0.79  24 0.81  25 12.95 0.79  26 13.38 0.61  27 13.12 0.99  28 13.40 0.93  29 14.40 0.79  20 15.34 0.55  20 15.34 0.55  20 15.34 0.55  20 15.34 0.55  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.55 0.69  20 12.57 0.68  20 12.56 0.69  20 12.56 0.69  20 12.56 0.69  20 12.56 0.69  20 12.56 0.69  20 12.57 0.68	DINAT 5 PC	2.5	.5	.2	5	7	8	4	-			, ,	7.	.2	4	0	. 4		0	1 0		0	0		5.	_	DINAT	5 PC	1.7	7		1 .	1 00	2 . 5	, ,	700	, ,	7 . 7	6.4	4 . 4	4.4	1.9	1.4	1.2	0 . 8	7-0	6.0	1.1	1.3	1.6	
T SIME NAMPLE (	CO-	5	9.	8	80	80	1.	9.	-	4	0 4	0 4	0	9.	9.	7	. 4		. 0	. 0	9	-	1.	9.	.5		0-0	ш	. 7	-		0	0	8	1	- 6	n u	2 0	0	. 5	.5	1.	.6	9	1.	80	80	80	80	1	,
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LANDMARK

		200		0	1.44	2.79	4.30	5.88	6.44	7-40	0	000	1	51.6	44.6		0.0	2.89	3.82	4 . 9 5	5	7.35	000	1000	7006	19.6	26.6	-
	DISTANCE	1000	200	0	1.44	1.35	1.51	1.58	0.57	96-0	04.0		000	0.38	0.33		0.0	2.89	0.93	1.03	1.19	1.31	000	000	0	0.00	0.36	
		05 PCT	10.00	00.41	87.47	14.96	15.37	15.69	15.68	15.38	15.06	14 71	7 - 7 -	74.38	14.29		14.29	15.00	15.26	15.40	15.64	15.55	15.37		0000	70.61	14.32	
	O INA TE	100 5		10.30	01.11	12.41	12.60	13.05	12.94	12.93	12.88	12.72	17 74	41077	12.66		12.66	12.77	12.89	12.74	12.51	12.25	12.03	11 05	000	70-11	11.30	
	0-00-2	) U.V	0.00	000		0.78	0.84	0.80	0.83	0.75	0.66	0.60		00.00	0.50		0.00	0.68	0.72	0.81	0.95	1.01	1.02	0.0		10.0	0.74	
	()	MEAN	12.40	12 2 2	70.07	13.69	13.98	14.37	14.31	14.10	13.97	13.72	13.56	4000	13.47		13.41	13.88	14.08	14.37	14.07	13.90	13.70	13.63	100	77.67	15.21	
( 27)	()	95 PCT	11.52	10 71	- 0	10.50	15.6	8.61	6.45	5.78	5.13	4.41	3.03	000	3.54		3.24	6.14	7.21	8 - 30	9.52	10.43	10.82	11.33	11.45	100	L	1 1
K K	3D INATE-	5 PCT	10.02	8.16	000	0.40	10.4	1.95	3.57	5.69	2.29	1.96	1.79		1.58		1.50	2.49	2.90	3.82	4.92	09.9	8.01	8.73	0.37		TO	
IST CENTE	10-00 - J	SE	0.46	0.78	1 40	04.	100 T	2.03	0.88	46.0	0.87	0.75	0.65		09-0	0	00	1.11	1.31	1.36	1.40	1.17	0.85	0.79	0.70			47
- LT WRIST	()	MEAN	10.77	9-43	200	700	61.0	2.58	2.01	4.24	3.71	3.19	2.86		7.56	2 54	000	4.32	2.06	90.9	7.22	8.51	9.41	10.03	10.51	10.65	100	1 1 - 1 1
LANDMARK	(	95 PCT	14.20	14.21	14.86	1 . 10	11017	76.61	15.25	15.59	15.81	16.03	16.09	14 10	61.01	16.19	4	47.47	13.68	13.32	13.21	13.44	13.82	13.99	14.17	14-10		11/1
	RDINATE-	5 PCT	11.75	11.70	11.38	11 54	1100	60.11	17.50	13.29	13.88	14.23	14.38	14 40	rt • + 1	14.49		64.41	11.43	87.11	10.87	10.74	10.93	11.16	11.31	11.62	11 75	11.0
																0.52												
	X)	MEAN	12.98	12.95	13.12	13-16	13 41	1000	13.90	****	CO - 4.7	15.13	15.24	15.34	-	15.34	12 00	00.00	17 30	12.30	12.04	12.09	12.38	12.57	12.74	12.86	12.08	02 . 77
	SAMPLE	SIZEON	15	15	17	18	0	0 0			17	17	21	22	:	22	20	0 0	0 0	0 -	57	12	C 7	12	15	15	15	14
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DATA FOR 65° BACK ANGLE CONFIGURATION

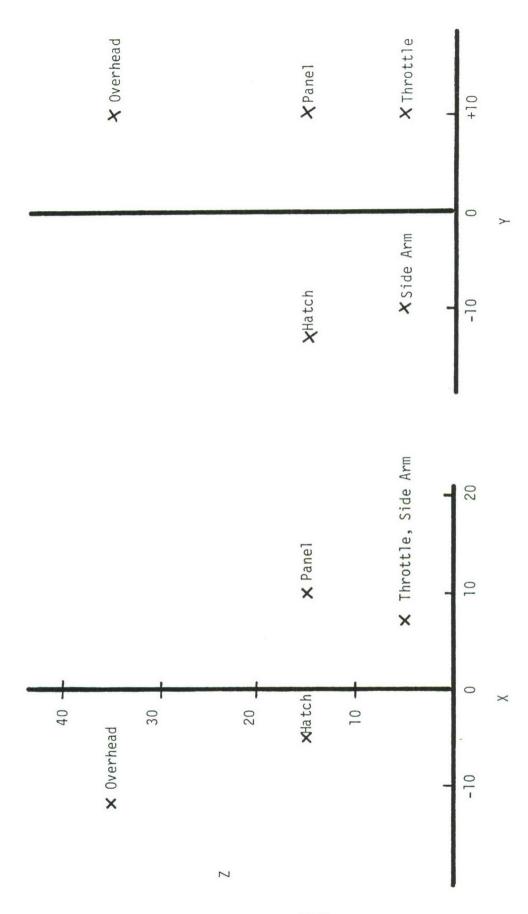


Fig. A-26. Controller Locations for 65° Back Rest Angle

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 to Over-Head controller at -12.0, +10.0, +35.0 and returns. Left hand remains at Throttle controller at +7.0, +10.0, +5.0.

MOTICN NUMBER - 12130 BACK ANGLE - 65

SUB-MOVEMENT		TIME DA	T A	1 1	
	MEAN	MEAN STO DEV RANGE	8.4	NGE	
KGHT FWD	16.0	60.0	0.80 TO 1.00 SECS.	1.00	SECS.
RGHT REV	10.1	0.15	0-90 TO 1-30 SECS.	1,30	SFCS

TIME	SAMPLE	X)	0-00 -	CO-ORDINATE-	[	X)	- 00-06	CO-ORD INATE -	
_	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PC
0.0	7	-18.63	1.06	-20.37	-16.90	-0.87	1.19	-2.83	1.08
0.10	7	-18.40	0.59	-19.37	-17.43	-0.80	1.31	-2.95	1.34
0.20	7	-18.67	0.82	-20.02	-17.32	-0.85	1.06	-2.59	0.90
0.30	7	-18.56	0.88	-20.02	-17.11	-1.02	1.06	-2.76	0.72
0.40	7	-18.59	1.15	-20.48	-16.70	-0-76	1.15	-2.65	1.12
0.50	7	-18.65	0.92	-20.16		-0.65	1.05	-2.38	1.07
0.60	7	-18.90	0.80	-20.21	-17.60	-0.81	1.17	-2.73	1-11
0.10	7	-10.01	0.78	-20.29	. •	-0-61	1.25	-2.65	1.44
0.80	7	-18.93	0.73	-20.13	-17.74	-0.56	1.35	-2.77	1.66
0.00	7	-18.58	06.0	-20.05	-17.11	-0.43	1.53	-2.93	2.08
1.00	7	-18.84	1.06	-20.59	-17.09	-0.34	1.64	-3.02	2.35
0.0	7	-18.84	1.06	-20.59	-17.09	-0.34	1.64	-3.02	2.35
0.10	7	-19.06	0.88	-20.51	-17.62	-0.75	1.39	-3.03	1.53
0.50	7	-18.77	0.87	-20.19	-17.35	-0.92	1.35	-3.13	1.29
0.30	7	-18.65	1.04	-20.36	-16.94	-0.77	1.32	-2.94	1.40
0.40	7	-18.47	0.86	-19.88	-17.05	-0.72	1.33	-2.90	1.45
0.50	7	-18.64	0.81	-19.97	-17.31	-0.82	1.24	-2.84	1.21
0.60	7	-18.67	0.82	-20.01	-17.33	-0.82	1.12	-2.66	1.03
0.10	7	-18.67	0.99	-20.29	-17.04	-0.83	66.0	-2.45	0.78
0.80	7	-18.85	1.15	-20.73	.9	-0.81	1.06	-2.55	0.94
0.00	7	-18.90	1.03	-20.58	-17.22	-0.68	1.07	-2.44	1.07
1.00	7	-18.63	1.06	-20.37	9	-0.87	1.19	-2.83	1.08

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114.05 113.92 113.51 113.28 113.18 113.22 113.20 113.20

& W - D & Z

95 PCT 14.36 14.36 114.36 13.92 114.40 114.40 114.92 114.67

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LANDMARK - CERVICALE

	MOVED	MIL	0	1 74	2.27	2 71	2 0 0	2 400	2 4 5	3 76		20.00	000	4.25	0		1.02	1.33	1.79	2.15	2.61	787	70	1000	67.6	3.23	3.28
	DISTANCE	INCR	0-0	1.76	0.51	74.0	200	000	0.23	0.13		000	47.0	0.19	0		70.1	0.30	94.0	0.36	0.46	0.26	0.17			01.0	0.05
	(	95 PCT	22.06	22.48	22.49	22.18	22.31	22.38	22,30	22.25	22 33	22 47	14.77	22.63	22.63	22 20	05.22	01.77	77.01	21.97	21.94	21.98	21.95	22 00	21.00	66.17	22.06
	OINATE-	5 PCT	19.96	20.55	20-43	20.59	20-52	20-67	20-65	20.55	20.51	20.00	20.03	19.84	19.84	10 01		41.07	70.07	20.08	20.10	20.08	20-02	20 05	000	44.44	19.96
	- :0-08	SE	0.64	0.59	0.63	64.0	0.54	0.52	0.51	0.52	0.56	0.73		0.85	0.85	77		000	60.0	0.58	0.56	0.58	0.59	0 20	17	10.0	99.0
	7)	MEAN	21.01	21.51	21.46	21.38	21.41	21.53	21.47	21.43	21.42	21.28		21.24	21.24	21.13	21 . 1 .	77.77	46.17	21.32	21.32	21.03	20.39	21.02	20.00	2000	21.01
11	[	95 PCT	1.22	2.24	2.71	4.01	3.81	3.38	3.50	3.46	3.36	3.88		3.98	3.98	3.07	000		2.50	5.29	1.57	1.24	1.19	1.37	1.21	**	1.22
•	D INATE-	5 PCT	-3.14	-0.89	-0-44	-1.23	-0.96	0.20	0.28	0.31	0.43	-0.00		01.0	0.10	-0-92	-1. 32	2000	66.7	-4.13	-2.33	-2.50	-2.74	-3.07	-3.04		-3-14
	- 00-08	SE	1.33	96 .0	96 0	1.60	1.46	16.0	0.98	96 .0	0.89	1.18		1.18	1.18	1.22	1 34	1 40		1.35	1.19	1.14	1.20	1.35	1.29		1.33
- NASION	١)	MEAN	96.0-	19.0	1.14	1.39	1.43	1.79	1.89	1.88	1.89	1.94	,	5.04	2.04	1.08	0.88	640	000	80.0	-0.38	-0.63	-0.17	-0.85	-0-91		06.00
LANDMARK	(	95 PCT	-14.86	-15.40	-15.79	-15.28	-15.03	-15.94	-15.92	-15.82	-15.92	-15.97	10 21	06.61-	-15.96	-15.25	-15.10	-15.13	200	00 00	-14.81	-14.72	-14.73	-14.89	-14.77	11,00	00 -47-
	RDINATE-	5 PCT	-19.21	-19.51	-19.53	-19.33	-19.36	-19.32	-19.70	-20.00	-19.75	-19.31	-10 43	70 % 1-	-19.62	-19.70	-19.38	-10.22	11011	01.61-	-14.33	-19.27	-19.44	-19.32	-19.30	10 01	17.61
	0-00 -	SE	1.33	1.25	1-14	1.23	1.32	1.03	1.15	1.28	1.17	1.02	1 13	71.1	1.12	1.36	1.30	1.25	1 25	7.5	1.38	1.39	1.44	1.35	1.38	1 22	4.33
	X)	MEAN	-17.04	-17.46	-17.66	-17.30	-17.20	-17.63	-17.81	-17.91	-17.83	-17.64	-17 70	61017	-17.79	-17.47	-17.24	-17.18	-17 11	77.7	10.11-	-17.00	-17.09	-17.11	-17.04	-17 04	100
	SAMPLE	SIZEON	1	1	1	7	7	7	7	1	7	7	7	•	7	1	7	7		- 1	- 1	1	7	7	7	1	•
	TIME	- (	0.0	0.10	F 0.20	0 0 30	R 0.40	M 0.50	A 0.60	R 0.70	D 0.80	06.0	1 00		0.0	0.10	0.20	R 0.30	F 0.40	0 1	00.0	09.00	R 0.70	N 0.80	0.00	1.00	

TOKRAKO

MOVED	CUM	0.0	0.13	0.26	0.59	0.80	1.28	3.88	5.83	9.92	10.08	10.23	0.0	0.53	0.74	1.05	1.23	1.55	1.74	1.76	1.96	2.09	2.18		MOVED	THE C	0.0	1.09	1.25	1.54	2.01	2.59	3.44	3.96	4.30	000	91.6	0.0	0.77	1.45	1.97	2.60	2.97	3.32	3.42	3.79	10 4	10°t
DISTANCE	I	0	7	0.13		.2	*	.5	6	0	0.16	0.15	0.0	0.53	0.21	0.31	0.17	0.32	0.19	0.01	0.20	0.13	60.0		DISTANCE	DON	0.0	1.09	0.15	0.29	14.0	0.57	0.86	0.52	0.39	10.0	0.00	0.0		0.68	.5	0.63	.3	.3	0.10		C	7.
(	S	ושו	S	15.27	S.	ויש	an.	un.	u ı	K.	S	41	5	15.82	2	5	S	5	5	S	5	5	15.30						12.88									5	4	14.28	4	3	3	m	3	3	•	٩
RDINATE	5 P	3	;	13.99	3.	3	3.	;	•	;	+		14.38	13.99	13.90	3.	3.	3.	3.	3.	3.	13.87	3			)	11.62	10.87	10.95	10.98	11.22	11.72	11.96	12.38	12.86	13.64	13.45	13.45	13.21	12.55	12.28	12.06	11.85	11.70	11.65	11.61	11 40	
- C0-0R	SE	0.44	0.34	0.39	0.43	0.36	0.44	0.43	0.45	0.52	0.53	0.40	0.40	0.56	0.58	0.55	0.50	0.50	0.43	0.44	0.43	0.40	0.44		- CO-OR	4	0.45	0.61	0.59	0.65	0.75	0.69	0.84	0.11	0.63		0.00	0.55	0.36	0.53	0.53	0.46	0.44	0.47	0.47	0.50	44 0	
7)	MEAN	14.58	14.58	14.63	14.50	14.52	14.70	14.91	14.99	14.90	14.97	15.03	15.03	16.91	14.85	14.57	14.56	14.51	14.57	14.57	14.57	14.52	14.58		[]	MEAN	12.35	11.88	11.92	12.05	12.45	12.86	13.34	13.55	13.88	67.47	74.33	14.35	13.80	13.41	13.15	12.81	12.57	12.47	12.42	12.44		
(	95 PCT	1-14	96.0	0.87	0.98	1.23	1.30	10.39	17.82	2.67	2 • 82	3.12	3.12	2.26	2.15	2.18	1.62	1.04	0.86	0.92	1.15	1.18	1.14	(+)	(	4	-6-06	-6.81	-7.04	-6.82	-6.24	-6.13				•	60.41	-4.09	-4.25	-4.63	-5.34	-5.78	-6.18	-6.38	-6.24	-6.13		
ORD INATE-		-1.11	-1.12	-0.85	-0.15	-0.63	-0.22	-5.41	-9.82	94.0-	-0-34	-0.36	-0.36	-0.53	-0.78	16.0-	-0.69	-0.74	-0.94	-0.98	-0.98	-1.02	-1.11		ORD INATE-	K	-8-63	-8.54	-8.58	-8.32	-8.40	-8.00	-7.58	-7.43	1101-	16.0-	4.01	-6.44	-7.35	-7.80	-7.64	-7.98	-8.13	-8.55	-8.51	-8.78		
0-00 -	SE	0.69	0.64	0.51	0.53	0.57	0.46	4.82	8.43	0.55	96 .0	1.06	1.06	0.85	0.89	96.0	0.71	0.54	0.55	0.58	0.65	19.0	0.69	ACROMION	9	3	0.79	0.53	0.47	0.46	99.0	0.57	0.71	0 - 84	0.8	0.00	0.12	0.72	0.95	0.97	0.10	0.67	0.59	99.0	0.69	0.81	0	
()	MEAN	0.01	-0.08	0.03	0.11	0.30	0.54	5.49	4.00	1.11	1.24	1.38	1.38	0.86	0.69	09.0	0.46	0.15	-0.04	-0.03	0.08	0.08	0.01	- RT ACR	\)	MEAN	-7-34	-7.68	-7.81	-7.57	-7.32	-7.06	-6.41	-6.05	1-5-14	-2.00	17.6-	-5.27	-5.80	-6.21	64.9-	-6.88	-7.16	-7.46	-7.38	-7.46	111	
()	95 PCT	-12.90	-13.31	-13.06	-12.61	-12.59	-13.46	-5.03	1.65	-13.21	-12.80	-12.64	-12.64	-13.56	-13.00	-12.50	-12.85	-13.14	-13.07	-12.90	-12.88	-13.00	-12.90	LANDMARK	(	OS DCT	-14-36	-15.84	-16.13	-16.24	-16.26	-16.11	-16.20	-16.55	-16.85	10.84	-11.08	-17.08	-	_	-16.46	-16.41	-15.96	-15.75	-15.56	-15.19		
Œ		-15.09	-14.85	-15.22	-15.10	-15.31	-15.20	-20.24	-24.44	-15.37	-15.80	-15.97	10	-15.03	10	1	5	10	5	5	*	-15.01	-15.09		RDI		-18.34	-18.72	-18.55	-18.66	-18.70	-19.47	-19.92	-19.98	-19.85	00.67-	-20.05	-20.05	9	-19.25	9	8	œ	œ	œ	8	•	
	SE			99.0								1.01		0.45											x - C0-0	4	) (		0.74											69.0								
-	Z	:	:	-14.14		ů.	:	2	:	:	:	:	4.3		4.1	3.9	6.4	4.0	0.4	4.0	3.8	4.0	-14.00		()	2	-	-	-17.34	-		-	0	~1	2	MI	^	-18.56	-18.49	-18.11	-17.75	-17.39	-17.35	-17.24	-17.21	-16.85	-14 43	
A	SIZE.N		1	1	7	-	-	1	1	1	7	7	7	7	7	7	7	7	7	7	7	1	7		SAMPLE		9		9									9	9	9	9	9	9	9	9	9	7	

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MOVED	TOO O	0	7.00	10.17	17.13	67-17	32.90	31.04	39.68	41.31	42.46	42.97	0	200	0000	81.8	14.14	21.35	28.31	34.07	37.99	40.43	41.67	42.56			MOVED	100	0.0	10.0	1 25	1.48	1 8 1	1 07	2.14	2 14	2.41	2 54	16.2	0.0	0.14	0.29	0.38	0.50	0.58	69.0	0.99	1.27	1 78	H /
DISTANCE	INCR	0.0	7	0	0.40	71.9	0.00	41.4	5.64	1.63	1.15	0.50	c	20.0	00.0	70.4	2.90	1.22	6.62	5.77	3.92	2.44	1.24	0.89			DISTANCE	INCK	0.0	70.0	2 4 6	41.0	2 6	71	81.0	200	0.24	200	54.0	0.0	0.14	0.15	60.0	0.12	0.08	0.10	0.31	0.28		
(	95 PCT	5.76	7.00	10.03	77	44.00	000	97.76	33.46	34.27	34.45	34.36	36 36	22 16	07.66	70.10	50.67	26.90	23.58	18.79	13.63	69.63	7.30	5.76			100	95 PC	4-80	07.4	4.49	4.31	4.37	14.4	4.2R	4.37	4.35	04.4		64.4	4.34	4.46	4.40	4.37	4.29	4.24	4.04	4.16	4 22	
-ORDINATE-	S PCT	2.56	10.6	14.05	00000	26 36	20.30	20.09	30.34	31.59	32.49	32.77	17.77	30 17	900	22 22	17.17	14.18	8.98	4.92	3.20	2.62	2.68	2.56			2	2 .	1.00	1 04	000	1.92	1.80	1 00	2.00	1.00	2.07	1.08		1.98	1.87	1.83	1.82	1.86	1.87	2.03	1.91	1.80	**	
- CO-08	SE	0.98	2 10	2 55	1 41	1 . 4	1 14	01.1	0.95	0.82	09.0	0.49	0.40	100	1 4 2	2 2 2	2.50	2.09	4.40	4.23	3.18	2.14	1.41	0.98				300	0.78		2000	0-73	0.76	0.75	0-10	0.75	0.69	0.77		0.77	0.75	0.80	0.79	0.77	0.74	0.68	0.65	0.72	0	
7)	MEAN	4.10	12 25	20.02	25.13	27.31	20 20	67.00	31.30	32.93	33.47	33.56	33.56	21.67	2000	26.02	01.67	40.07	87.01	11.85	8.42	6.12	66.4	4.16			7	NATE OF	2000	2 1 7	3.14	3.11	3.13	3.18	3.14	3-13	3.21	3-24		3.24	3.11	3.14	3.11	3.12	3.08	3.13	2.38	2.98	,	
1	35 PCT	09.6-	4-4-	10.70	2 12	24.6	000	0.00	7.90	10.65	10.70	10.60	10.60	10.26	27.04	9 9 9	0.0	100	0.0	-3.08	-6.43	-8.50	-9.83	-9.60	(18)		100	200	17.00	200	00.41	-6-41	-6-62	-6.70	-6.55	-6-49	-6.49	-6-18		-6.18	-6.63	19.9-	-6.76	-6.74	-6.69	-6.70	-6.46	-6.41		-
- CO-ORD INATE-	5 PCI	-12.54	-10.94	-7-09	-2 07	0-24	2.68	000	010	9.75	8.02	8.97	8.97	3.77	-1 22	-5 63	0000	20.67	-13.00	-14.19	-14.19	-13.20	-12.36	-12.44			LINAIE	2-	67.0-	-7 94	7.90	-8-41	-8-07	-7-74	-7.97	-8-07	-7.81	-8-21		-8.21	-7.77	-7.85	-7.93	-7.17	-7.89	-8.02	-T.74	-8.31	7 7	-
0-00 -	SE	10.87	1.97	1.92	1 BA	1.72	1.65	004	00.4	1.35	0.82	0.50	0.50	1.98	205	200	00.0	1001	17.4	3.57	2.36	1.43	0.17	0.87	HANTER	0	מים מים	200	20.00	0. 20	0.31	0.61	0.44	0.32	0.43	0.48	0.40	0.62	:	0.62	0.36	0.36	0.36	0.31	0.36	0.40	0.39	0.58		-
١	MEAN	20.11-	-7.71	70-1-	80	3.06	2,20	200	67.0	8.43	9.36	9.18	9.78	7.01	2.67	9	100	01.7	61.0-	-8-94	-10.31	-10.85	-11.10	-11.02	- RT TROCHANTE	,	MANA	16 42	-7.12	-7.47	-7-40	-7.41	-7.35	-7.22	-7.26	-7.28	-7.15	-7.20		-7.20	-7.19	-7.26	-7.34	-7.26	-7.29	-7.36	-7.10	-7.36	, 00	
(	3 PCI	66.7	6.08	3.82	40.0-	- 3. 8.8	-7.46	10.40	10.01-	-17.43	-12.32	-12.09	-12.09	-12.02	18.00	-1.26	07.7	1001	00.00	0.12	6.70	7.36	7.43	7.99	ANDMARK	•	TOG BO	2000	3.05	2007	3.61	3.80	2.97	2.95	2.81	2.90	3.08	2.87		2.87	2.96	3.18	3.28	3.26	3.19	3.00	3.16	3.05	2 27	
RDINATE-	2 .	4.07	0.48	-5.57	-11.86	-15.85	-17.20	07. 71-	07.07	86.41-	-14.24	-13.95	-13.95	-13.89	-14.37	-13.71	11000		01.	1.15	3.16	3.76	4.55	4.59	-		A DOT	•	0.92											0.75	0.10	0.77	0.12	0.57	0.17	0.85	0.55	0.45	64 0	
- 00-09	36	1.0	1.71	2.86	3.60	3.65	2.97	7		0.78	0.58	0.57	0.57	0.57	10.01	3.80	4 4	200	2.63	16.1	1.08	1.10	0.88	1.04		0		7 0	0.65	0.74	0.97	1.01	0.69	0.64	0.65	0.71	0.70	0.65		0.65	19.0	0.73	0.78	0.85	0.74	99.0	0.79	0.79	000	1
X)							۰			•			-13.02	-12.96	-11.23	7.40	12 02	1 20	7.50	3.63	4.93	5.56	2.99	6-59		>	N N U N	74	1 98	77	-02	.15	.83	.91	.74	.75	.93	.81		1.81										•
SAMPLE	SILEON	- 1	1	-		. ~	1		- 1	- 1	-	7	7	1	7		- 1	- 1	- 1	- 1	_	- 1	-	1		•	STATE N	•	٦ ١		9 40	9	9	9	9	9	9	9		9.	۰	•	9	9	9	9	9	9	4	
TIME	- 0	200	0.20	0.30	0.40	0.50	0.40	200		0.80	06.0	1.00	0.0	0.10	0.20	0. 30	200		000	0000	0.00	0.80	06.0	1.00		-	-		0-10	0.20	0.30	0.40	0.50	0.60	0.10	0.80	06.0	1.00		0.0	01.0	0.20	0.30	0.40	0.50	09.0	0.10	0.80	06.0	

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0.0 0.12 0.22 0.51 0.55 0.55 0.72 0.80 0.94 1.05

13.22 13.12 13.36 13.36 13.36 13.37 13.32 13.32

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-6.93 -6.93 -6.93 -6.93 -6.93 -6.93 -6.93 -6.93 -6.93

1.14 1.20 1.34 1.29 1.27 1.37 1.22 1.22

19.12 19.24 19.09 19.46 19.29 19.28 19.22 19.22

16.32 16.13 16.13 16.17 16.17 16.33 16.26 16.20 16.44

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CUM 0.00 0.30 0.61 0.61 1.30 1.40 1.56 1.67

13.36 13.36 13.36 13.36 13.36 13.36 13.36 13.36 13.36

MEAN 9.97 10.02 9.99 10.07 10.02 9.98 9.96 10.01

95 PCT -2.57 -2.57 -2.90 -2.90 -2.95 -2.75 -2.75

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CONFERON

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LANDMARK

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	95 PCT	12.73	12.33	12.26	12.78	13.89	15.32	16.34	16.41	16.84	17.16	17.88	17.88	16.70	15.40	14.76	13.55	12.90	12.68	12.60	12.74	12.77	12 72
DINATE	5 PCT	06.6	9.28	9.68	10.46	11.76	12.47	13.38	14.13	14.37	14.66	14.58	14.58	14.37	13.40	11.98	11.04	10.54	10.19	96.6	9.93	9.82	00 0
- C0-0R	SE	0.86	0.93	0.79	0.71	0.65	0.87	06.0	69.0	0.75	0.76	1.01	10.1	0.71	0.61	0.85	0.77	0.72	0.76	0.80	0.86	06.0	40
7)	MEAN	11.32	10.80	10.97	11.62	12.82	13.89	14.86	15.27	15.61	15.31	16.23	16.23	15.54	14.40	13.37	12.30	11.72	11.43	11.28	11.34	11.30	11 23
(	95 PCT	-6.53	-6.97	-6.74	-6.73	-6.88	-6.02	-4.42	-3.81	-3.38	-2.88	-3.04	-3.04	-3.56	-4.44	-5.51	-5.78	-6.02	-6.19	-6.95	-6.65	-6.66	63 7-
D'INATE	5 PCT	-8.83	-9.25	-9.11	-9.05	-8.80	-8.06	-7.67	-7.08	-6.67	-6.24	-5.65	-5.65	-7.03	-7.82	-8.19	-8.70	-8.93	-9.08	-8.70	-8.82	-8.75	000
- CO-CR	SE	0.10	69.0	0.72	0.71	0.59	0.62	66.0	1.00	1.00	1.03	0.80	0-80	1.06	1.03	0.82	0.89	0.89	0.88	0.53	99.0	49.0	04 0
٨)	MEAN	-7.68	-8.11	-7.93	-7.89	-7.84	-7.04	-6.04	-5.44	-5.02	-4.56	-4.35	-4.35	-5.30	-6.13	-6.85	-7.24	-7.48	-7.64	-7.83	-7.74	-7.70	-7 68
()	95 PCT	-12.50	-13.15	-12.97	-12.42	-11.64	-12.48	-12.75	-13.48	-14.08	-14.29	-14.47	-14.47	-13.64	-12.72	-12.54	-12.57	-12.91	-13.15	-12.83	-12.69	-12.56	112 50
DINATE	5 PCT	-15.11	-15.32	-15.61	-15.57	-15.73	-16.19	-16.99	-17.62	-17.82	-17.76	-17.93	-17.93	-17.20	-17.18	-16.13	-15.61	-15.81	-15.91	-16.08	-15.84	-15.62	11 31-
- 00-08	SE	0.79	99.0	0.81	96.0	1.25	1.13	1.29	1.26	1.14	1.06	1.06	1.06	1.09	1.36	1.09	0.93	0.89	0.84	66.0	96.0	0.93	01 0
X)	MEAN	-13.81	-14.24	-14.29	-13.99	-13.69	-14.33	-14.87	-15.55	-15.95	-16.02	-16.20	-16.20	-15.42	-14.95	-14.34	-14.39	-14.36	-14.53	-14.45	-14.26	-14.09	-12 01
SAMPLE	SIZEON	7	7	7	7	7	1	7	7	7	7	7	7	7	1	7	7	7	7	7	1	7	-
			_	_	_	-	_	_	_	-	_	_		_	_	0	-	0	_	_	_	_	

INCR 0.00 0.80 0.25 0.25 1.49 1.49 0.67 0.56

DISTANCE

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MVHT

X M F D X Z

	0:	¥ .		15	35	11	72	61	25	44	28	92	-	73	4		2 4	0.0	17	70	4	43	61	90		O <sub>3</sub>	1		90	3,0	200	17	7.46	0 0	30	90	92	71	•	0	45	56	90	34	17	74	85	.78	89	64
	MOVED	200	0	2	2	11.	15.	19.	22.	24.	25.	26.	0	4.03	80	14		000	. 7 7	. 47	25.	25.	25.	26.		F MOVE					-	10	10	1 "	) "	3	3	3	•	0	4	0	4	0	9	0	3	35.	9	-
	DISTANCE	INCR	0 4	1.64	3.87	5.18	4.61	4.07	2.83	1.83	1.13	0.68	0.0	4.03	4.76	5 71	7 2 4	2000	0000	1891	1.12	0.28	0.36	0.27		DISTANC	, -		2.06	4.30	20.00	0 0 0	5.34	40.4	2.86	1.70	0.86	0.79		0	4.	8	8	.2	8	.5	7.	1.93	6.	80
	(	95 PCT	4.23	8 49	12.81	17.94	21.89	23.98	25.00	25.07	24.82	24.81	24.81	24.31	23.35	10.76	16 41	11 64	10-17	96.8	1.49	7.40	4.09	1.06		(	95 PCT	6-14	8 65	15.87	21.11	26.32	27.86	29.61	30.91	31.50	31.62	31-67		-	29.97	-	S.	3		S	_	8.69	7.33	6.14
	RDINATE-	5 PCT	4.40	4.35	7.33	11.99	15.61	18.95	21.04	22.45	23.36	23.68	23.68	21.19	15.83	10.01	77	1		3.49	2.95	2.10	5.69	2.79		ROINATE	F PCT	2.12	3.58	7.69	13.60	10.87	22.78	25.82	27.82	28.99	29.57	30.09		30.09	27.54	23.56	18.61	15.99	8.03	4.71	3.28	2.70	2.36	2.12
	0-00 -	SE	0.8	1.26	1.67	1.81	1.92	1.53	1.21	0.80	0.45	0.34	0.34	0.95	2.29	20.0	2 20	2 23	10.7	1001	1.38	1.43	1.34	1.30		0-00	0 40	1.23	1.54	2.49	2.29	1.36	1.55	1.15	0.94	0.76	0.63	0.48		0.48	0.74	1.33	2.39	3.26	3.65	3.40	2.59	1.83	1.51	1.23
	7)	MEAN	400	24-9	10.01	14.96	18.75	21.46	23.02	23.76	24.09	24.25	24.25	22.75	19.59	16.01	10.01	100	000	77.9	5.42	5.05	4.89	4.33		()	MEAN	4-13	71.4	11.78	17.35	22.10	25.37	27.71	29.37	30.25	30.60	30.88		30.88	28.75	25.74	22.53	18.33	14.33	10.28	7.53	5.70	4.84	4.13
( 24)	;	35 PCT	0 0	-8.59	-	5	3.	1:	0.40	1.46	2.03	2.54	2.54	0.71	-0-81	-3.57	1 4	10.6	1.15	-8.03	- 8.71	-8.67	-8.56	-8.56	( 56)		OS DCT	01.01	-8-15	21.51	-1-00	1.05	3.01	4 27	000	8.77	8.66	9.08		9.08	8.00	7.21	4.56	1.98	-0.95	-3.82	-6.31	-8.14	-9.13	-9.19
ER	RD INATE-	5 PCT	100	-11.20	-10.73	-8.95	-7.36	-5.59	-3.83	-2.51	-1.22	-0.55	0	-4.16	-7.47	-10.25	12 22	7:	C6.11-	3	-11.50	=	2	-10.76	ER	ORD TNATE -	F PCT	-11.01	-12.09	-10.33	17.08	-3.71	-1.28	1.05	2000	4-67	6.34	7.26		7.26	0.88	-4.78	-6.29	-9.68	-12.31	-13.67	-13.66	-12.90	-12.06	-11.91
OW CENTER	0-00 -	SE	0.0	0.80	1.02	0.95	1.30	1.39	1.29	1.21	0.99	0.94	96 0	1.49	2-03	200	200	1 77	01.	1.1	0.85	0.13	0.71	0.67	ST CENTER	0-0	9 4	0.83	1 20	1 57	1 1 1	1 65	1.58	0 4	1.53	1.25	0.71	0.55		0.55	2.17	3.65	3.31	3.55	3.46	3.00	2.24	1.45	0.00	0.83
- RT ELBOW		MEAN											1.00	-1.72	-4-14	-6.01	100	- 4	00.61	-4.45	-10.10	-9.88	-9.73	99.6-	- RT WRI	()	MEAN	-10.55	-10.12	77 74	-4-53	-1-23	1.31	3 44	200	6.72	7.50	8-17		8.17	4.44	1.21	-0.87	-3.85	-6.63	-8.74	66.6-	-10.52	-10.58	-10.55
LANDMARK	[	95 PCT	10.41	15.48	-4-19	-2.88	-2.86	-4.46	-6.70	-8.57	-9.76	-10.59	-10.59	-7.45	-4-74	13 78	12.0	12.2	10.0	81.4-	-5.12	-5.01	-5.06	-4.81	LANDMARK		OS DCT	77 7	2.51	2.10	2.75	70.01	-3.00	16.15	- B - 97	-11.02	-11.92	-11.94		-11.94	-10.18	-7.03	-2.30	2.11	3.49	3.17	3.81	3.95	4.04	4.44
	LDINATE-	5 PCT	17 34	-7.02	-6.31	16.9-	-10.00	-13.12	-14.34	-14.83	-14.74	-14.52	-14.52	-12.51	-10-01	17.5	100	000	000	16.8-	-8.93	-8.93	-8.32	-8.04		POINATE	S DCT	2	4 0	- 2 - 2	-5.87	010	-14.04	15 51	15.56	-15.08	-14.20	-13.53		-13.53	-12.90	-12.28	-11.19	-8.44	-4.22	-0.87	0.07	0.47	0.94	1.31
	- C0-0R	SE										1.20		1.54		•	•	•	•	•						-	3 0	90.0	24.0	200	2 63	20.4	3 3 4		20.0	1.24	0.70	0.48		0.48	0.83	1.60	2.71	3.22	2.35	1.23	1.14	1.06	0.94	96.0
	X)	MEAN	16.43	-6.25	-5.25	-4.93	-6.43	-8.79	-10.52	-11.73	-12.25	-12.55	-12.55	-9.98	-7.37	24 4	00.01	11.6	06.6-	-6.54	-7.03	-6.97	-6.69	-6.43		X)	NA	2 87	2 40	1 00	1 56	15.23	18.57	200	-12.26	-13.35	-13.06	-12.74		-12.74	-11.54	-9.66	-6.74	-3.16	-0.36	1.15	1.94	2.21	2.49	2.87
	SAMPLE	SIZE,N	- 1	- 1	7	1	7	7	7	7	7	7	7	1	7			- 1	- 1	-	7	7	7	7			SATE		0 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	. 4	0 4	•	9	9	1	7	7	7	7	7	1	9	9
	TIME	- 0	2 -	10	3	4	.5	9.	1	8	6	1.00	0.0	0.10		, ,		0		9		8	6.	0		TIME	111	- 0	2 -	• •	2 "		0	, 1	2 -	α.	0	0	2	0	-:	2.	.3	4	.5	9	1.	0.80	6	1.00

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 to Over-Head controller at -12.0, +10.0, +35.0 and returns. Right hand REMAINS AT SIDE-ARM CONTROLLER AT +7.0, -10.0, -5.0.

MOTICN NUMBER - 22230 BACK ANGLE - 65

	0.60 TO 1.00 SECS.	
ANGE	1.00	2732 CO O TO 03.6
1 ~	TO	-
A	09.0	0, 50
TIME DATA STD DEV	0.16	0.17
MEAN	62.0	0.70
SUB-MOVEMENT	LEFT FWD	LEFT REV

	1																								1																							
	ADINATE-	19.16	19.95	20.07	20.14	20.43	20.41	20.48	20.35	20.41	20.31	19.61	80	5	3	3	3	2	3		1	2	19.16		POINATE	S DCT	11.23	11.36	11.52	11.58	11.59	11.59	11.63	11.52	11.51	11.56	11.36								11.27			
		m a	0.63	5	5	4	\$	4	2	4	4	9											0.81		10-0J	) u	2 0	0 0	20.00	0.79	0.85	0.81	0.87	0.98	0.93	96.0	1.08		0.97	m	m	~	-	m	0.86	m	m	00
	7)	MEAN	20.98	21.04	21.36	21.39	21.10	21.21	21.17	21.39	21.03	20.88	m	-	10	.4		10	10	10			20.48		(1	2 4 4 3	2.4	2.7		12.83	3.3	2.3	3.3	3.1	3.0	3.1	3.1	7.	7.	6.	2.8	2.7	2.5	5.6	12.67	2.7	2.7	2.5
7	1.	35 PCT	56 %	3.07	3.17	3.08	3.13	3.14	3.29	3.29	3.03	5.99		3.03									3.19	2.1			1 4			04-4								5.03	4.63	4.70	64.4	4.36	4.43	4.06	4.05	4.22	4.27	4.19
_	Z	5 PCT	0	P	0	0	0	0	0	0	0	0	0.44	0.24	.3	0.17	2	4	4	3	7	.2	0.15	_		)	13 65	10.4-	75.4-	-4.31	-3.72	-3.55	-3.85	-3.74	-3.66	-3.96	-3.97	-3.97	-4.05	-4.25	-3.62	-3.21	-3.73	-3.53	-3.38	-3.38	-3.56	-3.65
	- CO-ORDI	SE 0.53	1.00	1.04	0.95	0.83	0.87	0.89	0.92	0.55	0.85	0.78	0.78	0.85	0.83	0.97	0.85	0.74	0.77	0 84	0.83	0.88	0.93	ALE	- C D- O B	) ) u	2			2.65															2.26			
- NASION	١	NEAN 1.67	1.35	1.37	1.61	1.71	1.71	1.68	1.77	1.74	1.63	1.71	1.71	1.64	1.74	1.76	1.67	1.67	1.70	1.74	1.76	1.73	1.67	- CERVICALE	Y	1	0.27	60.0	0.0	0.0	0.42	0.58	0.50	0.62	99.0	0.54	0.53	5	.2	.2	4.	.5	.3	.2	0.34	4.	.3	.2
LANDMARK		95 PCI	2	5	5	2	2	9	9	5	5	5	-15.96	5	2	2	2	2	2	2	2	2	-15.56	ANDMARK		u	10			-16-67	9	9	9	7	7.	-	-	-17.06	-17.36	-17.35	-17.27	-17.09	-16.86	-17.03	-17.28	-16.93	-16.72	-17.01
7	DINATE	5 PCT	-19.27	-19.76	-19.48	-19.45	-19.46	-19.37	-19.40	-19.41	-19.38	-19.14	-19.14	-19.12	-19.21	-19.46	-19.23	-19.02	-19.16	-19.17	-19-17	-19.18	-19.34	,	DINATE	5 PCT	-20.51	-20-41	-20.69	-20.92	-21.12	-21.21	-21.06	-20.86	-20.80	-20.98	-21.29	-		0	_:	-	0	ċ	-20.59	ċ	ċ	-
	- C0-0R	SE	1.07																				1.15		- CO-08	5	200	100	15	1.30	.36	.43	.28	.15	.13	91.	.29	.2	0	0	7.	.2	.2	0	1.01	. 2	1.25	0
	X)	MEAN -17 45	-17.52	-17.68	-17.68	-17.72	-17.73	-17.80	-17.77	-17.70	-17.69	-17.55											-17.45		) ·	MUAN	-18.76	-18.82	-18.81	-18.79	-18.89	-18.37	-18.96	-18.98	-18.94	-19.08	-	19.1	19.1	9.1	9.1	19.1	8.8	18.7	-18.93	18.9	-	18.
		IZE, N											7	7	7	1	7	-	~	7	. ~	1	7		T ON V	27.70	3165911	- 1	- 1	- 1-	. ~	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

MOVED CUM 0.00 0.60 0.47 1.12 1.12 1.12 1.13 1.15 1.50 1.62

DISTANCE INCR 0.00 0.00 0.18 0.24 0.11 0.01 0.11

21.81 22.02 22.02 22.01 21.97 21.98 21.98 21.98 21.77 21.77 21.77

TOKMAKO

0.0 0.23 0.56 0.56 0.83 0.91 1.06 1.15

0.00 0.23 0.12 0.11 0.03 0.03

21.94 21.78 21.64 21.68 21.73 21.82 21.73 21.65 21.65

MOVED CUM 00.33 00.33 00.33 11.23 11

00.00 00.125 00.125 00.126 00.009

14.00 114.00 114.00 114.00 114.00 114.00 114.00 114.00 114.00

DISTANCE 7 1 NCR 0.0 0.21 0.12 0.18 0.18 0.13 0.22

95 PCT 14.13 14.13 14.17 14.25 14.25 14.25 14.25 14.73

0.0 0.10 0.20 0.30 0.30 0.50 0.50 0.90 1.00

& W - D & Z

11ME 0.0 0.10 0.20 0.30 0.40 0.50 0.50 0.50 0.50 0.90

DXBEROL

0.0 0.10 0.20 0.30 0.30 0.50 0.50 0.50 0.90 1.00

XW-DXZ

	DISTANC	INCR	0.0	0.14	0.14	0.14	0.17	0.37	0.12	0.18	0.04	0.39	0.07	0	0.0	900	200	2.0	100	000	77.0	0.50	01.0	0.50	0.36		DISTANCE	0 0 0 0 0		0.32	74-0	0-11	0-10	0.40	0.32	1.26	1.30	0.18	0.10	0	000	40.00	0.27	0.06	44.0	•	0.00	3.00	0 0	0.08	
	(	95 PCT	14.50	14.54	14.46	14.40	14.54	14.74	14.71	14.80	14.77	14.87	14.69	14.69	14.81	14.71	14.44	14 44	14.54	14 51	10.4	60.47	000-41	10.41	14.50			OS DCT	12.21	12.06	11.79	11.93	11.86	11.66	11.98	17.51	11.82	11.88	12.04	12.04	11.66	11.52	11.58	11.92	11.65	1100	12 20	12.25	12 27	12.21	
	CO-ORDINATE-	5 PCT	13 . 35	13.48	13.38	13.51	13.60	13.23	13.50	13.46	13.48	13.39	13.60	13.60	13.50	13.35	13.33	12 23	13. 20	13.23	13 35	13 41	13 34	13 35	13.35		CO-ORDINATE-	SPLT	10.76	10-47	10.27	10-18	10.31	10.36	10.34	7.33	10.45	10.36	10.17	10.17	10-40	04.01	10.44	10-13	10.37	10.01	10.4	10.61	40	10.76	
	0-03 -	SE	0.35	0.32	0.33	0.27	0.29	0.46	0.37	0.41	0.39	0.45	0.33	0.33	0.40	0.42	4	140	2 0	000		0000	0000	000	0.35		0-05 -	) u	0.44	0.48	0.46	0.54	0.47	0.39	0.50	3.10	0.45	0.46	0.57	0.57	0.39	0.31	0.35	0.55	0.39	44	0 0	0.50		0.44	
	7)	MEAN	13.93	16.91	13.92	13.96	14.37	13.99	14.10	14.13	14.12	14.13	14.15	14.15	14.16	14.03	14.00	12.00	13.00	13.87	13.07	16.31	12.01	13 03	13.93		()	MEAN	11.40	11.26	11.03	11.05	11.39	11.01	11.16	12.42	11.14	11.12	11-11	11.11	11.03	11.01	11.01	11.32	11.01	11 2 2	11.27	11.63	11 5.6	11.49	
( 3)	1				3.10									2.79	2.53	2.48	2-47	2.55	2.86	2.87	2 0 2	60.7	2 600	10.7	61.7	( 5)		35 PCT	8 46	8-27	8 60	8 80	8.46	7.99	8.48	8.66	8.53	8.30	8.66	8.66	8 - 41	8 - 40	8 . 83	8 . 49	8 - 41	0 0	14.8	14-8	8 42	8.46	
	RD INATE-	5 PCT	-2.34	-2.88	-2.81	-2.90	-2.54	-2.15	-2.82	-2.88	-2.77	-3.29	1.82 -3.19	-3.19	-2.72	-2-89	-2.43	-2.27	-2.90	-2.62	12 15	-2 10	-2 76	75 27	-2.34		RD INATE-	5 PCT	6.62	6.52	6.34	6.18	6.37	90.9	5.62	5.47	5.59	2.67	5.35	5,35	5.54	5.87	5.93	6.19	6.66	9 4	6.63	6.63	6.61	6.62	
SUPRASTERNALE	0-00 - /	SE	1.55	1.81	1.80	1.51	1.65	1.60	1.66	1.78	1.69	1.85	1.82	1.82	1.60	1.64	1.49	1.47	1 - 76	1-67	1.52	1 4 5	1 70	2 2	4.33	CMION	- CO-0RD		0.56	0.53	69.0	0.80	0.64	0.59	0.87	26.0	06.0	0.80	1.01	1.01	0.87	0.77	0.88	0. 70	0.53	0.50	54	0.56	20.00	0.56	
- SUPRA	\\	MEAN	0.50	0.08	0.15	0.24	0.17	-0-17	-0-11	0.04	0.01	-0.26	-0.20		-0.10	-0-21	0-02	0.14	-0-02	0.12	75.0	40.0	0.0		0.50	- LT ACRCMION	λ)	MEAN	7.54	7.39	7.47	7.49	7.42	7.03	7.05	7.06	7.06	66.9	7.01	7.01	16.9	7.13	7.38	7.34	7.53	7.44	7.52	7.55	7.52	7.54	
LANDMARK	1	95 PCT	-12.57	-12.47	-12.62	-12.70	-12.76	-12.82	-13.05	-13.08	-13.06	-12.85	-13.06	-13.06	-13.10	-13.15	-13.00	-12.87	-12.98	-13.11	-12.03	-13 06	-13.01	-12.57	16.21-	LANDMARK		95 PCT	-15.76	-16.36	-16.86	-17.06	-17.26	-17.03	-17.13	-17.31	-17.67	-17.58	-17.26	-17.26	-17.40	-17.43	-17.68	-17.53	-17.08	-14.84	-16.35	-15.96	-15.86	-15.76	
	CO-ORDINATE-	5 PCT	-16.66	-16.75	-16.74	18.91-	-17.01	95.17-	-17.08	-16.86	-16.90	-17.68	-17.49	-17.49	-16.61	-16.70	-16.84	-17.16	-17.08	-16.63	-16.65	-16.55	-16.84	-16.66	00.01		CO-ORDINATE-	5 PCT	-18.56	-18.34	-18.64	-18.64	-18.55	-18.69	-19.16	-19.16	-19.19	-19.60	-19.73	-19.73	-19.56	-19.88	-19.86	-19.94	-19.16	-18.52	-18.68	-18.74	-18 40	-18.56	
	0-00 -	SE	1.25	1.31	1.26	17.7	1.30	1.39	1.23	1.15	1.17	1.47	1.35	1.35	1.07	1.08	1.17	1-31	1.25	1.07	1 13	70	1-17	1.25	67.7		- 60-0	SE	0.85	0.60	0.54	0.48	0.39	0.51	0.62	0.56	0.46	0.61	0.75	0.75	0.66	0.75	0.67	0.73	0.64	. 5	0.71	0.85	0.84	0.85	
	X)	MEAN	-14.61	-14.61	-14.68	-14.78	-14.89	01.61-	-15.06	-14.97	-14.98	-15.27	-15.28	-15.28	-14.86	-14.92	-14.92	-15-01	-15.03	-14.87	-14.79	-14 81	-14.93	-14.41	10.41		X)	MEAN	-17.16	-17.35	-17.75	-17.85	-17.90	-17.86	-18.14	-18.23	-18.43	-18.59	-18.49	-18-49	-18.43	-18.65	-18.77	-18.73	-18.12	-17.68	-17.51	-17.35	-17.23	-17.16	
	SAMPLE	SIZE,N	7	7	7	_	- 1	- 1	-	-	-	7	_	7	7	7	7	7	7	_			- 1		-		SAMPLE	SIZE.N	7	7	7	7	7	9	9	9	2	2	2	2	2	2	5	2	9	1	7	. ~	-	7	

ADVED CUM 0.0 0.14 0.28 0.59 0.59 1.08 1.27 1.31

0.0 0.43 0.62 0.85 1.00 1.18 1.40 1.65 1.76 2.01 M D V ED O C U M D V ED O C U M D V ED O C U M D D V ED O C U M D D V ED O C ED

0.0 0.08 0.32 0.59 0.65 1.29 1.80 2.20 2.33 2.41

X W F D X Z

TOKMARO

X M F D X Z

TOKMAKO

& w - D & Z

MOVED	CC	0.0	3.27	10.38	19.25	26.88	27.77	30.38	32.08	32.90	33.01	00.00	0.0	1.98	4.85	8.89	-	0	2	6	0	-	33.05			DANCE		0.0	0.26	0.35	0.41	0.44	0.68	0.77	1.03	1.31	1.40	0-0	0.15	0.22	0.28	0.34	0.45	0.40	0.66	0.76	
AN	INCR	0	.2	7	8	9.	8	9.	1.	. 8	0.11		0.0	1.98	2.87	4.04	4-68	5.91	6.51	3.29	1.02	1.54	1.21		20141010	TANCE	200	0.0	0 0	0.11	90.0	0.03	0.23	0.10	0.25	0.28	60.0		7	0.08	0	0	-	1 -	0	-	1
(	95 PCT	9	2	6	\$ .	-	0	2	3	3	33.00		32.83	32.48	31.21	28.92	26.56	20.28	19.13	13.95	10.48	8.32	6.61			05 PCT	3.58	3-72	3.66	3.62	3.60	3.66	3.55	3.61	3.78	3.61	3.58	5	3.69	3.64	5	3.60	5	4	5	4	
DINA	5 PCI	5.01	5.68	11.6	18.09	57.17	23.25	18.67	28.05	30.01	30.40		30.86	27.78	24.23	19.95	15.09	12.87	4.79	4.58	6.14	5.54	5.01			2	1.93	2.03	2.04	2.08	2.10	2.07	2 - 22	2.11	2.44	2.05	2.21			2.04							
- C0-0R	SE	64.0	1.94	2.91	76.7	3.23	16.7	10.7	1.70	1.00	0.60		09.0	1.43	2.13	2.74	3.50	2.26	4.37	2.86	1.32	0.84	0.49		- 60-09	5 u	0.50	0.51	0.49	0.47	0.46	0.48	0.41	94.0	0.41	0.47	0.45	0.42	0.50	0.49	0.44	0.45	0.44	0.44	0.44	0.38	1 1 1 1
7)	E TE	79.6	8.8	14.04	47.17	20.00	40.17	17.67	30.84	31.55	31.85		31.85	-	~	*	m	10	Ch	N	m	0	m		()	MEAN	2.75	2.87	2.85	2.85	2.85	2.87	2.89	2.86	3.11	2.83	5.89	2.89	2.87	2.84	~	2.87	-	-	~	~	
05 pr	35 PC	11.31	11.78	11 20	10 02	70.01	20.01	70.07	50.01	86.01	11.57		11.57	-	0	0	0	0	2	2	-	-		191	(				7.82					•				7.86	7.71	7.84	8.13	8.08	7.89	8.25	8.45	8.11	-
RDINATE-													8.31	7.83	7.55	1.06	6.61	6.72	6.51	7.86	9-14	6.63	10.49		D INATE-	5 PCT	5.30	5.47	5.63	5.72	5.66	5.55	5.28	5.45	5.36	5.35	2.35	5.35	5.46	5.47	5.28	5.28	5.43	5.29	5.16	5.30	
- CO-0RD1											0.99		65.0											HANTER	- C0-08	SE	46.0	0.77	19.0	0.58	0.65	0.71	0.78	0.72	0.78	0.00	0.00	0.76	69.0	0.72	0.87	0.86	0.75	06.0	1.00	0.86	-
MEAN		10.70	10.24	79.0	9-23	0.4	0 7 0	24.0	000	000	9.84		46.6	84.6	9.05	8.55	8.38	8.84	9.56	10.09	10.28	10.61	10.90	- LT TROCHANTE	١)	MEAN	6.83	42.9	6.72	29.9	6.13	6.71	6.55	6.63	40.0	10.0	0	09.9	6.58	6.65	6.71	6.68	99.9	6.77	6.80	6.71	, ,
95 PCT	40 4	60.03	2.62	-1.44	-4-07	-R. 37	-10.68	-12.28	-12 47	-12 18	-12.19		61.21-	-11.38	-8.81	-3.94	0.71	1.72	10.04	6.05	6.83	6.93	6.94	ANDMARK	(	6	(1)	1.1	3.54	m	(*)	(4)		" (	0 0	, ,	•	3.25	3.42	3.56	3.44	3.38	3.39	3.54	3.81	3.59	3 11
o in	4.13	2.76	-2.35	-9.86	-18.16	-15.26	-15.85	-15.08	14.00	-15 27	-15.42		74.61-	06.41-	10.41-	-14.33	-13.02	-5.86	-5.13	-0.52	2.27	3.40	4.13	7	DINATE	5 PCT	0.68	19.0	0.46	0.54	0.85	0.93	0.40	000	000	24.0	0	0.63	0.75	19.0	0.72	19.0	0.17	0.19	0.48	99.0	000
SE SE	) (										0.98														- CO-OR	SE	0.88	0.86	0.94	0.95	0.76	0.72	0.00	0.00	7.0	0		0.80	0.81	0.00	0.83	0.83	0.80	0.84	1.02	0.89	04 0
MEAN	5.53	4.39	0.13	-5.65	11	=	13	13	13	13	-13.80	-	12.00	7 :	7	-4.13	-6.16	10-7-	7.40	97.4	4.00	2.10	5.53		X)	MEAN	2.12	5.08	5-00	2.10	5.09	11.7	1.74	1.07	1 02	1.04		1.94									
SIZE,N		-	7	7	7	1	7	1	7	1	7	-	- 1	- 1		- 1	- 1	- 1	- 1		0 -	Q ·	0		SAMPLE	17	-	- 1	7	- 1	~ -		- 1		- 1				- 1	- 1		- 1	- 1	- 1	- 1	- 1	_
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I	0.0	0.34	0.39	0.48	0.53	0.69	0.82	0.97	1.02	1.10		0 .	0.10	77.0	0.25	0.26	0.45	14.0	0.63	0.67	0.76	0.91			MOVED	CUM	0.0	0.38	0.77	1.01	1.53	2.17	20.2	3.30	3.64	3.68	0	000	3 6	26.0	0 0	16.7	4.34	2.54	2.68	5.88	3.05	2.10
DISTANCE	0.0	0.21	0.05	0.08	90.0	0.16	0.13	0.15	0.05	0.08	0		0.10	0.0	50.0	10.0	0.16	0.05	0.16	0.04	60.0	0.15			DISTANCE	INCR	0.0	0.38	0.39	0.25	0.51	40.0	20.00	0.26	0.34	40.0	0	000	2 6	0.00	1000	70.0	0.00	0.21	41.0	02.0	0.17	0.05
95 PCT	-	-	_	7	-	7	_	-	_	-	13.03	13 22	13 11	13.10	13.10	13.11	10.61	13.09	13.07	12.90	12.93	13.00			(	95 PCT	11.59	11.31	11.16	11.43	12.09	13.66	14.01	14.37	14.82	14.72	14.72	14.18	13.42	12 65	12.00	11 45	11.00	11.60	71.67	66.11	11 50	11.59
DINATE-	5.39	5.30	5.34	5.31	5.29	5.43	2.18	5.32	2.51	5.25	5.25	5.23	5.30	200	200	2.69	70.0	00.00	67.0	5.39	5.39	5.38			DINATE	5 PCT	10.22	10.10	10.17	10.38	10.65	11.04	11.28	11.41	11.43	11.50	11.50	11.39	11.12	10.86	104	10.44	200	10.40	10 42	2000	10.00	10.66
- CO-OR	2.32	2.37	2.37	2.36	2.38	2.34	7.40	2.33	4.38	2.37	2.37	2.44	2.38	2.28	2 20	2.37	2 3 5	2000	2000	2.29	2.30	2.32		6	ž	SE	0.45	0.37	0.30	0.32	***	0.00	0.83	06.0	1.03	0.98	0.98	0.85	0.70	0.54	0.40	0.37	7 2 0	0.50	0.34	75	0.42	24.0
MEAN	9.20	61.6	9.22	61.6	81.6	17.6	77.6	41.6	27.6	61.6	9-13	9.22	9.20	0 1 0	0	000	200	01.0	01.0	47.6	07.6	67.6		,	7	MEAN	10.90	20.01	10.67	10.90	11.98	12.35	12.64	12.89	13.13	13-11	13.11	12.79	12.27	11.76	11.28	11.04	11.30	00.00	10.97	10.34	10.90	10.10
95 PCT	7.06	7.50	7.32	64.1	24.7	1 . 45	000	400	00.1	19.1	7.67	7.31	7.54	7 . 34	7.12	7 20	7.22	4 97	10.7	17.7	100-	1.12	23)			95 PCT	000	8.50	00.6	0 63	9.16	9.30	9.31	9.53	9.73	99.6	99.6	9.32	9.51	9.52	9.39	9.36	9.37	9-33	9.21	8 00	8.78	0
S PCT	4.06	3.99	4-10	3.40	3.00	2000	000	300	0 0	3.13	3.75	3.88	3.76	3.93	4-13	4-12	4.20	4.34	9	3 9 0		11.6	NTER	DINATE	THE PERSON	2 PCT	000	06.0	1.20	7.20	7-10	6.87	16.9	41.9	76-9	1001	7.07	7.00	6.82	6.89	7.23	7.30	7.25	7.21	7.27	7.60	7.75	
- CO-ORD SE 0.52	0.91	1.07	0.98		010	000	100	1.13		1.20	1.20	1.04	1.15	1.04	0.91	0.97	0.92	0 80	20.0	1.12		76.0	LT SHOULDER CENTER	- CO-080	2 .	20.31	44		0.83	0.68	0.63	0.74	0.73	0.85	0.85	61.0	0.79	0.71	0.82	0.80	99.0	0.63	0.65	0.65	0.59	0.43	0.31	
MEAN 5.62	5.56	5.75	5.71	2000	2.00	5.65	7 75	5.71	1	71.0	5.71	5.59	5.65	5.63	5.63	5.71	5.71	5.65	5.65	5.73	6 4 3	2000	- LT SHO	()		AL 27	7.04	0	8.11	8.32	8.13	8.08	8.11	8.14	8.33	00.00	8.36	8.16	8.16	8.21	8.31	8.33	8.31	8.27	8.24	8.29	8.27	
95 PCT	19.48	19.66	19.27	19.32	19.53	19.28	19.10	19.10	10 27	16.61	19.37	19.44	19.49	19.51	19.59	19.77	19.64	19.67	19.53	19.43	10 10	17.17	ANDMARK	(	100 00	-13.20	-14-01	-14.42	-14.58	-14.90	-14.37	-14.42	-14.85	-14.91	-14.62	76.47	-14.52	-14.34	-14.33	-14.40	-14.64	-14.46	-14.13	-13.77	-13.47	-13.25	-13.20	
DINATE 5 PCT 15.56	15.53	15.52	15.74	15.64	15.33	15.69	15.63	15.70	15.55		15.55	15.56	15.46	15.46	15.38	15.48	15.53	15.20	15.36	15.53	15.56	00.04	,			-16.61											-16.95	-16.94										
- CO-OR SE 1.11	1.20	1.26	1.07	1.12	1.28	1.09	1.08	1.04	1.16		1.16													G		0.0	.54	50	.45	. 23	.51	. 70	. 56	15.	74		14.	62.	.73	11	14.	69	11.	16.	16.	00	04	
HEAN	17.50	17.59	17.50	17.48	17.43	17.48	17.41	17.40	17.46		17.46	17.50	17.47	17.49	17.48	17.63	17.58	17.44	17.44	17.48	17.38			X)	2	-14.90		5	-15.32					•			-15.74		5	5			2	5	2	+	;	
SAMPLE SIZE,N	5	ח ער	0 10	5	S	2	2	2	2		2	2	9	2	2	2	2	2	5	2	2				_	7											-											
11ME 0.0	0 0	07.0	, 0	0	0	0	0	06.0	1.00		0.0	0.10	0	0	0	T 0.50	0	0	0	06.0	1.00					0	7	0.2	0	0.4	0.5	9.0	0	0 0	0		0.0	0-10	0.0	0	0.4	0.5	0.0	0.7	0.8	0	0	
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HEAN 12.71 13.57 13.57 13.58 13.59 1	
1	9. A 17001-485-1948 885-345-195-1
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00.91 00.93 00.94 00	0 D m r 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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CENTER

WRIST

MOVEO CUM 0.0 2.97 8.21 18.25 22.22 24.92 26.61 27.44 27.80

DISTANCE INCR 0.00 0.00 5.24 6.02 4.04 3.96 1.68 0.38

7.12 10.65 10.65 19.78 25.43 26.31 25.43 26.80 30.24 29.96 29.96

\$ PCT 5 PCT 6 PCT 6 PCT 6 PCT 11 PC 11 PC 11 PC 11 PC 11 PC 12 PC

2 CO-ORC 5 E 0 .5 8 1 .1 1 1 .1 4 1 .0 6 2 .5 5 2 .1 5 2 .1 5 1 .6 9 1 .6 9 1 .6 9 1 .0 8 0 .7 3

MEAN 6-17 8-73 13-28 18-04 21-01 24-12 26-27 27-71 28-46 28-79

95 PCT 11.93 11.93 12.15 12.05 11.94 11.69 11.69 11.67 11.87

INATE. 5 PCT 10.95 10.53 9.89 9.30 9.34 9.37 9.37 9.97 9.95

CANTAGO

MOVED CUM 0.84 2.07 4.80 11.35 11.35 11.35 11.46 11.46 11.46 11.46 11.40

0.0 1.87 2.60 2.59 2.259 2.259 0.53 0.53

21.00 20.59 19.17 17.15 10.99 9.18 8.60 8.33 8.04

117.25 117.83 117.83 12.03 17.20 13.14 13.14 12.46 13.16 13.16

1.14 1.76 2.18 2.45 2.45 2.08 1.58 1.50 1.66 1.66 1.73 1.73

19.12 117.71 115.60 113.14 103

4.66 4.89 14.97 15.07 16.93 14.35 13.85

111.42 112.53 12.18 13.37 13.03 12.52 12.40 12.40 12.45

0.95 0.95 0.52 0.52 0.60 0.42 0.33

ISTANCE INCR 0.0 0.0 0.0 1.23 2.82 3.32 3.32 3.32 1.61 1.61 1.04 0.95

95 PCT 7-71 7-34 8-98 12-21 15-95 19-07 20-82 20-82 20-73 20-62 20-62

- CO-OROINATE-SE 5 PCT 1.61 2.37 1.61 2.72 2.22 4.93 2.25 7.75 2.58 10.60 2.14 13.39 1.16 15.51 1.16 15.51 1.14 17.25

MEAN 5.04 6.70 5.85 11.85 11.85 11.85 11.85 11.85 11.9

13.31 14.24 14.60 14.61 14.61 14.21 14.21 13.37

INATE-5 PCT 12-12 9-90 10-42 112-52 12-32 11-81 11-61 11-74 11-74 11-74 11-74 11-74 11-74

SE 0.36 11.38 11.28 0.60 0.60 0.79 0.69

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LANDMARK

0.0 1.90 4.74 8.42 111.36 115.90 19.54 23.20 24.81 28.18

229 - 82 229 - 85 220 - 85 220 - 81 110 - 83 110 - 83 10 - 29 10 - 29

27.42 26.50 20.96 17.21 12.79 12.85 7.46 1.44

0.73 1.57 2.33 2.72 2.07 2.07 2.05 0.80 0.80

11.86 11.67 11.16.16 10.51 10.93 11.24 11.75 11.75 11.11

10.15 9.72 9.49 9.31 8.68 8.94 9.44 10.15 10.27

22230/6 S. HVMT

ZWHDXZ

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 to Panel controller at +10.0, +10.0, +15.0 and returns. Left hand remains at Throttle controller at +7.0, +10.0, +5.0.

MOTICN NUMBER - 12140 BACK ANGLE - 65

SUB-MOVEMENT	MEAN	MEAN STD DEV	TA	RANGE	
RGHT REV	98.0	0.11	0.80 TO 1.10 SECS.	0.80	SECS.

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  | X   | X   | Ι   | <b>x</b>   
  | <b>x</b>  | X   | X  
  | <b>x</b>  | X  | Σ   
   | Ι   | Ι  | X III  | <b>x</b>   | <b>x</b>   
  | <b>x</b>   | I  | X III  | <b>X</b>   | X<br>W   
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  |   | 0.00  | 0.00   
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  | 080  | 080  | 0 0  | 000  | 080  
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| 0.72   |        | 0000   | 0.00                                 | 0.60<br>0.64<br>0.04<br>0.77<br>0.75           | 0.60<br>0.60<br>0.77<br>0.75<br>0.75                               | 0.00<br>0.00<br>0.00<br>0.73<br>0.75<br>0.75             | 0.00<br>0.75<br>0.75<br>0.75<br>0.75<br>0.92<br>1.09                          | 0.66<br>0.06<br>0.78<br>0.73<br>0.73<br>0.92<br>1.09   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>1.00<br>1.00   | 0.60<br>0.64<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.09                    | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   | 0.60<br>0.73<br>0.73<br>0.73<br>0.73<br>0.73<br>0.73<br>0.73<br>0.7  
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TOXXAXO

				LANDMARK	- SUPRASTERNAL	FERNALE		( 3)			
SAMPLE	X)	0-00 -	RDINA	-	١	0-00 -	CRD INATE-	(	7)	0-0	RDINATE
SIZEON	MEAN	SE	5 PCT		MEAN	SE	5 PCT	95 PCT	MEAN		2
7	-13.80		4	7	-0.31	0.75	-1.53	C	14.69	5	13.86
7	-13.92	0.38	4	7	-0.15	69.0	-1.29	0.98	14.58	0.54	13.70
1	-13.81		4	7	0.02	0.68	-1-10	1.13	14.58	4	13.78
7	-13.68		+	7	0.15	0.81	-1.18	1.48	14.62	2	13.78
1	-13.66		. 4	7	0.40	1.00	-1.24	2.04	14.69	9	13.66
1	-13.57		4	7	96.0	16.0	-0.63	2.55	14.92	5	14.04
1	-13.60		4	-	1.41	1.22	-0.59	3.41	15.11	9	14.10
-	-13.62		4	7	19.1	1.31	-0.55	3.76	15.23	8	13.79
7	-13.54		4	7	1.89	1.50	-0.58	4.36	15.47	0	13.86
1	-13.41		:	-	2.12	1.11	-0.68	4.92	15.58	0	14.04
7	-13.40		*	-	2.07	1.87	66.0-	5.14	15.83	-	14.02
7	-13.40	00	4	-12	C		-0.99		4	1.10	4
7	-13.48	0.68	7	-12	) C		0 45		2 4	4 1	
7	3 2		. 4	-12	) 4	•	000	•	11.01	- 1	•
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- 1	2		· .	-17	7		-0.33		4.5	2	3.
-	3.1			-15	0.1		-0.82		4.1	5	3.
1	-13.70		*	-15.	-		-1.12		14.69	5	3.
1	3.8		4	-12.	0.1		-0.92		4.5	4	3.
7	3.8		4.	-12.	0.3		-1.53		14.69	0.51	13.86
				LANDMARK	- RT ACRO	ACROMION		(4)			
	X)	- CO-OR	NIC	(	Y)	10-05	ORD INATE-		()	0-05	1
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- 1	1	24.0		-12	4.	0.43	-8-11	9	3.1	8	11.74
-	1	0.57		-14.	1.1	0.73	3	2	4.0	0	12.27
9	ī	0.78		-13.	6.8	0.81	-8.18	2	4.8	-	12.93
9		0.73	-15.17	-12.76	-6.35	1.06	-8.09	-4.61	15.55	1.17	13.74
9	7	0.61		-12.	5.6	1.18	5	3.	6.3	-	14.50
9	7	0.45		-15.	2.0	1.18	0	3	6.7	0	14.99
9	7	0.26		-12	2.0	1.02	-	3.	16.85	1.13	15.00
9	-12.75	0.26	3.1	-12.33	0		-6.72	3	6.8	-	15.00
9	13	0.55	.0	-12.87	9		-6.53	4	4	0	14.24
9	-3	0.63	5.5	-13.49	0		1	· IC	0	0	13.50
9	-15.16	0.61	1 5	-14.16	L.		-7.30	l L	6 7	0	12 06
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DISTANC	•	0.0	2.41	3.58	4.8	5.54	3.56	3.3	2.4]	1.66	1.00	0.38	0.0	2.86	3.0	4.8	3.4	4-2	3-1	2.2	1.7	1.37	0.6			DISTANC								0-16					0.0	7.0	0.0	0.5	7.0	0.3	0.5	0.1	0.21	0.5	0.0
1	OS DCT	5.33	68.9	10.89	14.67	17.98	18.88	19.08	18.83	18.25	17.58	17.66	17.66	18.47	18.62	20.30	17.60	15.64	13.06	10-64	B 03	5.91	5.33			(	95 PCT	3.54	3.60	3.58	3.57	3.51	3.53	3.23	2 . 2	3 32	2 42	0.10	3.43	2000	3.72	3.60	2000	3.78	3.59	3.52	3.83	3.86	3.54
INATE	S PCT	1.93	5.12	7.40	10.73	13.57	15.49	16.74	16.81	16.64	16.23	15.48	15.48	15.30	14.26	9.20	9.34	96-9	5.11	3.86	3.15	2-60	1 93			CO-ORDINATE	5 PCT	1.61	16.1	2.35	2.53	2.43	2.38	2.62	2 70	2.81	20.00	66.3	2.53	24.7	2.45	14.7	2.31	2.16	2.06	1.90	1.65	1.35	19.1
- C0-030		1.04	0.54	1.06	1.20	1.34	1.03	0.12	0.62	64.0	0.41	99.0	99.0	0.97	1.33	3.39	2.52	2.65	2.42	2.07	04.	1.01	1.04			- C0-08	SE	0.59	0.52	0.38	0.32	0.33	0.35	0.19	1.0	41.0	200	2.0	0.27	0.37	0.54	0.38	0.38	0.49	94.0	0.49	99.0	0.17	0.59
7	MEAN	3.63	6.30	9.14	12.70	15.78	17.18	17.91	17.82	17.44	16.90	16.57	16.57	16.89	16.44	14.75	13.47	11.30	60.6	7.25	200	4.26	3.63			7		2.57	2.76	2.37	3.05	2.97	2.95	2.92	2 . 7 6	2.10		06.7	2.98	3.08	3.08	3.03	5.66	2.37	2.83	2.71	2.74	2.60	2.57
[6]	OS DCT	-10-26	-9.46	-7.10	-3.07	3.06	4.71	1.59	6.33	10.29	19.01	11.13	11.13	11.35	9.68	9.36	3.07	-1.52	-5.21	- B - 09	100	-10.33	-10.26		181	[	95 PCT	-5.30	-5.89	-5.82	-5.71	-5.67	-5.20	-5.26	20.00	5 76	01.0	000	-5.86	17.6-	-5.58	-5.11	-4.84	-5.55	-5.97	-5.71	-5.48	-5.54	-5.30
D INATE	S DCT	-12.11	-12.40	-11.36	-8.68	-5.60	-0.10	2.86	5.81	7.90	8.67	8.05	05				10.51	-13.06	-13.80	-13.48	112 05	-12.29	-12.11		_	INATE	5 PCT							-8.58		14.00			-8.04	-8-19	17.8-	-8.64	-8.82	-8.67	-8.52	-8.91	-8.82	-8.65	90.6-
KIP CENIEK	u	0.56	0.89	1.30	1.11	2.64	1.65	1.44	1.07	0.13	0.59	0.94	0.94	2.67	3.45	6.04	4-14	3.52	2,62	1.65		00.00	95.0		RT TROCHANTER	080-080	SE	1.14	0.72	0.71	0.76	0.78	1.08	10.1	0.80	2.0	0.00	0	19.0	0.91	0.82	1.07	1.21	0.95	0.78	16.0	1.02	0.95	1.14
- KI GKIP	MEAN	-11-19	-10.93	-9.23	-5.88	-1.27	2.00	5.23	7.57	9.10	49.6	65.6	9.59	96.99	4.02	-0.54	-3.72	-7.29	-0.51	-10.79	11 20	-11.31	-11-19		- RT TRO	Y)	MEAN	-7.18	-7.07	-6.99	96.9-	-6.95	-6.97	-6.92	0.00	00.01	0.00	66.90	-6.95	-6.70	-6.93	-6.88	-6.83	-7.11	-7.24	-7.31	-7.15	-7.10	-7.18
		7.93											9.64	8-64								7.02			ANDMARK	(	0							3.51					2.65	3.60	2.91	3.30	3.63	3.47	3.52	3.83	3.55	3.01	3.15
- i	S DCT	4-86	4.61	4.42	4.25	3.99	4.33	4.84	5.71	6.65	7.44	1.04	7.04	5.90	5.49	4.21	3.82	3.66	41.4	7	100	14.4	48.4		,	DINATE	5 PCT	0.49	0.68	1.22	1.28	1.07	46.0	0.98	17.1	1.02	7.7	1.34	1.34	0.62	0.81	0.89	0.95	0.63	0.10	0.45	0.48	0.55	64.0
8	9 0	0.94	0.87																		•	1.07		•		- CO-08D	0 0	0.81	0.67	0.47	0.51	0.59	0.71	0.77	0.54	0.00	0.0	04.0	0.40	0.91	0.64	0.73	0.85	0.86	0.86	1.03	0.94	0.75	0.81
X	MENN	A 40	6.04	5.78	5.78	5.81	5.87	6.43	7.00	7.52	8.16	8.34	8.34	7.27	18.4	4.31	10.4	200	200	2000	7000	2.00	04.0			X )	MEAN	1.82	1.78	1.98	2.12	2.04	2.10	2.24	5.09	7.04	71.7	1.99	1.99	2.11	1.86	2.10	2.29	2.05	2.11	2.14	2.02	1.78	1.82
2	27 17 17	316E,N	- 1	7	7	1	7	7	7	9	2	2	5	ď	, ,	- 1	- 1	- 1		- 1	- 1	- 1	- 1	-		CAMDIE	SIZEN	9	9	7	7	7	7	7	- 1	- ,	0	0	9	9	1	7	7	7	7	7	7	9	9
1	1	- 0	0-10	0	0 0.30	0	0	0	0	0	06.0	1.00	0.0	01.0	000	0	0	9 0	0	000	9 0	2000	06.0	00.4		TIME	-			0	0	·	·	A 0.60	0	•			0	-	0.2	0.3	0.4	0.5	0.6	-	0	0.9	1.00

	MOVED	I	0.0	0.34	0-37	0-45	0.49	0.63	0.69	0.77	0.85	96.0	1.10	c		0.30		0.56	0.65	0.76	0.83	46.0	1.08	1.28		
	DISTANCE	INCR	0.0	0.34	0.03	0.08	0-04	0-14	90.0	0.08	0.08	0.09	0.15	0		100	000	00.00	60-0	0.11	0.07	0-11	0.14	0.20		
	(		13.79	13.52	13.48	13.64	13.73	13.77	13.86	13.84	13.81	13.76	13.71	13.71	13 66	13.67	13.66	13.70	13.75	13.73	13.83	13.74	13.57	13.79		
	CO-ORDINATE	5 PCT	5.95	6.03	6.08	6.05	6.00	6.05	6.01	5.97	5.93	5.90	5.88	5.88	9 4	5.91	5.93	5.92	5 . 82	5.96	5.99	5.97	5.94	5.95		
	1	SE	2.39	2.28	2.26	2.31	2.36	2.35	2.39	2.40	2.40	2.40	2.39	2.39	2 2 2	2.37	2.36	2.37	2.42	2.37	2.39	2.37	2.33	2.39		
	7)	MEAN	9.87	9.77	9.78	9.84	9.87	16.6	9.93	06.6	18.6	9.83	9.80	9.80	0 10	9.79	9.79	9.81	9.79	9.85	76.6	9.35	9.76	9.87		
102	(	95 PCT	-2.28	-2.93	-3.42	-3.53	-3.35	-3.26	-3.47	-3.37	-3.14	-3.03	-2.91	-2-91	-2 . RG	-2.76	-2.73	-2.58	-2.33	-2.43	-2.36	-2.39	-2.54	-2.28	22)	
	CO-ORD INATE-	5 PCT	14.7-	-7.34	06.9-	-6.75	-6.88	-6.72	-6.62	-6.67	-6.81	T0. T-	-7.29	-7.29	-7.33	-7.22	-7.03	-7.07	-7.51	-7.34	-7.39	T+.T-	T4.T-	-7.41	NTER	
10P	- CO-OR	SE	1.56	1.34	1.06	0.98	1.08	1.05	96.0	10.1	1.12	1.23	1.34	1.34	1.35	1.36	1.31	1.37	1.58	1.50	1.53	1.55	1.50	1.56	SHOULDER CENTER	
LANDMARK - RT KNEE	Y)	MEAN	-4.84	-5.14	-5.16	-5.14	-5.12	66.4-	-5.04	-5.02	16.4-	-5.05	-5.10	-5.10	-5.11	66.4-	-4.88	-4.83	-4.92	-4.89	-4.87	-4.93	-5.00	-4.84	- RT SHOL	
LANDMARK	(	95 PCT	19.71	19.40	19.24	19.31	19.47	19.48	19.41	19.35	19.43	19.44	19.05	19.05	19.07	19.26	19.16	18.97	19.48	19.28	19.33	19.33	19,32	19.71	LANDMARK	
	CO-DRDINATE-	5 PCT	16.00	16.05	16.26	16.28	16.08	15.98	16.09	16.29	16.32	16.24	16.34	16.34	16.12	16.22	16.66	16.87	16.35	16.38	16.30	16.46	16.34	16.00	_	
	1	SE	1.13	1.02	0.91	0.92	1.03	1.07	10.1	56.0	0.95	0.97	0.83	0.83	0.00	0.93	0.76	0.64	0.95	0.88	0.92	0.87	0.91	1.13		
	X)	MEAN	17.85	17.73	17.75	17.80	17.78	17.73	17.75	17.82	17.88	17.84	17.70	17.70	17.60	17.74	17.91	17.92	17.91	17.83	17.82	17.90	17.83	17.85		
	SAMPLE	SIZE,N	1	1	7	7	7	7	1	7	-	7	7	7	7	7	7	7	7	7	7	7	1	7		

COMPERON

	MOVED	CUM	0.0	0.63	0.78	1.35	2.24	3.51	4.85	60.9	7.22	7.94	8.09		0.0	1.27	2.49	3.87	5.22	6.06	6.54	68.9	7.14	7.26	7.52
	DISTANCE	INCR	0.0	0.60	0.18	0.58	0.89	1.28	1.34	1.23	1.14	0.71	0.15		0.0	1.27	1.22	1.38	1.34	0.84	0.48	0.35	0.25	0.11	0.26
	()	95 PCT	12.90	12.43	12.60	13.20	14.13	14.90	15.88	16.63	17.09	17.34	17.29		17.29	16.23	15.45	14.69	13.99	13.40	13.15	13.01	12.94	12.91	12.90
	DINATE-	5 PCT	10.25	10.41	10.57	10.89	11.31	12.06	12.68	13.23	13.97	14.48	14.62		14.62	13.97	13.03	12.00	11.21	10.94	10.59	10.32	10.14	10.10	10.25
	- CO-OR	SE	0.81	0.62	0.62	0.10	0.86	0.87	0.98	1.03	0.95	0.87	0.81		0.81	69.0	0.74	0.82	0.85	0.75	0.78	0.82	0.85	0.86	0.81
	7)	MEAN	11.57	11.42	11.58	12.05	12.72	13.48	14.28	14.93	15.53	15.91	15.96		15.96	15.10	14.24	13.35	12.60	12.17	11.87	11.57	11.54	11.51	11.57
22)	(	95 PCT	-6.86	-6.82	-6.62	-6.34	-5.80	-5.35	-4.32	-3.62	-3.00	-2.52	-2.63		-2.63	-3.67	-4.36	-4.85	-5.46	-6.31	-6.38	-6.79	-7.05	-7.21	-6.85
CENTER	DINATE-	5 PCT	-8.89	-8.77	-8.87	+0.6-	60.6-	-8.79	-8.20	-7.61	-7.31	-6.55	-6.26		-6.26	-6.38	-7.02	-7.89	-8.31	-8.26	-8.78	-8.89	-8.99	+0.6-	-8.89
SHOULDER CE	28				0.68										1.11	0.83	0.81	0.53	0.87	0.59	0.73	0.64	0.59	0.56	0.62
- RT SHOL	١)	MEAN	-7.87	-7.80	-1°14	-7.69	-7.44	-7.07	-6.26	-5.61	-5.01	-4.53	74.4-		74.4-	-5.03	-5.69	-6.37	-6.88	-7.28	-7.58	-7.84	-8.02	-8.12	-7.87
LANDMARK	()	95 PCT	-12.82	-13.62	-13.59	-13.25	-12.78	-11.08	-10.72	-10.14	-5.41	-8.80	-8.70		-8.70	-9.16	-9.27	-10.19	-11.65	-12.32	-13.19	-13.32	-12.99	-12.84	-12.82
	ADINATE-	5 PCT	-14.93	-15.28	-15.22	-14.88	-14.32	-14.11	-13.05	-11.98	-11.20	-11.07	-11.39	9	-11.39	-12.42	-13.41	-14.09	-14.61	-15.14	-14.74	-14.88	-14.95	-15.02	-14.93
	- 00-08	SE	99.0	0.51	0.50	0.50	0.47	0.92	0.71	0.56	0.54	69.0	0.85		0.82	1.00	1.26	1.19	0.90	0.86	0.47	0.48	09.0	99.0	0.64
	X)	MEAN	-13.88	-14.45	-14.40	-14.07	-13.55	-12.59	-11.88	-11.06	-10.31	-9.93	-10.05		-10.05	-10.79	-11.34	-12.14	-13.13	-13.73	-13.37	-14.13	-13.97	-13.93	-13.88
	SAMPLE	SIZE,N	1	1	7	1	1	7	7	7	7	7	7	-	1	1	7	7	7	7	1	7	7	7	7
	TIME	_	0.0	0-10	0.50	0.30	0000	0.20	09.0	00.10	0.80	06.0	1.00		0.0	0.10	0.20	0.30	0 * 0	0.50	09.0	0.10	0.80	06.0	1.00

TOKMAKO

ZWLJZZ

 $\alpha w \vdash \supset \alpha z$ 

OVED	CUM	0.0	0.29	1.14	2.99	5.93	62.6	2.11	4.48	6.16	7.07	7.30		000	00.7	6.08	9.34	2.35	4.59	6.71	7.10	7.30	7.60	7.87			OVED	CUM	0.0	1.82	4.82	8.67	3.25	1.93	7.00	07.7	15	17.4		0.0	2.46	5.04	09.0	3.23	69.9	9.11	76.0	2.38	27.43	0.40	000
ANCE	NCR		.29	-85	. 85	.93	.37	.82 1	.37 1	.68 1	.91	.22			0 0	77.	17.	.01	.24 1	.13 1	.39 1	29	29	0.19			ANCE M	NCR	0	.82	00.	989	1 86.4	1 80.	1 600	7 77	71 2	27 7		0.	94.	.58	.57 1	.63 1	.46 1	.42 1	.82 2	.45 2	0.40	10	000
Ī	95 PCT	65.9	6.51	7.29	8.95	11.26	13.55	14.83	15.63	16.02	16.11	16.15	4	15 74	,	4 1	~	0	9.30	7.49	7.20	6.88	6.85	6.59			_	95 PCT	5.32	6.72	16.6	13.17	00.01	70.01	17 54	17.14	16.75	16.90		16.90	17.08	17.24	17.86	15.33	13.52	11.71	9.54	7.38	5.84	5.32	3000
ROINATE	5 PCT	5.59	2.88	3.52	4.80	6.43	9. 24	11.30	12.78	13.57	13.82	13.61	13 61	11 30		20.0	0. (2	4.97	3.79	2.44	2.89	2-64	2.40	2.59				5 PCT	2.03	4.12	5.76	11.8	12 03	17. 63	15.18	15.52	15.32	14.70		14-70	14.12	12.15	7.76	7.99	6.29	4.61	3.69	3.15	2.67	2.03	177
0		1.22											77	1.32	1 7 1	1.01	1.93	1.83	1.68	1.54	1.31	1.29	1.36	1.22			- CO-OR	SE	1.00	0.19	1.28	1.53	1 0 2	200	0.72	0.40	0.44	0.67		0.67	0.00	1.55	3.08	2.24	2.21	2.16	1.78	1.29	0.97	1.00	200
7)	MEAN	4.59	4.70	2.40	0.0	60.6	11.39	13.06	14.21	14.79	14.96	14.88	14. 88	13.56	11 00	00.11	76.6	1.38	6.55	4.97	5.05	4.76	4.53	4.59			7)	MEAN	3.58	24.5	1.86	10.01	15 02	10.02	16.36	16.33	16.03	15.80		15.80	15.60	14.70	12.81	11.60	06.6	8.16	79.9	5.26	4.25	3.68	200
	6	ĭ	,	•	1	1		7		_	_	_		0.44	•	•			æ		6	6		-8.73	( 26)			Ω (	0 0	70 1	- 200	n r	7 02	F 07	7.41	7.89	7.80	7.91	6	7.91	8.16	6.88	94.9	1.27	-3.73	-6.63	-8.49	-9.80	-10.31	-9.88	
-ORD INATE-	5 PCT	-11.67	-11.94	-11-95	10.11	11.01	76.4-	-1.19	-4.92	-2.84	-1.48	-0.91	-0-01	-4-91	-7 03	20.00	04.6-	3	=	13	=	=	-11.46	-11.67	ER		2	S PCI	-12.10	19-11-	-10.64	17.30	200	200	2.91	5.31	6.34	6.02		6.02	11-11	-4.15	-11.89	-11.39	-12.26	-12.71	-12.77	-12.47	-12.02	-12.10	
-03	SE	0.00	1.04	71-17	1.13	1 32	71.1	1.70	1.54	1.23	96.0	0.71	0.71	1.63	1 87	1 47	100	1.65	1.13	1.48	0.68	0.64	69.0	0.00	ST CENT		0	SE	0.0		11.1	2000	3 96	1 73	1.37	0.79	0.45	0.58		0.58	2.15	3.36	2.60	3.86	2.60	1.85	1:31	0.81	0.52	0.68	
١	MEAN	-10.20	-10.24	71-01-	24.0	10.01	00.00	14.4-	-2.40	-0.83	90.0	0.25	0.25	-2.24	-4. 8 A	-7.23	67.0	50.6-	-10.06	-10.95	-10.61	-10.56	-10.33	-10.20	- RT WRI		١١	MEAN	66.01-	60.01	70.07	12.57	1.43	300	5.16	09.9	7.07	16.9		6.97	4.63	1.36	11.5-	-2.06	-8.00	-9.67	-10.63	-11.14	-11.16	-10.99	
1	95 PCI	-5.10	0.01	10.00	13.07	200	07.7	60.0	0.52	0.64	0.65	0.46	46	90	6.1	22	7	2.0	36	66	69	30	90		ANDMARK		-	_					6.79							6.93											
0	2 201	-1.89	1.40	16.26	14.45	12 51	10.00	20.6-	66.2-	-2.32	-2.03	-1.69	-1.69	-2.80	-4-24	-5 70		1701-	-8.26	-8.83	-7.79	-8-19	-8.20	-7.89	-								2.81							4.19	3.92	5007	1.48	1.43	0.74	0.95	1.30	1.23	1.44	1.69	
- CO-OR	n	•		•	•	•	•		•	•	•	0.65		1.04			•	•									- 00-08	2					0-61							0.65											
X	E١	16.50	0 4	o w	7 ~	10	4 -	٠,	4 (	9	69.0-	-0.62	-0.62	-1.10	-1.91	4 (4	1	t u	n,	•	ð	9	-6.63	-6.50			X 1	7476	2 67	17.0	7000	3.20	3.83	3.94	4.54	5.34	5.79	5.86		5.86	11.6	3.91	3.15	2.89	2.35	2.21	2.18	2.32	2.59	2.84	
SAMPLE	2116												7	7	7	7		- 1	- 1	-	7	7	7	7		:	SAMPLE	71	- 1	- 4	0 4	0 0	9	9	9	9	2	2		<b>~</b> u	0 4	ο.	٥.	01	- 1	-	- 1	- 1	7	1	
TIME	- 0		,	02.0	, .	, ,	, ,	, (	, (	,	06.0	1.00	0.0	0.10	0.20	. 0	, ,	100	,	9	0	0	06.0	1.00		2	INE		-	0		0.4	W 0.50	0.6	0.7	0.8	6.	0		0.0		7.0	0.0	5 0	0.50	9.0	0.0	0.8	6	0	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 to Panel controller at +10.0, +10.0, +15.0 and returns. Right hand remains at Side-Arm controller at +7.0, -10.0, +5.0.

MOTICN NUMBER - 22240 BACK ANGLE - 65

SUB-MOVEMENT		N STD GEV	A		1 0	
		אום חוג		X	KANGE	
LEFT FWD	0.50	0.14	0.40 10	10	0.80	SECS
LEFT REV	0.46	0.16	0.20	10	0.20 TO 0.70 SECS	SECS

	OVED	TO C		0.29	0.33	0.43	64.0	99.0	0.66	0.71	0.78	0.84	0.0	0.05	60-0	0.15	0-23	0.28	0.32	0.35	0.37	0.43	0.50		03/01	300		0.32	0.57	0.65	0.78	1.07	1.17	1.35	1.46	2.17		0.0	7.00	000	0 0	14.0	1000	0.90	1.01	1.08	1.17
	DISTANCE	NON C		0-13	0.04	0.10	90.0	0.15	0.02	0.05	0.07	90.0	0.0	0.05	0.03	0.07	0.07	0.05	0.04	0.04	0.01	90.0	70.0		DISTANCE	O CN		0.32	0.25	0.08	0.12	0.29	0.10	0.18	11.0	0.33		2000	-	4 0	-	4 0	-	0.10	7	0	0
	(	95 PCT	21.68	21.72	21.81	21.87	21.73	21.68	21.67	21.69	21.76	21.84	21.84	21.66	21.58	21.70	21.73	21.71	21.66	21.66	21.59	21.60	21.69			r	1 4	. 4	3	4	4	4	4	4.	4 .	13.94	-	14.00	14.07	14-14	14.24	14.30	14.21	14.37	14.46	14.47	14.57
	NIC		חח	19.13	9	9	9	9	9	19.03	19.01	16.00	19.00	19.10							19.20				0	, "	11.36	11.96	12.10	11.98	12.01	12.21	11.87	11.85	06.11	12.16	12 16	11.93	11.72	11.65	11.69	11.71	11.77	11.64	11.68	11.60	11.36
	- 30-0R	SE	0.76	0.79	0.82	0.84	0.77	0.82	0.81	0.81	0.84	0.87	0.87	0.78	0.75	0.80	0.81	0.81	0.78	0.78	0.73	0.73	0.78		- CO-OR	) u	0.98	0.65	0.59	99.0	0.64	0.62	0.87	0.83	0.0	0.0	44	0.63	0.71	0.76	0.78	0.79	0.74	0.83	0.85	0.87	0.98
	7)	A U	4	20.42	4.0	0.5	. 0	0.3	0.3	0.3	0.3	20.45	4.0	20.38	0.3	0.3	4.0	0.3	0.3	0.3	20.39	4.0	4.0		()	MEAN	12.96	13.33	13.30	13.37	13.05	13.23	13.30	13.20	12.12	13.05	13.15	12.96	12.30	12.90	12.96	13.30	12.39	13.33	13.37	13.33	12.96
1.	[	3 5 PC I	3.07	2.93	2.85	3.02	3.28	3.20	3.14	3.10	3.02	3.10	3.10	3.14	3.18	3.18	3.18	3.15	3.10	3.08	3.13	3.19	3.25	23		PC T	14	.41	.32	.38	. 25	.13	.53	040	07.	4.16	16	40.4	3.99	4.12	4.46	4.65	14.4	4.37	4.24	4.13	4.14
•	ID INATE	2 761	0.28	0.37	0.42	0.42	0.26	0.26	0.30	0.41	09.0	64.0	65.0	0.38	0.37	0.43	0.38	0.45	0.43	0.37	0.31	0.27	0.31	_	TANTO		-4-43	-4.32	04.70	-4.86	64.4-	04.4-	-4.66	20.4-	07.41	-4.13	-4-13	-4.01	-3.84	-4.00	-4.39	-4.55	-4.46	-4.43	-4.45	04.4-	-4.43
	- CO-OR	0 9	0.85	0.77	0.74	0.80	0.92	0.00	0.87	0.82	0.74	0.19	0.79	0.84	0.86	0.84	0.85	0.82	0.81	0.83	0.86	0.89	06.0	ALE	- CO-OR	ш	2.61	2.36	2.45	2.51	2.36	2.30	2.50	64.9	2 20	2.53	2.53	2.45	2.39	2.48	2.70	2.81	2.72	2.69	2.65	2.60	2.61
- NASION	λ)	1 7 B	1.67	1.63	1.64	1.72	1.77	1.73	1.72	1.75	1.81	1.80	1.80	1.76	1.78	1.80	1.78	1.80	1.77	1.73	1.72	1.73	1.78	- CERVIC	()	MEAN	-0.14	-0.45	69.0-	-0.74	-0.62	-0.63	-0.57	70.01	100	0.02	0.02	0.02	0.07	90.0	0.03	0.05	00.00	-0.03	-0.10	-0-13	-0.14
LANDMARK	(	-15.98	-15.93	-15.83	-15.71	-15.69	-15.88	-15.86	-15.75	-15.66	-15.72	-15.85	15.	-15.88	5	5.	5.	5.	2	5	-16.03	.9	-15.98	ANDMARK	(	S	æ	æ	œ	$\alpha$	æ	œ	oo r		- a	-18.29	-18.29	-18.17	-17.92	-18.24	-18.38	-18.25	-18.03	-17.77	-17.85	-18.19	-18.32
	RDINATE-	O	0	00	9	0	m	8	<b>a</b>	0	9	-19.07	-19.07	-19.03	-10.01	-19.12	-19.23	-19.34	-19.33	-19.14	-10.00	-19.08	-19.25	_	RDINATE-	5 PCT	-19.43	-19.30	-19.11	-19.07	-19.22	-19.70	-19.69	10 50	-10 61	-20.08	0	-19.88	6	6	6	6	6	6	6	6	6
	0-00 -	0		0.94									0.98										1.00		0-0		.34	.28	.22	.23	. 33	14.	64.	0 0	40		0.54	0.52	0.58	0.41	0.41	0.47	64.0	0.59	0.57	0.39	0.34
	1 1	-17.62	17.		17.	17.	11	17.	17.	17.	17.	17.	-17.46	7.	2	7.	2	-	-		-	-	-		X)	MEAN	8	8	8	8	8	00	00 0	o a	) α	-19.17	9.1	-19.03	8.8	8.9	0.6	9.0	8.8	8.7	3.7	9 9	3 . 8
	SAMPLE	71	7	7	7	7	- 1	-	7	7	7	7	7	1	7	7	7	7	7	7	7	_	7		SAMPLE	SIZE,N	7	1	7	7	7	_	- 1	- 1	1	_	7	1	1	7	7	7	7	7	-	7	1
	TIME	0.0	0.10	0	0	R 0.40	0	0	0	0	06.0	1.00	0.0	0.10	0.2	0.3	0.4	0.5	9.	0.1	0.8	6.	0		TIME	-	0	0.1	0.2	0.3	0.4	0.5	0 0	. 8	0	1.00	0.0	0.10	.2	0.3	0.4	0.5	9.0	R 0.70	0.8	6.	0

22240165
NO.
HVHT

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	MOVED	NO.	0.13	0.26	0.31	0.40	0.54	0.59	0.68	0.74	0.83	0.89	0.0	0.19	0.33	0.48	0.63	0.95	1.06	1.07	1.16	1.20	1.27		MOVED	NO U	0.0	0.30	0.57	0.78	96.0	1.16	1.37	1.57	1.71	2.20	2.72	0.0	0.45	0.92	1.19	1.43	1.54	1.65	1.76	1.84	2.06	2.29
	DISTANCE	INCR	0.0	0.13	0.05	60.0	0.13	0.05	60.0	90.0	0.10	90.0	0.0	0.19	0.15	0.15	0.15	0.32	0.12	0.01	0.09	0.05	90.0		DISTANCE	INCR	0.0	0.30	0.27	0.21	0.19	0.20	0.21	0.50	0.14	64.0	0.52	0.0	0.45	14.0	0.27	0.23	0.11	11.0	0.11	0.08	0.22	0.23
		95 PCT	14.56	14.57	14.67	14.79	14.66	14.61	14.60	14.60	14.60	14.64	14.64	14.64	14.66	14.74	14-71	14.64	14.54	14-49	14.53	14.54	14.57		(	95 PCT	12.61	12.13	11.74	11.71	11.85	11.81	11.80	11.96	12.18	12.42	12.68	12.68	2	2	2	2	2	2	2	12.27	2	2
		5 PCT											13.08	13.05	13.04	13.05	13.18	13.22	13.28	13.33	13.31	13.28	13.25		IC	N	10.69	10.69	10.57	10.48	10.45	10.69	10.11	10.78	10.72	10.61	10.41				0	0	0	0	0	10.84	0	0
	0-00 -	SE	0.41	0.40	0.47	0.56	0.47	0.46	0.44	0.45	0.43	0.48	0.48	0.49	64.0	0.52	0.47	0.43	0.38	0.35	0.37	0.38	0.40		- 60-03	SE	0.59	0.44	0.36	0.37	0.42	0.34	0.31	0.36	0.44	0.55	0.67	19.0	0.62	0.55	0.45	0.45	0.41	0.43	0.44	0.44	0.49	0.59
	7-	MEAN			3.91								13.86	13.84	13.85	13.89	13.95	13.93	13.91	13.91	13.92	13.91	13.91		7)	MEAN	11.55	11.41	11.16	11.09	11.15	11.25	11.29	11.37	11.45	11.52	11.58	11.58	11.52	11.54	11.63	11.64	11.62	11.58	11.55	11.55	11.51	11.55
( 3)	(	95 PCT	2.61	2.36	2.26	2.39	2.63	5.66	2.67	2.78	2.77	2.80	2.80	2.55	2.67	2.95	3.08	3.13	3.14	3.29	3.31	3.09	2.97	3	(	95 PCT	8.61	8.67	8.71	8.26	8.63	8.75	8.52	8.38	8.43	8 - 86	10.17	10.17	61.6	8 . 48	8.54	8.56	8 • 45	8.41	8.55	8.65	8.62	8.61
		5 PCT	-2.15	-2.05	-2.06	-2.03	-2.00	-2.02	-2.20	-2.38	-2.29	-2.24	-2.24	-2.33	-2.67	-2.97	-2.86	-2.52	-2.45	-2.61	-2.76	-2.52	-2.32			5 PCT	7.27	7.04	06.9	6.98	6.56	9.9	6.83	1.01	7.03	6.08	4.31	4.31	5.81	7.17	7.32	7.07	7.15	7.07	96.9	6.78	6.98	7.27
FERNALE	- CO-OR	SE	1.45	1.34	1.32	1.35	1.41	1.43	1.49	1.57	1.55	1.54	1.54	1.49	1.63	1.81	1.81	1.72	1.70	1.80	1.85	1.71	19.1	NO.	- CO-ORU	SE	0.41	0.50	0.55	0.39	0.63	0.64	0.52	0.42	0.43	0.65	1.79	1.79	1.03	0.40	0.37	0.45	0.39	0.41	64.0	0.57	0.50	0.41
- SUPRASTERNAL	١)	MEAN	0.23	0.15	0.10	0.18	0.32	0.32	0.23	0.50	0.24	0.28	0.28	0.11	0000	-0.01	0.11	0.31	0.35	0.34	0.28	0.29	0.33	Jase Ti -	١)	MEAN	7.94	7.85	7.81	7.62	7.59	1.69	7.67	1.10	7.73	1401	1.24	7.24	7.50	7.82	7.93	7.81	7.80	7.74	7.75	7.72	7.80	1.94
LANDMARK	1	95 PCT	-13.22	-13.01	-13.00	-13.12	-13.18	-13.06	-12.97	-12.95	-13.00	-13.00	-13.00	3.	-13.56	8	-13.20	-13.01	3.	2	2.	3	-13.36	200	[	95 PCT	-15.74	-16.38	-16.85	-16.76	-16.24	-16.05	-15.90	-15.99	-16.05	-15.06	-13.66	-13.66	-	-15.68	-15.77	-15.79	-15.79	-15.82	-15.77	-15.79	-15.83	-15.74
	ROINATE-	5 PCT	-16.52	-16.52	-16.50	-16.43	-10.39	-10.45	-16.52	19.91-	-16.73	-16.78	-16.78	-16.34	-16.58	-16.97	-17.11	-16.80	-16.48	-16.62	-16.77	-16.64	-16.53		RDINATE-	5 PCT	-18.72	-18.37	-18.08	-18.03	-18.19	-18.10	-17.84	-11.39	-17.10	87-11-	-11.15	-17.75	-17.30	-17.13	-17.56	-17.93	-18.16	-17.95	-17.80	-17.92	-18.27	-18.72
	0	SE 0.97		1.07		•	•	•	•	•	•	•	1.15		•	•	•								0-0	S							0.59					1.25								0.65		
	X)	MEAN -14.95	•	4	•	•	æ,	æ.	<b>.</b>	J.	<i>3</i> ° '	•	-14.89	4	2	S	2	4	4	*	4	*	-14.95		X)	MEAN	-17.23	-17.38	-17.46	-17.39	-17.22	-17.08	-16.87	60.01-	-16.58	11.01-	-15.70	-15.70	-16.07	-16.41	-16.66	-16.86	-16.97	-16.88	-16.78	-16.85	-17.05	-17.23
	SAMPLE	SIZE,N	7	7	7		- 1	- 1	- 1	- 1	- 1	-	7	7	7	7	1	7	7	7	7	7	7		SAMPLE	SIZE,N	9	9	9	7	7	7	- 1		0 .	0 .	0	9	9	9	9	9	9	9	9	9	9	9
	TIME	0.0	0.10	0.20	0.30	0.40	00.00	0000	0.00	08.0	06-0	1.00	0.0	01.0	0.20	0.30	0.40	0.50	09.0	0.70	0.80	06.0	1.00		TIME		0	7	.2	.3	4.	. 5	0.60		8	. 0	0	0	-	2.		4.	.5	9.	-	0.80	6	0

			_	LANDMARK	- LT GRIP CENTER	P CENTER		(11)			
SAMPLE	X)	- 60-01	ROINATE	(	\)	- CO-OR	D INATE-	(	7)	- C3-0R	DINA
SIZE,N		SE	5 PCT	95 PCT	MEAN	SE	5 PCT	35 PCT	MEAN	SE	2
4	5.28	1.75	2.42	8.15	11.31	0.71	10-14	12.48	5.89	0.40	5
4	5.28	0.98	3.67	6.89	10.79	17.0	9.53	12.05	7.20	0.84	5
7	5.54	0.49	4-74	6.35	10.56	0.73	9.36	11.76	9.85	3.09	4
7	5.27	0.37	4.67	5.87	10.25	0.62	9.23	11.27	11.57	2.52	7.
7	5.02	0.42	4.33	5.71	10.11	0.45	9.37	10.85	13.25	2.15	6
7	5.19	0.39	4.55	5.83	10.19	0.32	9.67	10.71	14.30	1.89	11.
7	5.82	0.64	4.77	6.87	10.30	0.34	9.73	10.86	14.90	1.72	12.
7	6.68	0.63	5.63	7.72	10.42	0.40	77.6	11.08	15.17	1.39	12.
7	7.42	0.64	6.37	8.47	10.57	0.53	9.71	11.44	15.33	1.12	13.
9	7.66	0.49	6.85	8.47	10.72	0.74	9.51	11.92	15.34	0.89	13.
9	8.05	0.58	7.10	00.6	10.97	0.93	0.93 9.44	12.50	14.88	0.78	78 13.
9	8.05	0.58	7.10	9.00	10.97	0.93	44.6	12.50	14.88	0.78	13.
5	7.34	0.86	5.93	8.75	10.84	0.91	9.35	12.32	14.20	0.97	12.
9	6.71	0.98	5.10	8.32	10.57	0.77	9.30	11.83	13.82	1.21	11.
9	5.97	0.80	4.67	7.28	10.45	47.0	9.24	11.67	12.80	1.03	11.
9	5.63	0.83	4.26	66.9	10.50	0.74	9.29	11.71	11.57	0.87	10.
9	5.65	1.04	3.94	7.36	10.62	0.82	9.28	11.96	10.23	0.68	6
9	5.85	1.30	3.71	7.99	10.86	0.81	9.53	12.18	8.95	0.43	8
9	5.88	1.43	3.54	8.22	11.01	0.74	9.80	12.22	7.81	0.30	7.
9	5.89	1.53	3.39	8.40	11.15	69.0	10.02	12.28	6.35	0.41	.9
4	5.25	1.56	2.70	7.80	11.20	0.75	9.97	12.42	9 + 9	0.34	5.
4	5.28	1.75	2.45	8.15	11.31	0.71	10.14	12.48	5.39	0.40	5
			-	LANDMARK	- LT TROCHANTER	CHANTER		(161)			
SAMPLE	X)	1	RDINATE-	(	١)	- CO-OR	D INATE-	(	7)	- C0-08	DINA
SIZE,N	MEAN		SE 5 PCT	6	MEAN	SE	SE 5 PCT	95 PCT	MEAN	SE 5 P	5 P
9		0.52	0.29		7.10	1.26	5.04	9.17	2.88	0.55	1.
9	1.58	0.48	0.79		6.88	0.85	5.48	8.28	2.91	0.54	2.
7	1.76	0.87	0.34		6.63	0.64	5.58	7.68	3.30	0.48	2.
9	1.94	0.72	0.76		6.55	0.82	5.20	7.93	2.94	0.47	2.
9	1.81	0.73	0.61	3.01	6.68	0.85	5.29	8.07	2.91	0.45	2.
9	1.71	0.79	0.41		6.67	0.87	5.24	8.09	2.38	0.44	2.

TOXXAKO

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116.17 115.80 116.49 11.35 11.35 7.55 7.55

95 PCT 6.55 8.58 14.92 115.69 117.17 117.17 16.49

MOVED	100	0.0	64.0	0.81	1.02	1.21	1.31	1.46	1.54	1.61	1.72	1.79	0.0	0.18	0.36	0.48	0.56	0.66	0.80	1.22	1.29	1.32
DISTANCE	INCR	0.0	0.49	0.32	0.21	0.20	0.10	0.14	60.0	0.07	0.10	0.08	0.0	0.18	0.18	0.12	0.08	0.10	0.13	0.43	10.0	0.03
(	95 PCT	3.79	3.79	3.79	3.72	3.64	3.59	3.61	3.53	3.51	3.63	3.82	3.82	3.80	3.71	3.57	3.58	3.61	3.68	3.77	3.82	3.93
DINATE-	5 PCT	1.97	2.03	2.21	2.17	2.18	2.16	2.08	2.15	2.23	2.22	2.10	2.10	2.01	2.08	2.23	2.15	2.14	2.15	5.09	5.09	2.01
- CO-OR	SE	0.55	0.54	0.48	0.47	0.45	0.44	0.47	0.42	0.39	0.43	0.52	0.52	0.55	0.50	0.41	0.44	0.45	14.0	0.51	0.53	0.59
7)	MEAN	2.88	2.91	3.30	2.94	2.91	2.38	2.85	2.84	2.87	2.93	2.36	2.96	2.91	2.89	2.90	2.86	2.87	2.91	2.93	2.30	2.97
[	95 PCT	9.17	8.28	7.68	7.93	8.07	8.09	7.84	7.88	7.78	7.50	7.63	7.63	7.91	8.22	8.10	7.94	8.00	8.04	8.56	8 - 89	9.14
D INATE-	5 PCT	5.04	5.48	5.58	5.20	5.29	5.24	5.25	5.05	5.17	5.48	5.27	5.27	5.31	5.32	5.51	5.78	5.73	5.71	5.71	5.30	5.01
- CO-OR	SE	1.26	0.85	0.64	0.82	0.85	0.87	0.79	0.86	0.80	0.61	0.72	0.72	0.79	0.88	0.79	0.66	69 0	0.71	0.87	1.09	1.26
١)	MEAN	7.10	6.88	6.63	6.55	6.68	19.9	6.55	14.9	6.48	6.49	6.45	6.45	6.61	6.77	6.80	6.86	6.87	6.87	7.13	7.10	7.08
(	95 PCT	2.01	2.37	3.18	3,13	3.01	3.01	2.17	2.50	2.57	3.00	3.58	3.58	3.20	3.04	2.76	2.58	2.62	2.72	3.06	2.63	2.20
DINATE	5 PCT	0.29	0.79	0.34	0.76	0.61	0.41	0.51	0.73	0.78	0.53	0.07	0.07	0.30	0.29	0.34	0.59	0.76	0.41	-0.61	-0.28	0.12
- 00-09	SE	0.52	0.48	0.87	0.72	0.73	0.79	0.69	0.54	0.54	0.75	1.07	1.07	0.88	0.84	0.74	0.61	0.56	0. 70	1.12	0.89	0.63
X)	MEAN	1.15	1.58	1.76	1.94	1.81	1.71	1.64	1.61	1.68	1.76	1.82	1.82	1.75	1.66	1.55	1.59	1.69	1.57	1.23	1.18	1.16
SAMPLE	SIZE, N	9	9	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
TIME	-	0.0	0.10	0.20	0.30	0.40	0.50	0.60	0.10	0.80	0.00	1.00	0.0	0.10	0.20	0.30	0.40	0.50	0.60	0.10	0.80	06.0

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MOVED	MOD	0.0	0.14	0.31	0.59	0.71	0.80	0.98	1.06	1.17	1.23	1.30	0	0	00.0	41.0	61.0	0.24	0.28	0.40	0.43	14.0	0.61	0.77		MOVED	1	0	0.30	0.55	0.74	0.92	1.15	1.41	1.75	5.06	2.27	2.52	0.0	0.25	0.49	0.76	0.98	1.16	1.30	1.42	1 1.1.	-	***
DISTANCE		0.0	0.14	0.17	0.27	0.12	0.10	0.17	0.08	0.11	0.06	0.07	0		000	50.0	0.08	0.04	0.05	0.11	0.03	0.04	0.15	0.16		DISTANCE	INT	200	0.30	0.25	0.19	0.18	0.23	0.26	0.34	0.31	0.21	0.25	0.0	0.25	0.24	0.27	0.22	0.18	0.14	0.11			20.0
(	95 PCT	13.73	13.78	13.73	13.53	13.58	13.57	13.62	13.61	13.83	13.79	13.79	13.70	יו ר	13.12	<i>u</i> (		140	C.J	4	m	m	m	13.73		[	OF DCT	12.04	11.70	11.35	11.54	11.85	11.84	11.93	12.03	12.14	12.21	12.45	~	2	2	2	11.98	-	-	-	r	١	٧
NIO	5 PCT	5.64	5.52	5.57	90.9	6.04	5.98	5.81	5.87	5.51	5.52	5.47	4. 47		7.00	0.00	5.53	5.52	5.49	5.50	5.52	5.55	5.58	5.64				9-79	96.6	10.25	10.38	10.37	10.54	10.54	10.63	10.68	10.76	10.76	10.76	10.58	10.31	10.15	10.14	10.11	10.10	10.01	70 0		7. 70
- CO-OR	SE	2.47	2.52	2.49	2.28	2.30	2.32	2.38	2.36	2.54	2.52	2.54	2.54		16.7	24.7	5.49	2.50	2.53	2.51	2.49	2.48	2.48	2.47		- C0-08	9 4	0.69	0.52	0.33	0.35	0.45	0.40	0.43	0.43	0.44	94-0	0.51	0.51	0.54	0.61	0.61	0.56	0.55	0.55	0.61	0.64		
7)	MEAN	69.6	9.55	9.65	9.80	9.81	11.6	9.71	9.74	19.6	9.66	69.63	0.63		7000	7.09	70.6	69.63	9.64	9.62	09.6	19.6	9.65	69.6		(/	MEAN	10-01	10.84	10.80	10.36	11.11	11.19	11.24	11.33	11.41	11.51	11.59	11.59	11.46	11.31	11.16	11.06	11.04	11.00	11.30	11.20		20044
•	95 PCT	7.50	7.34	7.21	6.94	7.01	7.00	7.17	7.08	7.32	7.44	7.25	7.25	7 33	76.1	(000	1.1	7.85	7.74	7.47	7.31	7.26	7.32	7.50	( 23)		0 5 PC T	10	8 . 81	8 . 72	8.55	8.51	8 • 65	9.01	9.23	9.45	09.6	41.6	41.6	54.6	9.48	9.39	9.32	9.24	9.14	9.12	0.10		1 4 4 7
DINATE-	5 PCT	3.58	3.62	3.67	3.50	3.55	3.74	3.81	3.81	3.60	3.53	3.62	2.62	2000	3.00	0.0	16.6	3.45	3.44	3.67	3.81	3.94	3.83	3.58		ORD INATE	S DCT	1.81	7.82	7.48	7.51	7.73	7.83	7.62	7.53	7.49	7.31	6.97	6.97	7.19	7.28	7.56	7.69	7.81	7.75	7.56	7.51		4700
- CO-ORD	SE	1.19	1.13	1.08	1.05	1.05	66.0	1.02	1.00	1.13	1.19	1.11	11.11	1 1 2	1017	17.1	87.7	1.35	1.31	1.16	1.07	1.01	1.06	1.19	SHOULDER CENTER	- 00-0	4	0.46	0.30	0.38	0.32	0.24	0.25	0.45	0.52	0.59	0.10	0.85	0.85	69.0	19.0	0.56	0.49	0.44	0.43	0.48	0.51		4/00
(	MEAN	5.54	5.48	5.44	5.22	5.28	5.37	5.49	5.44	5.46	5.48	5.43	5.43		01.0	0.0	10.6	5.63	5.59	5.57	5.56	5.60	5.58	5.54	- LT SHO	λ)	MEAN	8.57	8.31	8.10	8.03	8.12	8.24	8.32	8.38	8.46	8.46	8.35	8.35	8.32	8.38	8.48	8.51	8.52	8.44	8.34	A. 35		1100
[	95 PCT	19.34	19.60	19.76	19.63	19.71	19.64	19.65	19.61	19.83	19.83	18.61	19.81	1000	60067	19.67	61 -61	19.85	19.61	19.84	19.99	20.01	19.68	19.34	ANDMARK		OS PCT	-13.33	-13.74	-14.06	-14.16	-14.15	-14.19	-13.73	-13.54	-13.11	-12.95	-12.64	-12.64	-12.79	-12.78	-12.99	-13.05	-13.04	-13.25	-13.22	-13.13		14004
RDINATE	5 PCT	15.32	15.29	15.47	15.43	15.14	15.22	15.43	15.60	15.53	15.43	15.35	15.35	16 37	13.61	17.61	12.20	15.19	15.29	15.34	15.24	15.22	15.27	15.32	_	DINATE	S PCT	-15.89	-15.76	-15.69	-15.72	-15.66	-15.27	-15.23	-14.78	-14.63	-14.42	-14.32	-14.32	-14.58	-14.95	-15.14	-15.46	-15.82	-15.85	-15.95	-16.01		40004
20	SE	1.23	1.31	1.31	1.28	1.39	1.35	1.29	1.22	1.31	1.34	1.36	1. 36		1.40	7 . 40	1.38	1.41	1.34	1.37	1.45	1.46	1.34	1.23		9-0-	H.	18	52	0.50	48	94	33	94	8	46	45	21	0.51	0.54	0.66	0.66	0.73	0.85	0.79	0.83	0. A.A		200
X)	A	17.33	17.45	17.62	17.53	17.43	17.43	17.54	17.61	17.68	17.63	17.58	4	\ u	17 55	0 1	ů	5	4	'n	0	9	4	17.33		X)		-14.61	-14.75	-14.88	-14.94	-14.91	-14.73	-14.48	-14.16	-13.87	-13.69	-13.48	-13.48	-13.69	-13.86	-14.06	-14.26	-14.43	-14.55	-14.59	-14.57		
SAMPLE	SIZE.N		9	9	7	1	1	7	_	9	9	•	4	0 4	0 4	0 4	0	•	9	9	9	9	9	9		AMPLE		7		1					•				7	_	7	7	1	7	7	7	-		
IME	-	0.0	0.10	0.20	0.30	0.40	0.50	0.60	0.10	0.80	0.00	1.00	0.0		200	0000	0.30	0.40	0.50	0.60	0.10	0.80	0.00	1.00		TIME	-	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	0.00	1.00	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80		

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E M	0	0	0 •	<b>-</b> C	4 6	n 4	r u	n u	n •	0 40															Y												1		o,	1.	5.	3.	*	2.	5	. 9	7.	7.	00
DISTANC	0	.5	ů,	47.0	0	2		- 0	0 1	0.52		0	66.0	1.13	1.47	1.05	0.84	0.32	0.26	0.24	0-22	0-19			DISTANC	1	0-0	16.0	1.45	1.79	1.86	0.47	1.08	0.81	0.71	0.42	0.48	0	0.	1.14	11-1	1.04	0.99	66.0	19.0	0.68	0.57	0.52	0.52
95 PCT	7.65	7.77	1.84	80.8	10.52	11.17	12.50	12 21	12 01	13.18		13.18	12.33	11.38	9.78	9.05	8.54	8.33	8.22	8.06	7.87	7.65			(	95 PCT	90.9	8.06	10.89	12.68	14.82	14.90	15.37	15.75	16.09	16.42	14.83	1,000	CO. + 1	72.67	12.10	11.67	10.79	10.01	9.45	8.58	1.69	6.72	90.9
0 %	3.00	3.29	5.03	4.65	5.34	50.00	6.63	7.35	000	8.53	5	0.00	1.63	10.0	5.11	4.89	4.02	3.61	3.24	3.05	3.04	3.00			DINATE	5 PCT	5.62	5.22	5.10	6.84	8.25	7.41	8.89	9.82	10.53	13.72	11.49	11 40	10 00	70.40	71.6	9 0 0 0	18.	0.11	6.62	6.20	5.95	5.94	5.62
8	1.42	1.37	1 27	1.41	1.58	1.59	1.79	1.51	1.65	1.42	, ,	74-1	1.43	C 4 - T	1.22	1.27	1.38	1.44	1.52	1.53	1.47	1.42			S	SE	0.13	0.86	1.76	1.78	2.00	2.28	1.98	1.81	1.70	1.74	1.02	1 02	1.07	100	4 4 4	000	0.89	1.02	0.86	0.73	0.53	0.24	0.13
(Z	5.33	5.53	200	96.9	7.93	8.56	9.56	0.83	10-47	10.85	9		200	00.1	81.	16.9	6.28	2.37	5.73	5.56	5.45	5.33			7)	MEAN	5.84	6.64	7.99	9.76	11.54	11.16	12.13	12.78	13.31	13.57	13.16	13.16	12.14	11.21	10.27	10.01	2000	0.00	40.8	7.39	78.9	6.33	5.84
95 PCT		, ,	9 10		3	3					12 17	1000	12 63	70.07	13.55	13.12	13.92	14.09	14.26	14.26	14.05	13.93	177		(	95 PCT	13.29	12.13	12.07	11.63	11.64	11.75	11.98	12.40	12.81	13.12	13.41	13.41	13.33	13.31	12.20	12.07	13 61	10.01	12.35	12.31	12.68	12.97	13.23
D INATE-	12.09	11.14.	10.99	11.38	11.70	11.68	11.63	11.47	11.39	11.21	11, 21	1100	11.04	12	17.71	14.71	12.39	12.28	12.16	12.06	12.10	12.09	~		U INATE	5 PCT	11.12	11.36	10.80	10.81	10.86	10.42	10.49	10.46	10.36	10.18	10.00	10.00	9.89	10.02	0.03	04	00.0	11 00	08.11	11.63	17.11	17.11	11.12
- CO-ORD	0.56	0.80	0.81	0.64	0.47	0.42	0.37	0.37	0.29	0.29	0.29	0 56	77.0			01.0	14.0	0.55	9.0	19.0	0.59	0.56	ST CENTER		- CO-OR	SE	99.0	0.23	0.39	0.25	0.24	0 - 40	0.45	0.59	0.75	0.00	1.04			•			•	•		17.0			
MEAN	13.01	12.34	12,31	12.43	12.48	12.37	12.25	12.08	11.86	11.69	11.69	11.96	12.36	12 02	13 04	10.00	13.13	87.61	13.21	13.16	13.07	13.01	- LT WRI	,	1	MEAN	12.21	11.74	11.44	11.22	11.25	11.09	11.24	11.43	11.59	11.65	11.70	11.70	11.61	11.67	11.66	11.59	11.52	2000	11 07	11 07	12.77	12.09	12.21
95 PCT	15.00	-6-26	-6.03	-5.87	-5.35	-5.10	-3.93	-4.39	-4.12	-3.77	-3.77	-3.85	-3.93	24.4-	15.14	11.7	10.40	10.40	15.51	-5.53	-5.49	-5.35	ANDMARK			95 PCT	5.81	5.45	4.78	4.69	4.87	4.83	5.26	5.37	5.14	6.10	6.13	6.13	5.30	4.85	4.66	4-65	08.4	5 17		5 21	10.0	0.00	2.81
DINATE	71.8-	-7-54	-7.25	16.9-	-6-44	-6.00	-5.92	-5.08	42.4-	14.4-	14.47	-5-11	- 5.86	-6.45	-7 22	7007	000	16.11	01-8-	-8.39	-8.77	-9.17	7	444	LINALETT	> PCI	0.51	0.30	0.15	0.68	1.57	2.07	2.51	3.28	3.81	4.11	4.58	4.58	4.40	3.66	2.98	2.40	1.67	1.08	200	7.00		0.00	14.0
- CO-OR	0.66												0.59												) (	~	•			1.22	•							0.47	0.27	0.36	0.51	69-0	0.96	1.25	1.37	1.45		1 63	70.1
HEAN	7.07	-6.90	-6.64	-6.39	-5.90	-5.55	-4.93	41.4-	-4.43	-4.12	-	-	-4.93	15	1	4	9 6		n	0 1		2.		,		NATIO	3.10	18.7	14.7	2.69	3.22	3.45	3.89	4.33	0	2.11	5.36	.3	8	2.	80	.5	2	-	10	2.93			
SAMPLE	- 1	_	7	7	1	1	7	7	9	9	9	9	9	7	7		- 1	- 1	- 1	- 1	- 1	_		AMD	2777	175	<b>n</b> (	n .	\$ .	4	+ 1	n 1	Λ I	n 1	<b>n</b> u	n 4	0	5	4	4	+	4	4	-	) M	חת	) ~	) ((	1
TIME	0.10	0.2	0.3	R 0.40	0.5	9.0	0.7	0.8	0	0	0	7	0.20	0.3	0.4	0 . 5	0	0 0	- 0			0		TIME	+			1.0	2.0	00.30	0 0	0	0 0	000	0 0		2	0.0	0.10	0	0	0	0	0	0	N 0.80	0	1.00	•

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 TO HATCH RELEASE CONTROLLER AT -5.0, -13.0, +15.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +7.0, +10.0, +5.0.

MOTICN NUMBER - 12160 BACK ANGLE - 65

	0.70 TO 1.00 SECS.	0.70 TO 1.00 SECS.
RANGE	1.00	1.00
RAN	10	10
A	0.70	0.70
EAN STD DEV	0.13	0.13
MEAN	0.84	0.83
SUB-MOVEMENT	RGHT FWD	RGHT REV

	-	0	N	7	V	4 0	7 6	"	7	7	7	7	2	2	2	2	1	10	10	10	10	9 0	00	V 1	2		1	6	-	-		_	_	_			_	_	_	1	- •					,					
	DINATE	5 PCT	19.68	19.53	19.41	17.45	19.35	16.41	19.36	19.51	16.34	19.36	16.31	19.31	19.26	6	19.27	0	19.44			10.61	14.03	19.45	19.68		ADINATE-	E 5 PCT	12.23			12.04									-	vι	A L	A 1	v	N I	14	12.34		4 (	-
	- CO-ORDI	SE	0.60	0.16	0.76	0.00		0.0	0.16	0.78	0.76	41.0	0.80	0.80	0.82	0.82	0.84	0 0	72.0	9 0		0.0	0.00	0.13	09.0		- 00-0	S C	0.69	0.70	0.76	0.75	0.73	0.10	0.63	0.73	0.81	99.0	0.80	,	0.80	0.00	0.10	0.0	19.0	0.61	0.85	0.65	0.60	11.0	69.0
	7)	MEAN	50.66	20.17	20.71	40.07	20.51	20.36	79.07	20.54	20.59	20.58	20.52	20.62	20.50	20.54	20-54	20 64	20.58	000	20.02	20.02	70.07	20.54	20.56		()	A		-	3	13.27	3 3	3.3	3.4	*	3.5	3.3	3.2		3.5	13.26	3.6	3.3	3.3	3.3	13.63	13.41	13.35	3.4	3.3
1	(	95 PCT	0.54	0.34	0.30	0-13	0-0	0.14	0.02	-0.05	-0.05	0.30	0.11	0.11	0.35	0.15	010		26	0 0	20.00	0.21	0.31	94.0	0.54	(2)		95 PCT	2.84	2.40	2.32	2.16	2.08	2.57	2.46	1.97	2.88	2.25	2.60		2.60	2.19	2.12	2.43	2.02	2.14	2.56	2.03	2.15	2.37	2.84
-	DINATE	5 PCT	-4.88	4.52	-4.85	-2.06	76.4-	-4.19	48.4	-5.00	-5.05	-5.41	-5.06	-5.06	-5.17	-4.01	14.75	1	74.02	7106	10.41	-4-10	-4.68	-4.86	-4.88		OBO INATE-	5 PCT	13.15	-2.74	-2 84	12.04	-2.66	-2.55	-2-70	-2.63	-2.82	-2.66	-2.64		-2.64	-2.52	-2.30	-2.55	-2.73	-2.94	-3.09	-2.63	-2.55	-2.62	-3.15
	- CO-ORD	SE	1.65	1.48	1.57	1.58	1.51	1.50	1.48	1.52	1.52	1.74	1.58	1.58	1.68	1 54	1	4.04	1 61	10.1	\$ :	1.51	1.52	1.62	1.65	ALE	20-02	5 4	1 83	1 56	200	1.63	1 44	1.56	1.57	1.40	1.74	1.50	1.60		1.60	1.44	1.35	1.54	1.45	1.55	1.72	1.42	1.43	1.52	1.83
- NASION	١)	MEAN	-2.17	-2.09	-2.28	-2.46	-2.47	-2.32	-2.41	-2.51	-2.55	-2.56	-2.47	-2.47	-2.41	2 20	2 20	07.7	47.7-	67.7-	-2-10	-2.21	-2.19	-2.20	-2.17	- CERVICALE	>	2 4 4	TA CA	7101	10.01	07.0	1000	0.0	-0-12	-0-33	0.03	-0.20	-0.02		-0.02	-0.16	60.0-	-0.03	-0.35	-0.40	-0.27	-0.30	-0.20	-0.12	-0-15
LANDMARK		95 PCT	-15.38	-15.29	-15.22	-15.13	-15.24	-15.33	-15.23	-15.42	-15.36	-15.21	-15.44	-15.44	-15 33	16 33	76 - 67 -	17.61-	-15.15	-15.48	-15.33	-15.41	-15.36	-15.39	-15.38	LANDMARK		100 30	70 60	-17 34	47011-	-16.94	04017	-17 66	117 30	-17.12	-17.01	-17.23	-17.25		-17.25	-17.34	-17.61	-16.85	-17.19	-17.11	-17.40	-17.47	-17.25	-17.34	-17.20
-	-ORDINATE-	5 PCT	-18.95	-18.60	-18.86	-18.87	-19.24	-19.00	-18.98	-18.69	-18.77	-19.03	-18.94	a	10.01	0000	+8-81-	-18.80	-18.95	-18.40	-18.83	-18.51	-18.76	-18.62	-18.95		1	KUINAIET	20 00	10.61-	13.00	10.06	C7 - 61-	17.61	10.01	-10.35	-19.18	-19.02	-18.95		œ	0	9	0	æ	O	9	-18.91	Q.	G.	G.
	- CO-OR	SE	1.09	1.01	1.11	1.14	1.22	1.12	1.14	1.00	1.04	1.17	1.07	1 01	000		10.1	1.08	1.16	0.91	1.07	96.0	1.04	0.98	1.09				S S	0.12	64.0	0.66	0.00	0.00	0000	00.00	00.00	0.55	0.52		0.52	0.55	0.45	0.71	0.46	0.66	0.52	0.44	99.0	0.53	0.72
	X)		-17.16	-16.94	-17.04	-17.00	-17.24	-17.17	-17.10	-17.06	-17.07	-17.12	-17.19		67.17-	66.01-	-17.08	-11.04	-17.05	-16.91	-17.08	-16.96	-17.06	-17.01	-17.16				MEAN	65.81-	-18.04	-18.01	76.81-	-18.26	67.81-	-18.20	18 00	-18.12	-18.10		-18.13	-18.24	-18.35	-18.01	-17.95	-18.19	-18.25	-18.19	-18.33	-18.20	-18.33
	CAMPIF		-										-		- 1	- 1	-	-	1	7	1	1	7	7	_			SAMPLE	SIZEON	-	-	7	-	- 1	- 1	- 1	- 1	- 1	- 1		1	7	7	7	7	7	1	7	7	7	7

LOXXAGO

0.00 0.114 0.004 0.009 0.113 0.013

21.94 21.94 22.95 22.92 21.97 21.92 21.80 21.69 21.69

21.65 22.01 21.65 22.01 21.84 21.88 21.88 21.86 21.86 21.86 21.96

CUM CUM 0.35 0.35 0.85 1.09 1.39 1.53 1.75 1.75 2.18

DISTANCE INCR 0.0 0.35 0.40 0.24 0.22 0.22 0.22 0.22 0.24

14.49 14.47 14.56 14.56 14.55 14.55 14.65 14.45 15.00 14.42

0.0 0.20 0.41 0.76 1.09 1.09 1.88 1.65 1.88 2.06

0.0 0.20 0.21 0.33 0.25 0.31 0.25 0.23

14.58 14.41 14.41 14.47 14.42 114.34 114.47 114.47 114.59

& W - D & Z

HOKBAKO

& W L D & Z

S 12E, N 7		7-0	KUINA		!	3			
	MEA	E	S PC	95 P	MEAN	SE	S PCT	95 PCT	MEAN
~ ~	14.5	-	15.8	13.2	2.5		1.2		* .
1	14.4	. 5	15.3	13.4	0.5		-		4.5
	14.3	.5	15.3	13.4	4.0		1.3		4.4
7	14.3	9.	5.3	3.3	.5		9.1		4.4
_	14.5	. 5	15.5	13.6	4.0		1.3		4.3
1	14.4	. 6	15.5	13.3	0.1		1.2		4.3
7	14.4	9.	15.5	13.4	4.0		1.4		4.4
1	14.3	9	15.4	13.2	4.0		1.3		4.3
1	14.4	9	15.6	13.3	4.0		1.2		4.4
1	14.5	89	15.8	13.1	4.0		1.3		4.3
1	-14.42	0.59	-15.39	13.	0.5	0.65	1.6		
-	7 71	u	2	2 4	2	4	4		
	4	0.73	-15.67	-13.26	-0-30	0.72	-1-48	0.88	14.40
- 1		- 1		200		1			7
- 1	***		0 - 0 1	7 0 0	9 6	. 4	-		1
- 1	14.3			7 9 7		. "	1 .	•	
- 1	14.5	0 1		7907			1 2		7
-	14.4	- 1	12.0	79.5	* .		7.1		
1	14.3	-	15.5	13.1	0.3	0	6.1		* .
1	14.3	9.	15.3	13.2	4.0	*	7.7		* .
7	14.3	-	15.5	13.2	0.3	9.	1.3		*
7	14.4	8	15.7	13.0	0.1	.5	1:1		4.5
7	-14.54	. 7	15.8	13.2	0.2	.5	1.2		4 . 4
				LANDMARK	- RT ACR	ACROMION		(+ )	
AMP	X)	1	ROINAT		λ)	4	NAT	1	1
SIZE.N	AA	T.	5 P.C.	5 P	MEA	ш	2	35 PCT	MEAN
7	17.4	2	20.0	14.8	8.4		0.9	5.	1.6
7	17.6	2	18.4	16-8	7.8		1.6	9	1.6
	17.0	1	8	7.2	-	0-71	8.9	9	5
	18.0	4	18.7	7.3	7.9		9.1	9	1.4
-	18.	-	18.8	17.5	7.9		9.3	9	1.3
-	18.2	4	19.0	17.5	7.6		0.6	9	1.2
-	18.1	. 4	19.2	17.1	7.7		8.9	9	1.2
1	18.1	.5	19.0	17.1	7.8		8.8	. 9	1.2
1	18.0	5	18.9	17.1	7.8		0.6	9	1.3
9	18.1	4.	18.8	17.4	8.0		9.2	9	1.2
9	-18.10	0.52	-18.95	-17.26	-7.91	0.68	0.6	. 9	-
,		u	0	-	0	4	0	8	1.2
0 .	1.01					0		2 4	1
0 1	0.01			:	0 0	. 1	9	4	
- 1	6.11		0 0 0		100	9 0		4	1
-	1.11	0		•		•	4 0		
-	17.7	0	1.81	. 0	00			. 0	1 . 5
-	17.5		10.4	0		0 0			
1	17.3		18.4	9	8		6	0 .	
_	-17.09	0.69	-18.22	-15.97	-8-04	0.78	-9.32	000	11.52
_	17.0		18.2	15.	8.0		2.6	0 .	
7	16.8		17.8	15.	8	-	6.6	0	0.1
1	17.4	.5	20.0	14.	8.4	.5	0.9	2.9	1.5

MOVED CUM 0.16 0.33 0.33 0.34 0.25 1.65 1.82 1.82 0.26 0.36 0.43 0.43 0.43 0.43

11 E

HOKEKKO

0.00 0.026 0.05 0.012 0.006 0.006 0.008 0.118

15.02 15.02 15.03 15.04 15.03 15.15 15.10 15.16

13.61 13.85 13.75 13.87 13.87 13.87 13.89 13.84 13.84 13.84

DISTANCE INCR 0.0 0.1 0.21 0.25 0.29 0.29 0.16

95 PCT 15.07 15.07 15.27 15.27 14.89 14.89 15.00 15.00

CO-OROLNATE— SE 5 PCT O.25 14.08 O.29 14.12 O.54 13.60 O.53 13.53 O.19 14.02 O.39 13.83 O.28 13.83 O.28 13.81 O.28 13.81 O.43 13.61 O.43 13.61 O.43 13.61

.

MOVED CUM 00.50 00.50 11.11 11.11 11.71 11.87 11

TIME

1 T ME

X W L D X Z

0.0 0.13 0.22 0.13 0.22 0.22 0.22 0.22 0.22 0.22 0.22

12.46 12.54 12.54 12.83 12.88 112.88 112.86 112.72 112.65

10.04 10.20 10.20 10.23 10.33 10.33 10.55 10.56

DISTANCE INCR INCR 0.58 0.32 0.21 0.21 0.12 0.12

95 PCT 12.72 12.71 12.64 12.60 12.33 12.34 12.34 12.65

CD-ORDINATE-SF 7 10-54 00-65 10-54 00-65 10-54 00-74 10-21 00-74 10-21 00-63 10-26 00-63 10-63 10-63 00-63 10-63 00-63 10-63 00-63 10-63 00-63 10-63 00-63 10-63 00-63 10-63 00-63 10-63

SE 0.67 0.65 0.63 0.74 0.63 0.64 0.67 0.78

& W - D & Z

 $\alpha m \vdash \supset \alpha x$ 

HVMT NO. 12160/65

DISTANCE MOVED				-	-	' -	-	1	7	2	2					•	٠,	-	٦.	-	2	0.59 21 56	J			Z			0-17 0-61																0-21 1-63		
- 1		90.0	4 82	8.43	9.12		7.02	5.57				16 31	16.04	17 17	14 03	50.17	10.38	57.47	0.00	14.8	16.0	20.00					4 50	4.30	4-10	3.93	3.75	3.91	4.08	4.20	3.97	0.4	4.14	4-14	4.18	4-10	4.14	4.09	4-12	3.88	3.90	3.71	4
JRDI		3.03				-	7	_	7	-	-	13 28	13 73	12.10	12 14	01.21	70.0	64.0	0000	4.40	11.4	4.03				5 "	1,75	1.80	1.86	1.94	1.99	1.85	1.76	1.74	1.1	00.1	1.12	1.72	1.78	1.71	1.78	1.87	1,36	1.87	1.89	1.83	
05 - 2-		1.75										0.62	20.0	1.22	1 40	2 21	76.7	99.7	1001	77.7	0.00	0.31			(	X0-03 - 7.	0.86	0.76	0.68	0.61	0.54	0.63	0.71	0.75	0.00		4 00	0.74	0.73	0.73	0.72	0.68	0.84	0.61	0.61	0.57	
		6.79																				4.55				MEA	3.1	3.0	2.98	2.9	2.8	2.8	2.9	6.7	2.8	200	6.7	2.93	2.98	2.91	2.96	2.38	2.74	2.87	2.83	2.17	
35 PC	100 80	18.46										-11.09										-10.89		(18)				,	-6.57	'	•	'	'	' '	•	1		-6.80	-6.30	-6.22	.9	. 9	-6.44	.9	-6.45	5	
O-ORD INATE-												-15.89	'	•	•	'	•	'	'	'	'			α	_				-8.07									-7.97	-8.38	-8.37	-8.24	-7.95	-7.86	-8.30	-8.21	09.6-	
- ×		1.39	14	m	m	N	_	0	0	٥,	-											0.18		RT TROCHANTER	Y - V		0.80	0.59	0.46	0.55	0.74	0.68	0.65	75.0	0.65	0-36	3	0.36	0.63	99.0	0.62	0.35	0.43	0.63	0.54	1.24	
		-10.75										-13.49	-11.70	-9.94	-8.88	-9.35	-13.38	-10.78	-11-07	-11-18	-11.19	-11.18		•					-7.32									-7.38	-7.34	-7.29	-7.22	-7.38	-7.15	-7.27	-7.33	-7.57	
i		6.21										-4.44	-5.69	-4.85	-1.35	3.27	7.65	5.68	6.47	7.10	7.25	7.46		LANDMARK		95 PCT	3.61	3.26	3.11	3.34	3.67	3.67	2 44	3-02	2.98	3.03		3.03	3.69	3.93	3.63	3.29	3.14	3.57	3.31	4.13	
DRDIN	4	2.3	-2	9-	6-	6		1		1 1	1											5.39			BRDINATE-	5 PCT	0.72	0.84	0.10	0.33	0.38	19.0	0.00	0.74	0.73	0.68		0.68	0.50	0.28	0.61	0.53	0.54	-0.02	0.65	0.78	
- × -	0		2.	5.	2.	÷.	•	• •			;	1.	o	-	7	2.	2.	1.	•	0	0.68	0			- ×-	S	o	o	0.73	o.		<b>.</b>		0	0	0		0.71		1.11	26.0	0.84	0.79	1.10	0.81	1.02	
MEAN	9	4.28	1.28	-2.49	-5.80	7.7	4701-	14.01	15 40	-6.17	1.0	-6.17	-6.79	-6.52	14.44	-0.68	2.94	4.02	5.09	5.78	6.14	6.43			1	MEAN	2.16	5.05	1.90	1.83	2-02	47.7	2.09	1.88	1.86	1.86		1.86	60.7	2.10	71-7	76.7	1.84	1.78	1.98	2.45	
S IZE, N	7											7													SAMPL	\$ 12			- 1									~ ~	- 1	- 1	- 1	- 1	- 1	_	- 1	- 1	,
TIME	0.0	0	0	9	0 0	00.00	0	0 0	0 0	1.00		0.0	0.10	0	0	0	0	0	0	N 0.80	0.90	1.00			TIME	_	0.0	0	0.20	0 0	0 0	0	0	0 0.80	0	1.00		0.0		0	9 0	0 0	0 0	0	0	0	

CONFERON

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TOXXAKO

	DISTANCE	INCR	0.0	0.29	0.03	0.03	0.17	0.15	0.15	0.15	0.04	0.09	0.15	0.0	0.07	0.05	0.10	0.12	0.24	0.09	0.11	0.12	0.11	0.23
	(	95 PCT	13.42	13.59	13.57	13.51	13.51	13.50	13.73	13.57	13.59	13.56	13.57	13.57	13.56	13.61	13.63	13.55	13.55	13.47	13.44	13.53	13.61	13.42
	DINATE	5 PCT	99.9	6.59	6.59	6.62	6.62	99.9	99.9	6.58	6.62	99.9	6.67	6.67	6.73	6.68	6.57	6.56	6.68	6.64	6.67	6.60	6.61	99.9
	- C0-08	SE	2.06	2.13	2.13	2.10	2.10	2.09	2.16	2.13	2.13	2.11	2.11	2.11	2.08	2.11	2.15	2.13	2.09	2.08	2.06	2.11	2.13	5.06
	7)	MEAN	10.04	10.09	10.38	10.01	10.01	10.38	10.19	10.01	10.11	11.01	10.12	10.12	10.15	10.15	10.10	10.06	10.11	10.06	10.06	10.01	10.11	10.04
102	(	95 PCT	-1.99	-2.67	-2.68	-2.79	-2.91	-2.81	-2.97	-2.83	-2.93	-2.85	-2.65	-2.65	-2.67	-2.72	-2.62	-2.77	-2.52	-2.24	-2.44	-2.06	-2.14	-1.99
	U INATE-	5 PCT	-7.74	-7.44	-7.40	-7.30	-7.43	-7.23	-7.26	-7.38	-7.33	-7.53	-7.45	-7.45	-7.31	-7.21	-7.22	-7.30	-7.10	-7.32	-7.33	-7.48	-7.56	-7.74
E TOP	- 60-0	SE	1.75	1.46	1.44	1.38	1.38	1.35	1.31	1.39	1.34	1.43	1.47	1.47	1.42	1.37	1.40	1.38	1.40	1.55	1.49	1.65	1.65	1.75
- RT KNEE	()	MEAN	-4.87	-5,06	-5.04	-5.05	-5.17	-5.02	-5.12	-5.11	-5.13	-5.19	-5.05	-5.05	66.4-	96.4-	-4.92	-5.03	-4.81	-4.78	-4.89	-4°77	-4.85	-4.87
ANDMARK	(	95 PCT	18.98	19.08	19.19	19.23	19.15	19.32	19.19	19.32	19.31	19.16	19.23	19.23	19.27	19.22	19.19	19.30	19.28	19.17	19.17	19.23	19.19	18.98
7	DINATE	5 PCT	15.98	16.29	16.23	16.25	16.11	15.97	16.06	16.11	16.11	16.13	16.18	16.18	16.18	16.16	16.03	15.97	16.09	16.07	16.10	16.07	16.21	15.98
	- CO-OR	SE	0.91	0.85	06.0	0.91	0.93	1.02	0.95	0.98	0.98	0.92	0.93	0.93	96.0	0.93	96.0	1.02	0.97	0.94	76.0	16.0	0.91	0.91
	X)	MEAN	17.48	17.69	17.71	17.74	17.63	17.64	17.62	17.72	17.71	17.64	17.71	17.71	17.73	17.69	17.61	17.64	17.68	17.62	17.63	17.65	17.70	17.48
	SAMPLE	SIZE, N	7	7	7	7	7	7	7	7	7	7	1	7	7	7	7	7	7	7	7	7	7	7
	TIME	-	0.0	0.10	F 0.20	0 0.30	R 0.40	W 0.50	09.0 A	R 0.70	0 0.80	06.0	1.00	0.0	0.10	0.20		E 0.40	T 0.50	09.00	R 0.70		06.0	1.00

TOXXXX

CCUM CCUM 00.20 00.32 00.32 00.35 00.68 11.11 11

MOVED	COM	0.0	0.68	0.95	1.02	1.38	1.73	1.99	2.20	2.29	2.48	2.82	0.0	0.12	0.27	64.0	0.68	0.77	1.06	1.30	1.59	1.69
DISTANCE	INCR	0.0	0.68	0.27	90.0	0.37	0.35	0.26	0.21	60.0	0.19	0.34	0.0	0.12	0.15	0.22	0.19	60.0	0.29	0.24	0.29	0-10
(	95 PCT	11.84	11.76	11.82	12.03	11.94	12.08	11.76	11.51	11.50	11.50	11.74	11.74	11.81	11.72	11.79	11.85	11.90	11.75	12.00	11.78	11.87
0	5 PCT	10.60	10.49	10.40	10.18	10.20	10.18	10.47	10.41	10.32	10.42	10.41	10.41	10.26	10.38	10.43	10.41	10.40	10.39	10.33	10.45	10.43
- CO-OR	SE	0.38	0.39	0.43	0.56	0.53	0.58	0.40	0.34	0.36	0.33	0.40	0.40	14.0	0.41	0.41	550	0.46	0.41	0.51	0.41	0.44
7)	MEAN	11.22	11.12	11.11	11.10	11.07	11.13	11.12	10.96	10.91	10.96	11.07	11.07	11.04	11.35	11.11	11.13	11.15	11.37	11.10	11.12	11.15
(	95 PCT	-7.03	-6.75	-6.53	65.9-	-6.46	-6.12	-6.64	-7.05	-6.75	-6.82	-7.30	-7.30	-6.58	-6.63	-6.71	-6.82	-6.56	-6.61	69.9-	-6.67	-6.92
ND INATE-	5 PCT	-9.34	-9.37	-9.63	-9.68	-9.80	-9.81	-9.72	-9.53	16.6-	-10.18	-9.20	-9.20	-10.05	-9.71	-9.43	-9.39	-9.58	-9.87	-9.70	-9.65	-9-45
- CO-OF	SE	0. 10	0.80	0.94	16.0	1.02	1.13	56.0	0.76	0.96	1.02	0.58	0.58	1.06	96.0	0.83	0.78	0.92	66.0	0.92	0.91	0.77
١)	MEAN	-8-19	-8.06	-8.08	-8.08	-8.13	-7.96	-8.18	-8.29	-8.33	-8.50	-8.25	-8.25	-8.31	-8.17	-8.07	-8.11	-8.07	-8.24	-8.20	-8.16	-8.18
(	95 PCT	-13.15	-14.20	-14.43	-14.46	-14.89	-15.11	-14.53	-14.93	-14.71	-14.88	-14.18	-14.18	-14.49	-14.24	-13.92	-13.72	-13.69	-13.53	-13.07	-12.97	-13.10
RDINATE-	5 PCT	-15.59	-15.86	-16.18	-16.28	-16.58	-16.95	-17.26	-16.66	-16.76	-16.48	-16.77	-16.77	-16.26	-16.58	-16.53	-16.35	-16.23	-15.93	-15.96	-15.50	-15.18
- C0-0R	SE	0.74	0.51	0.53	0.56	0.52	0.56	0.83	0.53	0.63	64.0	0.19	0.79	0.54	0.71	0.79	0.80	77.0	0.73	0.88	0.17	0.63
X)	MEAN	-14.37	-15.03	-15.30	-15.37	-15.73	-16.03	-15.90	-15.79	-15.74	-15.68	-15.48	-15.48	-15.38	-15.41	-15.22	-15.04	-14.96	-14.73	-14.52	-14.23	-14-14
SAMPLE	SIZE,N	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
TIME	-	0.0	0.10	0.20	0.30	0 * 40	0.50	09.0	0.10	0.80	06.0	1.00	0.0	0.10	0.20	0.30	0 * * 0	0.50	09.0	0.70	0.80	06.0

 $\alpha m \vdash \supset \alpha z$ 

TOKMARO

			1.59	2.44	2.75	3.05	3.27	3.81	4.09		77.4	4.62		0.0	17.0	14.0	0.77	1.07	1.75	2.22	2.78	3.42	3.97	4.17		MOVED	CUM	0.0	3.04	6.37	9.87	12.74	13.87	14.79	15.77	16.30	16.57	17.23	0-0	1.30	2.82	4.95	7.51	10-42	13.06	14.88	15.32	15.93	16.27	
2014	TAL	2000	1.59	0.85	0.31	0.30	0.22	0.53	0.28	200	0.10	0.23		0.0	17.0	0.21	0.29	0.31	0.68	14.0	0.55	0.65	0.55	0.20		DISTANCE	•	0.0	3.04	3.33	3.50	2.87	1.13	0.92	0.98	0.52	0.28	0.65	0-0	1.30	1.51	2.14	2.55	2.92	2.63	1.83	0.44	0.61	0.34	
		6-83	6-31	6.02	6.14	6.25	5.98	5.50	4.93	000	2000	5.02		20.0	4.30	2.01	5.28	5.41	5.26	5.68	5.93	6.31	6.76	6.83		(	95 PCT	u	8 . 44	1	u	L.	4	(43	N	N	12.29	N	12.64	12.84	13.43	14.09	13.24	11.30	8 80	7.12	6-29	5.76	5.37	
AT AN IO	· u	, ~	2	2	2	2	2	2	~	-	4 0	1.82		7007	5.00	5.19	2.20	2.31	2.39	2.24	2.25	2.32	2.43	2.63		DINATE	-	3.29	4.43	5.35	6.49	8.47	10.02	10.84	10.76	11.01	10.99	10.45	10.45	10.69	10.35	9.00	7.03	5.21	3.99	2.88	3.48	3.57	3.29	
0-01	, u	1.28	1.18	1.09	1.18	1.25	1.18	1.06	0.88	000	000	0.98	0	000	0.89	0.80	0.04	0.94	0.88	1.05	1.12	1.22	1.32	1.28		- 60-03	SE	0.64	1.22	2.16	2.72	2.24	1.44	0.85	0.63	0.43	0.39	19.0	0.67	0.66	46.0	1.55	1.89	1.86	1-47	1.29	0.86	0.67	0.64	
,	1											3.42		2000	7000	3.50	3.74	3.86	3.85	3.96	4.09	4.32	4.50	4.73		7)	MEAN	4.33	6.43	8.90	10.95	12.14	12.38	12.23	11.80	11.72	11.64	11.55	11.55	11.77	11.89	11.55	10.13	8.26	6-40	5.00	4.89	4.67	4.33	
	DE PCT	-8.98	- 9.05	-8.58	-8.35	-8,30	-8.17	-8.46	-8.84	- B 7B	0 0	-8.68	0	0 0	0	00	$\infty$	œ	8	9	9	-9.21	6	-8.98	( 56)	(	5										-11.39		0	-9.26	$\infty$	-	-	00	0	-9.92	6	-9.68	69.6-	
DO INATE.		-11.69	-12.87	-13.89	-14.29	-14.38	-14.50	-14.63	-14.37	-14.64	-14.71	-14.47	-14 47	17 77	*****	47.41	-14.24	-14.10	-13.46	-12.81	-12.48	-12.03	-11.82	-11.69	ER	ORD INATE-	5 PCT	-11.11	-12.67	-13.67	-14.73	-15.20	-14.76	-14.56	-14.74	-15.05	-15.04	-14.87	-14.87	-13.33	-11.74	-10.56	-10.78	-11.68	-11.90	-11.87	-11.38	-11-16	-11.11	
		0.83	1.16	1.62	1.81	1.85	1.93	1.88	1.68	1 70	1 78	1.76	1 74	000	7007	+0.T	1.68	1.62	1.48	1.12	0.97	0.86	0.84	0.83	T CENTE	0-00 -	SE	0.43	1.36	2.22	2.95	2.92	2.34	1.72	1.30	1.20	1.11	1.40	1.40	1.24	1.04	0.93	0.93	1.02	0.74	09.0	0.53	0.45	0.43	1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MEAN	-10.33	-10.96	-11.23	-11.32	-11.34	-11.33	-11.54	-11.60	-11.71	-111.79	-11.57	11 67	11 44	0+017-	-11.55	-11.48	-11.44	-11.04	-10.97	-10.88	-10.62	-10.44	-10.33	- RT WRIST	λ)	MEAN	-10.40	-10.44	-10.03	-9.90	-10.40	-10.92	-11.73	-12.60	-13.08	-13.22	-12.58	-12.58	-11.29	-10.05	-9.03	-9.25	-10.00	-10.68	-10.89	-10.51	-10.42	-10.40	
	95 PCT	-5.47	-6.35	-6.75	-6.87	-7.36	-7.49	-7.74	-7.56	-7.40	-7-45	-7.66	-1 11	7 61	1001-	-1.53	10.44	-7.72	-7.41	-7.42	-6.42	-5.61	-5.15	-5.47	ANDMARK	(	95 PCT	3.92	2.97	1.23	-1.20	-3.37	-4.48	-5.83	-6.45	-6.51	-6.66	-6.99	9	-6.57	-4.98	-2.71	-0.41	1.13	1-85	3.75	3.52	4.05	3.92	1
- :	S PCT	-7.15	-9.10	-10.29	-10.77	-10.87	-11.05	-11.62	-11.80	-12.10	-12.32	-12.02	-12 02	11 77	71011-	96-11-	16.01-	-10.12	-9.33	-8.43	-8.37	-8.10	-7.68	-7.15	-	RDINATE	5 PCT	2.04	-1.41	-4.05	-7.31	-10.25	-11.11	-10.53	-9.66	-9.21	-8.61	-8.06	-8.06	-8.62	-8.53	-7.09	-5.17	-2.50	0.25	19.0	1.27	1.86	2.04	
- 00-0	, L	0.51	0.84	1.08	1.19	1.07	1.09	1.18	1.29	1.43	1.49	1.33	1 33	100	07.7	11.1	1.08	0.13	0.59	0.31	0.59	0.76	0.77	0.51			SE	0.57	1.34	19.1	1.86	2.10	20.2	1.43	0.98	0.85	0.60	0.33	0.33	0.62	1.08	1.34	1.45	1.11	0-49	0.94	0.69	0.67	0.57	
,	MEAN	- 9	-	8	-8	6-	6-	6-	-	1	1		40	17 0-	10.6-	14.40	07.6-	-8.92	-8.37	-7.93	-7.40	-6.85	-6.42	-6.31		X)	AN	2.98	0.78	-1.41	-4.25	-6.81	-7.79	-8-18	-8.05	-7.86	-7.63	-7.52	-7.52	-7.60	-6.75	-4.90	-2.79	-0.69	1.05	2.21	2.39	2.95	2.98	
•	SIZEN	•	7	1	7	1	7	7	7		- 1	7	-	- 1	- 1	- 1		-	1	7	7	7	7	7		SAMPLE	SIZEON	9	9	7	7	7	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	9	
T M	-	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.70	08	000	1.00			01.0	0.20	0.30	0 - 40	0.50	09.0	0.10	0.80	06.0	1.00		TIME	-	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	06.0	1.00	0.0	0.10	0.20	0.30	0.40	0.50	0.00	0.10	0.80	06.0	1.00	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 TO HATCH RELEASE CONTROLLER AT -5.0, -13.0, +15.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0.

MOTICN NUMBER - 22260 BACK ANGLE - 65

STD DEV RANGE	0.09 0.60 TO 0.80 SECS.	0.26 0.50 TO 1.30 SECS.
MEAN	69.0	0.73
SUB-MOVEMENT	LEFT FWD	I FFT REV

OVED	100	0.0	01.1	3.76	3.17	3.58	3-73	86.8	200	1.26	19.4	0	06-0	-82	2.25	200	3-02	30	3.63	101	4.20	1037			7		51	0.73	66	.21	.43	19.	06.	600	3.24	.36	0-1	1 13	1.36	200	Ca	000	13	200	50	0	2.35
ANCE	~	1.0	15	.24	040	.42	.15	.25	60	.19	.35	0	06.	- 92	43	141	36	200	23	38	0 0	0.17		2 0 0 0	Jack		5.1	0.22	26	22	.22	.24	.23	.20	14	115	0	13	23	. 23	21	13	21	44	45	1 2	0.17
10 (	95 PCT	71 34	21.23	21.13	21.26	21.46	21.30	21.14	21.42	21.52	21.38	21.38	5	9.	7.	1	0	7	4	2	5	21.81		10	S DCT			13.94									4	. 4	4	m	1 1	1 4	. 4	~	1 (1)	1	13.51
O INA TE	PCT	20	36	9.21	16.	8.73	8.73	9.03	8.82	8.74	8.83	8 83	60.6	9.25	9.25	9.30	9.35	9.36	9.45	9.37	9.41	19.30		LATELLE	5 007	2.96	2 - 65	12.51	2.46	2 . 62	2.81	3.02	3.17	3.04	3.06	3.32	3.32	3.20	3.06	3.07	3.00	2.70	2.85	2.36	2.67	27.72	12.96
-03	1	0 0	2	5	-	8	-	9	-	00	-	0.78	0.74	-	~	-	-	~	0	9	9	0.76		a0-0	, u	0.17	0.37	0.44	4	m	0.32	3	3	5	2	4	0.40	0.40	0.36	0.25	0-26	0.43	0-43	0.34	0.27	0.23	0.17
7)	MEAN	20.00	0.2	1.0	0.1	0.0	0.0	0.0	0.1	1.0	0.1	0.1	20.33	4.0	4.0	0.5	0.6	0.5	0.5	4.0	4.0	20.56		()	d	2	2	13.23	-	2	m	5	-	00	0	0	0	00	2	5	3		LC.	2	13.12	-	13.23
7 1	95 PC	•										1.45	1.74	2,35	2.92	3.32	3.32	3 . 30	3.60	3.49	3.53	3.56	2)		95 PCT	2	2.36	2.38	2.32	2.18	2.37	2.59	2.60	2.34	2.24	2.10	2.10	2.17	2.29	2.35	2.42	2.07	2.29	2.70	2.73	2.72	2.55
A.	100	-4- B1	-6.59	-6.51	-6.65	-6.88	-6-74	-7.31	-7.30	-7.37	-7-42	-7.42	-6.16	-5.04	-4.81	-4.52	-3.83	-3.34	-3.00	-2.19	-1.85	-1.83		8		-4.06	-4.88	-5.14	76.4-	-5.18	-5.70	-5.84	-5.95	-5.83	-5.94	-5.77	-5.77	-5.82	-5.92	-5.85	-5.60	-5.33	-5.29	-4.83	-4.28	-4.05	-4.06
	1 64	2.41	3.05	2.97	2.88	2.82	2.74	5.8	2.88	2.81	2.70	2.70	2.41	2.25	2.35	2.39	2.18	2.02	2.01	1.73	1.64	1.64	ALE	0-0		2.01	2.21	2.29	2.21	2.24	2.46	2.57	2.61	2.49	2.49	2.40									2.14		
0 1 4	NEAN Va O	0 00	-1.59	9.	6.	.2	.2	4.	.5	-2.76	-2.98	6	-2.21	3	6.	9.	2.	0	.3	9.	8	00	- CERVIC	Y)	EA	7.	2.	-1.38	.3	5	9.	9.	9.	1.	8	-1.84	-1.84	-1.83	-1.81	-1.75	-1.59	-1.63	-1.50	-1.06	-0.17	-0.67	-0.76
(	~ ~	-15.94		-	_	_		-	_	~	-16.03	-16.03	15.	15.	16.	16.	16.	15.	9	16.	-	15.	LANDMARK	()	95 PCT	_	-	-18.03	-	-	-	-	_	-	-	-	-16.81	-	-	1-	_	-	-		-17.90		
ac	-18-76	6	0	6	6	0	6	0	0	0	0	3	0	8.5	8.6	8.8	8.9	8.9	8.6	8.3	4.	8		RDINATE-		20	19	-19.35	13	13	13	13	61	61	20	0	-20.32	-19.90	-19.37	-19.11	-19.19	-19.47	-19.44	-19.14	-19.45	-19.76	-20.04
0-00-0	2	1.13											1.19											1	SE			0.40									0	1.	. 5	4.	4.	.5	. 5	. 3	14.0	9.	1.
1 4	r -		7.7	1.5	1.	3.0	6.1	6.	6.7	6.1	3 . 2	.2	~	1.5	7.3	1.5	1.5	7.3	7.3	7.2	7.2	7.3		X)	W	18.	18.	-18.69	18.	18.	18.	18.	18.	18	18.	18.	18.5	8.6	18.5	8.3	18.5	18.6	18.5	18.5	-18.67	8.7	18.8
SAMPLE	7 4	7	7	7	- 1	- 1	1	7	7	7	1	7	7	1	1	1	7	1	7	1	7	1		AM	SIZE,N	7	1	7	7	7	1	7	-	- 1	- 1		7	7	7	7	7	7	7	7	7	7	7
TIME	0.0	0-10	0	0.3	4	0.5	0.0	0.7	0.8	6.	0	0		0.5	0.3	0.4	0.5	0.6	1.	0.8	6.	0		TIME	_	0.	0.1	F 0.20	0.3	4.0	0.5	9.0	0	0.0		2	0.0		0	0	0	0	0		0		

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MOVED	NO U	0.0	0.19	0.33	0.45	0.52	0.70	1.01	1.26	1.69	2.32	2007		0.0	0.52	1.01	1.27	1.50	1.70	1.92	2.33	2 55	2 65	77.6				MOVED	COM	0.0	0.43	0.53	06-0	1.45	1.99	2.71	3.16	4.11	4.34	4.59	0.0	0.61	1.26	1.75	2.57	2.96	3.25	3.43	3.59	
DISTANCE	INCR	0.0	0.19	0.14	60.0	0.10	0.18	0.30	0.26	0.43	0.63	51.0		0.0	0.52	4.	.2	2.	-2	2	4		27.0	: -	4			DISTANCE	INCR	0.0	0.43	0.11	0.37	0.54	0.54	0.73	10-1	70.00	47.0	0.24	0.0	0.61	0.65	64.0	0.82	0.39	0.28	0.19	0.16	-
(	95 PCT	14.65	14.64	14.68	14.79	14.74	14.80	15.23	15.23	15.23	15.11	14.90		14.90	5	15.04	14.71	14.70	4	14.69	14.43	14.62	14.62	14.65				[	95 PCT	12.72	12.24	12.27	12.54	12.98	13.82	14.78	10.43	70.07	10.01	15.92	15.92	15.13	14.38	13.76	13.34	13.02	12.80	12.63	12.63	1
DINATE	5 PCT	13.25	13.45	13.38	13.13	13.23	13,35	13,33	13.41	13.55	13.78	13.96		13.96	13.48	13.19	13.29	13.22	13.41	13.36	13.27	13 11	13 21	13.25	3			0	5 PCT	10.79	10.83	10-70	10.70	10.98	11.10	11.49	11.00	17 45	14.45	12.79	12.79	12.53	12.12	11.78	11-47	11.31	11.07	11.03	10.91	
- CO-OR	SE	0.43	0.36	0.40	0.50	94.0	0.44	0.58	0.56	0.51	0.40	0-29		0.29	64.0	0.56	0.43	0.45	0.38	0-40	4	44	. 4	64.0				- CO-OR	SE	0.59	0.43	0.48	0.56	0.61	0.83	1.00	1.40	1.49	01.1	0.95	96.0	0.79	69.0	09.0	0.57	0.52	0.53	0.49	0.53	
7	MEAN	13.95	14.35	14.03	13.96	13.99	14.08	14.28	14.32	14.39	14.64	14.43		14.43	14.29	14.11	14.30	13.96	14.04	14.03	12.05	13.86	13.00	13.05				7)	MEAN	11.76	11.54	11.48	11.62	11.98	12.46	13.14	\$0.4T	16.41	14.20	14.35	14.35	13.83	13.25	12.17	12.40	12.16	11.93	11.83	11.77	
1	95 PCT	5.66	2.55	2.51	2.55	2.65	2.30	1.83	1.73	1-60	1.47	1 17		1.17	1.05	1.57	1.97	2.13	2.22	2.16	2 11	2 50	2 69	2 66	3	12	10	(	95 PCT	8.79	8.35	8.46	8.70	8.70	8.53	8.61	44.0	8.57	8.48	8 • 36	8.36	8.05	8 . 30	8.40	8 . 34	8 . 60	8.53	8 . 34	8.75	
RD INATE	5 PCT	-2.40	-2.61	-2.68	-2.71	-2.99	-2.93	-2.92	-3.31	-3.96	-4- B5	-4-47		14.47	-3.70	-3.62	-3.67	-3.48	-3-20	-2.71	10 1-	10 01	10.7	-2 60	04.7			ORD INATE	5 PCT	7.18	7.22	6.93	6.72	92.9	6.68	6.38	47.0	U. 0	2.55	5.23	5.23	5.80	5.82	5.48	6.34	04.9	6.51	26.9	6.82	
- CO-08	SE	1.54	1.57	1.58	1.6	1.72	1.60	1.45	1.54	1.69	103	1.72		1.72	1.45	1.58	1.72	1.71	1.65	1.48	1 23	1 62	76-1	1 54	1	NO.	2010	10-03 -	SE	0.49	0.34	14.0	09.0	0.59	0.56	0.68	19.0	0.83	0.89	95 • 0	96.0	69.0	0.76	0.89	0.61	0.67	0.62	0.45	0.59	
λ)	MEAN	0.13	-0.03	-0.08	-0.08	-0-17	-0.32	-0.54	-0.79	-1-18	0411	11.65		-1.65	-1.32	-1.02	-0.85	-0.67	64-0-	-0.27		2 4 6	07.0		0.10	-		()	MEAN	7.99	7.79	7.70	7.71	7.73	7.60	7.50	1.34	170/	1001	6.19	61.9	6.92	7.06	6.94	7.34	7.50	7.52	7.66	7.79	
(	95 PCT	-13.09	-12.85	-12.73	-13.07	-13.28	-13.13	-13.47	-13.33	-13.03	12 04	-13 12	34.64	-13.12	-13.27	-12.88	-13.07	-13.25	-13.09	-13.02	13 63	12 27	07.61-	13.00	60.61-	2044044	LANDHAKK	()	95 PCT	-15.66	-16.47	-16.67	-16.41	-15.70	-15.05	-14.91	-14.22	-14.04	-14.06	-14.17	-14.17	-14.85	-15.19	-14.63	-14.91	-15.43	-15.79	-15.98	-15.81	11111
ATE-	PCT	2.44	5.74		91.9	5.04	5.29	6.01	5.15	A BO	100	7 73		-17.73	-16.83	-16.52	-16.01	-16.10	-16.29	-16.26	1 5 5 5 5	10001	26.61-	61.01-	***01			RDI	2	-18.80	-18.61	-18.39	-17.95	-17.86	-18.10	-17.73	-17.59	-17.46	-17.56	-17.50	-17.50	-17.40	-17.56	-18.04	-18.98	-18.98	-18.96	-18.93	-18.97	
0-00 -	SE	1.02	1.19	1.19	0.94	0.84	96.0	0.78	0.86	1 1 5		4.1	•	1.40	1.09	1.11	06 00	0.87	80	000		000	0.00	0,00	70.1			0-00 -	SE	96.0	0.65	0.52	0.47	0.66	0.93	0.86	1.03	1.04	1.07	1.01	1.01	0.78								
X												97.61-		-15.42	0	14.7	14.5	14.6	4	7 7 7 1			79.41-	0	1.4.1			X)	EAN	7.	7.	-17.53	7.	9	9	9	2	2	2	5	-15.84	-16.12	-16.38	-16.33	-16.95	-17.21	-17.37	-17.45	-17.39	
SAMPLE	71		7	7	1	7	7	7	7		- 1	- 1	-	7	7	7	7	1	- 1		- 1	- 1	- 1	- 1	-			SAMPLE	SIZEON	7	1	7	7	7	7	7	7	1	7	7	7	7	7	7	7	7	7	7	7	
TIME	-	0.0	0.10	0	0	R 0.40	0	0	0	0	9 0	06.0	00.1		-	-	0.3	1	0 0		0 0	0	N 0-80		9			TIME	-	0.0	0.10	F 0.20	0	0	0	A 0.60	0	0	06.0	1.00	0	0.10	.2	0.3	E 0.40	0.5	0.6	0.7	0.8	•

		CIN	0.0	3.57	8.02	3.64	9006	1.10	3.10	3.10	3.10	23.10		0.0	0.0	0.0	3.62	7-18	16.0	2.09	7.47	20.02	1.75	2.66			OVED	LON COM	0.0	01.0	0.00	0.71	0.78	66.0	1.19	1.34	1.68		0.0	11.0	67.0	74.0	90.0	11.0	0.80	36	1004
		ANCE										200										2.55 2					11										0.22		0.0								
		1010	0	3	4	2	2	2.	2.	0	0	0		o	0	o	3	3	3	4	2.	2.	1.	0			DISTA	Z (	• c			0	0	0	•	0 0	0	•		50	5 0	50			50	0	) (
	1	95 PCT	6.81	10.42	13.62	16.76	20.55	17.01	17.43	0.0		000		0.0	0.0	21.19	19.14	16.81	16.48	16.22	12.95	10.43	8.69	6.81			10000	10 PC	2000	3.53	9.00	3.41	3.36	3.47	3.56	3.63	3.62	2 63	3.51	3.67	14.6	2 60	0.00	40.0	000	3.87	
	TAN TO	5 PCT	4.75	6.92	10.09	12.88	13.35	16.25	15.92	0.0		000		0.0	0.0	13.38	13.74	12.85	10.20	6.43	6 . 85	5.84	4.64	4.75			S DCT	2 2	2.21	2.19	2.25	2.24	2.18	2.24	2.30	2.33	2.26	2 34	2.18	2.16	2.18	2.12	2 23	2.18	2-27	2.17	11
	00-03	5	0.63	1.07	1.08	1.18	2.20	0.23	0.46	90		0.0		0.0	0.0	2.38	1.65	1.21	1.91	2.99	1.86	1.40	1.23	0.63		0	Š								מ מ מ מ מ			0.42	0.41	0,40	0.42	0.45	04.0	24	0.44	0.52	1
	1	MEAN	5.78	8.57	11.86	78.47	10.95	16.63	16.51	200		0.0		0.0	0.0	17.28	16.44	14.83	13.34	11.32	06.6	8.14	6.56	5.18			NEAN	2.94	2.94	2.86	2.82	2.82	2.17	2.85	7.97	2.98	2.94	2.94	2.84	2.82	2.86	2.86	2000	2.88	2.39	3.02	000
171		95 PCT	12.33	10.62	9.38	00.	28.6	-1.43	66.1-		000	0.0		0.0	0.0	-3.82	0.25	5.84	10.11	12.16	12.99	12.88	13.21	12.33	19)		95 PCT	8.73	9.10	8.59	8.10	7.97	8.17	8.57	7.96	8.01	8.69	8.69	8.19	7.97	7.95	7.79	7.98	8.11	8.90	8.74	0 0 0
•	DINATE	5 PCT	19.6	7.13	2.29	14.00	+7.71	17.0-	66.11		0.0	0.0		0.0	0.0	74.6-	-0.03	-6.35	00.00	61.2-	20.0	1.32	8.68	1006	_	DINATE		5.37	5.03	5.18	5.73	5.71	5.46	5.22	5.27	5.35	2.09	5.09	5.32	5.46	5.51	5.51	5.47	5.39	5.37	5.49	F 17
P CENTER	- CO-OR	SE	0.83	1.06	2 4.7	100	10.0	2002	66.70		0.0	0.0	•			7107	2.10	1) • (	11.4	2000	700	1 35	000	000	ROCHANTER	- 60-00	5	1.02	1.24	1.04	0.72	69 -0	0.83	1.02	0.82	0.81	1.10	1.10	0.87	0.77	0.75	69.0	0.77	0.83	1.07	66.0	
- LT GRI			10.97												200	20.07	10.1	20.63	\$0.0 \$0.0	9 0		11000	2000	16.01	- LT TRO	Y)	MEAN	7.05	7.07	68.9	6.92	6.84	18.9	6.00	6.62	6.68	68.9	68.9	6.76	6.72	6.73	6.65	6.72	6.75	7.13	7.11	00
ANDMARK	(	95 PCT	7.54	0.44	5.42	4.48	77			0-0	0.0	0.0	0		200	2 55	0.00	7.03	2 4 4	7 20	7 40	7 26	7 400	100	ANDMARK		95 PCT	3,30	3.08	3.01	3.07	3.05	3.24	3.51	3.58	3.81	3.98	3.98	3,39	3.40	3.47	3.48	3.44	3.41	3.10	3.07	77 2
_	DINATE	5 PCT	2.40	3.65	-0-0-	-3-46	-1-98	-2.79	0.0	0.0	0.0	0.0	0		-3.13	200	11.60	19.0-	100	1.15	17.1	1.05	2.40		٦	DINATE	5 PCT	-0.37	-0.33	0.13	0.40	0-14	71.0-	0.21	60.0	0.08	-0.12	-0.12	0.43	0.19	0.51	0.16	0.11	0.18	0.34	0.13	-0.22
		SE	1.57		1.66	2.48	0.84	0.98	0.0	0.0	0.0	0.0	0-0		1.50	2.00	1.03	1.04	1.88	1 8 2	1.76	1-71	1.57			- C0-0R	SE	1.12	1.04	0.88	0.81	0.89	1.02	1.01	1.06	1.14	1.25	1.25	06.0	0.98	0.90	1.01	1.02	66.0	0.84	0. 90	1.17
	X)	MEAN	4.97	4 25	2.69	0.61	-0.60	-1.19	0.0	0.0	0.0	0.0	0-0		-0-53	0.27	1 - 47	2.5B	3.57	4.18	4.60	4.75	4-97			X	EAN	14.	.37	.57	47.	00.	73	.86	1.83	.95	. 93	6.	1.91	8	6.	. 8	1.	00		9.	9
	SAMPLE	12E,	9 4	0 1	- 1	9	2	2	0	0	0	0	o	C	2			1	1	7	7	_	9			7	7 1	4	4	٠ ک	• •	0 4	0 40	0	9	9	0	9	9	9	9	9	9	9	S.	Ω,	4
	TIME		0.0	0		4.0	0.5	0.6	0.7	0.8	6.	0		-	.2	0.3	0.4	0.5	0.6	1.	0.8	0.00	0			TIME			0	0	•	000	0		0			0	0.10	0.2	0.3	4	0.5	0.6	0.7	0 0	6

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SAM	PLE (	x - C0-0	ROI	(	()	0-00-0	DOO INATE						
512	E,N	SE			MEAN	9 4	S DOT	100 30	7	- cu-uk	COINATE-	(	DISTANCE
0.	1	1.41	_		5.38	1-16	3.48	2 0	NEAN	SE.	5 PCT	95 PCT	INCR
	11	1.35	-		5.59	1.32	3.47	7.75	***	17.7	6.21	13.47	0.0
	17	1.25	_	_	5.78	1.34	3.57	7.08	7.10	2 4 5	7.0	13.84	0.22
	6 17.43	1.24	15.39	19.47	5.88	1.29	3.77	8.00	0.66	2.44	2.09	13.11	0.50
	17	1.28	-	7	5.80	1.38	3.53	8.07	9 4 6	2.46	2. 65	13 71	0.15
	1	1.40	-	_	5.72	1.50	3.25	8.19	9.57	2.39	5.75	13 50	11.0
	-	1.36	_	_	5.74	1.38	3.47	8.01	69.6	2.42	5. 73	13 66	
		1.48	_	_	5.60	1.41	3.29	7.91	9.75	2.46	5.72	13 70	
	17	1.63	_	~	5.60	1.45	3.23	7.97	9-74	2.45	5. 72	12 76	1.0
	17	1.74	_	10	5.63	1.40	3.33	7.93	9-71	2.43	5.72	13 40	1.0
		1.67	-	7	5.72	1.33	3.54	7.90	9.59	2.41	5.75	13.64	0.21
		1.67	14 41	•									
0	6 17.35	1 33	16.17	20.09	21.6	1.33	3.54	7.90	69.6	2.41	5.75	13.64	0.0
	17.	1.45	14.00	7	0.0	1.30	3.57	7.84	69.65	2.36	5.77	13.53	0.04
	17	1 21	15.00	•	10.0	1.31	3.52	7.82	15.6	2.45	5.63	13.58	0.06
0 0	1	70.4	00.61	٠,	2.55	1.22	3.55	7.54	9.62	2.41	5.67	13.57	0.22
	17	1.47	10.04		5.57	1.32	3.41	7.73	69.6	2.41	5.75	13.64	41.0
	17	14.1	11.01	٠,	5.62	1.41	3.30	7.94	11.6	2.46	5.73	13.81	0.00
	17	9	10.04	٠.	2.50	1.51	3.08	8.05	9.73	2.53	5.57	13.88	0.07
0 0		1. 38	12.24	-	5.53	1.30	3.40	7.66	9.73	2.46	5.69	13.76	100
000		1.28	15.39		5.46	1.07	3.70	7.21	9.71	2.32	5-90	13.53	000
		1.28	15.37	-	5.40	1.03	3.71	7.08	9.74	2.25	90 - 9	13.63	000
		1. 41	15.15	7	5.38	1.16	3.48	7.28	9.84	2.21	6.21	13.47	0.10
				LANDMARK	- LT SHO	SHOULDER CE	CENTER (	231					
INE SAMP	MPLE (X	CO-ORDINA	RDINATE-		١)	- CO-OR	DINATE	()	()	0-0J	DINATE		
2	MEA	SE	5 PCT		MEAN	SE	5 PCT	95 PCT	MEAN	i u	100	100 00	THE
	-14.6	0.98	-16.48	-13.27	8.27	0.46	0.46 7.53	9.02	11.47	0.44	10.74	12.10	2 0
	-15.0	0.57	-15.93		8.02	0.41	7.34	8.69	11.20	0.40	10.55	11 84	
	-14.8	0.57	-15.74		7.93	0.56	7.01	8.86	11.13	0.46	10-37	11.88	0000
	-14.3	0.10	-15.51		7.97	0.44	7.25	8.70	11.26	0.51	10-42	12.00	27.0
	-14.0	0.75	-15.24		7.81	0.55	6.90	8.72	11.65	0.57	10-72	12.50	0 0
	-13.5	0.94	-15.12		7.70	0.10	6.55	8.85	12.15	0.67	11.06	13.25	24.0
	0.61-	0.96	-14.67		7.27	0.81	5.95	8.59	12.70	0.84	11.34	14.07	0 0
	-14.1	17.7	-14.82		6.91	0.85	5.52	8.31	13.18	0.99	11.56	14.79	000
	0.71	71-1	-14.51		6.54	66.0	4.92	8.16	13.51	1.03	11.82	15.21	0.51
	-130	0.83	-14.05		6.14	1.09	4.35	7.92	13.74	0.97	12.15	15.34	0.47
	7.0	0.00	17 - 4 7 -		6.23	1.02	4.55	1.90	13.83	0.80	12.51	15.15	0.35
0.0	7 -13.00	0.73	-14.21	-11.80	6.23	1.02	4.55	7.90		08.0	12.61	31 31	
	-13.2	09.0	-14.24	-12.27	6.38	0.72	5.21	7.56	. "	6.0	12.31	17.61	0.0
	-13.4	0.65	-14.52	-12.39	6.78	0.70	5.63	7.94	12.88	20.0	11 98	12.41	0.00
	-13.6	0.87	-15.04	-12.18	7.20	0.71	6.04	8.35	) LC	0.51	11.53	12 10	7.0
	-13.9	1.00	-15.61	-12,33	7.48	0.58	6.54	8.43		0.52	11.24	12.04	0 0
	-14.3	1.23	-16.38	-12.35	7.66	0.65	6.59	8.73		0.57	10.06	12 63	0000
	-14.1	1.26	-16.83	-12.70	7.74	0.58	6.80	8.69		0.58	10.74	12 44	
	-15.0	1.03	-16.79	-13.40	7.95	0.51	7.12	8.78		0.51	10.79	12 65	000
	-14.9	0.93	-16.50	-13.46	8.26	0.51	7.43	60.6		0.53	10.56	12 20	
	-14.9	16.0	-16.39	-13.41	8.29	0.30	7.80	8.77		44	10.65	12 17	0.38
	-14.	0.98	-16.48	-13.27	R 27					0	000	1	800
					7 9 9 9	000	7.53	0 0		177	72		

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DISTANCE	INCR	0.0	1.40	1.52	2.06	2.80	2.66	2.02	0.59	0.32	1.03	0.40	0.0	1.00	1.61	2.72	2.26	2.89	0.93	1.13	1.00	0.31	60.0
1	5 PCT	7.29	7.52	8.29	19.6	11.16	13.33	14.84	14.06	13,36	13.49	13.60	13.60	13.15	12.52	11.63	11.08	10.40	9.03	8.17	7.58	7.39	7.29
TANIO	5 PCT	3.25	3.53	4.35	6.04	8.36	09.6	9.71	11.42	11.73	11.97	12.18	12.18	11.84	10.58	8.62	6.81	4.35	4.75	4.20	3.47	3.26	3.25
0-03	SE	1.23	1.22	1.20	1.09	0.85	1.14	1.56	0.80	0.50	94.0	0.44	0.44	0.40	0.59	0.92	1.30	1.84	1.31	1.21	1.25	1.26	1.23
	MEAN	5.27	5.52	6.32	7.82	9.16	11.46	12.27	12.74	12.54	12.73	12.89	12.89	12.49	11.55	10.12	8.95	7.37	68.9	61.9	5.52	5.32	5.27
251	95 PCT	14.38	12.51	12.21	11.90	10.77	9.29	9.20	6.42	5.76	5.26	2.01	5.01	5.22	6.63	9.45	11.81	14.80	13.77	13.77	14.24	14.22	14.38
	5 PCT	11.81	11.44	16.6	8.17	5.51	2.98	-0.55	1.70	2.82	1.42	0.95	0.95	2.42	3.55	5.35	6.50	7.89	9.85	11.07	11.58	11.84	11.81
CENTER	SE	0.78	0.33	0.00	1.14	1.60	1.92	2.97	1.44	0.00	1.17	1.24	1.24	0.85	0.94	1.25	1.62	2.10	1.19	0.82	0.81	0.73	0.78
- LT ELBON	MEAN	13.10	11.98	11.06	10.03	8.14	6.13	4.32	4.06	4.29	3.34	2.98	2.98	3.82	5.09	7.40	9.15	11.34	11.81	12.42	12.91	13.03	13.10
ANDMARK	95 PCT	-6.23	-6.07	-5.06	-3.97	-3.15	-2.40	-3.32	-3.27	-3.54	-2.40	-2.73	-2.73	-2.17	-2.47	-3.08	-2.75	-3.37	-3.47	-4.87	-5.57	-5.90	-6.23
TANTO	5 PCT	64.6-	-8.06	-7.25	-6.40	-5.78	-5.72	-5.55	-6.11	-6.03	-6.51	-6.39	-6.39	-6.21	-5.22	-4.90	-6.87	-8.33	-9.51	-9.38	-9.79	-9.89	-9.49
90-03	SE	1.00	19.0	19.0	0.74	0.80	1.01	0.68	0.87	0.76	1.25	1.12	1.12	1.23	0.84	0.55	1.25	1.51	1.84	1.38	1.29	1.22	1.00
	MEAN	-7.86	-7.06	-6.15	-5.18	-4.46	-4.06	-4.43	69.4-	64.4-	-4.45	-4.56	-4.56	-4.19	-3.85	-3.99	-4.81	-5.85	-6.49	-7.12	-7.68	-7.89	-7.86
N N	SIZE,N	7	7	1	7	7	7	7	9	4	4	4	*	4	9	9	9	7	7	7	7	7	7

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MOVED CUM CUM 1.40 7.98 7.78 7.78 112.44 112.44 113.37 113.37

10.00 2.60 2.60 10.00 111.42 113.55 113.86

	MOVED	COM	0.0	5.95	11.15	14.20	16.93	18.43	20.74	20.74	20.74	20.74	20.74	0.0	0.0	0.0	3.57	10.04	11.68	13.62	16.88	19.03	20.39	21.19
LANDMARK - LT WRIST CENTER ( 27)	DISTANCE	INCR	0.0	5.95	5.20	3.04	2.74	1.50	2.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.57	6.48	1.63	1.95	3.26	2.15	1.35	0.81
	(	95 PCT	6.19	11.32	16.42	20.49	20-12	15.48	15.34	0.0	0.0	0.0	0.0	0.0	0.0	14.52	13.95	14.13	15.12	14.28	10.84	9.15	7.17	6.19
	DINATE-	5 PCT	5.26	7.81	9.43	8.26	11.24	14.57	14.74	0.0	0.0	0.0	0.0	0.0	0.0	14.52	13.95	10.40	7.90	6.77	6.36	5.36	5.59	5.26
	- C0-0R	SE	0.28	1.07	2,13	3.73	2.71	0.28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14	2.20	2.29	1.37	1.16	0.48	0.28
	7)	MEAN	5.72	9.56	12.92	14.38	15.68	15.32	15.04	0.0	0.0	0.0	0.0	0.0	0.0	14.52	13.95	12.26	11.51	10.52	8.50	7.25	6.38	5.72
	[]	95 PCT	13.34	12.01	10.83	11.37	7.42	69.4	1.25	0.0	0.0	0.0	0.0	0.0	0.0	-5.06	-2.21	10.57	13.33	13.87	14.33	14.44	13.54	13.34
	UINATE	5 PCT	10.95	3.27	-3.29	-9.13	-9.83	-8.00	+0°6-	0.0	0.0	0.0	0.0	0.0	0.0	-5.06	-2.21	-2.51	-2.39	0.35	5.05	8.30	9.85	10.95
	- CO-OR	SE	0.73	2.66	4.31	6.25	5.26	3.87	3.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.99	4.79	4.12	2.83	1.87	1.12	0.73
	Y)	MEAN	12.14	7.64	3.77	1.12	-1.20	-1.65	-3.89	0.0	0.0	0.0	0.0	0.0	0.0	-5.06	-2.21	4.03	5.47	7.11	69.6	11.37	11.70	12.14
	()	95 PCT	4.22	2.68	2.08	2.50	0.18	-6.75	-1.61	0.0	0.0	0.0	0.0	0.0	0.0	-2.21	-0.14	1.99	1.97	2.56	3.00	3.23	4.71	4.22
	DINATE	5 PCT	-0.00	0.28	-0.85	-2.01	-0.94	-2.54	-2.81	0.0	0.0	0.0	0.0	0.0	0.0	-2.21	-0.14	-1.39	-1.66	-1.56	-0.99	-1.24	-0.76	-0.00
	- C0-0R	SE	1.29	0.73	0.89	1.38	0.34	0.54	0.37	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	1.03	1.11	1.26	1.22	1.36	1.67	1.29
	X)	MEAN	2.11	1.48	0.61	0.25	-0.38	-1.64	-2.21	0.0	0.0	0.0	0.0	0.0	0.0	-2.21	-0.14	0.30	0.16	0.50	1.01	0.99	1.98	2.11
	SAMPLE	SIZE,N	4	4	2	5	3	2	2	0	0	0	0	C	0	1	1	2	4	2	4	3	+	4
	TIME	_	0.0	0.10	0.20	0.30	0.40	0.50	09.0	0.10	0.80	06.0	1.00	0-0	0.10	0.20	0.30	0+00	0.50	09.0	0.10	1 0.80	06.0	1.00

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