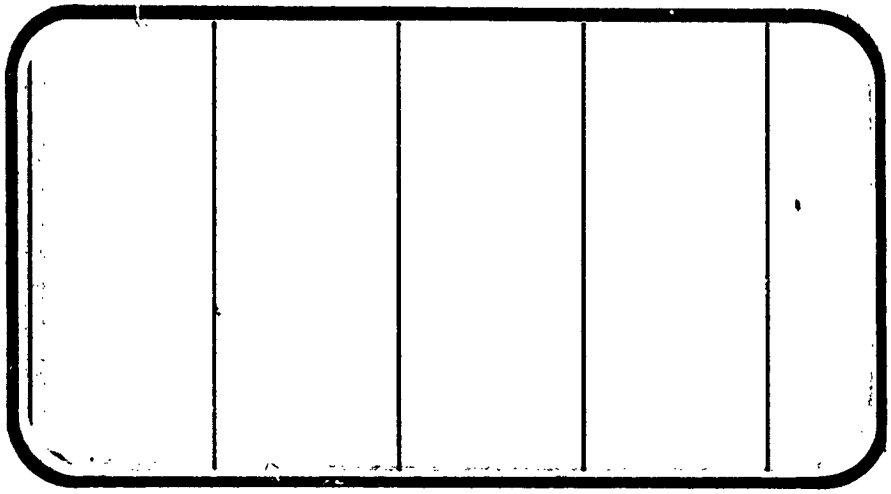
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

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TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 X 11 FOOT TRANSONIC WIND TUNNEL (OA148)

by

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Prepared under NASA Contract Number NAS9-13247

by

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National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	ARC 11-073
NASA Series Number:	OA148
Model Number:	47-0
Test Dates:	May 5 through May 17, 1975
Occupancy Hours:	220

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TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/R IN THE AMES RESEARCH CENTER 11 x 11 FOOT TRANSONIC WIND TUNNEL (OA148)

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ABSTRACT

This report documents data obtained in wind tunnel test OA148.

The objectives of the test series were to:

1) obtain pressure distributions, forces and moments over the vehicle 5 Orbiter in the terminal area energy management (TAEM) and approach phases of flight.

2) obtain elevon and rudder hinge moments in the TAEM and approach phases of flight.

3) obtain body flap and elevon loads for verification of loads balancing with integrated pressure distributions.

4) obtain pressure distributions near the short OMS pods in the high subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with Reynolds number variations from 4.57×10^6 to 2.74×10^6 per foot. Model angle-of-attack was varied from -4 to 16 degrees and angles of side slip ranged from -8 to 8 degrees.

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14	VERTICAL TAIL SPEEDBRAKE DEFLECTION 35 DEGREES	ALPHA, MACH Z/BV, BETA	F	1375-1442

PLOTTED COEFFICIENTS SCHEDULE:

A) CY, CYN and CBL versus BETA

B) CN, CA and CLM versus ALPHA

C) CHEO, CHEI, CHETOT and CHBF versus ALPHA

D) CP versus X/LB

E) CP versus X/CW

F) CP versus X/CV

NOMENCLATURE

Symbol	Plot Symbol	Definition
A_b	AB	total Orbiter base area, ft^2
A_i	Ai	area over which P_i acts, ft^2
A_{sb}	ASB	speed brake base area, ft^2
b	BREF, BW	Orbiter wing span, in
b_v	BV	vertical tail reference span, in
C_{A_u}	CAU	Orbiter uncorrected axial force coefficient
C_A	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
C_{A_F}	CAF	Orbiter forebody axial force coefficient.
$C_{A_{sc}}$	CASC	Orbiter sting cavity axial force coefficient.
C_{D_U}	CDU	Orbiter uncorrected drag coefficient
$C_{h_{bf}}$	CHBF	body flap hinge moment coefficient, about hinge line X_0 = 1532.0
$C_{h_{ei}}$	CHEI	inner elevon hinge moment coefficient, about hinge line X_0 = 1387.0
$C_{h_{eo}}$	CHEO	outer elevon hinge moment coefficient, about hinge line X_0 = 1387.0
$C_{He_{TOT}}$	CHETOT	total right elevon hinge moment coefficient
C_{L_U}	CLU	Orbiter uncorrected lift coefficient
C_ℓ	CBL	Orbiter rolling moment coefficient, body axis system

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
C_m	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
C_{m_u}	CLMU	Orbiter uncorrected pitching moment coefficient
C_{m_F}	CLMF	Orbiter forebody pitching moment coefficient referenced to orbiter MRC.
$C_{m_{sc}}$	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
C_{N_u}	CNU	Orbiter uncorrected normal force coefficient
C_N	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
C_{N_F}	CNF	Orbiter forebody normal force coefficient
$C_{N_{sc}}$	CNSC	Orbiter sting cavity normal force coefficient
C_n	CYN	Orbiter yawing moment coefficient, body axis system
C_{pi}	CPi	surface tap pressure coefficient, port i, $(P_i - P_\infty)/q$
C_Y	CY	Orbiter side force coefficient
$C_{[X][Y]}$	C[X][Y]	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic vectors [X] and [Y] are defined below.
[X]=		
A	A	axial force
N	N	normal force
Y	Y	side force
m	LM	pitching moment
n	YN	yawing moment
ℓ	BL	rolling moment

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
	[Y]=	
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps 1 through 6 see figure 2b sting cavity area upper body flap area
l_b	LB	Orbiter reference body length, IML nose to X_o = 1528.3, in.
ℓ_{REF}	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
M	MACH	freestream Mach number
Φ	PHI	angular cylindrical coordinate position around Orbiter body - deg.
P_i	Pi	pressure at surface tap i, PSF
P_∞	P	freestream static pressure, PSF
P_t	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, ft^2
T_t	TTR	freestream total temperature, °R
X_{cp}	XCP/L	center of pressure location referred to l_b
X_c/L_o	X/LB	longitudinal location of body surface, fraction of body length

NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
X/C	X/CW	chordwise location on wing surface, fraction of local chord
X/C_v	X/CV	chordwise location on vertical tail, fraction of local chord
n_v	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
n	2Y/BW	spanwise location on wing, fraction of semi span
X_{mrp}	XMRP	longitudinal location of moment reference point
XT	XT	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
Y_{mrp}	YMRP	lateral location of moment reference point
Z_T	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
δ_{bf}	BDFLAP	body flap deflection, degrees
δ_{eL}	ELVN-L, L-ELVN	left elevon deflection, degrees
δ_{eR}	ELVN-R, R-ELVN	right elevon deflection, degrees
δ_r	RUDDER	rudder deflection, degrees
δ_{sb}	SPDBRK	speed brake deflection, degrees
Z_{mrp}	ZMRP	vertical location of moment reference point
	$$	mask character used to indicate all possible values for this test 01 through 85

REMARKS

During the course of the test it was necessary to replumb the scanivalves. The resultant time loss necessitated deleting the priority 4 runs which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due to slow leaks noticed while leak checking individual model pressure taps.

Body flap hinge moment data for datasets RE8001 through RE8005 have a -15% drift while datasets RE8006 and RE8007 have a +10% drift due to data recording system errors. System checks during the remainder of the test indicate a system error of less than 4% for body flap hinge moment data.

Rolling moment data has an approximate -.003 bias in the coefficient. The reason for this was not determined, but possible sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

Distortion of the instrumented elevon shaft appears to have occurred around run 310 due to model assembly difficulties and the maximum loads encountered at these test conditions. A comparison of measured elevon deflection before and after the test with the nominal setting is presented below:

Elevon Panel	Nominal	Pre-Test	Post-Test
Inboard right	-10	-9° 36'	-8° 55'
	-4	-3° 34'	-2° 55'
	0	+0° 10'	+1° 02'
	4	+4° 26'	+4° 28'
	10	+10°32'	+10°39'
Outboard right	-10	-9° 36'	-8° 15'
	-4	-3° 34'	-2° 20'
	0	+0° 10' *	+1° 05'
	4	+4° 26'	+3° 59'
	10	+10°32'	+10°18'

* Inboard only was measured but was the same as outboard panel(see Ref 2)

CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originially constructed to -140A/B lines, but was modified prior to this test with the addition of the -140C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thrustor parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrustors) were added, and the slashes deleted for convenience on Table II(designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thrustor ports in the nose were filled reverting the configuration to -140A/B/C modified with body B_{26}.

The following nomenclature denotes the model components:

Component	Description
B_{26}	140A/B fuselage (VL70-000140A, VL70000140B)
B_{70}	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thrustor parts (VL70-08501, VL70-08502, VL70-08296)
C_9	140A/B basic canopy (VL70-000140A, VL70-000143A)
E_{44}	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F_9	140A/B body flap (VL70-000140B, VL70-000200)
M_{16}	OMS-RCS pods for 140C Orbiter
N_{28}	OMS basic nozzles
R_5	basic Orbiter rudder (VL70-000146A, VL70-000095)
V_8	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W_{116}	basic 140A/B wing (VL70-000140B, VL70-000200)

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR ≡ B_{70} C_9 E_{44} F_9 M_{16} N_{28} R_5 V_8 W_{116}

-140 ABC ≡ B_{26} C_9 E_{44} F_9 M_{16} N_{28} R_5 V_8 W_{116}

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from 1.7 x 10^6/ft to 9.4 x 10^6/ft. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

Symbol	Orbiter main balance measurement
NF	Normal Force
AF	Axial Force
PM	Pitching Moment
YM	Yawing Moment
SF	Side Force
RM	Rolling Moment

$$C_{A_u} = AF / (q\,S) \qquad C_{L_u} = C_{N_u} \cos\alpha - C_{A_u} \sin\alpha$$

$$C_{N_u} = NF / (q\,S) \qquad C_{D_u} = C_{N_u} \sin\alpha + C_{A_u} \cos\alpha$$

$$C_Y = SF / (q\,S)$$

$$C_{m_u} = \frac{PM}{qSc} + \frac{C_A \cdot Z_T}{c} - \frac{C_N \cdot X_T}{c}$$

$$C_\ell = \frac{R\,M}{qSb} + \frac{C_Y \cdot Z_T}{b}$$

$$C_n = \frac{YM}{qSb} - \frac{C_Y \cdot X_T}{b}$$

Moment Transfer Distances

X_T = 0.572 in.

Y_T = 0

Z_T = 0.450 in.

The Moment Reference Center about which the data was reduced is located at

	Orbiter (Full Scale)
X_o	1076.68
Y_o	0
Z_o	375.00

Balance coefficients were grouped into datasets RE80$$.

DATA REDUCTION (Continued)

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

HM_{e_I} = (HM1-HM2) (M1/D1) + HM1

HM_{eo} = (HM3-HM4) (M3/D3) + HM3

where

HMi = measured moment on strain gage i

D1 = distance between gages 1 and 2, .49335 in.

D3 = distance between gages 3 and 4, .45800 in.

M1 = moment transfer distance for inboard elevon, .93825 in.

M3 = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

Inboard, $C_{H_{e_I}} = H_{M_{e_I}} / (q\ S_e\ c_e)$

Outboard, $C_{H_{eo}} = H_{M_{e_o}} / (q\ S_e\ c_e)$

Total, $C_{H_{e_{TOT}}} = C_{H_{e_I}} + C_{H_{e_o}}$

S_e = elevon reference area, 0.189 ft.^{2}

c_e = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

$C_{H_{bf}} = HM_{bf} / (q\ S_{bf}\ c_{bf})$

HM_{bf} = measured body flap hinge moment

S_{bf} = body flap reference area, 0.12834 ft.^{2}

c_{bf} = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X$$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{P_i} = (P_i - P_\infty)/q$$

where P_i = pressure at model orifice i

P_∞ = tunnel static pressure

q = tunnel dynamic pressure

Other data reduction constants include:

S = wing reference area, 2.4210 ft.^{2}

c = wing reference chord, 14.2443 in.

b = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES,DMS interpolated it to nominal α's and β's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

U ~ uncorrected coefficients.

~ coefficients with sting cavity pressure corrected to base pressure (without a suffix).

F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$C_{A_{sc}} = \frac{(C_{p2} - C_{p1})\, A_1}{S}$$

$$C_{N_{sc}} = \frac{(C_{p2} - C_{p1})\, A_1 \tan 12.55^\circ}{S}$$

$$C_{m_{sc}} = C_{A_{sc}} \frac{Z_t}{c} - C_{N_{sc}} \frac{X_{sc}}{c}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$C_A = C_{A_u} - C_{A_{sc}}$$

$$C_N = C_{N_u} - C_{N_{sc}}$$

$$C_m = C_{m_u} - C_{m_{sc}}$$

These orbiter coefficients are part of datasets KE80$$.

DATA REDUCTION (Continued)

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$C_{N2u} = -(C_{p2}\, A_{2u} \tan 16°)/S$$

$$C_{A2u} = -(C_{p2}\, A_{2u})/S$$

$$C_{m2u} = \frac{C_{A2u}\, Z_{2u}}{c} - \frac{C_{N2u}\, X_{2u}}{c}$$

Lower base area

$$C_{N2_\ell} = -(C_{p2}\, A_{2_\ell} \tan 10°)/S$$

$$C_{A2_\ell} = -(C_{p2}\, A_{2_\ell})/S$$

$$C_{m2_\ell} = C_{A2_\ell} \frac{Z_{2\ell}}{c} - C_{N2_\ell} \frac{X_{2\ell}}{c}$$

Total base area, A_2

$$C_{N2} = C_{N2_u} + C_{N2_\ell}$$

$$C_{A2} = C_{A2_u} + C_{A2_\ell}$$

$$C_{m2} = C_{m2_u} + C_{m2_\ell}$$

OMS pod base area, A_3

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A3} = -(C_{p3}\, A_3)/S$$

$$C_{m3} = C_{A3} \frac{Z_3}{c}$$

OMS pod base area, A_4

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A4} = -(C_{p4}\ A_4)/S$$

$$C_{m4} = C_{A4}\ \frac{Z4}{c}$$

Coefficients for the above areas are grouped into datasets EE8D$$.

Upper surface of body flap

$$C_{A_{bf}} = \frac{-C_{p_{bf}}\ A_{bf}}{S} \sin\ (\delta_{bf} + 6.88°)$$

$$C_{N_{bf}} = \frac{-C_{p_{bf}}\ A_{bf}}{S} \cos\ (\delta_{bf} + 6.88°)$$

$$C_{m_{bf}} = \frac{C_{A_{bf}}\ Z_{bf}}{c} - \frac{C_{N_{bf}}\ X_{bf}}{c}$$

where:

$$C_{p_{bf}} = \frac{C_{p200} + C_{p201} + C_{p204} + C_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$C_{A_F} = C_{A_u} - \left(\frac{-C_{p1}\ A_1}{S} + \sum_{i\ =\ 2}^{4} C_{Ai} + C_{A_{bf}}\right)$$

$$C_{N_F} = C_{N_u} - \left(C_{N_2} + C_{N_{bf}}\right)$$

$$C_{mF} = C_{mu} - \left(\sum_{i\ =\ 2}^{4} C_{m_i} + C_{m_{bf}}\right)$$

These orbiter coefficients are part of datasets KE80$$.

Vertical tail "undercarriage" area, A_5

Top Segment:

$$C_{N5t} = (C_{p5}\ A_{5t} \tan 63.75°)/S$$

DATA REDUCTION (continued)

$$C_{A5t} = -(C_{p5} A_{5t})/S$$

$$C_{m5t} = C_{A5t} \frac{Z_{5t}}{c} - C_{N5t} \frac{X_{5t}}{c}$$

Middle Segment:

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426°)/S$$

$$C_{A5m} = -(C_{p5} A_{5m})/S$$

$$C_{m5m} = C_{A5m} \frac{Z_{5m}}{c} - C_{N5m} \frac{X_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} \tan 21.94°)/S$$

$$C_{A5b} = -(C_{p5} A_{5b})/S$$

$$C_{m5b} = C_{A5b} \frac{Z_{5b}}{c} - C_{N5b} \frac{X_{5b}}{c}$$

Total area, A_5:

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$C_{M5} = C_{m5t} + C_{m5m} + C_{m5b}$$

Vertical Tail base area, A_6:

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} \tan 63.75°)/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$C_{m6u} = C_{A6u} \frac{Z_{6u}}{c} - C_{N6u} \frac{X_{6u}}{c}$$

Rudder/Speed brake base:

$$C_{A6_\ell} = C_{p6}\, A_{6'_\ell} [\sin(\theta - 55.1667°)\cos 55.1667° + \cos(\theta - 55.1667°)\sin 55.1667°\cos(\delta r)]/S$$

$$C_{N6_\ell} = C_{p6}\, A_{6'_\ell} [\sin(\theta - 55.1667°)\sin 55.1667° - \cos(\theta - 55.1667°)\cos 55.1667°\cos(\delta r)]/S$$

$$C_{Y6_\ell} = C_{p6}\, A_{6'_\ell} \cos(\theta - 55.1667°)\sin \delta r/S$$

$$C_{m6_\ell} = [C_{A6_\ell}(Z_{6_\ell}) - C_{N6}(X_{6_\ell})]/c$$

$$C_{\ell 6_\ell} = [C_{Y6_\ell}(Z_{6_\ell})]/b$$

$$C_{n6_\ell} = -[C_{Y6}(X_{6_\ell})]/b$$

$$\theta = \tan^{-1}\left[\frac{5.456791 + .573209\cos\left(\frac{\delta SB}{2}\right)}{3.797715 - .823715\cos\left(\frac{\delta SB}{2}\right)}\right]$$

$$A_{6'_\ell} = A_{6_\ell}/\sin\theta$$

Total area, A_6:

$$C_{A6} = C_{A6u} + C_{A6\ell}$$

$$C_{N6} = C_{N6u} + C_{N6\ell}$$

$$C_{Y6} = C_{Y6\ell}$$

$$C_{m6} = C_{m6u} + C_{m6\ell}$$

$$C_{\ell 6} = C_{\ell 6\ell}$$

$$C_{n6} = C_{n6_\ell}$$

Vertical tail area coefficient data are grouped into datasets GE8D$$.

BASE GEOMETRIC PROPERTIES MATRIX

Description	Sub-script	Area A - ft.^{2}	Distance between Centroid and MRC vertical Z - in.	Distance between Centroid and MRC longitudinal X - in.
Sting cavity	sc	0.076699	0.45	12.199
Body flap upper surface	bf	0.128	- 2.64	13.659
Orbiter balance cavity	1	0.076699	0.45	12.199
Orbiter base orifice 2 lower	2ℓ	0.133889	- 1.32	12.617
Orbiter base orifice 2 upper	2u	0.0818055	2.07	12.384
Lower OMS pod	3	0.030472	2.68	NA
Upper OMS pod	4	0.074166	3.63	NA
Vertical tail "undercarriage" bottom	5b	0.003565	4.612	12.395
Vertical tail "undercarriage" middle	5m	0.002610	5.336	14.079
Vertical tail "undercarriage" top	5t	0.000341	5.97	15.185
Vertical tail above rudder	6u	0.000798	12.656	18.482
Base area of speed brake	6ℓ	Varies with speed brake deflection		

NOTES: Sting cavity and Orbiter balance cavity are synonymous.

NA - not applicable.

DATA REDUCTION (Continued)

δ_{sb}	$A6_{\ell}$ ft^2
0	0.0066036
25	0.0456000
35	0.0621000
55	0.0950800
85	0.1551400

$$X_{6\ell} = 15.045 + 1.442277\ [1-\cos\ (\delta sb/2)]$$

$$Z_{6\ell} = 9.755 + 0.501827\ [1-\cos\ (\delta sb/2)]$$

Standard DMS loads cycle test procedures were used to process the OA148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:

DATA REDUCTION (Continued)

OA148 Bad Pressure Data

Component	Dataset No.	Tap No.	β	α
Fuselage (B)	1	143	4	-4
	1	148	4	-4
	1	150	4	-4
	1	152	4	-4
	1	186	4	-4
	1	187	4	-4
	1	189	4	-4
	1	191	4	-4
	1	193	4	-4
Lower Wing (L)	1 → 7	231	ALL	ALL
	1 → 85	290	ALL	ALL
	1	316	4	-4
	1	317	4	-4
	1	337	4	-4
	1	338	4	-4
	1	358	4	-4
	1	378	4	-4
	1	379	4	-4
	1	398	4	-4
Upper Wing (U)	1 → 7	247	ALL	ALL
	1	357	4	-4
Body Flap (F)	24	205	-4	12
Speed Brake (K)	1 → 85	822	ALL	ALL
Vertical Tail (V)	8	443	ALL	ALL
	ALL	1444	ALL	ALL
	79	1453	-4	-4
	79	1454	-4	-4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

VOLUME NO.	CONTENTS
1	Force data plots showing lateral-directional longitudinal and hinge moment characteristics.
2	Plots illustrating the effect of control surface deflections on fuselage, wing and vertical tail pressure distributions.

DATA REDUCTION (Concluded)

VOLUME NO. — CONTENTS

3 — Tabulated Force Data

Dataset	Data type
RE80$$	source balance coefficients
RE8X$$	source hinge moment coefficients
RE8Y$$	source base pressure coefficients
KE80$$	interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
EE8D$$ FE8D$$	interpolated base and cavity area coefficients
GE8D$$	interpolated vertical tail base area coefficients

Tabulated Pressure Data

	Component	Fourth Character*	Page
4, 5	orbiter fuselage	B	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12	upper body flap	F	5405
12	lower body flap	G	5774
13	speed brake	K	6143
13	vertical tail	V	6547

* The fourth character in each dataset identifier (i.e., XE8BXX, B for Fuselage) represents the individual component.

REFERENCES

1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-O Pressure Loads Space Shuttle Model in the 11 x 11 Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.

2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-O (140A/B Configuration)". SAS/WTO/75-283, July 29, 1975.

TABLE I

TEST : 0A148 DATE : May 1975

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	4.57×10^6	4.166	120
0.90	3.41×10^6	4.166	120
1.10	3.05×10^6	4.166	120
1.25	2.86×10^6	4.166	120
1.40	2.74×10^6	4.166	120

BALANCE UTILIZED: ARC Task MK XX A

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	3000 lbf/gage		
SF	1500 lbf/gage		
AF	600 lbf		
PM	27,000 in-lbf		
RM	4000 in-lbf		
YM	10,500 in-lbf		

COMMENTS: Maximum normal and side force dependent upon point of application

ARC 1-073

TABLE II.

TEST: OA 148 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: Post Test

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{SF}	δ_{EL}	δ_{EB}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
R=8001	-140 ABCR	B	D	0	55	16.3	0	0	32	33	34	35	58	59	1.4	
002		A	D						38	39	40	41	42		1.25	
003		A	D						43	44	45	46	47		1.1	
004		A	D						48	49	50	51	52		0.9	
005		A	C						53	54	55	56	57		0.6	
006	-140 ABCR	A	C	0	55	22.5	0	0	60	61	62	63	64		0.6	
007		A	D						68	66	67	69	70		0.9	
008	-140 ABCR	B	D	0	85	22.5	0	0	71	72	73	74	75	76	1.4	
009		A	D						77	78	79	80	81		1.25	
010		A	D						82	83	84	85	86		1.1	
011		A	D						87	88	89	90	91		0.9	
012		A	C						92	93	94	95	96		0.6	

1 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

A_α = -4, 0, 4, 8, 12

B_α = -4, 0, 4, 8, 12, 16

C_β = -8, -4, 0, 4, 8

D_β = -4, 0, 4

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TABLE II - Continued.

TEST: OA 148 | DATA SET RUN NUMBER COLLATION SUMMARY | DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SL}	δ_{BF}	δ_{EL}	δ_{ER}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
RE8013	-140 ABCR	B	D	0	35	0	0	0	97	98	99	100	101	102	1.4	
014		A	D						103	104	105	106	107		1.25	
015		A	D						108	109	110	111	112		1.1	
016		A	D						113	114	115	116	117		0.9	
017		A	C						118	119	120	121	122		0.6	
018	-140 ABCR	B	D	0	0	-11?	0	0	123	124	125	126	127	128	1.4	
019		A	D						131	129	130	132	133		1.25	
020		A	D						134	135	136	137	138		1.1	
021		A	D						139	140	141	142	143		0.9	
022		A	C						144	145	146	147	148		0.6	
023	-140 ABCR	B	D	0	0	0	0	0	149	150	151	152	153	154	1.4	
024		A	D						155	156	157	158	159		1.25	
025		A	D						160	161	162	163	164		1.1	
026		A	D						165	166	167	168	169		0.9	
027		A	C						170	171	172	173	174		0.6	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS | IDVAR (1) | IDVAR (2) | NDV

α OR β SCHEDULES

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TABLE II. - Continued.

TEST: OA 148 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: Post Test

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_r	δ_{SB}	δ_{BF}	δ_{EL}	δ_{EB}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
RE8028	140 ABCR	B	D	-10	35	163	10	0	175	176	177	178	179	180	1.4	
029		A	D						181	182	183	184	185		1.25	
030		A	D						186	187	188	189	190		1.1	
031		A	D						191	192	193	194	195		0.9	
032		A	C						196	197	198	199	200		0.6	
033	140 ABCR	B	D	+10	35	163	0	10	201	202	203	204	205	206	1.4	
034		A	D						207	208	209	210	211		1.25	
035		A	D						212	213	214	215	216		1.1	
036		A	D						217	218	219	220	221		0.9	
037		A	C						222	223	224	225	226		0.6	
038	140 ABCR	B	D	+10	85	163	10	10	227	228	229	230	231	232	1.4	
039		A	D						233	234	235	236	237		1.25	
040		A	D						238	239	240	241	242		1.1	
041		A	D						243	244	245	246	247		0.9	
042		A	C						248	249	250	251	252		0.6	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES

NASA-MSFC-MAF

TABLE II. - Continued.

TEST: OA 148 | DATA SET RUN NUMBER COLLATION SUMMARY | DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SS}	δ_{BF}	δ_{BL}	δ_{BB}	MACH NUMBERS α -4	0	4	8	12	16				TEST RUN NUMBER
ZEB043	140 ABCR	A	D	0	55	225	10	10	253	254	255	256	257			0.9		
044		A	C						258	259	260	261	262			0.6		
045	140 ABCR	A	D	0	55	225	4	4	263	264	265	266	267			0.9		
046		A	C						268	269	270	271	272			0.6		
047	140 ABCR	B	D	-10	85	163	4	4	273	274	275	276	277	278		1.4		
048		A	D						279	280	281	282	283			1.25		
049		A	D						284	285	286	287	288			1.1		
050		A	D						289	290	291	292	293			0.9		
051		A	C						294	295	296	297	298			0.6		
052	140 ABCR	B	D	-10	55	163	-4	+4	299	300	301	302	303	304		1.4		
053		A	D						305	306	307	308	309			1.25		
054		A	D						310	311	312	313	314			1.1		
055		A	D						315	316	317	318	319			0.9		
056		A	C						320	321	322	323	324			0.6		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS | IDVAR (1) | IDVAR (2) | NDV

α OR β SCHEDULES

NASA-MSFC-MAF

TABLE II. - Continued.

TEST: OA 148 | DATA SET RUN NUMBER COLLATION SUMMARY | DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{BF}	δ_{EL}	δ_{ER}	α: -4	0	4	8	12	16	MACH NUMBERS				TEST RUN NUMBER
REBOOT	-140A2CR	B	D	10	55	16.3	4	-4	325	326	327	328	329	330		1.4			
058		A	D						331	332	333	334	335			1.25			
059		A	D						336	337	338	339	340			1.1			
060		A	D						341	342	343	344	345			0.9			
061		A	C						346	347	348	349	350			0.6			
063	-140ABCR	B	D	+5	55	16.3	-4	-4	351	352	353	354	355	356		1.4			
063		A	D						357	358	359	360	361			1.25			
064		A	D						362	363	364	365	366			1.1			
065		A	D						367	368	369	370	371			0.9			
066		A	C						372	373	374	375	376			0.6			
067	-140A2CR	A	D	0	55	2.5	-4	-4	377	378	379	380	381			1.3			
068		A	C						382	383	384	385	386			0.6			
069	-140A2C	A	D	0	55	2.5	-10	-10	387	388	389	390	391			0.9			
070		A	C						392	393	394	395	396			0.6			

1 7 13 19 25 31 37 43 49 55 61 67 73 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

NASA-MSFC-MAF

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE II. - Concluded.

TEST: OA148 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{DF}	δ_{EL}	δ_{EB}	X: -4	0	+4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
2E8071	-140 ABC	B	D	-5	55	16.3	-10	-10	397	398	399	400	401	402	1.4	
072		A	D						403	404	405	406	407		1.25	
073		A	D						408	409	410	411	412		1.1	
074		A	D						413	414	415	416	417		0.9	
075		A	C						418	419	420	421	422		0.6	
076	-40 ABC	B	D	+10	0	-11.7	+10	-10	423	424	425	426	427	428	1.4	
077		A	D						429	430	431	432	433		1.25	
078		A	D						434	435	436	437	438		1.1	
079		A	D						439	440	441	442	443		0.9	
080		A	C						444	445	446	447	448		0.6	
081	-140 ABC	B	E	10	0	-11.7	-10	+10	449	450	451	452	453	454	1.4	
082		A	E						455	456	457	458	459		1.25	
083		A	E						460	461	462	463	464		1.1	
084		A	F						465	466	467	468	469		0.9	
085		A	O						470	471	472	473	474		0.6	

1 7 13 19 25 31 37 43 49 55 61 67 73 76

α OR β SCHEDULES

COEFFICIENTS

E_β = 0 @ α = -4 0 8 16
-4 0 4 @ α = 4 12

IDVAR (1) IDVAR (2) NDV

F_β = 0 @ α = -4, 0, 8, 12
-4 0 4 @ α = 4

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TABLE III
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B_{26}

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B_{26} is identical to B_{24} except underside of fuselage has been refaired to accept W_{116}.

MODEL SCALE: 0.030 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER : VL70-000143B, -000200, -000205, -006089, -000145
VL70-000140A, -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X_0 =235), In.	1293.3	38.799
Length (IML: Fwd Sta X =238), In.	1290.3	38.709
Max Width (@ X_0 = 1528.3), In.	264.0	7.920
Max Depth (@ X_0 = 1464), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft^2		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Continued)

MODEL COMPONENT : BODY - B_{70}

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage with forward fuselage RCS thruster ports, otherwise B_{70} is identical to B_{26}.

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140A, -000140B, -000143B, -000145, -000200, VL70-000205, -006089, -008501, -008502, -008296

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta X_O=235), In.	1293.3	38.799
Length (IML: Fwd Sta X_O =238), In.	1290.3	38.709
Max Width (@ X_O = 1528.3), In.	264.0	7.920
Max Depth (@ X_O = 1464), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft^2		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Cont'd)

MODEL COMPONENT : CANOPY - C_9

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage B_{26}.

MODEL SCALE: 0.030 MODEL DWG: SS-A00147, Release 12

DRAWING NUMBER : VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X_0=434.643 to 578), In.	143.357	4.301
Max Width (@ X_0 = 513.127), In.	152.412	4.572
Max Depth (@ X_0 = 485.0), In.	25.00	0.750
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE III (Cont'd)

MODEL COMPONENT ELEVON - E_{44}

GENERAL DESCRIPTION 6.0 In. F.S. caps machined into E_{26} elevon. Flipper doors centerbody pieces, and tipseals are not simulated. (Data are for one of two sides.)

MODEL SCALE: 0.030

DRAWING NUMBER

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft^2	210.0	0.189
Span (equivalent) , In.	349.2	10.476
Inb'd equivalent chord, In.	118.0	3.54
Outb'd equivalent chord , In.	55.19	1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline	0.0	0.0
Area Moment (Product of Area & $\bar{c}$)^3 ,Ft^3	1587.25	0.0429
Mean Aerodynamic Chord, In.	90.7	2.721

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - F_9

GENERAL DESCRIPTION : Configuration 140A/B

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth , In.	23.00	0.690
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional		
Planform	142.60	0.128
Wetted		
Base	41.90	0.0377

TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M_{16}

GENERAL DESCRIPTION : Configuration 140C orbiter OMS pod - short pod. External contour is to referenced drawings with 1/2" added to simulate TPS.

MODEL SCALE: 0.015

DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X_0 =1310.5), In.	258.50	7.755
Max Width (@ X_0 = 1511), In.	136.8	4.104
Max Depth (@ X_0 = 1511), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area - Ft^2		
Max. Cross-Sectional	58.865	0.053
Planform		
Wetted		
Base		

TABLE III (Cont'd)

MODEL COMPONENT: OMS NOZZLES - N_{28}

GENERAL DESCRIPTION: Configuration 140A/B orbiter OMS nozzles

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Release 9 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft^2		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Nozzle		
X_0	1518.0	45.54
Y_0	- 88.0	- 2.64
Z_0	492.	14.76
Right Nozzles		
X_0	1518.0	45.54
Y_0	88.0	2.64
Z_0	492.0	14.76
Null Position - Deg.		
Left Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'
Right Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'

TABLE III (Cont'd)

MODEL COMPONENT RUDDER - R$_r$

GENERAL DESCRIPTION Configuration 140C orbiter rudder (identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000146B, -000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft^2	100.15	0.090
Span (equivalent), In.	201.00	6.030
Inb'd equivalent chord, In.	91.585	2.748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Product of area & $\bar{c}$), Ft^3	610.92	0.0165
Mean Aerodynamic Chord, In.	73.2	2.196

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V_8

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail. (Identical to configuration 140A/B vertical tail.)

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2		
Planform	413.253	0.372
Span (Theo) - In.	315.72	9.472
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	8.055
Tip (Theo) WP	108.47	3.254
MAC	199.81	5.994
Fus. Sta. of .25 MAC	1463.35	43.901
W.P. of .25 MAC	635.52	19.066
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.0	10.0
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.0	0.060
Void Area	13.17	0.0019
Blanketed Area	0.0	0.0

TABLE III (Conl'd)

MODEL COMPONENT: WING-W_{116}

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W_{111}, except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.030

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2	2690.00	2.421
Planform Span (Theo In.	936.68	28.10
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	- 10.056	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	20.677
Tip, (Theo) B.P.	137.85	4.136
MAC	474.81	14.244
Fus. Sta. of .25 MAC	1136.83	34.105
W.P. of .25 MAC	290.58	8.717
B.L. of .25 MAC	182.13	5.464
EXPOSED DATA		
Area (Theo) Ft^2	1751.50	1.576
Span, (Theo) In. BP108	720.68	21.620
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	16.863
Tip 1.00 $\frac{b}{2}$	137.85	4.136
MAC	392.83	11.785
Fus. Sta. of .25 MAC	1185.98	35.579
W.P. of .25 MAC	295.30	8.829
B.L. of .25 MAC	251.77	7.555
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	113.18	0.102
Leading Edge Intersects Fus M. L. @ Sta	500.0	15.0
Leading Edge Intersects Wing @ Sta	1025.0	30.720

TABLE IV.

FUSELAGE PRESSURE TAP LOCATIONS –

ORBITER – IN.			Φ RADIAL LOCATION – DEGREES																					
FULL	MOD	X_o/L_o	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	NO TAPS	Σ NO TAPS
235	7.05	0	7																			1	1
245	7.35	.008	8					9													10	3	4
265	7.95	.023	11	12	13	14	15	16			17			18							19	9	13
295	9.85	.046		24	25	26	27	28			29			30							31	8	21
325	9.75	.070		36	37	38	39	40			41			42							43	8	29
330	11.40	.112	47	48	49	50	51	52			53			54							55	9	38
440	13.20	.158																		59		1	39
450	13.50	.166	60	61	62	63	64	65			66			67					68		69	10	49
465	13.95	.177													73		74					2	51
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	11	62
560	16.80	.251	89		90		91	92			93			94				95			96	8	70
625	18.75	.301	98		99		100	101			102			103				104			105	8	78
725	21.75	.378	107		108		109	110			111			112				113			114	8	86
880	26.40	.497	116		117		118	119			120			121				122			123	8	94
980	29.40	.574	125		126																	2	96
1080	32.40	.652	128		129		130	131			132			133				134			135	8	104
1180	35.40	.729	137		138		139	140			141			142							143	7	111

REPRODUCIBILITY OF THE

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

ORBITER-IN.			Φ RADIAL LOCATION ~ DEGREES																									
FULL	Model	X_B/L_B	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ NO TAPS
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154				10	10
1300	39.0	.821	156		157		158	159	160		161	162		163							164				9	19
1375	41.25	.879	166		167		168	169	170		171	172		173				174							9	28
1430	42.9	.921	176		177		178	179	180		181	182		183				184							9	37
1480	44.4	.960	186		187		188	189	190		191	192		193				194							9	46
1530	45.9	.999								196 198	197 199														4	50

TABLE V.

η	y_0	LEFT WING PRESSURE TAP LOCATIONS																No TAPS	Σ No TAPS
.235	110	X/C	0	.041	.113	.247	.429	.547	.633	.727	.793								9
		TOP	208	209	210	211	212	213	214	215	216							9	
		BOT	—	—	—	—	—	—	—	—	—							0	
.299	140	X/C	0	.010	.020	.050	.0943	.229	.362	.497		.700	.834	.865	.900	.965			34
		TOP	217	218	219	220	221	222	223	224		225	226	227	228	229		13	
		BOT		230	231	232	233	234	235	236		237	238	239	240	241		12	
.364	170	X/C	0	.010	.020	.040	.086	.163	.246	.390		.637	.798	.839	.879	.919	.955		61
		TOP	242	243	244	245	246	247	248	249		250	251	252	253	254	255	14	
		BOT		256	257	258	259	260	261	262		263	264	265	266	267	268	13	
.427	200	X/C	0	.010	.020	.040	.083	.177	.274	.402	.565	.760	.808	.857	.905	.953	1.00		89
		TOP	269	270	271	272	273	274	275	276	277	278	279	280	281	282		14	
		BOT		283	284	285	286	287	288	289	290	291	292	293	294	295	296	14	
.534	250	X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950			116
		TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310		14	
		BOT		311	312	313	314	315	316	317	318	319	320	321	322	323		13	

TABLE V. - Concluded.

η	Y_0	LEFT WING PRESSURE TAP LOCATIONS																NO TAPS	Σ NO TAPS
.641	300	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00				123
		TOP										333	334	335				3	
		BOT										341	345	346	347			4	
.673	315	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00				140
		TOP	324	325	326	327	328	329	330	331	332							9	
		BOT		336	337	338	339	340	341	342	343							8	
.780	365	X/C	0	.010	.020	.050	.150	.250	.650	.750	.850	.950							159
		TOP	348	349	350	351	352	353	354	355	356	357						10	
		BOT		358	359	360	361	362	363	364	365	366						9	
.887	415	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.0						179
		TOP	367	368	369	370	371	372	373	374	375	376						10	
		BOT		377	378	379	380	381	382	383	384	385	386					10	
.972	455	X/C	0	.020	.069	.157	.345	.503	.620	.862									194
		TOP	387	388	389	390	391	392	393	394								8	
		BOT		395	396	397	398	399	400	401								7	
1.0	4623	X/C	.418	.723															196
		TOP	402	403														2	
		BOT																	

TABLE VI.

ORBITER VERTICAL TAIL & SPEED BRAKE

PRESSURE TAP LOCATIONS

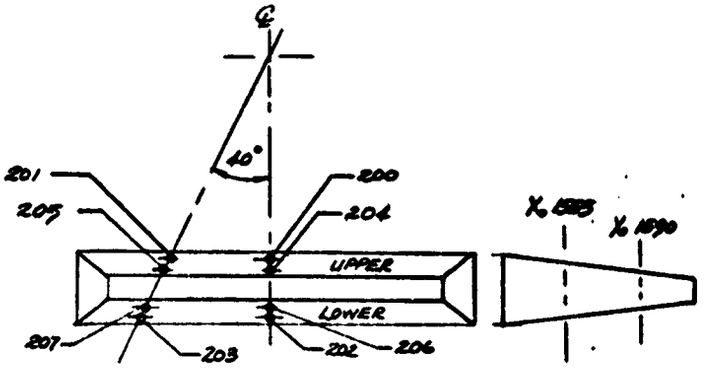
VERTICAL (LH ONLY)		X/C_V											
Z_o FULL SCALE	Z_o MODEL SCALE	η_V	0	.025	.05	.15	.30	.52	.685	.775	.90	NO TAPS	Σ NO TAPS
550	16.5	.153	430	431	432	433	434	435	436	437		8	8
600	18.0	.316	438	439	440	441	442	443	444	445	446	9	17
645	19.35	.459							1444	1445	1446	3	20
690	20.70	.600	447	448	449	450	451	452	453	454	455	9	29
720	21.6	.720							1453	1454	1455	3	32
765	22.95	.840	456	457	458	459	460	461	462	463	464	9	41
792	23.76	.925	465	466	467	468	469	470	471	472	473	9	50

SPEED BRAKE (R H INSIDE)		X/SB_V							
Z_o FULL SCALE	Z_o MODEL SCALE	η/SB	.10	.25	.40	.65	.90	NO TAPS	Σ NO TAPS
600	18.0	.110	801	802	803	804	805	5	5
630	18.9	.254	806	807	808	809	810	5	10
666	19.8	.407	811	812	813	814	815	5	15
690	20.7	.567	816	817	818	819	820	5	20
720	21.6	.706	821	822	823	824	825	5	25
750	22.5	.856	826	827	828	829	830	5	30

TABLE VII.

BODYFLAP PRESSURE TAP LOCATIONS

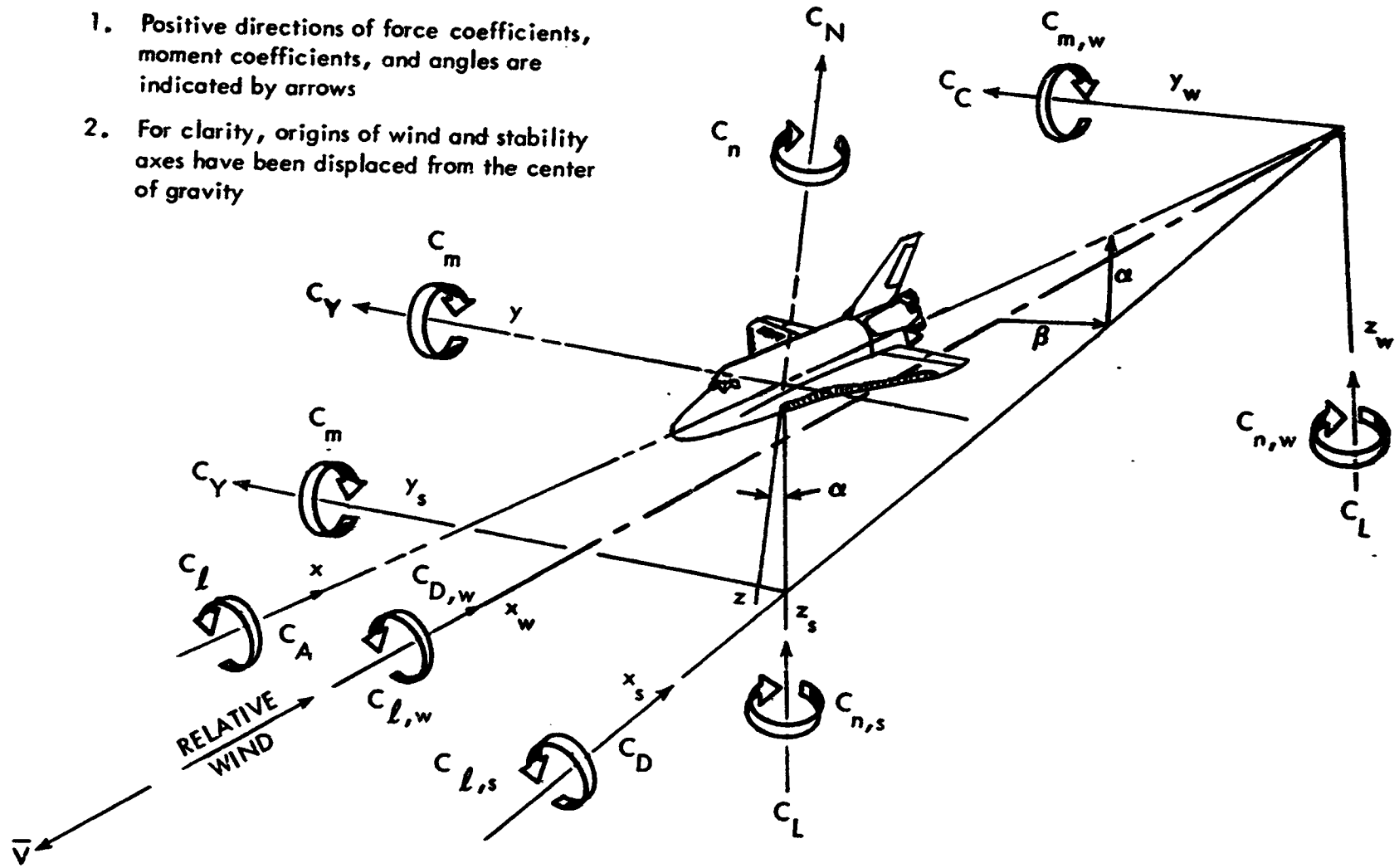
ORBITER ~ X_o			ϕ ~ DEGREES			
FULL SCALE	MODEL SCALE	X_o/L_o	0	40	No. TAPS	Σ No TAPS
1555 U	46.65	1.018	200	201	2	2
1555 L	46.65	1.018	202	203	2	4
1590 U	47.70	1.046	204	205	2	6
1590 L	47.70	1.046	206	207	2	8



LOOKING FORWARD.

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

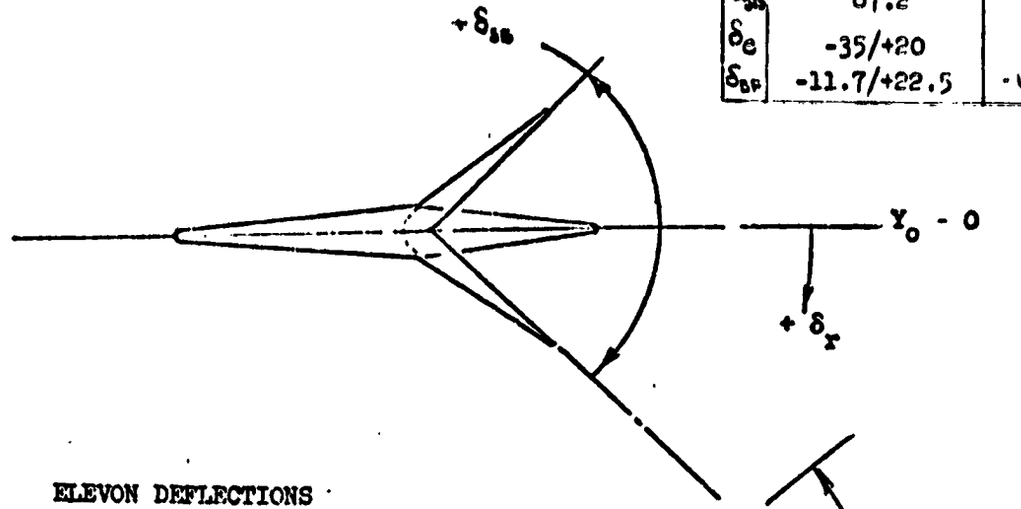


a. Orbiter Axis Systems

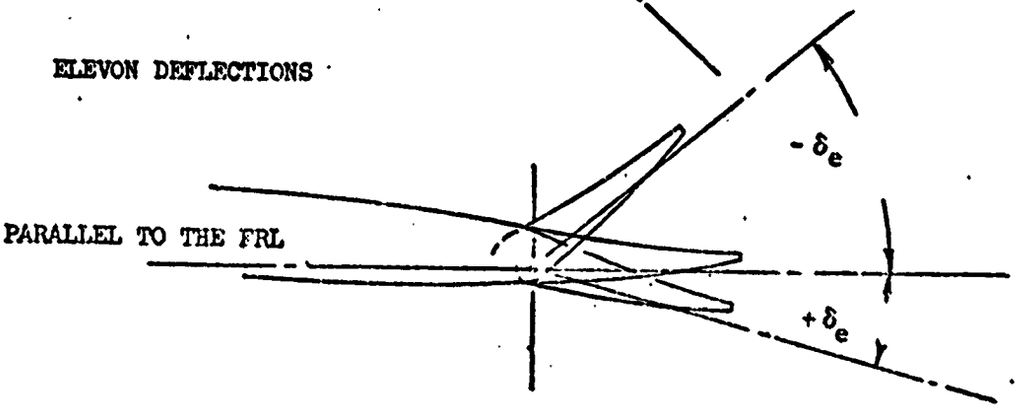
Figure 1. - Axis systems and sign conventions

RUDDER AND SPEED BRAKE DEFLECTIONS
(PARALLEL TO THE FRL)

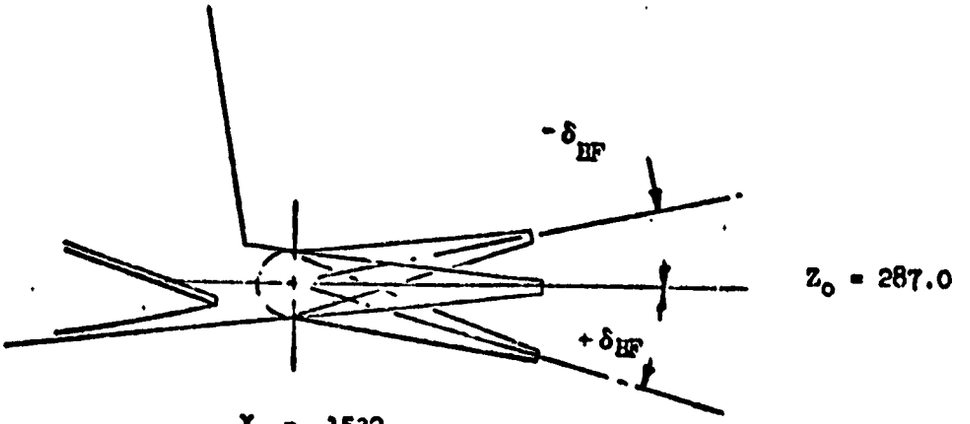
	Maximum Deflections	
	Vehicle [illegible]	Test CA145
δ_r	22.8	± 10
δ_{sb}	87.2	85
δ_e	-35/+20	± 10
δ_{BF}	-11.7/+22.5	-11.7/+22.5



ELEVON DEFLECTIONS

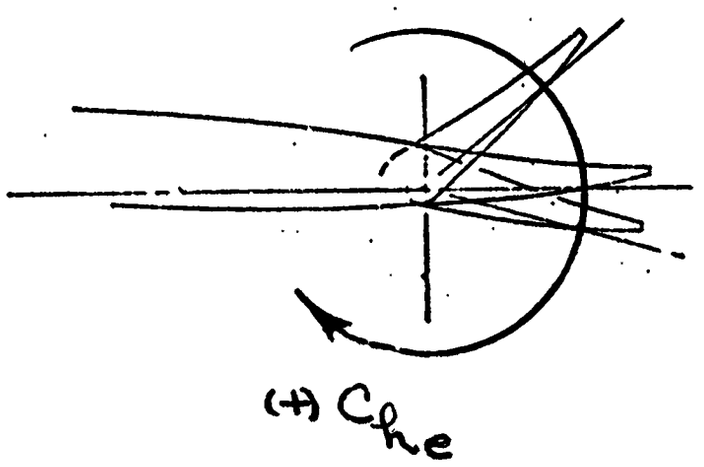


BODY FLAP DEFLECTIONS



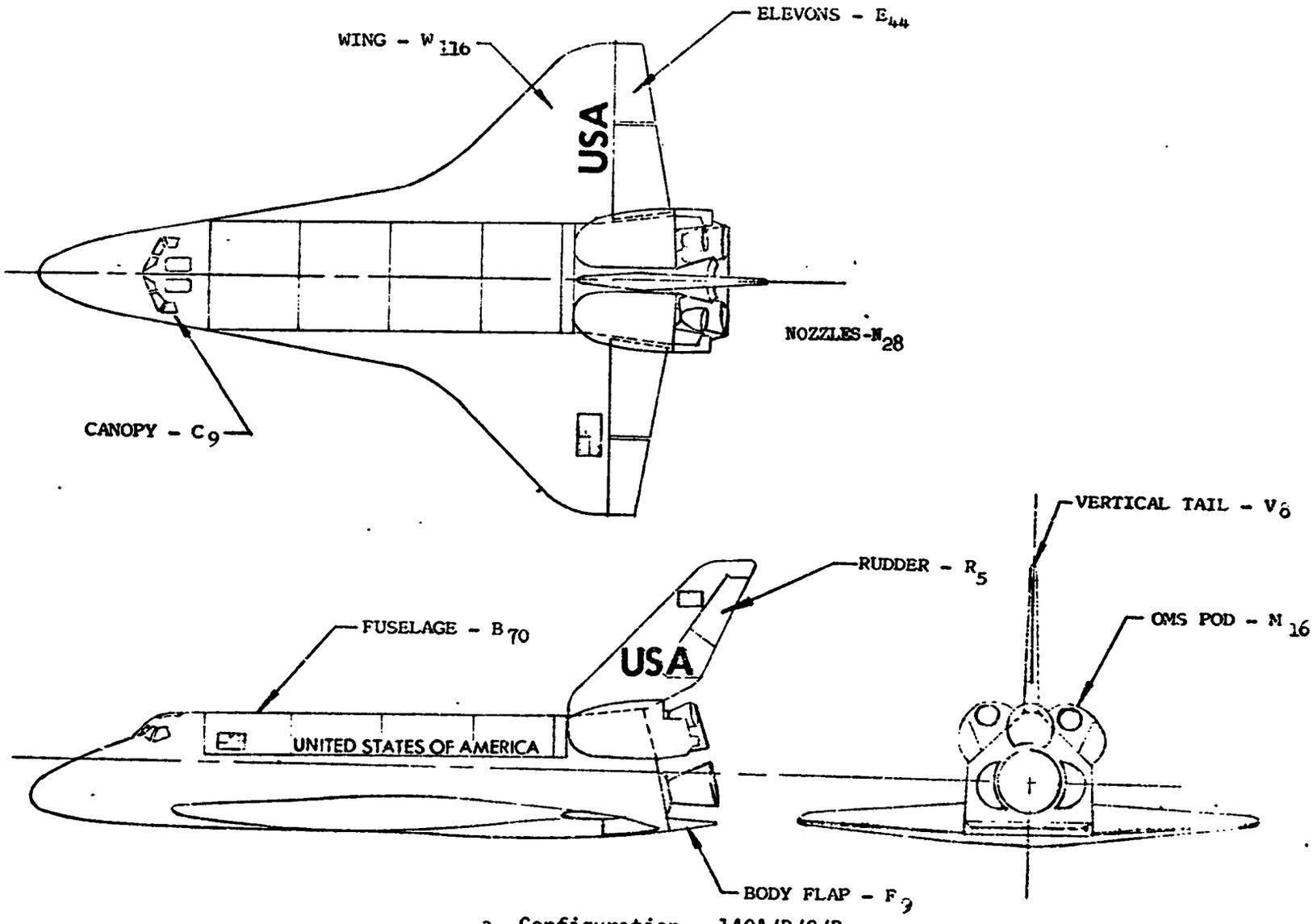
b. Definition of Angular Measurements

Figure 1. - Continued.



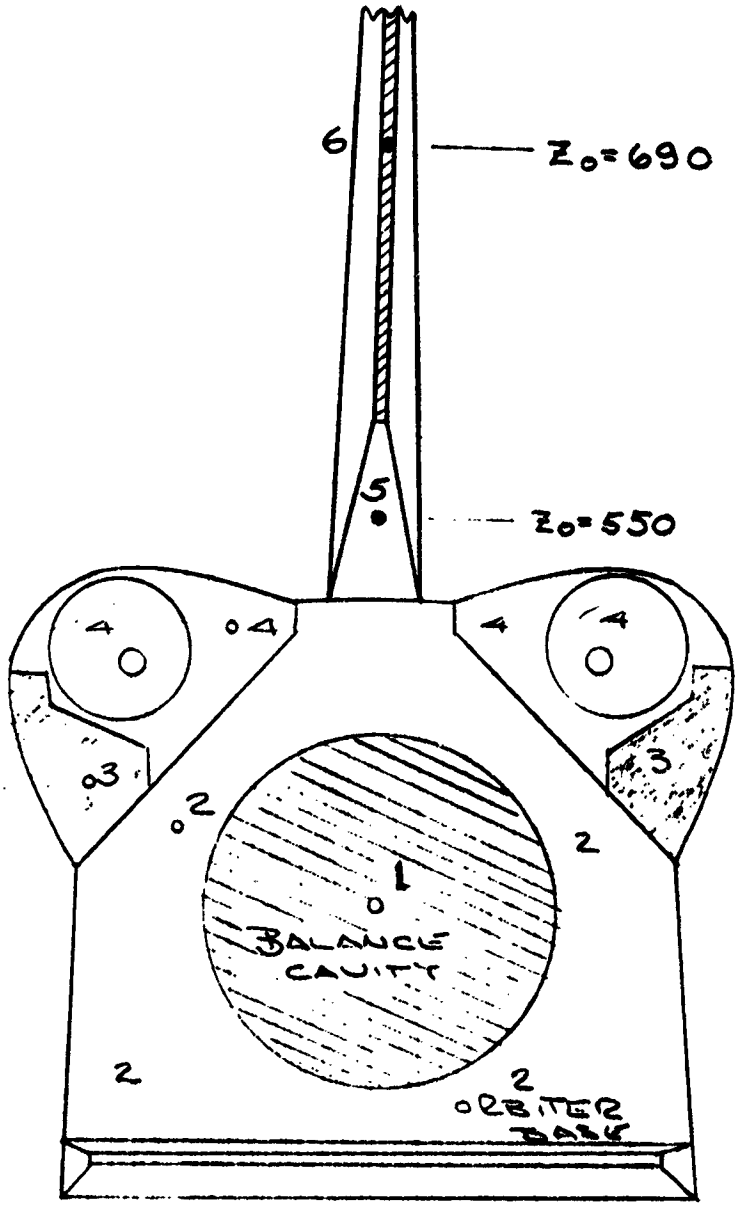
c. Elevon Hinge Moment Sign Convention

Figure 1. - Concluded.



a. Configuration - 140A/B/C/R

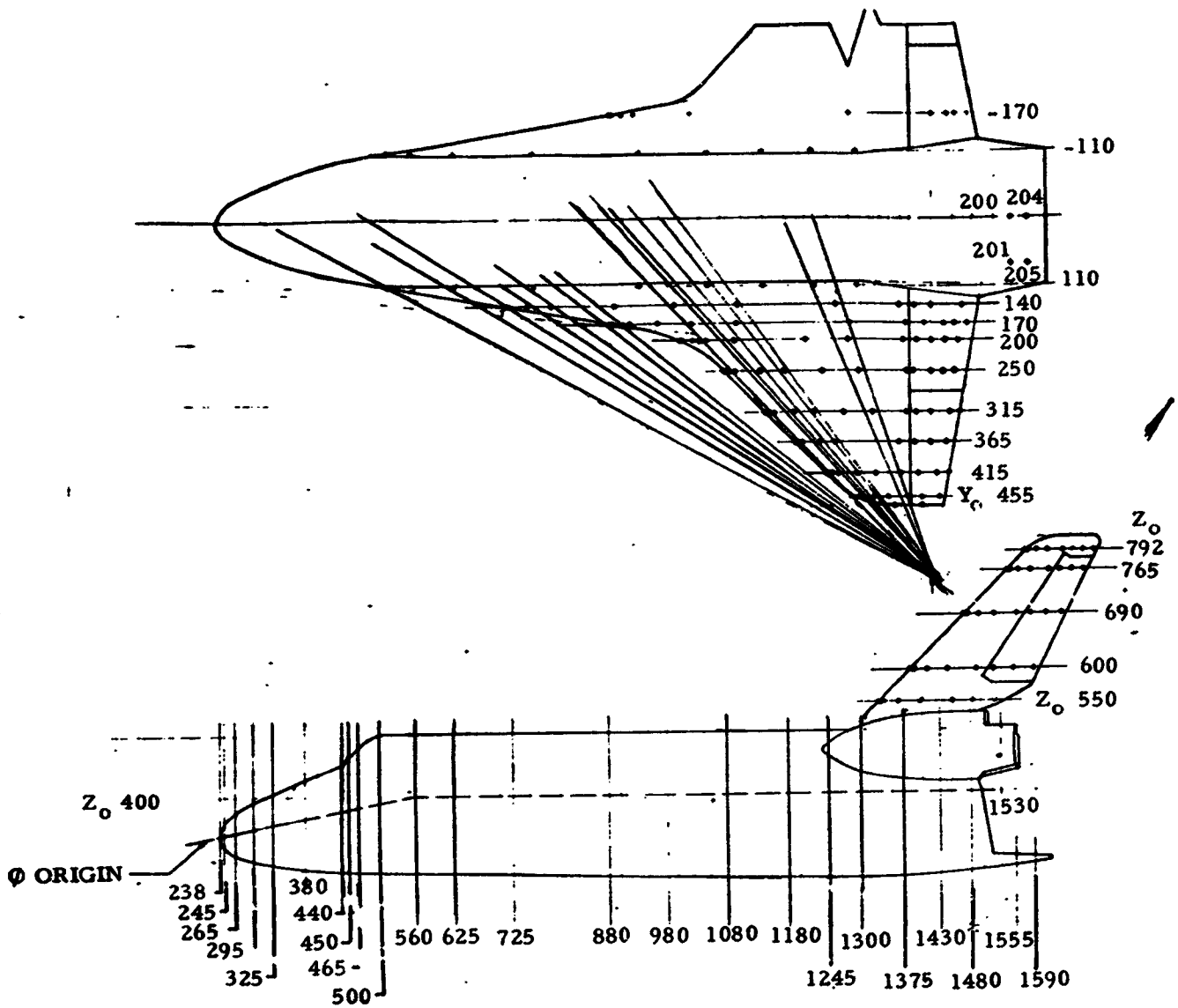
Figure 2. - Model sketches.



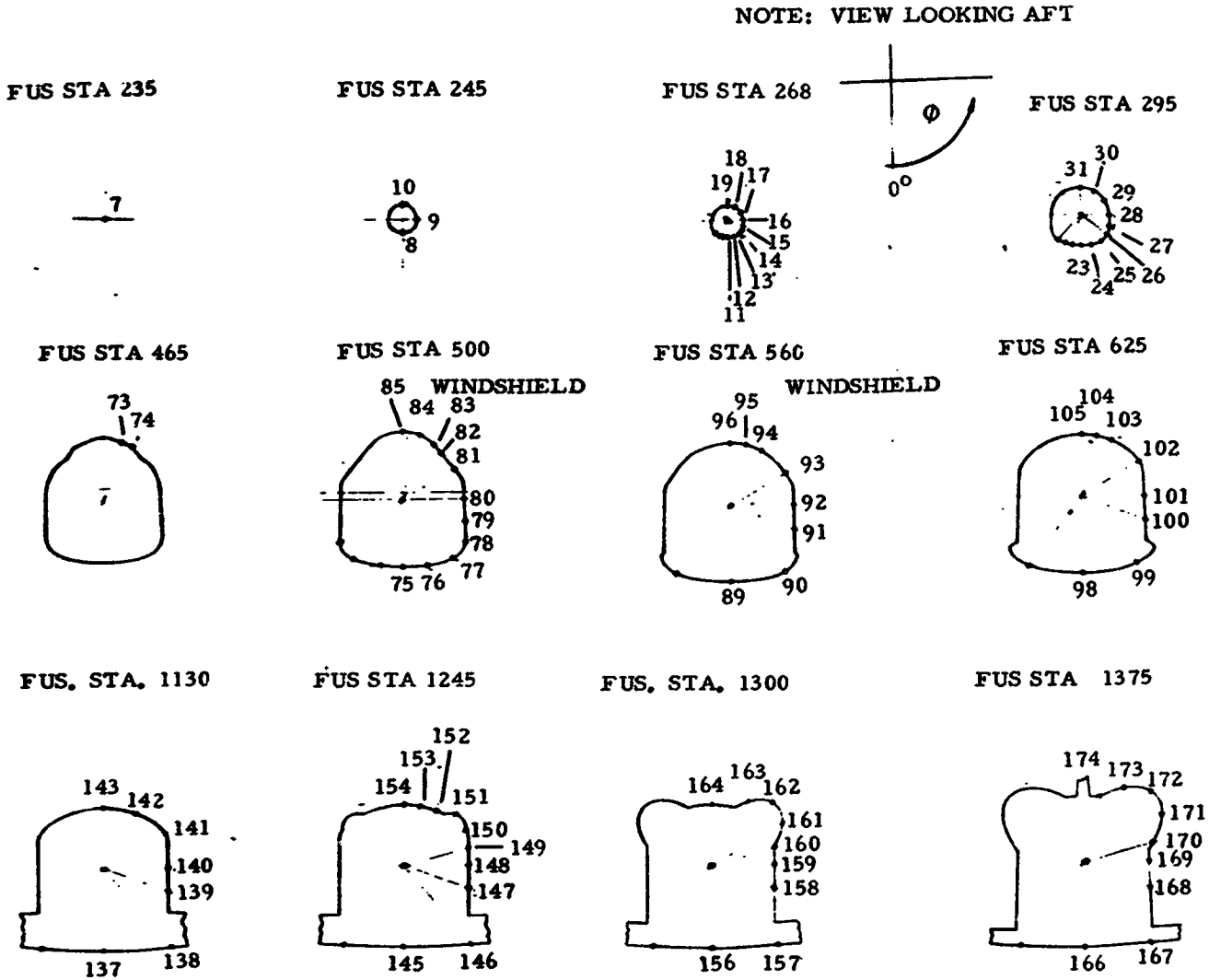
AREA NO.	PROJECTED AXIAL VALUE
A1	0.076699 ft²
A2	0.215695 ft²
A3	0.034072 ft²
A4	0.074167 ft²

b. Base Pressure Taps and Areas

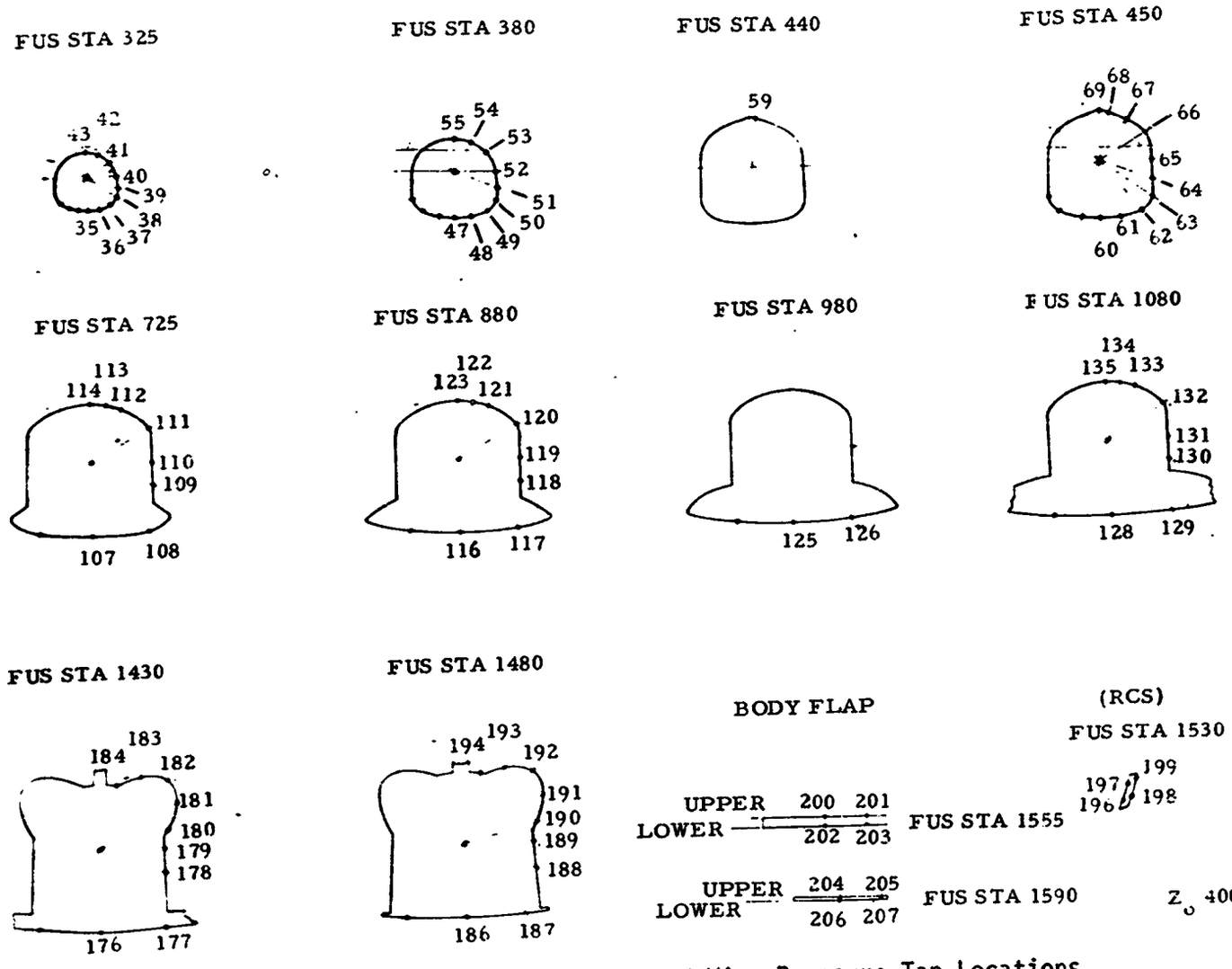
Figure 2. - Continued.



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

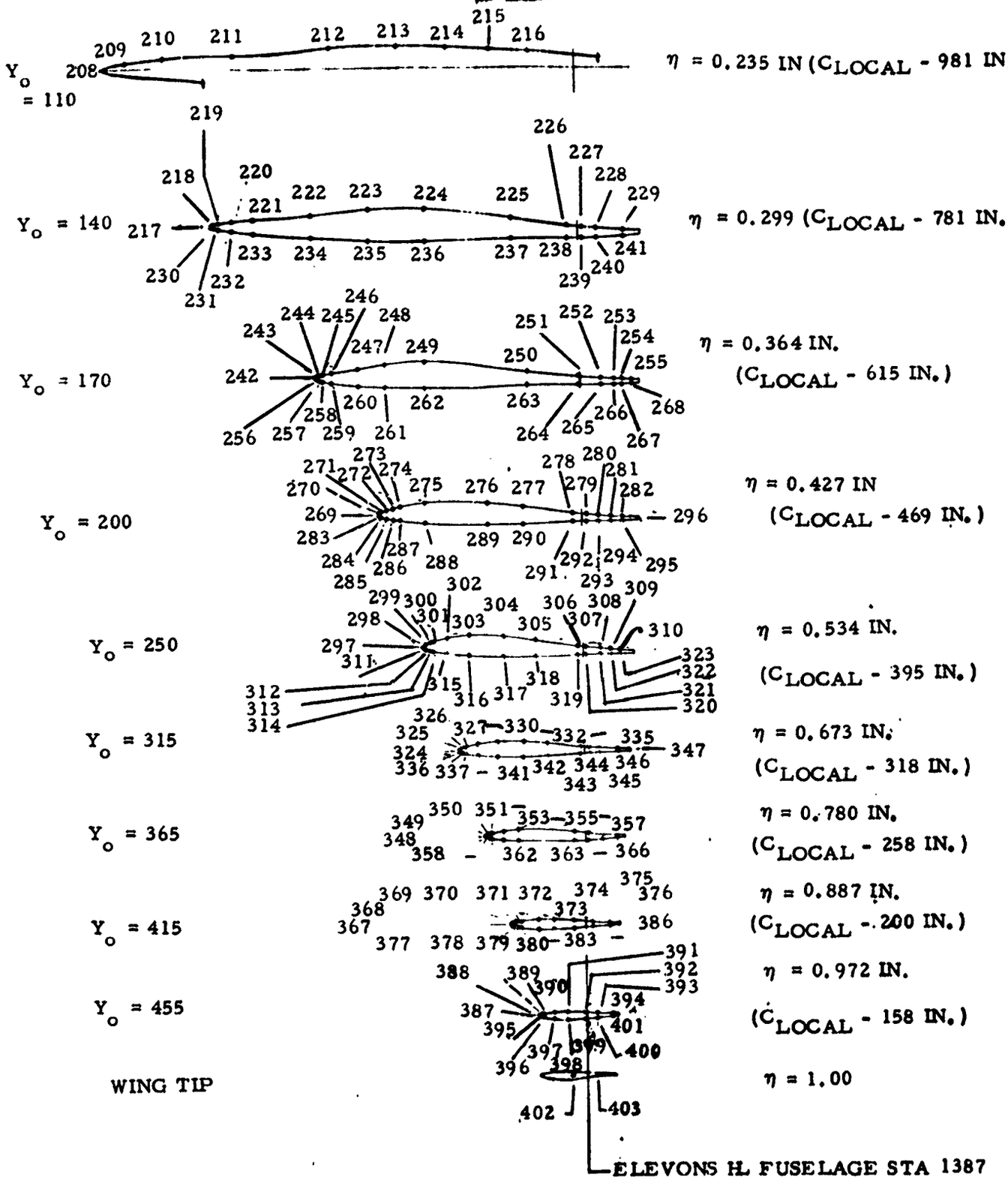


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

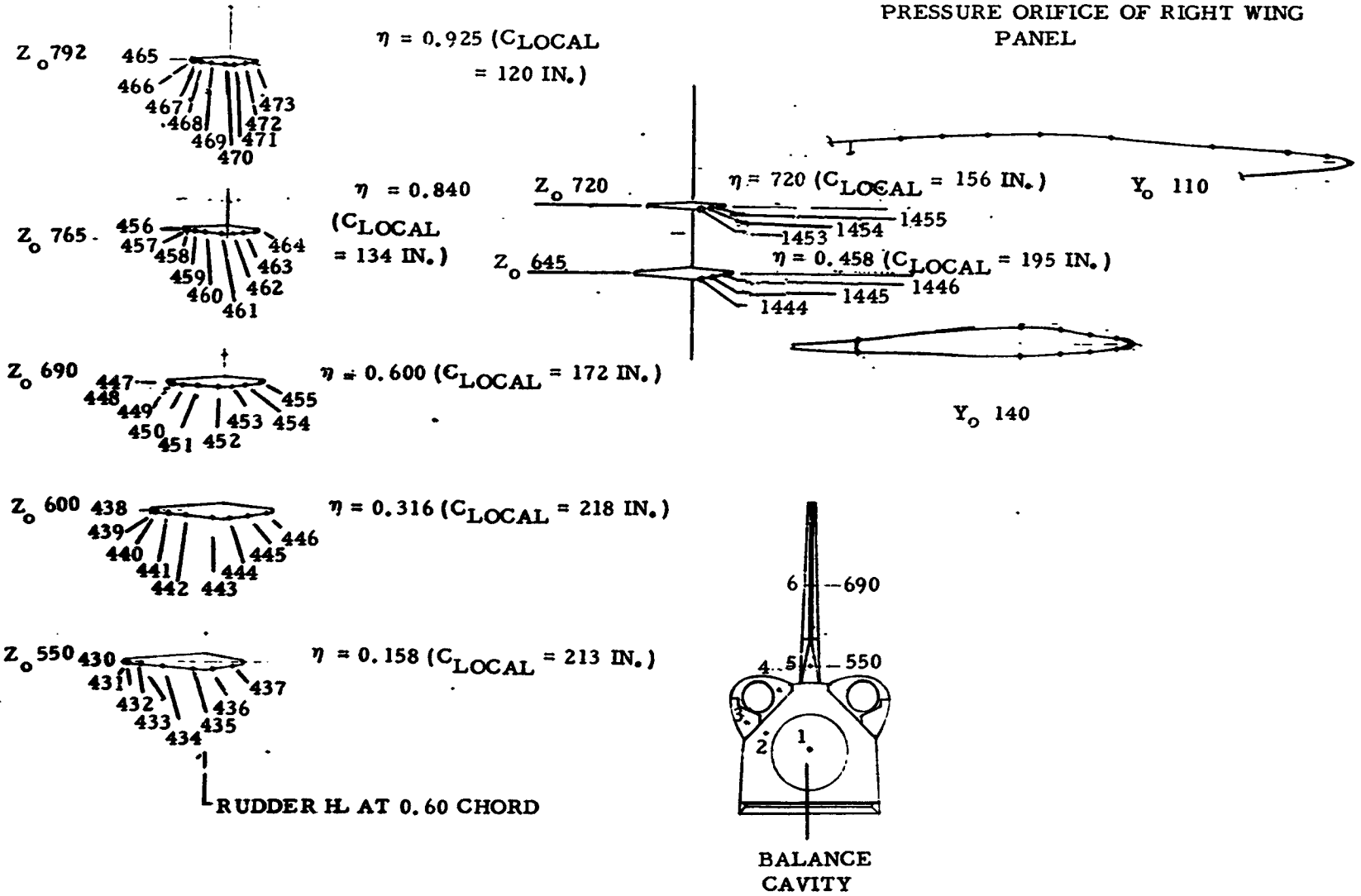


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.



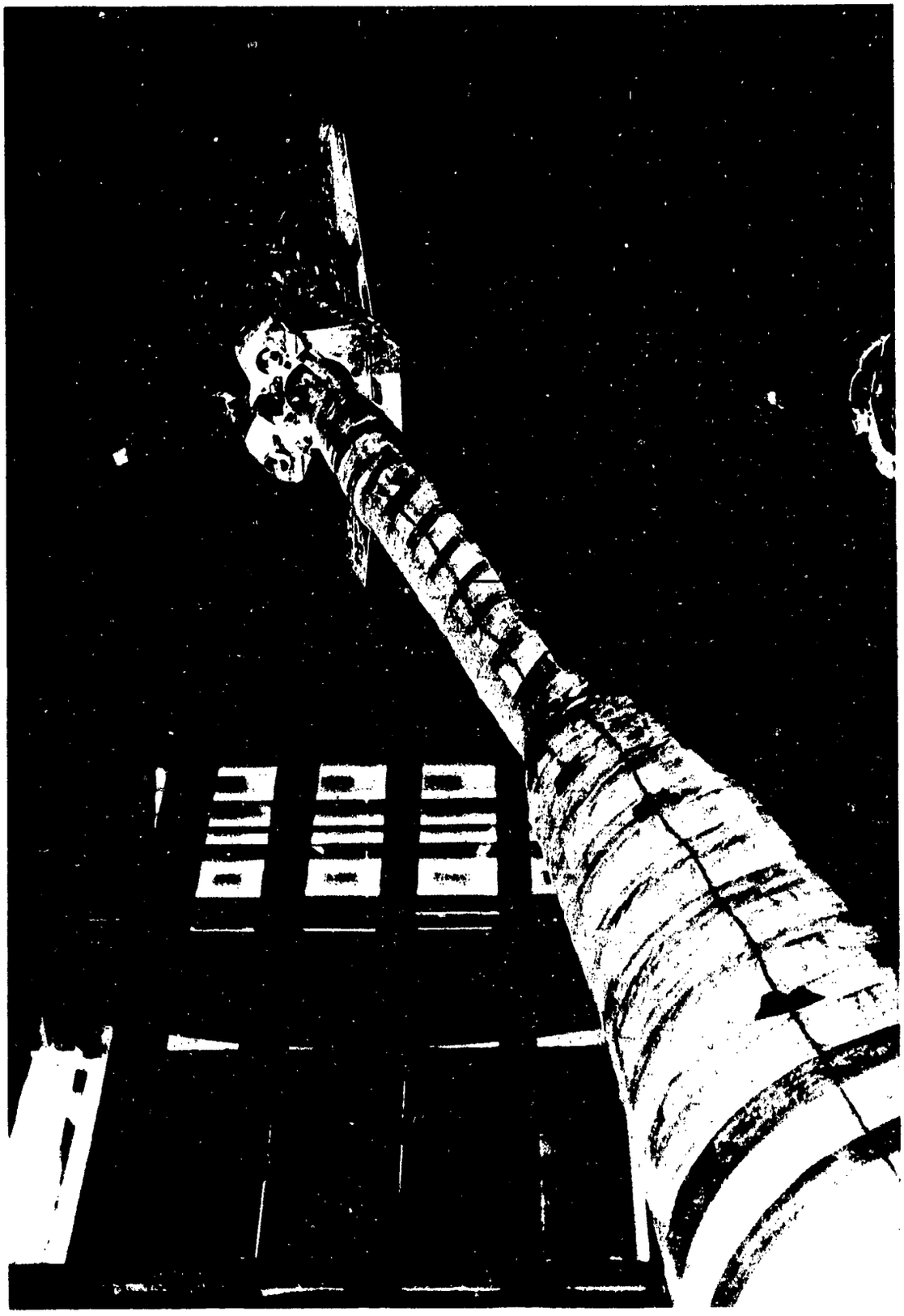
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations

Figure 2. - Concluded.

a. Three Quarter Front View of model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Model installation photographs.

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR



b. Three Quarter Rear View of Model 47-O in the ARC 11 x 11 UPWT

Figure 3. - Concluded.

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APPENDIX

VOLUME NO.	CONTENTS	PAGES
3	TABULATED FORCE DATA	1-723
	TABULATED PRESSURE DATA	
	COMPONENT	
4, 5	Orbiter fuselage	1-1270
6, 7, 8 (Note)	Lower wing	1271-3146
9, 10, 11 (Note)	Upper wing	3147- 5404
12	Upper body flap	5405-5773
12	Lower body flap	5774-6142
13	Speed brake	6143-6546
13	Vertical tail	6547-7114

Note: Data tabulated at 2Y/BW = .673, X/CW = .775, .850, .950 & 1.00 were actually located at 2Y/BW = .641, X/CW = .775, .850, .950 & 1.00 as shown in Table V on page 47.

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0880 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (1) = -4.099 BETA (1) = -3.881 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1625	-.2596	-.1419	-.2787	-.3714	-.2340	-.1971	
.020	.7601	-.2474	-.2618	-.4196	-.4120	-.4186	-.4192	-.4632
.040		-.2388	-.3185					
.050	-.1620			-.4526	-.4430	-.4542	-.4499	
.069								-.4971
.080				-.4494				
.081			-.1995					
.086		-.1314						
.094	-.1502							
.150				-.4118	-.4036	-.4019	-.4050	
.157								-.3179
.163		-.0382						
.177			-.1850					
.209	-.1137							
.246		-.1211						
.250				-.2294	-.3748	-.3636	-.3770	
.274			-.1693					
.345								-.4270
.390		-.1450						
.400				-.1870	-.3240		-.3362	
.402			-.1576					
.503								-.3624
.550				-.1517	-.1709			
.565			-.3190					
.600							-.3257	
.637		-.1013						
.650						-.3280		
.670								-.4666
.700					-.2163			
.725				-.1815				
.750						-.2884	-.3663	
.760			-.1926					
.775				-.2288	-.2515			
.799		-.1753						
.808			-.2541					
.834	-.1921							
.839		-.2473						
.850				-.3081	-.2470	-.3142		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (1) = -4.099 BETA (1) = -3.881

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2744					
.862								-.4683
.865	-.2355							
.879		-.2863						
.900	-.2040			-.3531			-.4331	
.905			-.3493					
.919		-.2896						
.950				-.3767	-.3182	-.3718		
.953			-.3709					
.955		-.2934						
.965	-.2817							
1.000			-.1030		-.2124		-.4123	

ALPHA (1) = -4.089 BETA (2) = .154 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0995	-.1213	-.0694	-.2763	-.3863	-.2717	-.2420	
.020	.7792	-.1228	-.1297	-.4128	-.4269	-.4403	-.4464	-.5069
.040		-.1209	-.1857					
.050	-.1075			-.4327	-.4531	-.4716	-.4745	
.069								-.5198
.080				-.3939				
.091			-.1597					
.066		-.0597						
.094	-.0956							
.150				-.2996	-.4070	-.4169	-.4279	
.157								-.3312
.163		.0116						
.177			-.1385					
.229	-.0771							
.246		-.0793						
.250				-.1703	-.3679	-.3760	-.4004	
.274			-.1323					
.345								-.4767
.330		-.0996						
.400				-.1527	-.1673		-.3529	
.402			-.1204					
.503								-.3665
.550				-.1162	-.1436			
.565			-.3126					
.600							-.3369	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (1) = -4.089 BETA (2) = .154

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0784						
.650						-.1901		
.670								-.4511
.700					-.1810			
.725				-.1646				
.750						-.2102	-.3534	
.760			-.1805					
.775				-.2205	-.2232			
.798		-.1646						
.808			-.2365					
.834	-.1695							
.839		-.2321						
.850				-.2915	-.2067	-.2876		
.857			-.2616					
.862								-.5086
.865	-.2171							
.879		-.2665						
.900	-.1947			-.3367			-.3364	
.905			-.3293					
.919		-.2787						
.950				-.3617	-.3379	-.3476		
.953			-.3495					
.955		-.2883						
.965	-.3076							
1.000			-.1142		-.2314		-.3066	

ALPHA (1) = -4.099 BETA (3) = 4.236 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0829	-.0379	.0322	-.2708	-.3989	3.2196	-.2823	
.020	.7975	-.0541	-.0038	-.3958	3.6945	-.4600	3.8229	-.5320
.040		-.0472	-.0823					
.050	-.0819			-.3575	3.7674	-.4846	3.9149	
.059								-.5289
.080				-.3454				
.081			-.1007					
.085		-.0097						
.094	-.0905							
.150				-.1872	-.3966	-.4232	-.4447	
.157								-.3409
.163		.0440						

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B'C/R ORB LEFT WING BOT (XE8L01)

ALPHA (1) = -4.099 BETA (3) = 4.236

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1038					
.229	-.0569							
.246		-.0503						
.250				2.6215	-.1904	-.3721	-.4108	
.274			-.0926					
.345								3.6571
.390		-.0679						
.400				2.5173	-.1367		-.3595	
.402			-.0890					
.503								-.3577
.550				-.0983	-.1127			
.565			-.3091					
.600							-.1695	
.637		-.0694						
.650						-.1597		
.670								-.4030
.700					-.1626			
.725				-.1510				
.750						-.1941	-.2024	
.760			-.1741					
.775				-.2124	-.2084			
.799		-.1947						
.808			-.2311					
.834	-.1771							
.840		-.2271						
.850				-.2822	-.1892	-.2751		
.867			-.2614					
.862								-.3722
.865	-.2143							
.879		-.2637						
.900	-.2040			-.3312			-.3003	
.905			-.3218					
.919		-.2797						
.950				-.3603	-.3242	-.3277		
.953			-.3399					
.955		-.2836						
.965	-.3204							
1.000			-.1300		-.2324		-.1399	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (2) = -.076 BETA (1) = -3.908 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0025	.0133	.2115	-.0854	-.1867	-.1126	-.0172	
.020	.8299	-.0196	.1491	-.2184	-.2330	-.2422	-.2620	-.2219
.040		-.0189	.0108					
.050	-.0291			-.2225	-.2403	-.2723	-.2787	
.069								-.2489
.080				-.1765				
.081			-.0379					
.086		.0260						
.094	-.0479							
.150				-.1181	-.1901	-.2079	-.2228	
.157								-.1937
.163		.1002						
.177			-.0431					
.229	-.0403							
.246		-.0170						
.250				-.0678	-.1424	-.1586	-.1904	
.274			-.0481					
.345								-.1640
.390		-.0363						
.400				-.0638	-.0536		-.1486	
.402			-.0458					
.503								-.1715
.550				-.0441	-.0536			
.565			-.3438					
.600							-.1133	
.637		-.0230						
.650						-.0977		
.670								-.2391
.700					-.1256			
.725				-.1067				
.750						-.1321	-.1462	
.760			-.1266					
.775				-.1774	-.1781			
.798		-.1264						
.808			-.1810					
.834	-.1353							
.839		-.1950						
.850				-.2469	-.2717	-.2424		
.857			-.2203					
.862								-.2725
.865	-.1707							
.879		-.2366						
.900	-.1608			-.3039			-.2794	
.905			-.2916					
.919		-.2634						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WI:' B. (XE8L01)

ALPHA (2) = -.076 BETA (1) = -3.908

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3527	-.2641	-.3162		
.953			-.3266					
.955		-.2454						
.965	-.2236							
1.000			-.0899		-.1635		-.3677	

ALPHA (2) = -.071 BETA (2) = .147 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0118	.0004	.2446	-.0811	-.2060	-.1462	-.0690	
.020	.8287	-.0075	.2198	-.1853	-.2376	-.2587	-.2907	-.2527
.040		.0007	.0683					
.050	-.0245			-.1086	-.2031	-.2696	-.3024	
.069								-.2639
.080				-.1079				
.081			.0032					
.086		.0441						
.089	-.0434							
.150				-.0796	-.1432	-.1796	-.2227	
.157								-.1926
.163		.1153						
.177			-.0173					
.209	-.0398							
.246		.0119						
.250				-.0441	-.0614	-.1189	-.1904	
.274			-.0178					
.345								-.1355
.390		-.0096						
.400				-.0406	-.0432		-.0720	
.402			-.0264					
.503								-.0986
.550				-.0288	-.0350			
.565			-.3625					
.600							-.0818	
.637		-.0055						
.650						-.0802		
.670								-.2000
.700					-.1058			
.725				-.0972				
.750						-.1287	-.1448	
.760			-.1180					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (2) = -.071 BETA (2) = .147

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1703	-.1600			
.798		-.1154						
.808			-.1679					
.834	-.1229							
.839		-.1797						
.850				-.2329	-.2548	-.2288		
.857			-.2115					
.862							-.2867	
.865	-.1610							
.879		-.2264						
.900	-.1543			-.2893			-.2811	
.905			-.2814					
.919		-.2439						
.950				-.3412	-.2591	-.3095		
.953			-.3153					
.955		-.2345						
.965	-.2386							
1.000			-.1087		-.1782		-.3241	

ALPHA (2) = -.058 BETA (3) = 4.215 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0763	-.0657	.2628	-.0326	-.1906	-.1709	-.1011	
.020	.8069	-.0382	.2437	-.0283	-.1287	-.2551	-.3046	-.2069
.040		-.0217	.1114					
.050	-.0601			-.0842	-.1950	-.2403	-.3015	
.069								-.1988
.080				-.0632				
.081			.0381					
.086		.0400						
.094	-.0530							
.150				-.0433	-.0913	-.1420	-.2057	
.157								-.1749
.163		.1136						
.177			.0033					
.229	-.0518							
.245		.0230						
.250				-.0259	-.0526	-.0489	-.0790	
.274			.0052					
.345								-.0785
.390		.0075						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (2) = -.058 BETA (3) = 4.215

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0163	-.0221		-.0591	
.402			-.0051					
.503								-.1043
.550				-.0177	-.0192			
.565			-.3412					
.600							-.0694	
.637		.0012						
.650						-.0688		
.670								-.2107
.700					-.0966			
.725				-.0926				
.750						-.1279	-.1373	
.760			-.1156					
.775				-.1656	-.1524			
.788		-.1132						
.808			-.1617					
.834	-.1190							
.839		-.1731						
.850				-.2276	-.2410	-.2248		
.857			-.2104					
.862								
.865	-.1599							-.2929
.879		-.2213						
.900	-.1595			-.2825			-.2803	
.905			-.2749					
.919		-.2287						
.950				-.3340	-.2381	-.3113		
.953			-.2983					
.955		-.2304						
.965	-.2483							
1.000			-.1206		-.1898		-.2193	

ALPHA (3) = 3.825 BETA (1) = -3.904 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0538	.0120	.3962	.2510	.1720	.1685	.2060	
.020	.0620	.0314	.3724	.1758	.1607	.0850	.0260	.0854
.040		.0473	.2078					
.050	.0435			.0491	.0155	.0175	.0236	
.059								
.080				.0522				.0528

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (3) = 3.825 BETA (1) = -3.904

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1218					
.086		.1019						
.094	.0283							
.150				.0500	.0518	.0674	.0764	
.157								-.0733
.163		.1963						
.177			.0851					
.229	.0240							
.246		.0719						
.250				.0685	.0660	.0839	.0642	
.274			.0692					
.345								.0222
.390		.0669						
.400				.0659	.0708		.0587	
.402			.0646					
.503								-.0085
.550				.0624	.0801			
.565			-.4110					
.600							.0051	
.637		.0590						
.650						.0190		
.670								-.1415
.700					-.0239			
.725				-.0258				
.750						-.0328	-.0528	
.760			-.0602					
.775				-.1385	-.0850			
.798		-.0659						
.808			-.1064					
.834	-.0756							
.839		-.1415						
.850				-.1790	-.2342	-.1680		
.867			-.1681					
.862								-.2362
.865	-.1117							
.879		-.1847						
.900	-.1533			-.2434			-.2265	
.905			-.2386					
.919		-.2352						
.950				-.3079	-.2629	-.2689		
.953			-.2805					
.955		-.2060						
.966	-.1580							
1.000			-.0976		-.1513		-.4043	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (3) = 3.826 BETA (2) = .146 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0340	-.1475	.3447	.2996	.1900	.1775	.1957	
.020	.8329	-.0581	.3499	.2243	.1678	.1069	.0403	.0554
.040		-.0300	.2205					
.050	.0108			.1013	.0481	.0816	.0401	
.069								.0311
.080				.0911				
.081			.1388					
.086		.0632						
.094	.0057							
.150				.0704	.0734	.0857	.1023	
.157								-.0830
.163		.1750						
.177			.0892					
.229	.0050							
.246		.0820						
.268				.0826	.0765	.0857	.0654	
.274			.0863					
.345								-.0011
.390		.0768						
.400				.0710	.0854		.0592	
.402			.0687					
.503								-.0277
.550				.0715	.0789			
.565			-.4190					
.600							.0092	
.637		.0677						
.650						.0191		
.670								-.1567
.700					-.0244			
.725				-.0239				
.750						-.0491	-.0597	
.760			-.0524					
.775				-.1207	-.0823			
.798		-.0532						
.809			-.0915					
.834	-.0609							
.839		-.1215						
.850				-.1704	-.2296	-.1746		
.857			-.1585					
.862								-.2545
.865	-.1020							
.879		-.1729						
.900	-.1327			-.2320			-.2267	
.905			-.2242					
.919		-.2095						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (3) = 3.826 BETA (2) = .146

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2934	-.2579	-.2755		
.953			-.2681					
.955		-.1930						
.965	-.1553							
1.000			-.1275		-.1319		-.3709	

ALPHA (3) = 3.827 BETA (3) = 4.205 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1612	-.3674	.2676	.3290	.2157	.1924	.2149	
.020	.7862	-.1878	.2977	.2566	.1922	.1359	.0942	-.0011
.040		-.1444	.2247					
.050	-.0572			.1466	.0861	.0962	.0908	
.069								-.0040
.080				.1297				
.081			.1426					
.086		-.0115						
.094	-.0432							
.150				.0853	.0974	.1082	.1106	
.157								-.1044
.163		.1397						
.177			.0937					
.229	-.0244							
.246		.0760						
.250				.0865	.0842	.0934	.0662	
.274			.0973					
.345								-.0222
.390		.0820						
.400				.0861	.1094		.0710	
.432			.0797					
.503								-.0414
.550				.0726	.0830			
.565			-.3828					
.600							.0149	
.637		.0729						
.650						.0220		
.670								-.1797
.700					-.0196			
.725				-.0226				
.750						-.0685	-.0713	
.760			-.0503					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (3) = 3.827 BETA (3) = 4.205

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1088	-.0707			
.798		-.0501						
.808			-.0901					
.834	-.0591							
.839		-.1176						
.850				-.1609	-.2185	-.1762		
.857			-.1545					
.862								-.2813
.865	-.1053							
.879		-.1718						
.900	-.1208			-.2231			-.2393	
.905			-.2237					
.919		-.1893						
.950				-.2828	-.2557	-.2812		
.953			-.2542					
.955		-.1938						
.965	-.1687							
1.000			-.1500		-.1361		-.2336	

ALPHA (4) = 7.859 BETA (1) = -3.903 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0038	-.1333	.4248	.5131	.4545	.5139	.5361	
.020	.8625	-.0030	.4515	.3852	.3968	.4046	.3925	.1335
.040		.0321	.3415					
.050	.0801			.2827	.2699	.3116	.3518	
.059								.1492
.080				.2448				
.081			.2592					
.086		.1471						
.094	.0766							
.150				.1997	.2486	.2829	.2885	
.157								-.0409
.163		.2933						
.177			.1965					
.229	.0818							
.246		.1688						
.260				.1999	.2189	.2162	.2205	
.274			.1903					
.345								.1155
.390		.1707						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (4) = 7.859 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1885	.2428		.2019	
.402			.1736					
.503								.0852
.550				.1755	.1944			
.565			-.4439					
.600							.1158	
.637		.1557						
.650						.1171		
.670								-.0766
.700					.0563			
.725				.0502				
.750						.0269	.0099	
.760			.0131					
.775				-.0837	-.0156			
.798		.0070						
.808			-.0295					
.834	-.0072							
.839		-.0744						
.850				-.1099	-.1827	-.1135		
.857			-.1043					
.862								-.1873
.865	-.0462							
.879		-.1182						
.900	-.1099			-.1819			-.1582	
.905			-.1746					
.919		-.1840						
.940				-.2581	-.2246	-.2266		
.953			-.2262					
.955		-.1687						
.965	-.0823							
1.000			-.1346		-.2678		-.3931	

ALPHA (4) = 7.859 BETA (2) = .143 MACH = 1.3335 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1315	-.3389	.2832	.5174	.4531	.5216	.5164	
.020	.8181	-.1231	.3588	.4113	.4076	.4244	.4021	.0210
.040		-.0728	.3197					
.050	.0167			.3107	.2847	.3223	.3543	
.069								.0602
.080				.2656				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (4) = 7.859 BETA (2) = .143

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.031			.2384					
.035		.0699						
.039	.0319							
.150				.2022	.2521	.2741	.2837	
.157								-.0610
.163		.2339						
.177			.1902					
.229	.0514							
.246		.1581						
.250				.1976	.2226	.2399	.2114	
.274			.1921					
.345								.0788
.390		.1695						
.400				.1905	.2315		.2071	
.402			.1747					
.503								.0409
.550				.1688	.1842			
.555			-.4409					
.600							.0967	
.637		.1593						
.650						.1093		
.670								-.1149
.700					.0566			
.725				.0528				
.750						.0107	-.0109	
.760			.0234					
.775				-.0547	-.0094			
.800		.0176						
.825			-.0193					
.854	.0129							
.870		-.0537						
.880				-.1050	-.1938	-.1198		
.897			-.0921					
.900								-.2325
.925	-.0354							
.930		-.1142						
.950	-.0809			-.1726			-.1839	
.955			-.1627					
.970		-.1573						
.980				-.2460	-.2223	-.2402		
.985			-.2145					
.990		-.1492						
.995	-.0932							
1.000			-.1603		-.1979		-.4113	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (A) = 7.869 BETA (B) = 4.207 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2952	-.4333	.1025	.4808	.4436	.4949	.4957	
.020	.7668	-.2231	.2153	.4183	.4052	.4227	.4121	-.1011
.040		-.1691	.2499					
.050	-.0603			.3142	.2969	.3209	.3587	
.069								-.0251
.080				.2611				
.091			.1535					
.096		.0005						
.094	-.0181							
.150				.2016	.2536	.2642	.2794	
.157								-.0921
.163		.1725						
.177			.1680					
.229	.0167							
.246		.1316						
.250				.1898	.2164	.2381	.2206	
.274			.1825					
.345								.0295
.390		.1498						
.400				.1865	.2238		.2112	
.402			.1692					
.503								.0024
.550				.1652	.1847			
.555			-.4052					
.600							.0939	
.637		.1634						
.650						.1171		
.670								-.1401
.700					.0644			
.725				.0554				
.750						.0109	-.0165	
.760			.0218					
.775				-.0298	.0005			
.798		.0204						
.808			-.0147					
.824	.0122							
.839		-.0525						
.850				-.0938	-.1920	-.1192		
.857			-.0885					
.882								-.2586
.905	-.0417							
.920		-.1182						
.930	-.0705			-.1654			-.1877	
.945			-.1656					
.919		-.1379						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (4) = 7.869 BETA (3) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2325	-.2206	-.2364		
.953			-.1948					
.955		-.1475						
.965	-.1172							
1.000			-.1905		-.1630		-.3793	

ALPHA (5) = 11.904 BETA (1) = -3.884 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1150	-.2840	.3713	.6785	.6556	.7208	.7236	
.020	.8662	-.0399	.4748	.5740	.6011	.6274	.6424	.0679
.040		.0178	.4533					
.050	.0991			.4723	.4875	.5152	.5543	
.069								.1461
.080				.4056				
.081			.3773					
.088		.1816						
.094	.1223							
.151				.3506	.4107	.4447	.4407	
.157								.0078
.164		.3561						
.177			.3174					
.283	.1492							
.285		.2886						
.298				.3362	.3690	.4022	.3744	
.327			.3146					
.445								.1747
.500		.2884						
.500				.3203	.3781		.3493	
.509			.2985					
.533								.1441
.560				.2909	.3031			
.565			-.4661					
600							.2005	
.637		.2562						
.650						.2141		
.670								-.0217
.700					.1456			
.725				.1410				
.750						.1055	.0827	
.760			.1026					

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (5) = 11.904 BETA (1) = -3.89

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.0058	.0689			
.798		.1010						
.808			.0528					
.834	.0916							
.839		.0027						
.850				-.0327	-.1664	-.0437		
.857			-.0262					
.862								-.1495
.865	.0400							
.879		-.0450						
.900	-.0169			-.1117			-.0929	
.905			-.0991					
.919		-.1026						
.950				-.1959	-.1729	-.1726		
.953			-.1594					
.965		-.0923						
.966	-.0254							
1.000			-.2434		-.3066		-.4679	

ALPHA (5) = 11.913 BETA (2) = .151 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.3230

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2497	-.3822	.1863	.6140	.6092	.6587	.6559	
.020	.8105	-.1447	.3241	.5408	.5676	.5922	.6003	-.0813
.040		-.0851	.3720					
.050	.0173			.4517	.4674	.4900	.5276	
.069								.0371
.080				.3888				
.081			.3131					
.086		.1016						
.094	.0641							
.150				.3384	.3922	.4185	.4267	
.157								-.0314
.163		.2974						
.177			.2852					
.229	.1141							
.246		.2335						
.250				.3134	.3483	.3820	.3591	
.274			.2991					
.345								.1117
.380		.2085						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL01)

ALPHA (5) = 11.913 BETA (2) = .151

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400								
.402				.3106	.3589		.3233	
.503			.2862					
.550				.2715	.2917			.0848
.565			-.4824					
.600								
.637		.2569					.1722	
.650								
.670						.1995		
.700								-.0649
.725					.1360			
.750				.1395				
.760						.0739	.0576	
.775			.1021					
.798				.0357	.0634			
.808		.1014						
.834	.0946		.0668					
.839		.0236						
.850								
.857				-.0215	-.1871	-.0534		
.862			-.0088					
.868	.0343							-.1966
.876		-.0420						
.880	-.0038			-.1027				
.905			-.0939				-.1229	
.919		-.0830						
.940								
.953				-.1843	-.1753	-.1802		
.964			-.1476					
.966		-.1005						
.986	-.0535							
1.000			-.1981		-.2619		-.4934	

ALPHA (5) = 11.909 BETA (3) = 4.219 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3535	-.4436	-.0141	.8273	.5363	.5750	.5733	
.020	.7700	-.2386	.1669	.4930	.5210	.5463	.5538	-.2037
.040		-.1774	.2823					
.050	-.0523							
.069				.4174	.4396	.4630	.4958	
.080				.3632				-.0576

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (5) = 11.909 BETA (3) = 4.219

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2513					
.085		.0248						
.094	.0120							
.150				.3164	.3707	.4073	.4190	
.157								-.0655
.163		.2305						
.177			.2489					
.229	.0689							
.246		.1933						
.250				.2933	.3354	.3782	.3541	
.274			.2746					
.345								.0683
.390		.2381						
.400				.2978	.3791		.3140	
.402			.2741					
.503								.0523
.550				.2667	.2865			
.565			-.4434					
.600							.1734	
.637		.2515						
.650						.1926		
.670								-.0830
.700					.1422			
.725				.1371				
.750						.0688	.0415	
.760			.0954					
.775				.0594	.0719			
.798		.0977						
.808			.0672					
.834	.0858							
.839		.0218						
.850				-.0101	-.2015	-.0544		
.857			-.0041					
.862								-.2078
.865	.0225							
.879		-.0442						
.900	.0111			-.0944			-.1228	
.915			-.0949					
.919		-.0663						
.950				-.1659	-.1763	-.1676		
.953			-.1197					
.955		-.0911						
.980	-.0696							
1.000			-.2432		-.1477		-.4746	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (6) = 15.872 BETA (1) = -3.862 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2068	-.3241	.2931	.7607	.7729	.7958	.7926	
.020	.8415	-.0510	.4567	.7006	.7361	.7632	.7670	-.0247
.040		.0180	.5154					
.050	.1147			.6110	.6420	.6776	.7042	
.069								.1307
.080				.5463				
.081			.4613					
.086		.2214						
.094	.1699							
.150				.4956	.5484	.6025	.5754	
.157								.0066
.163		.4429						
.177			.4276					
.229	.2213							
.248		3565						
.250				.4527	.5162	.5557	.5054	
.274			.4319					
.345								.2248
.390		.4066						
.400				.4496	.5071		.4579	
.408			.4112					
.502								.2000
.525				.4026	.4149			
.565			-.4788					
.600							.2881	
.657		.3602						
.660						.3075		
.670								.0273
.700					.2383			
.725				.2405				
.750						.1703	.1458	
.760			.1897					
.775				.1157	.1404			
.788		.1947						
.808			.1451					
.834	.1927							
.839		.0896						
.850				.0425	-.1216	.0163		
.857			.0576					
.862								-.1124
.865	.1232							
.879		.0112						
.900	.0410			-.0483			-.0350	
.905			-.0396					
.919		-.0424						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE6L01)

ALPHA (6) = 15.872 BETA (1) = -3.862

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1345	-.1158	-.1159		
.953			-.1064					
.955		-.0599						
.965	-.0062							
1.000			-.2397		-.3649		-.5460	

ALPHA (6) = 15.886 BETA (2) = .149 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3139	-.4023	.0832	.6530	.6831	.6839	.6734	
.020	.7949	-.1586	.2843	.6290	.6730	.6918	.6844	-.1587
.040		-.0877	.4208					
.050	.0403			.5670	.6074	.6268	.6478	
.069								.0145
.080				.5108				
.081			.3856					
.086		.1327						
.094	.1017							
.150				.4633	.5234	.5705	.5369	
.157								-.0356
.163		.3640						
.177			.3854					
.229	.1704							
.246		.3166						
.250				.4321	.4867	.5296	.4711	
.274			.4101					
.345								.1569
.390		.3764						
.400				.4306	.4867		.4245	
.402			.4018					
.503								.1490
.550				.3963	.3978			
.565			-.4970					
.600							.2651	
.637		.3631						
.650						.2881		
.670								-.0008
.700					.2427			
.725				.2373				
.750						.1577	.1210	
.760			.1978					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (6) = 15.886 BETA (2) = .149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.1566	.1451			
.798		.1963						
.806			.1573					
.834	.1933							
.839		.1034						
.850				.0559	-.1443	.0056		
.857			.0582					
.862								-.1468
.865	.1176							
.879		.0141						
.900	.0738			-.0398			-.0580	
.905			-.0424					
.918		-.0153						
.950				-.1278	-.1189	-.1081		
.953			-.0788					
.955		-.0459						
.965	-.0158							
1.000			-.3045		-.3373		-.5637	

ALPHA (6) = 15.901 BETA (3) = 4.245 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3855	-.4770	-.0938	.5290	.5708	.5606	.5456	
.020	.7570	-.2486	.1359	.5456	.5879	.6105	.5981	-.2521
.040		-.1776	.3141					
.050	-.0320			.5026	.5532	.5728	.5857	
.068								-.0630
.080				.4620				
.091			.3124					
.098		.0553						
.094	.0487							
.150				.4267	.4669	.5329	.5068	
.157								-.0787
.163		.2910						
.177			.3376					
.229	.1237							
.248		.2636						
.250				.4023	.4606	.4959	.4548	
.274			.3800					
.345								.1085
.350		.3413						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L01)

ALPHA (6) = 15.901 BETA (3) = 4.249

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.4115	.4555		.4050	
.402			.3824					
.503								.0977
.550				.3639	.3818			
.565			-.4796					
.600							.2497	
.637		.3480						
.650						.2729		
.670								-.0242
.700					.2380			
.725				.2315				
.750						.1435	.1078	
.760			.1855					
.775				.1577	.1413			
.798		.1901						
.809			.1533					
.834	.1788							
.839		.1039						
.850				.0584	-.1641	-.0074		
.857			.0597					
.862								-.1613
.865	.1087							
.879		.0322						
.900	.0889			-.0397			-.0709	
.905			-.0260					
.919		-.0008						
.950				-.1213	-.1201	-.1046		
.953			-.0541					
.955		-.0429						
.965	-.0203							
1.000			-.2653		-.2679		-.5288	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = 1.250

ALPHA (I) = -4.081 BETA (I) = -3.888 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1606	-.2937	-.2139	-.4059	-.5164	-.3633	-.3318	
.020	.6703	-.2801	-.3263	-.5538	-.5562	-.5694	-.5695	-.6109
.040		-.2727	-.3532					
.050	-.1535			-.5778	-.5848	-.6064	-.5983	
.069								-.6656
.080				-.5401				
.081			-.2406					
.086		-.1523						
.094	-.1554							
.150				-.4950	-.5242	-.5388	-.5469	
.157								-.3761
.163		-.0563						
.177			-.2196					
.228	-.1338							
.248		-.1460						
.280				-.2425	-.4738	-.4855	-.5053	
.274			-.2022					
.346								-.5824
.390		-.1718						
.400				-.2101	-.3005		-.4509	
.402			-.1721					
.503								-.5786
.550				-.1537	-.1871			
.555			-.3725					
.601							-.4294	
.630		-.1169						
.650						-.2410		
.670								-.6142
.700					-.2319			
.725				-.2056				
.750						-.2506	-.4755	
.760			-.2144					
.775				-.2650	-.2775			
.799		-.1882						
.809			-.2998					
.834	-.2095							
.849		-.2932						
.850				-.3618	-.2705	-.3466		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (1) = -4.081 BETA (1) = -3.888

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.3272					
.862								-.5792
.865	-.2790							
.879		-.3330						
.900	-.2404			-.4029			-.4862	
.905			-.4100					
.919		-.3402						
.950				-.4193	-.4295	-.4176		
.953			-.4200					
.955		-.3460						
.965	-.3406							
1.000			-.1046		-.2254		-.2133	

ALPHA (1) = -4.075 BETA 2) = .154 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1043	-.1405	-.0905	-.4039	-.5390	-.4060	-.3822	
.020	.6957	-.1512	-.1520	-.5482	-.5791	-.5971	-.6024	-.6649
.040		-.1429	-.2131					
.050	-.1188			-.5242	-.5996	-.6279	-.6317	
.069								-.6914
.080				-.4945				
.081			-.1914					
.086		-.0761						
.094	-.1173							
.150				-.2907	-.5186	-.5516	-.5745	
.157								-.3941
.163		-.0019						
.177			-.1728					
.229	-.0923							
.246		-.1061						
.260				-.1981	-.4180	-.4974	-.5325	
.274			-.1515					
.345								-.6107
.390		-.1176						
.400				-.1524	-.1778		-.4693	
.402			-.1222					
.503								-.4782
.550				-.1264	-.1462			
.565			-.4093					
.600							-.3598	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (1) = -4.075 BETA (2) = .154

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0992						
.650						-.1880		
.670								-.6255
.700					-.2097			
.725				-.1928				
.750						-.2334	-.2658	
.760			-.2143					
.775				-.2657	-.2739			
.798		-.1847						
.808			-.2971					
.834	-.1898							
.839		-.2829						
.850				-.3515	-.2696	-.3312		
.857			-.3202					
.862								-.5434
.865	-.2585							
.879		-.3231						
.900	-.2531			-.4120			-.3607	
.905			-.4007					
.919		-.3387						
.950				-.4330	-.4142	-.4013		
.953			-.4212					
.955		-.3567						
.955	-.3783							
1.000			-.1408		-.2554		-.1453	

ALPHA (1) = -4.083 BETA (3) = 4.234 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.010B

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0952	-.0539	.0075	-.3914	-.5512	-.4399	-.4233	
.020	.7045	-.0672	-.0095	-.5288	-.5861	-.6157	-.6261	-.6934
.040		-.0567	-.1074					
.050	-.1047			-.4513	-.6002	-.6413	-.6518	
.069								-.6903
.080				-.3830				
.081			-.1167					
.086		-.0190						
.094	-.0986							
.150				-.2087	-.4836	-.5518	-.5764	
.157								-.3969
.163		.0506						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (1) = -4.083 BETA (3) = 4.234

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1162					
.229	-.0691							
.246		-.0501						
.250				-.1517	-.1946	-.4286	-.5340	
.274			-.0995					
.345								-.6426
.390		-.0680						
.400				-.1204	-.1415		-.3871	
.402			-.0921					
.503								-.5918
.550				-.1065	-.1256			
.565			-.3479					
.600							-.1624	
.637		-.0820						
.650						-.1722		
.670								-.2947
.700					-.1954			
.725				-.1885				
.750						-.2335	-.2384	
.760			-.2125					
.775				-.2663	-.2644			
.799		-.1783						
.809			-.2930					
.834	-.2038							
.839		-.2811						
.850				-.3493	-.2768	-.3319		
.857			-.3180					
.862								-.3237
.865	-.2609							
.879		-.3190						
.900	-.2569			-.4117			-.3500	
.905			-.3945					
.919		-.3375						
.950				-.4466	-.3816	-.4023		
.953			-.4121					
.955		-.3518						
.965	-.3939							
1.000			-.1525		-.2792		-.1660	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (2) = -.037 BETA (1) = -3.909 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0012	.0092	.1993	-.1778	-.3022	-.2229	-.1301	
.020	.7484	-.0259	.1712	-.3274	-.3581	-.3652	-.3992	-.3354
.040		-.0211	-.0140					
.050	-.0339			-.2442	-.3388	-.3847	-.4056	
.069								-.3626
.080				-.2164				
.081			-.0581					
.086		.0206						
.094	-.0575							
.150				-.1435	-.2363	-.2773	-.3228	
.157								-.2219
.163		.0938						
.177			-.0657					
.229	-.0589							
.246		-.0402						
.250				-.0908	-.1070	-.2033	-.2725	
.274			-.0631					
.345								-.2222
.330		-.0490						
.400				-.0725	-.0794		-.1365	
.402			-.0572					
.423								-.1649
.550				-.0488	-.0569			
.565			-.4407					
.600							-.1126	
.637		-.0268						
.650						-.1052		
.670								-.2582
.700					-.1362			
.725				-.1258				
.750						-.1597	-.1909	
.760			-.1423					
.775				-.1949	-.2083			
.798		-.1292						
.809			-.2217					
.834	-.1480							
.839		-.2330						
.850				-.2965	-.2621	-.2855		
.857			-.2648					
.862								-.3457
.865	-.2062							
.879		-.2795						
.900	-.1774			-.3551			-.3393	
.905			-.3501					
.919		-.2905						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (2) = -.037 BETA (1) = -3.909

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3858	-.3028	-.3836		
.953			-.3835					
.955		-.2871						
.965	-.2774							
1.000			-.0581		-.1999		-.2448	

ALPHA (2) = -.032 BETA (2) = .147 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0419	.0006	.2532	-.1622	-.3215	-.2647	-.1789	
.020	.7307	-.0089	.2182	-.2041	-.3099	-.3828	-.4319	-.3409
.040		.0006	.0471					
.050	-.0532			-.1749	-.3037	-.3723	-.4340	
.069								-.3263
.080				-.1499				
.081			-.0069					
.086		.0414						
.094	-.0696							
.150				-.1051	-.1655	-.2439	-.3230	
.157								-.2023
.163		.1175						
.177			-.0422					
.229	-.0472							
.246		-.0051						
.250				-.0605	-.0922	-.0868	-.1376	
.274			-.0350					
.345								-.1203
.390		-.0196						
.400				-.0331	-.0375		-.0878	
.402			-.0207					
.503								-.1475
.550				-.0255	-.0361			
.585			-.4593					
.600							-.0954	
.637		-.0110						
.650						-.0870		
.670								-.2495
.700					-.1267			
.725				-.1185				
.750						-.1567	-.1837	
.760			-.1453					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (2) = -.032 BETA (2) = .147

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1959	-.2022			
.798		-.1302						
.809			-.2197					
.834	-.1398							
.839		-.2232						
.850				-.2886	-.2756	-.2830		
.857			-.2572					
.862								-.3395
.865	-.2031							
.879		-.2721						
.900	-.1857			-.3559			-.3361	
.905			-.3452					
.919		-.2838						
.950				-.3969	-.3029	-.3823		
.953			-.3736					
.955		-.2943						
.965	-.3023							
1.000			-.1023		-.2163		-.1393	

ALPHA (2) = -.039 BETA (3) = 4.211 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1215	-.0642	.2817	-.0539	-.2806	-.2788	-.2040	
.022	.7040	-.0401	.2509	-.0628	-.1976	-.3584	-.4344	-.2031
.040		-.0212	.1064					
.050	-.0880			-.1099	-.2390	-.2862	-.3618	
.069								-.1962
.080				-.0772				
.081			.0470					
.086		.0440						
.094	-.0912							
.150				-.0621	-.1004	-.1117	-.1451	
.157								-.1367
.163		.1249						
.177			-.0370					
.229	-.0567							
.246		.0308						
.250				-.0269	-.0522	-.0655	-.0981	
.274			.0047					
.345								-.1130
.390		.0170						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (2) = -.038 BETA (3) = 4.211

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0093	-.0032		-.0701	
.402			.0035					
.503								-.1272
.550				-.0155	-.0191			
.565			-.4249					
.600							-.0928	
.637		-.0052						
.650						-.0795		
.670								-.2608
.700					-.1172			
.725				-.1148				
.750						-.1610	-.1936	
.760			-.1434					
.775				-.2002	-.1922			
.798		-.1236						
.808			-.2164					
.834	-.1378							
.839		-.2151						
.850				-.2842	-.2529	-.2874		
.857			-.2525					
.862								-.3608
.865	-.2035							
.879		-.2642						
.900	-.1929			-.3520			-.3495	
.905			-.3380					
.919		-.2798						
.950				-.3945	-.3191	-.3808		
.953			-.3554					
.955		-.2898						
.965	-.3136							
1.000			-.1319		-.2498		-.1367	

ALPHA (3) = 3.859 BETA (1) = -3.910 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0347	-.0446	.4238	.2380	.1141	.1281	.1574	
.020	.7714	-.0034	.3871	.1269	.1076	.0493	-.0119	.0688
.040		.0214	.2092					
.070	.0359			.0449	-.0052	.0249	.0057	
.089								.0280
.090				.0473				

AMES 11-073 - B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (3) = 3.859 BETA (1) = -3.910

SECTION (1)LEFT WING BOT SURF DEPENDE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	3= 0	.9720
X/CW							
.081			.1277				
.086		.0915					
.094	.0141						
.150				.0377	.0426	.0686	.0774
157							-.0754
.163		.2002					
.177			.0728				
.229	-.0047						
.246		.0715					
.250				.0629	.0503	.0758	.0371
.274			.0723				
.345							-.0010
.390		.0688					
.400				.0667	.0853		.0435
.402			.0602				
.503							-.0366
.550				.0614	.0752		
.565			-.4773				
.600						-.0114	
.637		.0650					
.650						-.0004	
.672							-.1885
.700					.0547		
.725				-.0533			
.750						-.0767	-.1100
.760			-.0758				
.775				-.1529	-.1290		
.788		-.0745					
.800			-.1375				
.810	-.0789						
820		-.1610					
830				-.2235	-.2985	-.2396	
.837			-.1993				
.862							-.2908
.865	-.1274						
.870		-.2216					
.900	- 1489			-.3006		-.2853	
.905			-.2832				
919		-.2519					
950				-.3659	-.2750	-.3541	
.953			-.3331				
.955		-.2266					
965	-.2023						
1.000			-.0431		-.1148	-.3034	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL02)

ALPHA (3) = 3.859 BETA (2) = .139 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0864	-.2258	.3677	.2813	.1524	.1477	.1865	
.020	.7267	-.1062	.3631	.1724	.1310	.0857	.0394	.0206
.040		-.0685	.2412					
.050	-.0218			.1048	.0277	.0609	.0513	
.069								-.0004
.080				.0873				
.081			.1485					
.086		.0594						
.094	-.0255							
.150				.0581	.0837	.0852	.0763	
.157								-.0835
.163		.1950						
.177			.0825					
.209	-.0250							
.246		.0861						
.250				.0806	.0732	.0740	.0372	
.274			.0866					
.345								-.0149
.390		.0820						
.400				.0984	.1043		.0649	
.402			.0847					
.503								-.0522
.550				.0759	.0803			
.565			-.5293					
.600							-.0204	
.637		.0825						
.650						.0000		
.670								-.2123
.700					-.0537			
.725				-.0410				
.750						-.0798	-.1178	
.760			-.0738					
.775				-.1427	-.1194			
.798		-.0699						
.808			-.1276					
.834	-.0742							
.839		-.1556						
.850				-.2213	-.2970	-.2368		
.857			-.1941					
.882								-.3221
.895	-.1369							
.899		-.2192						
.900	-.1555			-.2949			-.2906	
.905			-.2825					
.919		-.2437						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (3) = 3.859 BETA (2) = .139

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3632	-.2898	-.3515		
.953			-.3256					
.955		-.2331						
.965	-.2013							
1.000			-.0947		-.1162		-.2586	

ALPHA (3) = 3.860 BETA (3) = 4.204 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2430	-.3735	.2804	.3337	.1891	.2074	.2289	
.020	.6716	-.2197	.3161	.2294	1598	.1509	.0988	-.0436
.040		-.1677	.2517					
.050	-.0946			.1600	.0711	.0974	.0969	
.069								-.0331
.080				.1300				
.091			.1651					
.098		.0095						
.094	-.0758							
.150				.0943	.1082	.1048	.0986	
.157								-.1003
.163		.1738						
.177			.1019					
.179	-.0646							
.246		.0575						
.250				.0976	.0866	.0996	.0640	
.274			.1067					
.345								-.0528
.350		.0977						
.400				.1012	.1293		.0877	
.408			.1012					
.503								-.0899
.550				.0834	.0931			
.565			-.4541					
.600							-.0271	
.637		.0856						
.650						.0020		
.670								-.2431
.700					-.0526			
.725				-.0413				
.750						-.1061	-.1361	
.760			-.0789					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (3) = 3.860 BETA (3) = 4.204

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1382	-.1199			
.799		-.0692						
.808			-.1299					
.834	-.0789							
.839		-.1522						
.850				-.2123	-.2979	-.2421		
.857			-.1896					
.862								-.3653
.865	-.1465							
.879		-.2143						
.900	-.1512			-.2919			-.3131	
.905			-.2807					
.919		-.2272						
.950				-.3601	-.2910	-.3552		
.953			-.3031					
.955		-.2308						
.965	-.2129							
1.000			-.1461		-.1458		-.2299	

ALPHA (4) = 7.842 BETA (1) = -3.905 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0386	-.2385	.3945	.5366	.4786	.5547	.5705	
.020	.7568	-.0651	.4469	.4076	.4179	.4360	.4500	.0798
.040		-.0222	.3678					
.060	.0619			.3093	.3025	.3335	.3722	
.069								.1189
.080				.2501				
.081			.2696					
.085		.1207						
.094	.0619							
.150				.2182	.2674	.2924	.2831	
.157								-.0370
.163		.2851						
.177			.2005					
.229	.0529							
.246		.1710						
.250				.2109	.2230	.2688	.2266	
.274			.1993					
.345								.0724
.350		.1810						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (4) = 7.842 BETA (1) = -3.905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2080	.2782		.2219	
.402			.1936					
.503								.0314
.550				.1883	.1782			
.555			-.5116					
.600							.0655	
.637		.1646						
.650						.0943		
.670								-.1359
.700					.0236			
.725				.0295				
.750						-.0190	-.0540	
.760			-.0056					
.775				-.0850	-.0614			
.788		-.0031						
.809			-.0604					
.824	-.0008							
.839		-.0992						
.852				-.1574	-.2683	-.1898		
.857			-.1302					
.882								-.2655
.865	-.0598							
.879		-.1681						
.900	-.1103			-.2488			-.2325	
.905			-.2255					
.919		-.2035						
.930				-.3290	-.2843	-.3195		
.953			-.2860					
.958		-.1865						
.988	-.1251							
1.000			-.1025		-.2409		-.4745	

ALPHA (4) = 7.841 BETA (2) = .143 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

SECTION (2)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2203	-.4669	.2274	.5455	.4831	.5392	.5464	
.030	.6352	-.2776	.3384	.4442	.4316	.4397	.4482	-.0452
.040		-.1485	.3214					
.050	-.0238			.3401	.3268	.3391	.3749	
.069								.0196
.080				.2800				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (4) = 7.841 BETA (2) = .143

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2522					
.086		.0316						
.094	.0031							
.150				.2407	.2699	.2956	.2878	
.157								-.0597
.163		.2353						
.177			.2072					
.229	.0215							
.246		.1470						
.250				.2203	.2412	.2771	.2280	
.274			.2095					
.345								.0215
.390		.1924						
.400				.2251	.2819		.2103	
.402			.2060					
.503								-.0092
.550				.1975	.1919			
.565			-.5568					
.600							.0540	
.637		.1847						
.650						.0903		
.670								-.1777
.700					.0271			
.725				.0403				
.750						-.0375	-.0721	
.760			.0014					
.775				-.0633	-.0526			
.798		.0105						
.808			-.0489					
.834	.0023							
.839		-.0868						
.850				-.1488	-.2674	-.1895		
.857			-.1283					
.862								-.3114
.865	-.0593							
.879		-.1639						
.900	-.0979			-.2350			-.2502	
.905			-.2259					
.919		-.1895						
.950				-.3227	-.2810	-.3161		
.953			-.2681					
.955		-.1892						
.965	-.1438							
1.000			-.1457		-.1618		-.4442	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (4) = 7.841 BETA (3) = 4.209 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3940	-.5240	.0762	.5069	.4678	.5139	.5277	
.020	.6256	-.3069	.2074	.4244	.4236	.4420	.4500	-.1885
.040		-.2435	.2594					
.050	-.1060			.3419	.3297	.3459	.3[illegible]2	
.069								-.0874
.080				.2872				
.081			.2060					
.086		-.0393						
.094	-.0623							
.150				.2467	.2800	.3089	.2953	
.157								-.1010
.163		.1769						
.177			.1969					
.229	-.0173							
.246		.1263						
.250				.2213	.2671	.2869	.2290	
.274			.2175					
.345								-.0281
.[illegible]40		.1950						
.400				.2390	.2769		.2001	
.402			.2194					
.503								-.0526
.550				.1945	.1890			
.665			-.4865					
.[illegible]00							.0442	
.637		.1833						
.650						.0753		
670								-.2086
.700					.0276			
.725				.0403				
750						-.0543	-.0902	
.760			-.0006					
775				-.0550	-.0515			
790		.0072						
.810			-.0443					
834	- 0040							
850		-.0817						
.850				-.1405	-.2654	-.1946		
.857			-.1249					
.882								-.3468
.885	-.0749							
.[illegible]74		-.1509						
.[illegible]07	-.0884			-.2299			-.2686	
.[illegible]45			-.2196					
.919		-.1724						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (4) = 7.841 BETA (3) = 4.209

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3073	-.2594	-.3046		
.953			-.2425					
.955		-.1868						
.965	-.1652							
1.000			-.1807		-.1533		-.4383	

ALPHA (5) = 11.942 BETA (1) = -3.887 MACH = 1.2452 Q = 599.20 P = 552.04 RN/L = 3.0172

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1810	-.4123	.2948	.6924	.6899	.7394	.7279	
.020	.7365	-.1118	.4448	.6030	.6390	.6717	.6709	-.0458
.040		-.0461	.4653					
.050	.0688			.4950	.5316	.5720	.5865	
.069								.0695
.080				.4385				
.081			.4013					
.086		.1504						
.094	.1014							
.150				.3934	.4555	.4917	.4472	
.157								-.0291
.163		.3728						
.177			.3428					
.229	.1216							
.246		.2800						
.250				.3730	.4207	.4362	.3758	
.274			.3397					
.345								.1178
.390		.3175						
.400				.3704	.3960		.3268	
.422			.3517					
.503								.0859
.550				.2955	.2930			
.565			-.5318					
.600							.1529	
.637		.2850						
.650						.1755		
.670								-.0986
.700					.1043			
.725				.1112				
.750						.0428	.0012	
.760			.0603					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (5) = 11.942 BETA (1) = -3.887

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0027	.0054			
.798		.0704						
.808			.0139					
.834	.0644							
.839		-.0406						
.850				-.0910	-.2149	-.1266		
.857			-.0656					
.862								
.865	-.0065						-.2426	
.879		-.1223						
.900	-.0370			-.1915		-.1741		
.906			-.1745					
.919		-.1300						
.950				-.2774	-.2586	-.2658		
.953			-.2294					
.955		-.1399						
.985	-.0825							
1.000			-.1800		-.3148		-.5501	

ALPHA (5) = 11.952 BETA (2) = .148 MACH = 1.2452 Q = 599.20 P = 552.04 RN/L = 3.0172

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3571	-.5041	.1014	.6194	.6365	.6583	.6385	
.020	.6835	-.2304	.2785	.5656	.6018	.6311	.6192	-.2055
.040		-.1570	.3731					
.051	-.0238			.4976	.5218	.5493	.5571	
.069								-.0468
.080				.4258				
.081			.3416					
.096		.0634						
.134	.0372							
.140				.3977	.4525	.4761	.4285	
.157								
.163		.3010						-.0686
.177			.3306					
.209	.0806							
.246		.2340						
.260				.3778	.4095	.4273	.3541	
.274			.3404					
.345								
.390		.3182						.0524

AMES 11-07J(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (5) = 11.952 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3618	.3835		.3020	
.402			.3602					
.503								.0407
.550				.2903	.2841			
.565			-.5929					
.600							.1303	
.637		.2814						
.650						.1554		
.670								-.1355
.700					.1103			
.725				.1116				
.750						.0289	-.0184	
.760			.0646					
.775				.0151	.0120			
.788		.0722						
.809			.0194					
.834	.0656							
.839		-.0323						
.850				-.0785	-.2221	-.1369		
.857			-.0690					
.862								-.2812
.865	-.0160							
.879		-.1139						
.900	-.0458			-.1845			-.1924	
.905			-.1782					
.919		-.1331						
.930				-.2755	-.2343	-.2497		
.943			-.2038					
.955		-.1518						
.965	-.1116							
1.000			-.2365		-.2468		-.5727	

ALPHA (5) = 11.946 BETA (3) = 4.215 MACH = 1.2452 Q = 599.20 P = 552.04 RN/L = 3.0172

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4727	-.5548	-.1061	.5139	.5574	.5553	.5389	
.020	.0222	-.3365	.1174	.5048	.5533	.5822	.5529	-.3277
.040		-.2508	.2745					
.050	-.1032			.4486	.5075	.5231	5180	
.069								-.1477
.080				.4083				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L02)

ALPHA (5) = 11.946 BETA (3) = 4.215

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.091			.2537					
.086		-.0202						
.034	-.0353							
.150				.3737	.4428	.4669	.4050	
.157								-.1197
.163		.2336						
.177			.3018					
.223	.0277							
.246		.1860						
.250				.3575	.3984	.4162	.3424	
.274			.3389					
.346								-.0062
.392		.3135						
.400				.3469	.3705		.2819	
.402			.3456					
.503								-.0120
.506				.2790	.2745			
.665			-.5394					
.693							.1165	
.697		.2693						
.650						.1465		
.670								-.1575
.700					.1144			
.750				.1088				
.794						.0180	-.0284	
.796			0579					
.798				.0182	.0124			
.800		.067						
.804			.0154					
.864	.0561							
.830		-.0320						
.852				-.0301	- 2395	-.1495		
.874			-.0738					
.896								-.3006
.910	- 0838							
.918		- 0992						
.921	- 0412			-.1804			-.2125	
.926			- 1625					
.939		-.1251						
.944				-.2657	-.2122	-.2453		
.948			-.1938					
.958		-.1559						
.965	- 14.2							
1.000			- 2-34		-.1397		-.5515	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8_03) (05 AUG 75)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1076.6900 IN. XO
LREF = [illegible] IN. YMRP = .0000 IN. YO
BREF = 375.0000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (I) = -4.048 BETA (I) = -3.881 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION (I) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
.010	-.1709	-.3487	-.3041	-.6215	-.7563	-.5705	-.5591	
.022	-.2231	-.3186	-.3627	-.7812	-.7959	-.8131	-.8211	-.8488
.040		-.2898	-.4189					
.058	-.1321			-.7311	-.8149	-.8451	-.8480	
.069								-.9423
.080				-.7093				
.091			-.2991					
.096		-.1464						
.104	-.1898							
.150				-.4870	-.7127	-.7458	-.7725	
.157								-.5252
.163		-.0685						
.177			-.2441					
.209	-.1585							
.246		-.1362						
.250				-.2701	-.6073	-.6797	-.7062	
.274			-.1921					
.345								-.8823
.390		-.1526						
.400				-.1606	-.1970		-.6296	
.402			-.1254					
.503								-.8802
.550				-.1424	-.1723			
.565			-.4511					
.600							-.4398	
.637		-.1116						
.650						-.1846		
.670								-.8058
.700					-.2562			
.725				-.2644				
.750						-.2610	-.2963	
.750			-.2627					
.775				-.3692	-.3292			
.798		-.2399						
.808			-.3825					
.844	-.2382							
.849		-.3740						
.850				-.4467	-.3769	-.4016		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (1) = -4.048 BETA (1) = -3.881

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.4228					
.862								-.6006
.865	-.3290							
.879		-.4181						
.900	-.3129			-.5101			-.4260	
.905			-.5049					
.919		-.4355						
.950				-.2722	-.5007	-.4899		
.953			-.1802					
.955		-.1801						
.965	-.3233							
1.000			-.0755		-.1814		-.1122	

ALPHA (1) = -4.035 BETA (2) = .153 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1424	-.1705	-.1126	-.6149	-.7780	-.6150	-.6152	
.020	.5427	-.1730	-.1551	-.7661	-.8195	-.8413	-.8646	-.9121
.040		-.1504	-.2602					
.050	-.1337			-.6914	-.8283	-.8745	-.8914	
.069								-.9233
.080				-.6432				
.100			-.1075					
.105		-.0451						
.094	-.1383							
.150				-.2890	-.6886	-.7657	-.7969	
.157								-.5104
.183		.0195						
.177			-.1861					
.209	-.1182							
.248		-.0880						
.250				-.1852	-.2328	-.6198	-.7357	
.314			-.1403					
.348								-.8911
.350		-.1030						
.401				-.1385	-.1279		-.4048	
.402			-.1078					
.503								-.7715
.551				-.1284	-.1543			
.555			-.5556					
.600							-.1653	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (1) = -4.035 BETA (2) = .153

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.1155						
.650						-.1817		
.670								-.4850
.700					-.2537			
.725				-.2524				
.750						-.2827	-.2549	
.760			-.2684					
.775				-.3592	-.3291			
.788		-.2269						
.808			-.3804					
.834	-.2342							
.839		-.3355						
.850				-.4507	-.4074	-.4068		
.857			-.4192					
.862								-.5100
.865	-.3211							
.879		-.3881						
.900	-.3137			-.5176			-.4310	
.905			-.5137					
.919		-.4194						
.950				-.3621	-.4703	-.4875		
.953			-.3127					
.955		-.3970						
.965	-.4549							
1.000			-.1236		-.1964		-.1572	

ALPHA (1) = -4.044 BETA (3) = 4.236 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1274	-.0627	.0407	-.5789	-.6758	-.6461	-.6595	
.020	.5580	-.0613	.0123	-.7057	-.8204	-.8611	-.8866	-.8361
.040		-.0400	-.1005					
.050	-.1082			-.5753	-.7569	-.8465	-.6895	
.069								-.7671
.080				-.2915				
.091			-.0819					
.096		.0400						
.094	-.1059							
.107				-.2135	-.3193	-.6426	-.8087	
.107								-.4062
.103		.1038						

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (1) = -4.044 BETA (3) = 4.236

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1093					
.229	-.0687							
.246		-.0006						
.250				-.1441	-.2011	-.2679	-.5038	
.274			-.0759					
.345								-.6079
.390		-.0412						
.400				-.1139	-.1225		-.2126	
.402			-.0878					
.503								-.5064
.550				-.1366	-.1563			
.565			-.4379					
.600							-.1983	
.637		-.1167						
.650						-.2039		
.670								-.3580
.700					-.2726			
.725				-.2492				
.750						-.3013	-.2911	
.760			-.2845					
.775				-.3587	-.3479			
.798		-.2333						
.808			-.3877					
.834	-.2510							
.839		-.3680						
.850				-.4508	-.4249	-.4159		
.857			-.4164					
.870								-.4092
.878	-.3618							
.879		-.3973						
.900	-.3301			-.5193			-.4525	
.905			-.5111					
.919		-.4220						
.950				-.5396	-.4838	-.5303		
.953			-.5048					
.955		-.4443						
.905	-.4711							
1.000			-.1763		-.2738		-.1787	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (2) = -.027 BETA (1) = -3.903 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0516	-.0116	.2073	-.3370	-.4821	-.4053	-.3134	
.020	.5922	-.0438	.1188	-.4923	-.5643	-.5722	-.6093	-.4284
.040		-.0316	-.0736					
.050	-.0920			-.3126	-.4729	-.5732	-.6105	
.069								-.4298
.080				-.2613				
.081			-.0721					
.095		.0189						
.094	-.1076							
.150				-.1799	-.2187	-.3710	-.4938	
.157								-.1838
.163		.0850						
.177			-.0898					
.229	-.0800							
.245		-.0383						
.250				-.0682	-.0991	-.0914	-.1077	
.274			-.0495					
.345								-.1006
.390		-.0190						
.400				-.0063	.0197		-.0071	
.402			.0053					
.502								-.1520
.550				-.0135	-.0392			
.565			-.5166					
.600							-.1268	
.637		-.0078						
.650						-.0956		
.670								-.3125
.700					-.1578			
.725				-.1668				
.750						-.2236	-.2709	
.760			-.1949					
.775				-.2358	-.2446			
.798		-.1691						
.808			-.3034					
.834	-.1799							
.839		-.3013						
.850				-.3649	-.2786	-.3741		
.867			-.3482					
.862								-.4013
.865	-.2707							
.879		-.3428						
.900	-.2476			-.4361			-.4279	
.905			-.4408					
.919		-.3689						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (2) = -.027 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2440	-.4595	-.4J08		
.953			-.1399					
.955		-.2165						
.965	-.3256							
1.000			-.0221		-.1401		-.0536	

ALPHA (2) = -.023 BETA (2) = .144 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1078	-.0128	.2803	-.2721	-.4668	-.4252	-.3278	
.020	.5650	-.0197	.2053	-.2520	-.4185	-.5519	-.6071	-.2238
.040		-.0025	.0572					
.050	-.1095			-.2350	-.3711	-.4376	-.4936	
.069								-.2171
.080				-.1617				
.081			-.0049					
.086		.0589						
.094	-.1146							
.150				-.1147	-.0893	-.0639	-.1300	
.157								-.1438
.163		.1555						
.177			-.0369					
.229	-.0685							
.246		.0097						
.250				-.0409	-.0457	-.0617	-.1147	
.274			-.0065					
.345								-.1115
.370		.0116						
.400				.0135	.0418		-.0231	
.422			.0054					
.503								-.1666
.550				-.0092	-.0380			
.565			-.6340					
.600							-.1474	
.637		-.0130						
.650						-.1114		
.670								-.3215
.700					-.1672			
.725				-.1644				
.750						-.2433	-.2837	
.780			-.1919					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (2) = -.023 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2362	-.2592			
.798		-.1589						
.808			-.2987					
.834	-.1677							
.839		-.2945						
.850				-.3752	-.3280	-.3874		
.857			-.3266					
.862							-.4024	
.865	-.2625							
.879		-.3549						
.900	-.2244			-.4370		-.4422		
.905			-.4425					
.919		-.3739						
.950				-.3711	-.4618	-.4929		
.953			-.3598					
.955		-.3640						
.965	-.3661							
1.000			-.0505		-.1696		-.1159	

ALPHA (2) = -.029 BETA (3) = 4.209 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2035	-.0398	.3570	-.0842	-.3247	-.3777	-.2996	
.020	.5422	-.0136	.3069	-.1034	-.2602	-.3656	-.4733	-.1762
.040		.0079	.1656					
.060	-.1533			-.0943	-.2426	-.2752	-.3529	
.079							-.1796	
.080				-.0677				
.081			.0884					
.086		.0979						
.094	-.1204							
.150				-.0248	-.0495	-.0848	-.1249	
.157							-.1586	
.163		.2037						
.177			.0434					
.229	-.0584							
.246		.0772						
.250				-.0007	-.0462	-.0667	-.1108	
.27			.0465					
.345							-.1458	
.390		.0627						

AMES 11-073(OA148) -140A/B/C/P ORB LEFT WING BOT (XE8L03)

ALPHA (2) = -.029 BETA (3) = 4.209

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0160	.0178		-.0450	
.402			.0315					
.503								-.1987
.550				-.0361	-.0586			
.565			-.5071					
.630							-.1765	
.637		-.0209						
.650						-.1414		
.670								-.3469
.700					-.1990			
.725				-.1770				
.750						-.2581	-.2998	
.760			-.2068					
.775				-.2725	-.2777			
.799		-.1638						
.808			-.2993					
.824	-.1774							
.839		-.2901						
.850				-.3807	-.3738	-.3986		
.867			-.3386					
.882								-.4011
.885	-.2689							
.879		-.3262						
.900	- 2601			-.4546			-.4582	
.905			-.4458					
.919		-.3511						
.950				-.4906	-.4116	-.5033		
.953			-.4401					
.955		-.3700						
.985	-.3811							
1.000			-.1148		-.2157		-.1719	

ALPHA (3) = 3.853 BETA (1) = -3.903 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1655

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0285	-.0686	.4657	.1929	.1042	.1823	.2363	
.030	.0070	-.0004	.4094	.0592	.0860	.0893	.0952	.0707
.040		.0225	.2433					
.050	-.0285			.0522	.0410	.0662	.0986	
.060								.0421
.080				.0508				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (3) = 3.803 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1384					
.086		.1159						
.094	-.0429							
.150				.1046	.1156	.1384	.0907	
.157								-.0712
.163		.2294						
.177			.0878					
.229	-.0420							
.246		.0969						
.250				.1380	.1299	.1272	.0645	
.274			.1479					
.345								-.0265
.390		.1579						
.400				.1618	.1609		.0891	
.402			.1803					
.503								-.0859
.550				.0789	.0643			
.565			-.5931					
.630							-.0715	
.637		.0973						
.650						-.0314		
.670								-.2588
.700					-.1066			
.725				-.0962				
.750						-.1595	-.2079	
.760			-.1237					
.775				-.1895	-.2082			
.798		-.1113						
.809			-.2257					
.818	-.1191							
.839		-.2322						
.850				-.3270	-.3062	-.3308		
.857			-.2824					
.862								-.3932
.865	-.1985							
.879		-.3036						
.900	-.1963			-.4042			-.3885	
.905			-.3902					
.919		-.3211						
.930				-.3939	-.3877	-.4658		
.953			-.2827					
.955		-.2923						
.965	-.3172							
1.000			.0075		-.1320		-.2091	

AMES 11-0/3(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (3) = 3.994 BETA (2) = .147 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1717	-.2083	.4370	.2764	.1884	.2494	.2946	
.020	.5565	-.0934	.4193	.1513	.1375	.1668	.1523	-.0023
.040		-.0550	.2887					
.060	-.0899			.1254	.0798	.1229	.1356	
.069								-.0044
.080				.1063				
.081			.1783					
.086		.0939						
.094	-.0890							
.150				.1341	.1504	.1534	.1074	
157								-.0888
.163		.2546						
.177			.1353					
.239	-.0599							
.246		.1295						
.250				.1342	.1454	.1458	.0675	
.274			.1394					
.345								-.0705
.390		.1527						
.400				.1494	.1610		.0770	
.402			.1611					
503								-.1218
.560				.0903	.0600			
.565			-.6677					
.800							-.0878	
.827		.0899						
.850						-.0515		
.870								-.2941
.700					-.1124			
725				-.0930				
.750						-.1494	-.2287	
.760			-.135.					
.775				-.2003	-.2001			
.793		-.1033						
.819			-.2124					
814	-.1133							
.839		- 2266						
.850				-.3113	-.2972	-.3474		
.871			-.2760					
.892								-.4439
.905	-.2090							
929		-.2989						
[illegible]	-.2043			-.4006			-.4093	
.946			-.3843					
.919		- 3120						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (3) = 3.894 BETA (2) = .147

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4263	-.3823	-.4479		
.953			-.3933					
.955		-.3141						
.965	-.3069							
1.000			-.0161		-.1061		-.2498	

ALPHA (3) = 3.895 BETA (3) = 4.201 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3555	-.3269	.4061	.3653	.2516	.2928	.3052	
.020	.4928	-.1721	.4276	.2582	.2160	.2096	.1955	-.1349
.040		-.1244	.3465					
.050	-.1719			.2086	.1504	.1432	.1692	
.069								-.1014
.080				.1803				
.081			.2462					
.086		.0754						
.094	-.1438							
.150				.1685	.1606	.1523	.1064	
.157								-.1378
.163		.2760						
.177			.1946					
.220	-.0799							
.246		.1779						
.260				.1611	.1402	.1367	.0517	
.274			.1786					
.345								-.1337
.360		.1848						
.400				.1459	.1438		.0486	
.402			.1736					
.503								-.1703
.510				.0781	.0425			
.565			-.5860					
.600							-.1134	
.647		.0825						
.650						-.0742		
.670								-.3385
.700					-.1206			
.705				-.1044				
.730								
.750						-.1817	-.2560	
.760			-.1365					

AMES 11-073:OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL03)

ALPHA (3) = 3.895 BETA (3) = 4.201

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2185	-.2106			
.798		-.1059						
.803			-.2169					
.834	-.1200							
.839		-.2315						
.900				-.3163	-.3332	-.3609		
.857			-.2792					
.8[illegible]							-.4872	
.8[illegible]	-.2153							
.879		-.2983						
.900	-.2198			-.4111			-.4343	
.905			-.3824					
.919		-.3225						
[illegible]				-.4600	-.3787	-.4576		
[illegible]			-.4085					
[illegible]		-.3355						
.9[illegible]	-.3189							
1.000			-.0924		-.1585		-.3076	

ALPHA (4) = 7.895 BETA (1) = -3.998 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.770	-.1355	-.4005	.4462	.6121	.5658	.6225	.6082	
.791	.5850	-.1627	.5233	.4932	.4939	.5109	.5023	-.0295
.843		-.1084	.4609					
[illegible]	.0032			.4010	.3964	.4126	.4014	
[illegible]								.0356
[illegible]				3529				
[illegible]			.3803					
[illegible]		.0885						
[illegible]	.0006							
[illegible]				.3342	.3373	.3429	.2818	
[illegible]								-.0626
[illegible]		.3518						
[illegible]			.3073					
.9[illegible]	.0018							
[illegible]		.2540						
[illegible]				.2936	.2954	.2857	.2253	
[illegible]			.2883					
3[illegible]5								
.3[illegible]0		.2838						-.0041

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (α) = 7.886 BETA (β) = -3.808

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2563	.2645		.1795	
.402			.2798					
.503								-.0407
.505				.1701	.1529			
.565			-.6423					
.600							-.0011	
.637		.1671						
.650						.0306		
.670								-.2182
.700					-.0526			
.725				-.0297				
.750						-.1061	-.1640	
.760			-.0811					
.775				-.1479	-.1587			
.788		-.0631						
.808			-.1544					
.824	-.0723							
.838		-.1942						
.850				-.2600	-.3741	-.2831		
.857			-.2229					
.862								-.3589
.865	-.1594							
.879		-.2720						
.900	-.1468			-.3696			-.3348	
.905			-.3478					
.913		-.2561						
.927				-.4421	-.3752	-.4348		
.945			-.3686					
.955		-.2674						
.970	-.2559							
1.000			-.0182		-.1544		-.4326	

ALPHA (α) = 7.886 BETA (β) = .144 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3403	-.6451	.3183	.5977	.5470	.5974	.5659	
.030	.5183	-.3232	.4480	.5060	.4931	.5126	.4969	-.1696
.040		-.2454	.4473					
.050	-.0976			.4097	.4015	.4190	.4020	
.069								-.0761
.090				.3593				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING 80. (XEBL03)

ALPHA (4) = 7.886 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2993	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.081			.3691					
.086		.0125						
.094	-.0640							
.150				.3234	.3427	.3473	.2747	
.157								-.0979
.163		.3471						
.177			.3156					
.229	-.0392							
.246		.2781						
.250				.2954	.3017	.2926	.2109	
.274			.2946					
.345								-.0564
.370		.2929						
.402				.2584	.2630		.1597	
.422			.2760					
.497								-.0813
.550				.1691	.1503			
.568			-.7250					
.633							-.0190	
.637		.1721						
.650						.0082		
.670								-.2599
.703					-.0419			
.715				-.0271				
.750						-.1215	-.1856	
.760			-.0756					
.775				-.1424	-.1619			
.799		-.0520						
.808			-.1477					
.834	-.0561							
.839		-.1793						
.850				-.2508	-.3744	-.3072		
.855			-.2.+9					
.880								-.4043
.885	-.1603							
.900		-.3467						
.903	-.1459			- 3672			-.3517	
.905			-.3271					
.918		-.2486						
.931				-.4417	-.3562	-.4283		
.943			- 3500					
.946		- 2647						
.956	-.2489							
.967			- 0376		- 0762		-.4595	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/E/C/R ORB LEFT WING BOT (XEBL03)

ALPHA (4) = 7.988 BETA (3) = 4.200 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2930	.3840	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	-.5590	-.4478	.1791	.5777	.5293	.5365	.5101	
.020	.4410	-.3524	.3458	.5135	.4863	.4862	.4464	-.3395
.040		-.2895	.4076					
.050	-.1949			.4336	.4004	.3993	.3734	
.069								-.2011
.080				.3788				
.081			.3724					
.085		-.0324						
.094	-.1387							
.150				.3315	.3335	.3270	.2549	
.157								-.1441
.163		.3097						
.177			.3315					
.229	-.0814							
.245		.2752						
.250				.2905	.2873	.2724	.1864	
.274			.2997					
.345								-.1345
.390		.2927						
.400				.2418	.2449		.1299	
.402			.2690					
.503								-.1402
.550				.1546	.1301			
.565			-.6510					
.600							-.0484	
.637		.1513						
.650						-.0157		
.670								-.3068
.700					-.0436			
.705				-.0388				
.750						-.1376	-.2083	
.760			-.0893					
.775				-.1554	-.1571			
.788		-.0582						
.808			-.1556					
.834	-.0783							
.839		-.1839						
.850				-.2544	-.3593	-.3197		
.857			-.2281					
.862								-.4599
.865	-.1721							
.879		-.2531						
.900	-.1812			-.3641			-.3803	
.905			-.3324					
.919		-.2827						

AMES 11-073(OA148) -140A/B/C/R OR9 LEFT WING BOT (XE8L03)

ALPHA (4) = 7.886 BETA (3) = 4.200

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4393	-.3347	-.4204		
953			-.3606					
.955		-.2993						
.965	-.2716							
1.000			-.0972		-.1305		-.5185	

ALPHA (5) = 11.990 BETA (1) = -3.881 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3075	-.0854	.2252	.7403	.7344	.7226	.6785	
.020	.5946	-.2206	.4519	.6948	.7040	.7000	.6530	-.2050
.040		-.1375	.5479					
.060	.0086			.6001	.6063	.6091	.5768	
.080				.5358				-.0460
.091			.5030					
.06		.1888						
.04	.0519							
.02				.4791	.4987	.4999	.4244	
.01								-.0731
.03		.4627						
.05			.4426					
.07	.0782							
.09		.3228						
.11				.4204	.4324	.4181	.3460	
.13			.4099					
.15								.0447
.17		3945						
.19				.3570	.3644		.2630	
.21			.3888					
.23								.0089
.25				.2522	.2308			
.27			-.6935					
.29							.0744	
.31		.2427						
.33						.1129		
.35								-.1661
.37					0515			
.39				.0944				
.41						-.0498	- 0995	
			- 0208					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (5) = 11.990 BETA (1) = -3.881

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0617	-.0948			
.798		-.0002						
.808			-.0837					
.834	-.0163							
.839		-.1339						
.850				-.1880	-.3265	-.2275		
.857			-.1529					
.862							-.3239	
.865	-.1044							
.879		-.2135						
.900	-.1153			-.3215		-.2750		
.905			-.2908					
.919		-.2102						
.950				-.3892	-.3165	-.3679		
.953			-.3161					
.955		-.2351						
.965	-.1925							
1.000			-.1281		-.2794		-.5511	

ALPHA (5) = 11.997 BETA (2) = .149 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5099	-.6579	-.0135	.6616	.6636	.6317	.5850	
.020	.4889	-.3408	.2711	.6587	.6642	.6462	.5918	-.3550
.040		-.2557	.4639					
.050	-.1010			.5904	.5959	.5766	.5381	
.069								-.1619
.080				.5377				
.081			.4744					
.086		.0623						
.094	-.0275							
.150				.4677	.4877	.4858	.3977	
.157								-.1079
.163		.3947						
.177			.4452					
.229	.0307							
.246		.3684						
.250				.4193	.4169	.4074	.3174	
.274			.4213					
.345								-.0180
.390		.3904						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (5) = 11.997 BETA (2) = .149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3537	.3536		.2357	
.402			.3756					
.503								-.0400
.550				.2459	.2242			
.565			-.7377					
.600							.0524	
.637		.2447						
.650						.1007		
.670								-.2188
.700					.0416			
.725				.0421				
.750						-.0644	-.1151	
.760			-.0154					
.775				-.0644	-.0930			
.798		-.0013						
.808			-.0783					
.8??	- 0101							
.839		-.1258						
.850				-.1836	-.3340	-.2648		
.857			-.1556					
.862								-.3828
.855	-.1072							
.879		-.1938						
.900	-.0969			-.3154			-.3050	
.905			-.2641					
.919		-.1950						
.950				-.3969	-.3006	-.3577		
.953			-.2909					
.955		-.2262						
.965	-.1983							
1.000			-.1295		-.2099		-.6001	

ALPHA (5) = 11.992 BETA (3) = 4.212 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6577	- 6929	-.1544	.5683	.5728	.5092	.4637	
.040	.4193	-.4585	.1421	.5972	.5869	.5688	.5004	-.4884
.040		- 3692	.3943					
.075	-.2016			.5502	.5491	.5263	.4772	
.080								-.2806
.080				.5075				

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073 !)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L03)

ALPHA (5) = 11.992 BETA (3) = 4.212

SECTION: (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.4496					
.086		-.0137						
.094	-.1103							
.150				.4460	.4570	.4494	.3524	
.157								-.1729
.163		.3413						
.177			.4306					
.229	-.0263							
.246		.3432						
.250				.3907	.3911	.3760	.2636	
.274			.3967					
.345								-.1043
.390		.3755						
.400				.3271	.3285		.2021	
.402			.3517					
.503								-.1125
.550				.2256	.2014			
.565			-.7036					
.600							.0185	
.637		.2236						
.650						.0739		
.679								-.2709
.700					.0279			
.725				.0318				
.750						-.0852	-.1442	
.760			-.0355					
.775				-.0839	-.1004			
.799		-.0145						
.808			-.0860					
.834	-.0297							
.839		-.1373						
.850				-.1939	-.3557	-.2882		
.857			-.1700					
.862								-.4338
.865	-.1237							
.879		-.1936						
.900	-.1273			-.3213			-.3434	
.905			-.2657					
.919		-.2265						
.950				-.3948	-.3051	-.3737		
.953			-.3064					
.955		-.2544						
.966	-.2299							
1.000			-.2544		-.2284		-.6530	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (1) = -4.058 BETA (1) = -3.880 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1407	-.3071	-.5017	-1.0855	-1.2626	-1.0322	-1.0444	
.020	.2446	-.2641	-.5485	-1.2617	-1.3245	-1.3343	-1.3521	-1.3431
.040		-.2299	-.6687					
.050	-.1381			-1.1587	-1.3228	-1.3735	-1.3857	
.069								-1.2528
.080				-1.0726				
.081			-.4885					
.086		-.1176						
.094	-.1230							
.100				.6297	-1.1528	-1.2285	-1.2516	
.107								-.6172
.163		-.1814						
.177			-.4735					
.229	-.0579							
.246		-.3217						
.250				-.4061	-.4792	-.8858	-1.1891	
.274			-.3817					
.345								-.7202
.390		-.3439						
.400				-.2707	-.2704		-.3985	
.492			-.2515					
.503								-.6219
.550				-.3182	- 2675			
.585			-.7784					
.638							-.2178	
.697		-.2921						
.650						-.2511		
.[illegible]								-.4354
.[illegible]					-.3114			
.[illegible]				-.3342				
.750						-.4297	-.3627	
.750			- 2831					
.775				-.4940	-.4018			
.[illegible]		-.2899						
.[illegible]			-.5460					
.[illegible]	-.2832							
.[illegible]		-.4455						
.[illegible]				-.3225	-.3075	-.2540		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (1) = -4.058 BETA (1) = -3.880

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2850					
.862								-.3335
.865	-.4211							
.879		-.2197						
.900	-.2066			-.1593			-.1784	
.905			-.1308					
.919		-.1111						
.950				-.0397	-.1893	-.0226		
.953			-.0243					
.955		-.0290						
.965	-.0338							
1.000			.0515		-.0107		.0307	

ALPHA (1) = -4.036 BETA (2) = .153 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0465	-.1247	-.3336	-1.0741	-1.2890	-1.0767	-1.1053	
.020	.2857	-.0970	-.3778	-1.2384	-1.3463	-1.3685	-1.1265	-.7064
.040		-.0823	-.4821					
.050	-.0604			-1.1162	-1.2762	-1.2906	-1.1229	
.069								-.6431
.080				-.7042				
.081			-.3971					
.086		-.0329						
.094	-.0614							
.150				-.5175	-.6789	-1.0212	-.9523	
.157								-.3722
.163		-.0918						
.177			-.4057					
.229	-.0162							
.246		-.2501						
.250				-.3730	-.3893	-.6324	-.8176	
.274			-.3241					
.345								-.4548
.390		-.2871						
.420				-.2677	-.2839		-.6092	
.432			-.2358					
.503								-.4069
.550				-.3172	-.3333			
.565			-.7226					
.600							-.3473	

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (1) = -4.036 BETA (2) = .153

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2878						
.650						-.3133		
.670								-.3315
.700					-.3812			
.725				-.3864				
.750						-.4452	-.3485	
.760			-.3534					
.775				-.5300	-.4243			
.798		-.3295						
.808			-.5501					
.834	-.3156							
.839		-.4283						
.850				-.2858	-.2920	-.2704		
.857			-.2635					
.862								-.2380
.865	-.4286							
.879		-.2312						
.900	-.2455			-.1336			-.1724	
.905			-.1301					
.919		-.1246						
.950				-.0367	-.1466	-.0320		
.953			-.0317					
965		-.0544						
.365	-.0642							
1.000			.0294		.0099		-.0322	

ALPHA (1) = -4.047 BETA (3) = 4.237 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.0	-.0028	-.0116	-.1747	-1.0367	-1.2910	-1.1147	-.9672	
.040	.3042	-.0046	-.2281	-1.0949	-1.3225	-1.1504	-.9669	-.6763
.043		.0137	-.3217					
.050	-.0129			-.7020	-1.2546	-1.1216	-.9068	
.063								-.6242
.080				-.5376				
.081			-.3189					
.095		.0274						
084	-.0206							
152				-.4298	-.5093	-.9081	-.8283	
.157								-.3928
153		-.0389						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (1) = -4.047 BETA (3) = 4.237

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3184					
.229	.0112							
.246		-.2175						
.250				-.3450	-.3479	-.5641	-.7142	
.274			-.2971					
.345								-.5017
.390		-.2560						
.400				-.2663	-.2635		-.5348	
.402			-.2303					
.503								-.4043
.550				-.3140	-.3668			
.565			-.7770					
.600							-.3659	
.637		-.2972						
.650						-.3702		
.670								-.2998
.700					-.4610			
.725				-.4579				
.750						-.4226	-.3300	
.760			-.4295					
.775				-.5334	-.3371			
.798		-.3791						
.803			-.5133					
.834	-.3724							
.839		-.3862						
.850				-.2555	-.2020	-.2201		
.857			-.2444					
.862								-.1705
.865	-.4581							
.879		-.2135						
.900	-.2653			-.1195			-.1244	
.905			-.1326					
.919		-.1216						
.950				-.0263	-.0832	-.0100		
.953			-.0538					
.955		-.0569						
.955	-.0786							
1.000			-.0088		.0010		.0343	

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (Z) = -.025 BETA ( ) = -3.907 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0338	.0847	.0948	-.6681	-.8462	-.7689	-.6352	
.020	.3184	.0672	-.0188	-.6258	-.7842	-.7764	-.9129	-.3385
.040		.0785	-.1825					
.050	.0027							
.069				-.5319	-.6187	-.6977	-.7816	
.090								-.3583
.091				-.3617				
.086			-.2062					
.094		.0897						
.150	-.0144							
.157				-.2214	-.2347	-.2668	-.2798	
.163		.0149						-.2471
.177			-.1913					
.229	.0206							
.246		-.1404						
.250				-.1625	-.2084	-.2466	-.2774	
.274			-.1380					
.345								
.390		-.1129						-.3151
.400				-.1358	-.1490		-.2108	
.4[illegible]			-.0960					
.4[illegible]								
.450				-.2078	-.2264			-.3577
.455			-.8575					
.4[illegible]								
.477		-.2003					-.3776	
.500						-.3429		
.500					-.3946			-.3855
.745				-.3620				
.750						-.4535	-.4955	
.7[illegible]			-.3046					
.7[illegible]				-.4896	-.4162			
.8[illegible]		-.2670						
.8[illegible]			-.5884					
.8[illegible]	-.2694							
.8[illegible]		-.5363						
.8[illegible]				-.3303	-.3202	-.2177		
.8[illegible]			-.3003					
.9[illegible]								-.1481
.9[illegible]		-.2488						
.9[illegible]	-.3218			-.1354			-.1003	
.9[illegible]		-.1787	-.1170					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (2) = -.025 BETA (1) = -3.967

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0347	-.1902	-.0293		
.953			-.0157					
.955		-.0254						
.955	-.0302							
1.000			.0372		-.0253		.0569	

ALPHA (2) = -.020 BETA (2) = .144 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0270	.1062	.1757	-.4810	-.6805	-.7091	-.6207	
.020	.3202	.1057	.0937	-.4803	-.5882	-.6487	-.7929	-.3290
.040		.1170	-.0620					
.050	.0089			-.3682	-.4805	-.5688	-.6677	
.069								-.3431
.080				-.2975				
.081			-.1289					
.086		.1260						
.094	.0086							
.150				-.1942	-.2222	-.2359	-.3455	
.157								-.2600
.163		.0711						
.177			-.1423					
.229	.0403							
.246		-.1005						
.250				-.1479	-.2027	-.2375	-.2792	
.274			-.1141					
.345								-.3370
.390		-.0943						
.400				-.1360	-.1595		-.2289	
.402			-.0957					
.503								-.3990
.550				-.2311	-.2393			
.555			-.8613					
.630							-.3991	
.637		-.2060						
.650						-.3670		
.670								-.3623
.700					-.4137			
.725				-.3755				
.750						-.4534	-.5417	
.760			-.3147					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL04)

ALPHA (2) = -.020 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.5133	-.4262			
.798		-.2925						
.808			-.5722					
.834	-.2709							
.839		-.4980						
.850				-.3011	-.2830	-.2067		
.857			-.2971					
.862								-.1127
.865	-.4236							
.879		-.2448						
.900	-.2473			-.1311			-.0964	
.905			-.1284					
.919		-.1252						
.950				-.0438	-.1597	-.0698		
.953			-.0274					
.955		-.0405						
.965	-.0703							
1.000			.0226		-.0088		.0441	

ALPHA (2) = -.027 BETA (3) = 4.215 MACH = .89927 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0151	.0775	.2212	-.3124	-.5334	-.5914	-.6585	
.040	.3002	.0078	.1575	-.3636	-.4698	-.5082	-.6481	-.3136
.060		.1158	.0076					
.080	.0044			-.2624	-.3798	-.4267	-.5113	
.100								-.3397
.200				-.2224				
.400			-.0817					
.600		.1353						
.800	.0101							
.900				-.1606	-.1873	-.2126	-.3241	
.950								-.2672
1.000		.0975						
1.100			-.1189					
1.200	.0411							
1.300		-.1382						
1.400				-.1388	-.1811	-.2165	-.2727	
1.500			.057					
1.600								-.3619
1.800		-.0809						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8L04)

ALPHA (2) = -.027 BETA (3) = 4.215

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1460	-.1590		-.2299	
.402			-.1006					
.503								-.4156
.550				-.2304	-.2498			
.565			-.8860					
.600							-.4097	
.637		-.2074						
.650						-.3836		
.670								-.3111
.700					-.4236			
.725				-.3876				
.750						-.4614	-.5692	
.760			-.3730					
.775				-.5231	-.4145			
.798		-.3194						
.858			-.5694					
.834	-.3285							
.839		-.4542						
.850				-.2846	-.2440	-.2021		
.957			-.3263					
.862								-.0809
.865	-.4590							
.879		-.2667						
.900	-.2905			-.1216			-.0931	
.905			-.1370					
919		-.1452						
.950				-.0227	-.0790	-.0388		
.953			-.0322					
.955		-.0637						
.965	-.0845							
1.000			.0267		.0012		.0541	

ALPHA (3) = 3.899 BETA (1) = -3.912 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0156	.1174	.3948	.0991	.0254	.1275	.1387	
.020	.3089	.1614	.3559	-.0272	-.0086	-.0142	-.0251	-.1071
.040		.1910	.1604					
.050	.0561			-.0351	-.0616	-.0499	-.0630	
.069								-.1610
.080				-.0361				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XESLO4)

ALPHA (3) = 3.898 BETA (1) = -3.912

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0585					
.086		.2273						
.094	.0523							
.150				.0021	-.0152	-.0163	-.0794	
.157								-.1794
.163		.1908						
.177			.0160					
.229	.0949							
.246		.0309						
.250				-.0031	-.0306	-.0480	-.1059	
.274			.0143					
.295								-.2511
.340		.0209						
.400				-.0279	-.0320		-.1171	
.402			.0143					
.503								-.3169
.550				-.1307	-.1458			
.594			-.9402					
.600							-.3028	
.637		-.1215						
.650						-.2829		
.670								-.4058
.700					-.3402			
.735				-.2942				
.750						-.4541	-.4867	
.760			-.2390					
.775				-.4179	-.3905			
.798		-.2004						
.808			-.5082					
.834	-.2057							
.839		-.4979						
.850				-.5695	-.4461	-.6057		
.857			-.5315					
.868								-.3766
.885	-.4240							
[illegible]		-.4146						
910	-.2969			-.1524			-.5611	
926			-.1475					
.930		-.1309						
.941				-.0144	-.1735	-.0688		
963			-.0110					
.968		-.0268						
.975	-.0490							
1.000			.0519		.0401		-.0312	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEQLC4)

ALPHA (3) = 3.896 BETA (2) = .152 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Bw	.2940	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.0791	-.0046	.3635	.1661	.0749	.1463	.1451	
.020	.2970	.0930	.3401	.0540	.0436	.0255	-.0006	-.2190
.040		.1332	.2035					
.050	.0141			.0205	-.0258	-.0353	-.0470	
.069								-.2479
.080				-.0026				
.081			.0972					
.086		.2119						
.094	.0335							
.150				.0075	-.0096	-.0242	-.0989	
.157								-.2188
.163		.2095						
.177			.0397					
.229	.0839							
.246		.0514						
.250				.0006	-.0391	-.0618	-.1328	
.274			.0218					
.345								-.3172
.390		.0284						
.400				-.0344	-.0507		-.1508	
.402			.0045					
.503								-.3767
.550				-.1438	-.1702			
.565			-.9432					
.600							-.3476	
.637		-.1247						
.650						-.3196		
.672								-.3971
.700					-.3450			
.725				-.3015				
.750						-.4913	-.5418	
.760			-.2489					
.775				-.4485	-.4073			
.798		-.2021						
.806			-.4985					
.834	-.2111							
.839		-.4717						
.850				-.5481	-.4597	-.6327		
.857			-.5073					
.882								-.2906
.895	-.3921							
.879		-.4159						
.900	-.3061			-.1558			-.3669	
.905			-.1567					
.913		-.1569						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (3) = 3.895 BETA (2) = .152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0265	-.1274	-.0584		
.953			-.0278					
.955		-.0498						
.965	-.0959							
1.000			.0464		.0150		-.0294	

ALPHA (3) = 3.899 BETA (3) = 4.208 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.570⁴

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1970	-.1460	.2956	.2341	.1308	.1833	.1763	
.020	.2559	-.0085	.3154	.1175	.0913	.0728	.0461	-.3427
.040		.0429	.2203					
.060	-.0375			.0755	.0141	.0029	-.0215	
.080				.0418				-.3146
.101			.1160					
.086		.1720						
.091	-.0001							
.101				.0263	.003.	-.0105	-.0998	
.151								-.2583
.163		.2112						
.201			.3544					
.235	.0838							
.246		.3021						
.302				.0048	-.0030	-.0456	-.1402	
.351			.2947					
.401								-.3581
.451		.2110						
.501				-.1275	.0019		-.1643	
.551			.1					- -.92
.601				.175				
.651			.1				-.3581	
.701		.1.0						
.751					.084			
.801								- 803.
.851				0.0.				
.901					.080	- .0		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (3) = 3.899 BETA (3) = 4.208

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4393	-.3900			
.798		-.2379						
.808			-.4701					
.834	-.2240							
.839		-.4445						
.850				-.4865	-.3830	-.6055		
.857			-.4364					
.862								-.1717
.865	-.3805							
.879		-.3703						
.900	-.2834			-.1416			-.2193	
.905			-.1615					
.919		-.1714						
.950				-.0171	-.0796	-.0324		
.953			-.0303					
.955		-.0719						
.965	-.1108							
1.000			.0615		.0290		.0239	

ALPHA (4) = 7.895 BETA (1) = -3.903 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1785	-.1803	.4129	.4945	.4483	.5005	.4675	
.020	.2818	.0501	.4637	.3687	.3827	.3745	.3508	-.2855
.040		.1205	.3788					
.050	.0362			.2637	.2611	.2598	.2380	
.069								-.2062
.080				.2133				
.091			.2652					
.096		.2810						
.094	.0819							
.150				.1820	.1781	.1707	.0918	
.157								-.1952
.163		.3256						
.177			.1850					
.223	.1535							
.246		.1806						
.250				.1438	.1201	.0997	.0235	
.274			.1523					
.345								-.2296
.390		.1427						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (4) = 7.895 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0832	.0669		-.0414	
.402			.1174					
.503								-.2762
.550				-.0457	-.0715			
.555			-.6336					
.600							-.2525	
.637		-.0420						
.650						-.2084		
.670								-.3695
.700					-.2558			
.725				-.2215				
.750						-.3846	-.4426	
.760			-.2107					
.775				-.3846	-.3946			
.798		-.1785						
.808			-.4432					
.824	-.1072							
.839		-.4584						
.850				-.5901	- 5348	-.5691		
.867			-.5415					
.882								-.4421
.895	-.3870							
.879		-.4870						
.900	-.3230			-.3989			-.5739	
.905			-.3100					
.915		- 2225						
.930				-.0856	- 4408	-.7315		
.943			-.0560					
.955		- 0648						
.975	- 0875							
.990			0467		-.1267		-.3275	

ALPHA = 7.900 BETA = 0 MACH = 89900 Q = 599.51 P = 1001 .9/L .0703

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400	1651	-.1776	.0767	.4509	.4240	.4573	.4078	
.402	.1127	.2402	.4	.2731	.2651	.3564	.3239	-.4523
.503	-.1197			.1792	.2280	.2495	.2167	
.550								- 3228
.555				.2190				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (4) = 7.900 BETA (2) = .140

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2642					
.086		.2205						
.094	.0292							
.150				.1762	.1664	.1589	.0638	
.157								-.2439
.163		.3135						
.177			.1891					
.229	.1266							
.245		.1783						
.250				.1371	.1163	.0855	-.0022	
.274			.1478					
.345								-.2301
.390		.1442						
.400				.0696	.0535		-.0708	
.402			.1046					
.503								-.2816
.550				-.0558	-.0849			
.565			-.6524					
.600							-.2637	
.637		-.0404						
.650						-.2177		
.670								-.4350
.700					-.2583			
.725				-.2271				
.750						-.3837	-.4466	
.760			-.2282					
.775				-.3922	-.3996			
.799		-.1924						
.808			-.4353					
.834	-.1925							
.839		-.4319						
.850				-.5900	-.5272	-.5697		
.857			-.4976					
.862								-.4970
.865	-.3725							
.879		-.4395						
.900	-.3256			-.3437			-.6063	
.905			-.3024					
.919		-.2687						
.950				-.0708	-.2401	-.6381		
.953			-.0571					
.955		-.0910						
.985	-.1461							
1.000			.0514		-.0792		-.3902	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (4) = 7.897 BETA (3) = 4.209 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5244	-.3478	.1035	.4523	.3989	.3974	.3551	
.020	.1575	-.1681	.2618	.3765	.3450	.3424	.2914	-.5218
.040		-.0916	.3116					
.050	-.1220			.2916	.2529	.2425	.2032	
.069								-.3915
.080				.2355				
.081			.2474					
.095		.1451						
.094	-.0329							
.150				.1786	.1710	.1565	.0610	
.157								-.2445
.163		.2726						
.177			.1832					
.229	.0868							
.245		.1607						
.250				.1218	.1109	.0849	-.0134	
.274			.1365					
.345								-.2869
.370		.1365						
.400				.0522	.0502		-.0787	
.422			.0884					
.505								- 3284
.550				- 0534	-.0846			
.555			- 7256					
.570							-.2735	
.601		-.0719						
.651						-.2254		
.675								-.4563
.700					- 2999			
.750						- 3949	-.4586	
.800								
.850								
.900								
.950								
1.000								
1.050								
1.100								
1.150								
1.200								
1.250								
1.300								
1.350								
1.400								
1.450								
1.500								
1.550								
1.600								
1.650								
1.700								
1.750								
1.800								
1.850								
1.900								
1.950								
2.000								
2.050								
2.100								
2.150								
2.200								
2.250								
2.300								
2.350								
2.400								
2.450								
2.500								
2.550								
2.600								
2.650								
2.700								
2.750								
2.800								
2.850								
2.900								
2.950								
3.000								
3.050								
3.100								
3.150								
3.200								
3.250								
3.300								
3.350								
3.400								
3.450								
3.500								
3.550								
3.600								
3.650								
3.700								
3.750								
3.800								
3.850								
3.900								
3.950								
4.000								
4.050								
4.100								
4.150								
4.200								
4.250								
4.300								
4.350								
4.400								
4.450								
4.500								
4.550								
4.600								
4.650								
4.700								
4.750								
4.800								
4.850								
4.900								
4.950								
5.000								
5.050								
5.100								
5.150								
5.200								
5.250								
5.300								
5.350								
5.400								
5.450								
5.500								
5.550								
5.600								
5.650								
5.700								
5.750								
5.800								
5.850								
5.900								
5.950								
6.000								
6.050								
6.100								
6.150								
6.200								
6.250								
6.300								
6.350								
6.400								
6.450								
6.500								
6.550								
6.600								
6.650								
6.700								
6.750								
6.800								
6.850								
6.900								
6.950								
7.000								
7.050								
7.100								
7.150								
7.200								
7.250								
7.300								
7.350								
7.400								
7.450								
7.500								
7.550								
7.600								
7.650								
7.700								
7.750								
7.800								
7.850								
7.900								
7.950								
8.000								
8.050								
8.100								
8.150								
8.200								
8.250								
8.300								
8.350								
8.400								
8.450								
8.500								
8.550								
8.600								
8.650								
8.700								
8.750								
8.800								
8.850								
8.900								
8.950								
9.000								
9.050								
9.100								
9.150								
9.200								
9.250								
9.300								
9.350								
9.400								
9.450								
9.500								
9.550								
9.600								
9.650								
9.700								
9.750								
9.800								
9.850								
9.900								
9.950								
10.000								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (4) = 7.697 BETA (3) = 4.209

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0750	-.2269	-.6288		
.953			-.0843					
.955		-.1025						
.965	-.1415							
1.000			.0316		-.0419		-.4263	

ALPHA (5) = 11.985 BETA (1) = -3.890 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4867	-.5645	.2029	.6322	.6054	.5844	.5302	
.020	.1998	-.1458	.4095	.5757	.5643	.5578	.5023	-.3944
.040		-.0339	.4819					
.050	-.0212			.4725	.4596	.4543	.4145	
.069								-.2351
.080				.4035				
.081			.4066					
.096		.2724						
.094	.0708							
.150				.3311	.3352	.3282	.2435	
.157								-.1905
.163		.4146						
.177			.3199					
.229	.2015							
.246		.2953						
.250				.2637	.2570	.2404	.1538	
.274			.2688					
.345								-.1404
.390		.2528						
.400				.1769	.1735		.0613	
.402			.2086					
.503								-.2167
.550				.0470	.0244			
.565			-.6142					
.600							-.1691	
.637		.0480						
.650						-.1409		
.670								-.3900
.700					-.2137			
.725				-.1893				
.750						-.3055	-.3403	
.770			-.2459					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (5) = 11.985 BETA ( ) = -3.890

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3256	-.3544			
.798		-.2040						
.808			-.3658					
.834	-.2137							
.839		-.4195						
.850				-.5046	-.6085	-.5258		
.857			-.4425					
.962								-.5129
.865	-.3746							
.879		-.4351						
.900	- 3201			-.6169			-.5609	
.905			-.5423					
.919		-.4531						
.950				-.4999	-.5659	-.6329		
.953			-.2676					
.955		-.2197						
.979	-.2.41							
1.000			-.0180		-.2955		-.5072	

ALPHA (5) = 11.993 BETA (2) = .152 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775	- 5089	-.4192	-.3198	.5412	.5800	.4736	.4123	
.798	.621	- 3167	.2967	.5211	.5139	.4874	.4247	-.5468
.808		-.1193	.4059					
.834	-.1367			.4433	.4362	.4087	.3671	
.839								-.3696
.850				.3808				
.857			.3734					
.962		.1642						
.865	.1038							
.879				.3013	.3151	.2987	.1943	
.900								-.2498
.905		.3684						
.919			.3383					
.950	.1533							
.953		.3162						
.955				.3497	.3293	.2046	.1101	
.979								
1.000			.1136					-.2181

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (5) = 11.993 BETA (2) = .152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1626	.1494		.0173	
.402			.1979					
.503								-.2944
.553				.0280	-.0024			
.565			-.6173					
.600							-.2168	
.637		.0379						
.650						-.1750		
.670								-.4416
.700					-.2330			
.725				-.2024				
.750						-.3396	-.3865	
.760			-.2434					
.775				-.3382	-.3811			
.798		-.2141						
.809			-.3777					
.834	-.2128							
.850		-.4050						
.850				-.5255	-.6381	-.5288		
.857			-.4268					
.862								-.5762
.865	-.3618							
.873		-.4375						
.900	-.3319			-.6323			-.6084	
.905			-.5225					
.919		-.4709						
.950				-.5484	-.5747	-.6726		
.953			-.2463					
.955		-.2246						
.965	-.1937							
1.000			-.0491		-.2572		-.5415	

ALPHA (5) = 11.982 BETA (3) = 4.222 MACH = .89830 Q = 599.10 P = 1060.7 PN/L = 3.5735

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8038	-.3985	-.2312	.4353	.4265	.3477	.2994	
.020	.0730	-.3208	.0847	.4611	.4373	.4162	.3427	-.6860
.040		-.2287	.3101					
.050	-.2263			.4081	.3959	.3643	.3089	
.069								-.4897
.080				.3519				

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L04)

ALPHA (5) = 11.982 BETA (3) = 4.222

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3252					
.085		.0991						
.094	-.0825							
.150				.2876	.2904	.2724	.1623	
.157								-.3008
.163		.3113						
.177			.2842					
.229	.0975							
.245		.2327						
.250				.2178	.2094	.1872	.0801	
.274			.2333					
.345								-.2977
.390		.2212						
.400				.1414	.1309		-.0125	
.402			.1738					
.503								-.3461
.559				.0190	-.0137			
.586			-.6355					
.600							-.2420	
.637		.0269						
.650						-.1831		
.672								-.4827
.701					-.2331			
.726				-.2149				
.750						-.3440	-.3913	
.760			-.2624					
.775				-.3505	-.3780			
.794		-.2220						
.818			-.3605					
.844	-.2002							
.862		-.4017						
.875				-.5146	-.6612	-.5236		
.894			-.4182					
.901	-.3709							-.6490
.914		-.4579						
.931	-.3782			-.6224			-.6351	
.944			-.543					
.956		-.4944						
.963				-.6272	-.5763	-.6859		
.975			-.3584					
.981		-.3478						
.987	-.6342							
1.000			-.[illegible]		-.2427		-.5752	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -3.996 BETA (1) = -7.893 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2896	-.6493	-1.0624	-2.1236	-2.0074	-1.7163	-1.6427	
.020	-.0488	-.5711	-1.1556	-1.9758	-1.9643	-1.4030	-1.6305	-1.0140
.040		-.5299	-.9704					
.050	-.2412			-.9504	-1.0578	-1.1614	-1.1321	
.069								-.8755
.080				-.7113				
.091			-.6230					
.095		-.3335						
.094	-.2186							
.150				-.4469	-.4830	-.5631	-.5374	
.157								-.3316
.163		-.3724						
.177			-.3863					
.229	-.1762							
.246		-.3692						
.250				-.3084	-.3424	-.3761	-.3727	
.274			-.2726					
.345								-.3772
.390		-.2350						
.400				-.2196	-.2296		-.2700	
.402			-.1888					
.503								-.3619
.550				-.2265	-.2308			
.565			-.2194					
.600							-.2715	
.637		-.2095						
.650						-.2457		
.670								-.3649
.700					-.2445			
.725				-.2224				
.750						-.3318	-.3215	
.760			-.2271					
.775				-.3556	-.2580			
.799		-.1971						
.808			-.3393					
.824	-.1812							
.834		-.2855						
.850				-.2490	-.2563	-.2181		

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (1) = -3.935 BETA (1) = -7.893

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.957			-.2293					
.882								
.855	-.2758							-.2402
.870		-.2025						
.905	-.1505				-.1741		-.1508	
.915			-.1623					
.918		-.1350						
.950					-.0634	-.1702	-.0459	
.953			-.0537					
.955		-.0574						
.985	-.0370							
1.000			.0481		-.0410		.0284	

ALPHA (1) = -3.881 BETA (2) = -3.877 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.957								
.882								
.855								
.870								
.905								
.915								
.918								
.950								
.953								
.955								
.985								
1.000								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (1) = -3.981 BETA (2) = -3.677

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2072						
.650						-.2416		
.670								-.3342
.700					-.2423			
.725				-.2235				
.750						-.3345	- 3131	
.760			-.2285					
.775				-.3699	-.2607			
.798		-.1958						
.808			-.3395					
.834	-.1794							
.849		-.2894						
.860				-.2535	-.2462	-.2260		
.867			-.2343					
.882								-.2468
.905	-.2803							
.879		-.2117						
.900	-.1640			-.1715			-.1509	
.905			-.1683					
.919		-.1442						
.950				-.0604	-.1627	-.0469		
.953			-.0597					
.955		-.0666						
.965	-.0723							
1.000			.0529		-.0125		.0354	

ALPHA (1) = -3.973 BETA (3) = .156 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0339	-.2264	-.5541	-1.7696	-1.9451	-2.1992	-1.9951	
.030	.0394	-.2032	-.6267	-1.3593	-1.5527	-1.6083	-1.8414	-.7974
.040		-.1734	-.5819					
.050	-.0966			-.7771	-.8758	-.9603	-1.0066	
.069								-.6176
.080				-.5843				
.099			-.4458					
.0[illegible]		-.1291						
.099	-.0065							
.150				-.3726	-.4097	-.4444	-.4464	
.199								-.2786
.163		-.1919						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (1) = -3.973 BETA (3) = .156

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.2998					
.229	-.0732							
.246		-.2673						
.250				-.2574	-.3082	-.3302	-.3270	
.274			-.2314					
.345								-.3065
.370		-.1955						
.403				-.2002	-.2130		-.2339	
.418			-.1731					
.445								-.2967
.500				-.2157	-.2265			
.521			-.1847					
.595							-.2596	
.620		-.2031						
.670						-.2402		
.721								-.3096
.745					- 2454			
.770				-.2248				
.795						-.3242	-.3070	
.820			-.2312					
.845				-.3783	-.4825			
.870		-.1973						
.895			-.3338					
.920	-.4643							
.945		-.2662						
.970				-.2870	-.3481	-.3825		
.995			-.2400					
1.020								-.2453
1.045	-.6845							
1.070		-.2160						
1.095	-.1734			- 1757			- 1431	
1.120								
1.145		-.1516						
1.170				-.0845	-.1048	-.0458		
1.195			-.0681					
1.220		- 0811						
1.245	- 1035							
1.270								
1.295								
1.320								
1.345								
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1.395								
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9.870								
9.895								
9.920								
9.945								
9.970								
9.995								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (A) = -3.981 BETA (B) = 4.231 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION : LEFT WING BOT SURF DEPENDENT VARIABLE CP

RY/RW	.2090	.3040	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0393	-.0884	-.3558	-1.4200	-1.6073	-1.9962	-1.8465	
.020	.0563	-.0836	-.4159	-1.1213	-1.2165	-1.3578	-1.6721	-.6158
.040		-.0669	-.4248					
.050	-.0504			-.6459	-.7418	-.8190	-.8524	
.069								-.4616
.080				-.4994				
.081			-.3485					
.085		-.0529						
.094	-.0615							
.150				-.3176	-.3542	-.3810	-.3927	
.157								-.2382
.163		-.1217						
.177			-.2609					
.229	-.0403							
.246		-.2146						
.250				-.2381	-.2689	-.2891	-.2930	
.274			-.2073					
.345								-.2487
.390		-.1726						
.400				-.1846	-.1884		-.2101	
.402			-.1605					
.503								-.2478
.550				-.2003	-.2062			
.565			-.1960					
.600							-.2296	
.637		-.1902						
.690						-.2228		
.730								-.2531
.780					-.2310			
.795				-.2156				
.750						-.2989	-.2819	
.790			-.2360					
.775				-.3699	-.2409			
.790		-.1897						
.808			-.3220					
.834	-.1924							
.850		-.2824						
.860				-.2387	-.2193	-.2089		
.867			-.2329					
.882								-.1834
.895	-.2779							
.879		-.2113						
.900	-.1855			-.1609			-.1191	
.905			-.1653					
.919		-.1531						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (1) = -3.981 BETA (4) = 4.231

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.350				-.0459	-.1209	-.0362		
.953			-.0608					
.965		-.0803						
.965	-.1180							
1.000			.0474		.0313		.0625	

ALPHA (1) = -3.995 BETA (5) = 8.308 MACH = .59580 Q = 593.15 P = 2397.3 RNYL = 4.8119

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0124	.0160	-.1319	-1.0415	-1.3086	-1.6218	-1.5969	
.020	.0049	.0152	-.1801	-.8767	-.9485	-1.1144	-1.4115	-.4930
.040		.0387	-.2565					
.060	-.00			-.5648	-.6139	-.7210	-.7417	
.080								.3666
.100				-.4054				
.150			-.2500					
.250		.0224						
.350	-.0879							
.450				-.2734	-.3139	-.3340	-.3556	
.550								
.650		-.0478						-.2230
.750			-.2077					
.850	-.0105							
.900		-.1598						
.950				-.2054	-.2459	-.2815	-.2639	
.975			-.239					
.990								-.2018
.995		-.1461						
1.000				-.1672	-.1799		-.1314	
1.005			-.1435					
1.010								-.2052
1.015				-.1935	-.1982			
1.020			-.2317					
1.030							-.2194	
1.040		-.1791						
1.050						-.2133		
1.060								-.2100
1.070					-.2810			
1.080								
1.090						-.2813	-.2666	
1.100			-.2					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (1) = -3.995 BETA (5) = 8.308

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775								
.798					-.3748	-.2397		
.808		-.1919						
.834	-.1899			-.3015				
.839		-.2793						
.850								
.857					-.2317	-.2097	-.2101	
.862				-.2254				
.865	-.2768							-.1226
.879		-.2159						
.900	-.1884							
.905					-.1559			
.919			-.1613				-.1115	
.950		-.1607						
.953					-.0436	-.0967	-.0322	
.955			-.0604					
.965	-.1195	-.0898						
1.000			.0470		.0504		.0718	

ALPHA (2) = -.001 BETA (1) = -7.930 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0057	-.0375	-.1619	-.9426	-.9604	-.9525	-.7805	
.020	.0669	-.0734	-.2932	-.8724	-.7604	-.8056	-.8127	-.2320
.040		-.0594	-.3820					
.050	-.0467							
.069				-.5131	-.5130	-.5387	-.5235	
.080								
.081				-.3907				-.2113
.086			-.2908					
.094	-.0597	-.0394						
.150								
.157				-.2320	-.2400	-.2354	-.2477	
.163		-.1182						-.1787
.177			-.2013					
.229	-.0506							
.246		-.1866						
.250								
.274				-.1605	-.1868	-.1949	-.1973	
.345			-.1455					
.390		-.1244						-.1860

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE9L05)

ALPHA (2) = -.001 BETA (1) = -7.930

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1256	-.1360		-.1570	
.402			-.0982					
.503								-.2169
.550				-.1682	-.1728			
.565			-.2630					
.600							-.2195	
.637		-.1632						
.650						-.2058		
.670								-.2506
.700					-.2129			
.725				-.1959				
.750						-.3138	-.2795	
.760			-.1981					
.775				-.3424	-.2441			
.788		-.1764						
.809			-.3212					
.834	-.1605							
.839		-.2718						
.850				-.2417	-.2424	-.2181		
.857			-.2160					
.882								-.1628
.885	-.2695							
.875		-.1921						
.900	-.1347			-.1632			-.1382	
.905			-.1542					
.919		-.1245						
.950				-.0531	-.1435	-.0407		
.953			-.0442					
.955		-.0474						
.955	-.0380							
1.000			.0697		-.0224		.0632	

ALPHA (2) = .009 BETA (2) = -3.896 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.9092

SECTION (1)LEFT WING BOT SUPF DEPENDENT VARIABLE CP

2Y/BW	2990	3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	[illegible]67	.0408	-.0277	-.7425	-.8068	-.7692	-.6661	
.020	.0806	.0059	-.1268	-.6851	-.6372	-.6921	-.7360	-.2056
.040		.0187	-.2493					
.060	-.0125			-.4172	-.4398	-.4761	-.4670	
.089								-.1830
.090				-.3285				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (2) = .008 BETA (2) = -3.896

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2302					
.086		.0235						
.094	-.0292							
.150				-.2000	-.2137	-.2126	-.2427	
.157								-.1637
.163		-.0573						
.177			-.1733					
.229	-.0162							
.245		-.1532						
.250				-.1383	-.1773	-.1863	-.1904	
.274			-.1268					
.345								-.1802
.390		-.1098						
.400				-.1185	- 1263		-.1517	
.402			-.0371					
.503								-.2011
.550				-.1679	-.1724			
.565			-.2360					
.600							-.2196	
.637		-.1638						
.650						-.2073		
.670								-.2360
.700					-.2154			
.725				-.2016				
.740						-.3121	-.2812	
.760			-.2076					
.775				-.3473	-.2408			
.798		-.1751						
.808			-.3238					
.834	-.1661							
.849		-.2745						
.850				-.2456	-.2420	-.2201		
.857			-.2278					
.862								-.1447
.865	-.2719							
.879		-.2038						
.900	-.1497			-.1674			-.1377	
.905			-.1656					
.919		-.1381						
.950				-.0527	-.1485	-.0409		
.953			-.0564					
.955		-.0609						
.965	-.0718							
1.000			.0639		.0054		.0713	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (2) = .009 BETA (3) = .144 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0099	.0638	.0799	-.5414	-.6584	-.6488	-.5813	
.020	.0785	.0542	-.0087	-.5303	-.5234	-.5746	-.6498	-.1942
.040		.0689	-.1463					
.050	-.0007			-.3271	-.3812	-.4083	-.4389	
.059								-.1728
.080				-.2732				
.091			-.1696					
.096		0698						
.09-	-.0160							
.150				-.1713	-.1877	-.1963	-.2295	
.157								-.1692
.162		-.0022						
.177			-.1393					
.223	.0044							
.246		-.1154						
.250				-.1289	-.1599	-.1759	-.1841	
.274			-.1104					
.345								-.1725
.396		-.0949						
.400				-.1193	-.1193		-.1538	
.402			-.0887					
.503								-.1954
.550				-.1617	-.1705			
.503			-.2173					
.600							-.2185	
.637		-.1590						
.650						-.2021		
.670								-.2229
.700						-.2167		
.721				-.2021				
.751						-.3063	-.2779	
.760			-.2159					
.775				-.3586	-.2391			
.788		-.1766						
.800			-.3238					
.814	-.1705							
.839		-.2756						
.850				-.2475	-.2369	-.2283		
.873			-.2315					
.892								-.1221
.911	-.2691							
.917		-.3033						
.930	-.1577			-.1694			-.1307	
.936			-.1727					
.970		-.1259						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (2) = .009 BETA (3) = .144

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0526	-.1370	-.0380		
.953			-.0680					
.955		-.0772						
.965	-.1045							
1.000			.0558		.0308		.0758	

ALPHA (2) = .009 BETA (4) = 4.214 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.0204	.0516	.1530	-.3645	-.4612	-.4675	-.4046	
.020	.0713	.0593	.0865	-.3862	-.3840	-.4397	-.4788	-.1656
.040		.0791	-.0501					
.060	-.0098			-.2480	-.2900	-.3327	-.3330	
.080								-.1740
.080				-.2113				
.081			-.1059					
.085		.0914						
.090	-.0099							
.150				-.1409	-.1533	-.1691	-.2027	
.157								-.1656
.163		.0353						
.177			-.1052					
.229	.0093							
.246		-.0959						
.250				-.1147	-.1400	-.1580	-.1738	
.274			-.0932					
.345								-.1551
.390		-.0743						
.400				-.1094	-.1192		-.1511	
.402			-.0823					
.503								-.1896
.560				-.1581	-.1649			
.565			-.2459					
.600							-.2124	
.627		-.1439						
.650						-.2007		
.670								-.2116
.700					-.2158			
.725				-.2012				
.750						-.2927	-.2719	
.770			-.2179					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (2) = .008 BETA (4) = 4.214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3666	-.2366			
.798		-.1796						
.808			-.3090					
.834	-.1728							
.839		-.2690						
.850				-.2404	-.2216	-.2204		
.857			-.2261					
.862							-.1080	
.865	-.2610							
.879		-.2083						
.900	-.1778			-.1687		-.1280		
.905			-.1676					
.919		-.1507						
.960				-.0534	-.1146	-.0466		
.953			-.0631					
.965		-.0831						
.986	-.1147							
1.000			.0603		.0431		.0823	

ALPHA (2) = .003 BETA (5) = 8.269 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1088	-.0283	.1927	-.1748	-.3031	-.3115	-.2769	
.020	.0416	.0168	.1059	-.2266	-.2534	-.3179	-.3515	-.1631
.040		.0491	.0259					
.060	-.0377			-.1565	-.2163	-.2562	-.2864	
.080								-.1841
.090				-.1474				
.100			-.0499					
.110		.0689						
.134	-.0258							
.150				-.1091	-.1207	-.1368	-.1759	
.160								-.1672
.163		.0658						
.177			-.0709					
.229	-.0022							
.246		-.0633						
.250				-.0978	-.1129	-.1371	-.1552	
.274			-.0748					
.345								-.1648
.390		-.0833						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (2) = .003 BETA (5) = 8.269

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1019	-.1057		-.1405	
.402			-.0770					
.503								-.1834
.550				-.1464	-.1528			
.565			-.2833					
.600							-.2021	
.637		-.1407						
.650						-.1951		
.670								-.1998
.700					-.2109			
.725				-.1942				
.750						-.2815	-.2608	
.760			-.2172					
.775				-.3507	-.2262			
.788		-.1757						
.8[illegible]			-.2920					
.864	-.1813							
.839		-.2626						
.850				-.2238	-.2097	-.2146		
.957			-.2273					
.852								-.0891
.865	-.2646							
.879		-.2180						
.900	-.1851			-.1589			-.1186	
.905			-.1670					
.919		-.1636						
.950				-.0479	-.0859	-.0370		
.953			-.0719					
.955		-.0928						
.965	-.1214							
1.000			.0488		.0650		.0874	

ALPHA (3) = 3.907 BETA (1) = -7.936 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0823	.1511	.3245	-.0162	-.0097	.1329	.1827	
.020	.1148	.1521	.2275	-.1127	-.0265	-.0139	.0360	.0196
.040		.1631	.0365					
.050	.0702			-.1028	-.0723	-.0440	-.0279	
.060								-.0119
.080				-.0666				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (3) = 3.907 BETA (1) = -7.936

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0240					
.086		.1609						
.094	.0512							
.150				-.0290	-.0214	-.0033	-.0358	
.157								-.1092
.163		.0898						
.177			-.0216					
.229	.0541							
.246		-.0237						
.250				-.0125	-.0268	-.0358	-.0471	
.274			-.0182					
.345								-.0890
.390		-.0127						
.400				-.0333	-.0304		-.0572	
.402			-.0091					
.503								-.1481
.561				-.1031	-.1046			
.565			-.3046					
.600							-.1745	
.627		-.1055						
.650						-.1647		
.671								-.2126
.702					-.1848			
.725				-.1606				
.750						-.2800	-.2440	
.760			-.1769					
.775				-.3075	-.2114			
.790		-.1427						
.814			-.2933					
.825	-.1405							
.837		-.2495						
.850				-.2273	-.2297	-.2188		
.857			-.2022					
.862								-.1744
.865	-.2430							
.878		-.1821						
.900	-.1193			-.1618			-.1538	
.905			-.1528					
.919		-.1223						
.950				-.0448	-.1196	-.0575		
.953			-.0433					
.955		-.0430						
.965	-.0258							
1.000			.0859		.0230		.0379	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (3) = 3.912 BETA (2) = -3.897 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0251	.0798	.3350	.0851	.0543	.1989	.2249	
.020	.0974	.1224	.2738	-.0305	.0288	.0436	.0769	-.0625
.040		.1508	.1027					
.050	.0475			-.0334	-.0259	-.0184	.0009	
.059								-.0756
.080				-.0375				
.081			.0198					
.086		.1720						
.094	.0451							
.150				-.0143	-.0055	-.0025	-.0439	
.157								-.1248
.163		.1236						
.177			-.0019					
.229	.0622							
.245		-.0011						
.250				-.0056	-.0254	-.0411	-.0550	
.274			-.0004					
.345								-.1169
.390		.0037						
.400				-.0321	-.0368		-.0768	
.402			-.0074					
.503								-.1732
.550				-.1074	-.1155			
.565			-.2591					
.600							-.1880	
.637		-.0981						
.650						-.1755		
.670								-.2328
.700					-.1919			
.725				-.1723				
.750						-.2919	-.2580	
.760			-.1784					
.775				-.3284	-.2210			
.798		-.1548						
.808			-.2380					
.814	-.1401							
.838		-.2521						
.850				-.2382	-.2409	-.2330		
.870			-.2117					
.900								-.1829
.906	-.2434							
.914		-.1932						
.920	-.1732			-.1689			-.1651	
.940			-.1566					
.959		-.1338						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (3) = 3.912 BETA (2) = -3.897

SECTION	LEFT WING BOT SURF			DEPENDENT VARIABLE CP				
2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0516	-.1357	-.0635		
.953			-.0520					
.955		-.0604						
.958	-.0665							
1.000			.0771		.0331		.0415	

ALPHA (3 = 3.909 BETA (3) = .143 MACH = .5900 Q = 591.74 P = 2367.9 RN/L = 4.8063

SECTION	LEFT WING BOT SURF			DEPENDENT VARIABLE CP				
2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950								
.953								
.955								
.958								
1.000								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (3 = 3.909 BETA (3) = .143

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				-.3339	-.2183			
.798		-.1585						
.818			-.2359					
.834	-.1574							
.833		-.2581						
.850				-.2323	-.2329	-.2377		
.857			-.2226					
.860							-.1782	
.865	-.2511							
.879		-.2019						
.900	-.1551			-.1697		-.1639		
.905			-.1716					
.919		-.1494						
.940				-.0532	-.1286	-.0690		
.953			-.0652					
.955		-.0767						
.965	-.0987							
1.000			.0656		.0504		.0430	

ALPHA (3) = 3.918 BETA (4) = 4.207 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.2096	-.2152	.2275	.2165	.1665	.2345	.2352	
.020	.0165	-.0632	.2577	.1100	.1086	.1245	.1214	-.2866
.040		-.0073	.1694					
.050	-.0455			.0649	.0259	.0421	.0308	
.069								-.2471
.080				.0316				
.101			.0729					
.085		.1199						
.104	-.0195							
.130				.0152	.0185	.0095	-.0354	
.157								-.1916
.175		.1414						
.177			.0245					
.229	.0331							
.245		.0212						
.274				-.0074	-.0136	-.0249	-.0624	
.274			.0035					
.345								-.1940
.350		.0103						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (3) = 3.918 BETA (4) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0357	-.0385		-.0894	
.402			-.0123					
.603								-.2269
.550				-.1009	-.1075			
.565			-.2563					
.600							-.1926	
.637		-.0978						
.650						-.1738		
.670								-.2563
.700					-.1685			
.725				-.1780				
.750						-.2830	-.2649	
.775			-.2004					
.800				-.3396	-.2129			
.825		-.1528						
.850			-.2237					
.875	-.1034							
.900		-.0536						
.905				-.2257	-.2164	-.2300		
.910			-.2193					
.915								-.1880
.920	-.2468							
.875		-.1979						
.940	-.1870			-.1643			-.1634	
.905			-.1688					
.919		-.1570						
.950				-.0613	-.1034	-.0659		
.952			-.0714					
.955		-.0894						
.958	-.1093							
1.000			.0507		.0611		.0507	

ALPHA = 3.922 BETA (5) = 8.252 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8083

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3778	-.3455	.1066	.2516	.1894	.2333	.2089	
.020	-.0340	-.1607	.1901	.1639	.1462	.1382	.1219	-.4387
.040		-.1190	.1747					
.060	-.1136			.0959	.0738	.0531	.0403	
.080								-.3577
.100				.0791				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE9L05)

ALPHA (α) = 3.922 BETA (β) = 8.252

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

X/C	.2410	.3040	.4270	.5340	.6730	.7800	.8870	.9720
.081			.0977					
.086		.0679						
.094	-.0698							
.150				.0219	.0258	.0166	-.0463	
.157								-.2523
.163		.1399						
.177			.0442					
.239	.0113							
.245		.0262						
.250				.0063	-.0108	-.0298	-.0756	
.274			.0196					
.345								-.2413
.390		.0156						
.400				-.0286	-.0385		-.1058	
.402			-.0086					
.503								-.2711
.550				-.1051	-.1120			
.565			-.3057					
.600							-.2035	
.637		-.0906						
.650						-.1802		
.670								-.2806
.700					-.1933			
.725				-.1795				
.750						-.2740	-.2714	
.760			-.2003					
.775				-.3230	-.2105			
.798		-.1677						
.808			-.2599					
.834	-.1605							
.849		-.2470						
.860				-.2232	-.2064	-.2278		
.857			-.2102					
.862								-.1929
.865	-.2367							
.879		-.1954						
.900	-.1674			-.1624			-.1580	
.905			-.1661					
.919		-.1529						
.950				-.0614	-.0812	-.0644		
.953			-.0706					
.955		-.0893						
.965	-.1102							
1.000			.0594		.0678		.0521	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBLC5)

ALPHA (4) = 7.956 BETA (1) = -7.918 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8D12

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0163	-.0666	.4059	.4854	.4918	.5704	.5431	
.020	.1010	.1099	.4373	.3517	.4143	.4406	.4543	-.2345
.040		.1634	.3251					
.050	.1041			.2428	.2733	.3041	.3167	
.060								-.1256
.080				.1963				
.081			.2105					
.085		.2653						
.094	.1107							
.100				.1592	.1742	.1857	.1494	
.107								-.1326
.103		.2561						
.114			.1434					
.120	.1429							
.240		.1311						
.250				.1246	.1209	.1138	.0829	
.274			.1121					
.345								-.0863
.350		.94						
.440				.0657	.0669		.0187	
.468			.0918					
.500								-.1596
.550				-.0878	-.0306			
.565			-.2108					
.60							-.1360	
.637		- 0369						
.650						- 1158		
.67								-.2247
.700					-.1376			
.739				- 1 99				
.750						-.2367	-.2127	
.761			-.1438					
.795				- 8720	-.1735			
.798		-.1098						
.808			-.2467					
.824	- 1137							
.838		-.2167						
.850				-.1377	-.2098	-.2097		
.857			-.1786					
.862								-.2310
.876	- 0165							
.879		-.1933						
.900	- 0914			- 1459			-.1831	
.901			-.1340					
.9[illegible]		- .095						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (4) = 7.956 BETA (1) = -7.918

SECTION ( )LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0461	-.0941	-.0758		
.953			-.0379					
.955		-.0352						
.965	-.0186							
1.000			.0933		.0473		-.0407	

ALPHA (4) = 7.965 BETA (2) = -3.894 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( )LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1744	-.2849	.2880	.4773	.4682	.5053	.4729	
.020	.0430	-.0403	.3800	.3652	.4010	.4211	.4121	-.4321
.040		.0425	.3234					
.050	.0359			.2541	.2797	.2939	.2898	
.069								-.2677
.080				.1989				
.091			.2162					
.096		.2158						
.094	.0623							
.150				.1571	.1784	.1777	.1258	
.157								
.163		.2546						-.1826
.177			.1419					
.189	.1149							
.196		.1306						
.210				.1148	.1132	.1051	.0618	
.224			.1100					
.245								-.1547
.343		.1001						
.400				.0551	.0603		.0018	
.402			.0761					
.563								-.2162
.569				-.0349	-.0445			
.585			-.3000					
.600							-.1550	
.637		-.0410						
.650						-.1311		
.670								-.2519
.700					-.1495			
.725				-.1302				
.750						-.2455	-.2314	
.760			-.1579					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (4) = 7.965 BETA (2) = -3.894

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2815	-.1801			
.798		-.1199						
.809			-.2567					
.834	-.1225							
.839		-.2295						
.850				-.2114	-.2070	-.2210		
.857			-.1966					
.862								-.2563
.865	-.2186							
.879		-.1740						
.900	-.1167			-.1580			-.1894	
.915			-.1523					
.919		-.1246						
.950				-.0585	-.1049	-.0806		
.963			-.0575					
.965		-.0555						
.968	-.0670							
1.000			.0686		.0625		-.0337	

ALPHA (4) = 7.970 BETA (3) = .145 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3725	-.5578	.1250	.4522	.4292	.4296	.3891	
.020	-.0232	-.2041	.2852	.3719	.3817	.3896	.3588	-.6326
.040		-.1053	.2983					
.050	-.0577			.2712	.2712	.2794	.2625	
.060								-.4231
.080				.2115				
.081			.2162					
.086		.1525						
.094	.0034							
.150				.1585	.1744	.1727	.1019	
.159								-.2249
.163		.2386						
.177			.1446					
.229	.0226							
.246		.1260						
.250				.1090	.1076	.0950	.0434	
.274			.1098					
.345								-.2347
.390		.1032						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (4) = 7.970 BETA (3) = .145

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0488	.0559		-.0223	
.402			.0722					
.503								-.2677
.550				-.0354	-.0439			
.565			-.2651					
.600							-.1659	
.637		-.0405						
.650						-.1318		
.670								-.2864
.700					-.1471			
.725				-.1378				
.750						-.2457	-.2367	
.760			-.1707					
.775				-.2822	-.1715			
.798		-.1210						
.808			-.2446					
.834	-.1329							
.839		-.2259						
.850				-.2042	-.1898	-.2194		
.857			-.1986					
.862								-.2710
.865	-.2176							
.873		-.1802						
.900	-.1322			-.1523			-.1873	
.905			-.1586					
.919		-.1355						
.940				-.0563	-.0883	-.0786		
.953			-.0643					
.965		-.0698						
.985	-.0798							
1.000			.0638		.0644		-.0110	

ALPHA (4) = 7.969 BETA (4) = 4.201 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5653	-.6930	-.0686	.3855	.3698	.3338	.2774	
.020	-.0859	-.3524	.1574	.3425	.3479	.3461	.3004	-.9077
.040		-.2364	.2511					
.050	-.1520			.2572	.2694	.2596	.2350	
.059								-.6146
.080				.2024				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (4) = 7.969 BETA (4) = 4.201

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.031			.1996					
.086		.0686						
.094	-.0655							
.150				.1468	.1612	.1586	.0763	
.157								-.3119
.163		.2122						
.177			.1413					
.229	.0403							
.246		.1109						
.250				.1017	.0960	.0833	.0180	
.274			.1092					
.345								-.3073
.398		.0878						
.400				.0450	.0404		-.0454	
.4[illegible]			.0671					
.503								-.3385
.560				-.0437	-.0542			
.565			-.2751					
.600							-.1806	
.637		-.0375						
.650						-.1485		
670								-.3226
.700						-.1609		
.725				-.1499				
.750						-.2531	-.2524	
.760			-.1709					
775				-.1808	-.1638			
.798		-.1318						
.800			-.2340					
.85[illegible]	-.1419							
888		-.2292						
.850				-.2062	-.1963	-.2294		
887			-.1970					
.862								-.2859
.865	-.2142							
.87[illegible]		-.1808						
900	-.1417			-.1608			-.1951	
.905			-.1612					
.910		-.1422						
.950				-.0620	-.0857	-.0912		
9[illegible]			-.0713					
[illegible]		-.0934						
955	-.0935							
1.000			.0598		.0198		-.0132	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (+) = 7.967 BETA ( ) = 8.254 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.3880	.3940	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7543	-.6485	-.2795	.2910	.2785	.1989	.1446	
.020	-.1641	-.4437	-.0077	.2968	.2905	.2706	.2095	-1.1445
.040		-.3474	.1823					
.050	-.2728			.2403	.2391	.2199	.1820	
.060								-.7996
.080				.1855				
.081			.1746					
.086		-.0138						
.094	-.1534							
.150				.1342	.1400	.1350	.0360	
.157								-.3939
.163		.1696						
.177			.1335					
.209	-.0028							
.246		.0881						
.250				.0839	.0802	.0644	-.0150	
.274			.0935					
.345								-.3914
.390		.0850						
.400				.0306	.0232		-.0767	
.402			.0515					
.511								-.3909
.550				-.0592	-.0644			
.566			-.3354					
.600							-.1980	
.637		-.0453						
.650						-.1618		
.670								-.3611
.700						-.1760		
.725				-.1676				
.750						-.2778	-.2694	
.760			-.1929					
.775				-.2910	-.2013			
.793		-.1460						
.808			-.2317					
.814	-.1558							
.833		-.2354						
.850				-.2144	-.2208	-.2411		
.857			-.2041					
.882								-.2894
.895	-.2178							
.879		-.1918						
.900	-.1592			-.1746			-.2019	
.905			-.1720					
.919		-.1566						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (4) = 7.957 BETA (5) = 8.254

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2490	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.050				-.0864	-.0868	-.0999		
.953			-.0844					
.955		-.0991						
.965	-.1134							
1.000			.0529		.0344		.0068	

ALPHA (5) = 12.002 BETA (1) = 7.881 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3183	-.6812	.1171	.6022	.6028	.5216	.4552	
.020	.0190	.1726	.3813	.5729	.5924	.5901	.5358	-.7805
.040		.044	.4595					
.050	.0681			.4812	.4968	.5025	.4819	
.060								-.4158
.080				.1986				
.08			.3780					
.0		.2707						
.0	.019							
.10				.3119	.3395	.3494	.2810	
.12								-.2003
.14		.4753						
.177			.2850					
.20	.1382							
.24		.2575						
.2				.2472	.2541	.2489	.1923	
.2			.2067					
.2								-.1255
.2		.2103						
.2				.820	.1688		.1024	
.2			.1767					
.3								-.1863
.3				.0335	.0516			
.3			-.3244					
.3							-.0854	
.3		.0376						
.6						-.0654		
.670								-.2218
.700					-.0918			
.725				-.0749				
.750						-.1861	.1703	
.780			-.1154					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (5) = 12.002 BETA (1) = -7.881

SECTION (1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1931	-.1007			
.798		-.0698						
.808			-.1791					
.834	-.0863							
.933		-.1728						
.950				-.1619	-.1615	-.1933		
.957			-.1498					
.968								-.2992
.985	-.1716							
.989		-.1305						
.992	-.0571			-.1381			-.2106	
.995			-.1261					
.919		-.0902						
.950				-.0585	-.0695	-.0936		
.953			-.0407					
.965		-.0392						
.995	-.0171							
1.000			.0654		.0034		-.1315	

ALPHA (5) = 12.020 BETA (2) = -3.874 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5405	-.8940	-.0991	.5088	.5056	.3844	.3146	
.020	-.0517	-.3351	.2388	.5260	.5399	.5162	.4445	-1.0168
.040		-.1919	.4025					
.050	-.0503			.4436	.4694	.4619	.4256	
.069								-.5993
.080				.3739				
.081			.3546					
.046		.1871						
.034	.0503							
.150				.2971	.3246	.3261	.2410	
.157								-.2704
.163		.3454						
.177			.2769					
.229	.1593							
.246		.2455						
.250				.2361	.2364	.2271	.1571	
.274			.2237					
.345								-.2074
.540		.2095						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (5) = 12.020 BETA (2) = -3.874

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1561	.1523		.0662	
.402			.1749					
.593								-.2591
.660				.0432	.0381			
.665			-.3010					
.810							-.1109	
.830		.0402						
.850						-.0831		
.870								-.2666
.905					-.1069			
.925				-.0920				
.940						-.2066	-.1937	
.955			-.1210					
.970				-.2167	-.1265			
.978		[illegible]						
.985			- 1793					
.994	-.0902							
.996		[illegible]						
1.001				-.1699	-.1835	-.2076		
1.014			-.1521					
1.030								-.3224
1.045	-.1710							
1.057		-.1408						
1.069	- 0715			-.1441			-.2144	
1.085			-.1331					
.919		1070						
97				- 0617	-.1045	-.1080		
.963			-.0493					
.976		-.0504						
.985	- 0451							
1.002			.0703		-.0040		-.1039	

ALPHA (5 = 12.008 BETA (3) = .15 MACH = .59502 Q = 591.85 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7086	-1.1414	-.3442	.3971	.3966	.2286	.1670	
.020	-.1435	-.5314	.0663	.4591	.4554	.4269	.3348	-1.2174
.040		-.3728	.3265					
.050	-.1691			4'37	.4380	.4081	.3547	
.059								-.7721
.080				.3482				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (S) = 12.028 BETA (B) = .150

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B=	.8990	.9540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.001			.3211					
.006		.0837						
.004	-.0354							
.150				.2781	.3015	.2960	.1972	
.157								-.3276
.163		.3029						
.177			.2593					
.209	.1094							
.246		.2187						
.250				.2149	.2132	.1994	.1210	
.274			.2126					
.295								-.2957
.300		.1916						
.400				.1385	.1342		.0304	
.422			.1558					
.504								-.3266
.503				.0320	.0163			
.545			-.2913					
.600							-.1407	
.637		.0251						
.650						-.1040		
.670								-.3089
.700					-.1352			
.725				-.1126				
.750						-.2371	-.2170	
.760			-.1456					
.775				-.2350	-.1644			
.799		-.0948						
.808			-.1929					
.834	-.1077							
.839		-.1873						
.850				-.1953	-.2405	-.2359		
.857			-.1758					
.882								-.3231
.885	-.1776							
.879		-.1518						
.900	-.1070			-.1674			-.2276	
.905			-.1562					
.919		-.1199						
.940				-.0796	-.1016	-.1334		
.943			-.0787					
.955		-.0678						
.965	-.0605							
1.000			.0303		.0052		-.0725	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (5) = 12.028 BETA (4) = 4.211 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION / 1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	-1.0179	-.9080	-.5612	.2514	.2542	.0351	-.0182	
.020	-.2241	-.6204	-.1303	.3730	.3585	.3169	.2103	-1.4299
.040		-.4744	.2307					
.060	-.2958			.3624	.3717	.3521	.2783	
.080								-.9124
.100				.3102				
.120			.2697					
.140		-.0116						
.160	-.1385							
.180				.2472	.2690	.2645	.1584	
.200								-.3661
.220		.2435						
.240			.2338					
.260	.0486							
.280		.1738						
.300				.1891	.1981	.1785	.0959	
.320			.1823					
.340								-.3560
.360		.1707						
.380				.1188	.1159		.0059	
.400			.1348					
.420								-.3788
.440				.0194	.0015			
.460			-.3009					
.480							-.1552	
.500		.0220						
.520						-.1212		
.540								-.3419
.560					-.1496			
.580				-.1209				
.600						-.2525	-.2301	
.620			-.1552					
.640				-.2365	-.1828			
.660		-.1086						
.680			-.2005					
.700	-.1182							
.720		-.2030						
.740				-.2006	-.2517	-.2338		
.760			-.1802					
.780								-.3161
.800	-.1873							
.820		-.1653						
.840	-.1284			-.1697			-.2356	
.860			-.1684					
.880		-.1410						
.900								
.920								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L05)

ALPHA (5) = 12.028 BETA (4) = 4.211

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0825	-.0657	-.1457		
.953			-.0841					
.955		-.0834						
.965	-.0849							
1.000			.0408		.0502		-.0702	

ALPHA (5) = 12.020 BETA (5) = 8.278 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-1.2622	-.7473	-.7951	.0882	.0871	-.1910	-.2111	
.020	-.3233	-.6702	-.3182	.2652	.2395	.1877	.0776	-1.4628
.040		-.5438	.1181					
.050	-.4459			.2956	.3077	.2758	.2035	
.069								-1.0291
.080				.2657				
.081			.2198					
.085		-.1044						
.094	-.2411							
.150				.2157	.2324	.2259	.1159	
.157								-.4261
.163		.1750						
.177			.2075					
.229	-.0075							
.246		.1413						
.253				.1658	.1651	.1498	.0545	
.274			.1680					
.345								-.4020
.390		.1564						
.400				.0991	.0963		-.0228	
.402			.1203					
.503								-.4201
.550				.0050	-.0101			
.555			-.3433					
.600							-.1730	
.647		.0123						
.650						-.1369		
.670								-.3582
.700					-.1665			
.748				-.1382				
.750						-.2650	-.2419	
.770			-.1692					

AMES 11-073(GA148) -140A/B/C/R ORB LEFT WING BOT (XEBL05)

ALPHA (5) = 12.020 BETA (5) = 8.278

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2340	-.1706			
.798		-.1217						
.808			-.1980					
.834	-.1333							
.839		-.2045						
.850				-.2030	-.2567	-.2458		
.857			-.1944					
.882								-.3109
.885	-.1905							
.893		-.1697						
.900	-.1357			-.1886			-.2383	
.905			-.1648					
.918		-.1461						
.950				-.1178	-.0981	-.1535		
.953			-.0918					
.955		-.0922						
.965	-.0998							
1.000			.0434		-.0028		-.0847	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06) (05 AUG 75)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1076.6800 IN. XO
LREF = [illegible] IN. YMRP = .0000 IN. YO
BREF = [illegible] IN. ZMRP = 375.0000 IN. ZO
SCALE = .0390

PARAMETRIC DATA

RUDDER =	.000	SPDBRK =	55.000
BDFLAP =	22.500	L-ELVN =	.000
R-ELVN =	.000	MACH =	.600

ALPHA (1) = -4.026 BETA (1) = -7.883 MACH = .59594 O = 593.39 P = 2387.0 RN/L = 4.8396

SECTION: (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2870	-.6639	-1.0883	-2.1265	-2.0441	-1.7333	-1.6355	
.030	-.0492	-.5707	-1.1534	-1.9841	-1.9594	-1.4101	-1.6217	-.9987
.040		-.5379	-.9889					
.050	-.2448			-.9492	-1.0553	-1.1553	-1.1362	
.069								-.8738
.080				-.7110				
.081			-.6296					
.085		-.3470						
.094	-.2285							
.150				-.4467	-.4893	-.5562	-.5282	
.157								-.3367
.163		-.3745						
.177			-.3871					
.229	-.1837							
.246		-.3762						
.250				-.3088	-.3378	-.3765	-.3733	
.274			-.2722					
.345								-.3803
.330		-.2388						
.400				-.2179	-.2262		-.2643	
.402			-.1881					
.503								-.3654
.540				-.2251	-.2310			
.545			-.2532					
.670							-.2751	
.657		-.2072						
.650						-.2415		
.670								-.3617
.700					-.2412			
.725				-.2145				
.750						-.3269	-.3175	
.750			-.2238					
.775				-.3479	-.2511			
.779		-.1656						
.809			-.3273					
.834	-.1749							
.839		-.2723						
.850				-.2428	-.2651	-.2175		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (1) = -4.026 BETA (1) = -7.883

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2190					
.862							-.2384	
.865	-.2575							
.879		-.1926						
.900	-.1391			-.1641		-.1464		
.905			-.1520					
.917		-.1176						
.950				-.0588	-.1670	-.0457		
.953			-.0451					
.974		-.0451						
.995	-.0227							
1.000			.0553		-.0344		.0289	

ALPHA (1) = -4.010 BETA (2) = -3.877 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.9203	-2.0286	-2.1113	-1.8301	-1.8172	
.862			-.8712	-1.7375	-1.9480	-1.4829	-1.6802	-.8868
.865			-.7982					
.879								-.7767
.900								
.905								
.917								
.950								
.953								
.974								
.995								
1.000								

AMES 11-07_(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (1) = -4.010 BETA (2) = -3.877

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2014						
.650						-.2410		
.670								-.3325
.700					-.2405			
.725				-.2210				
.750						-.3300	-.3134	
.760			-.2153					
.775				-.3676	-.2559			
.798		-.1872						
.808			-.3209					
.834	-.1696							
.839		-.2709						
.850				-.2433	-.2533	-.2244		
.857			-.2221					
.862								-.2392
.865	-.2606							
.879		-.1905						
.900	-.1355			-.1658			-.1491	
.905			-.1504					
.919		-.1200						
.950				-.0571	-.1449	-.0446		
.953			-.0497					
.955		-.0509						
.965	-.0462							
1.000			.0576		-.0089		.0361	

ALPHA (1) = -3.994 BETA (3) = .154 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1028	-.2259	-.5540	-1.7710	-1.9430	-2.2189	-1.9956	
.020	.0292	-.2041	-.6277	-1.3557	-1.5181	-1.6349	-1.8565	-.7853
.040		-.1826	-.5799					
.050	-.0999			-.7738	-.8685	-.9305	-1.0008	
.069								-.6087
.080				-.5780				
.091			-.4399					
.096		-.1289						
.094	-.0972							
.150				-.3677	-.4098	-.4368	-.4460	
.157								-.2792
.163		-.1945						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (1) = -3.994 BETA (3) = .154

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3018					
.223	-.0783							
.246		-.2692						
.250				-.2590	-.3017	-.3258	-.3214	
.274			-.2334					
.345								-.3056
.390		-.1974						
.400				-.1961	-.2069		-.2319	
.402			-.1727					
.503								-.2958
.550				-.2115	-.2190			
.565			-.2141					
.600							-.2512	
.637		-.1981						
.650						-.2355		
.670								-.3.26
700					-.2405			
725				-.2170				
.750						-.3173	-.3069	
.760			-.2278					
775				-.3687	-.2533			
.799		-.1882						
.808			-.3241					
.834	-.1756							
.479		- 2682						
420				-.2452	-.2504	-.2199		
557			-.2259					
562								-.2359
965	-.2641							
979		-.1973						
900	-.1514			-.1665			-.1384	
7?E			-.1604					
.010		-.1306						
7?.				-.0517	-.1273	-.0413		
.352			-.0586					
7?.5		-.0617						
7??	-.0735							
777			.0541		.0151		.0433	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (1) = -4.001 BETA (4) = 4.235 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0440	-.0916	-.3571	-1.4112	-1.5964	-1.9741	-1.8136	
.020	.0599	-.0796	-.4040	-1.1230	-1.1869	-1.3476	-1.6479	-.6064
.040		-.0620	-.4184					
.050	-.0520			-.6439	-.7357	-.8179	-.8470	
.069								-.4534
.080				-.4868				
.081			-.3444					
.086		-.0493						
.094	-.0524							
.150				-.3146	-.3545	-.3768	-.3980	
.157								-.2381
.163		-.1209						
.177			-.2557					
.229	-.0414							
.246		-.2144						
.250				-.2333	-.2743	-.2869	-.2915	
.274			-.2021					
.345								-.2465
.390		-.1709						
.400				-.1824	-.1884		-.2045	
.402			-.1521					
.503								-.2424
.550				-.1972	-.2002			
.565			-.2182					
.600							-.2316	
.637		-.1837						
.650						-.2223		
.670								-.2580
.700					-.2286			
.715				-.2192				
.750						-.3056	-.2829	
.760			-.2252					
.775				-.3623	-.2452			
.794		-.1828						
.808			-.2997					
.834	-.1793							
.839		-.2557						
.850				-.2275	-.2317	-.2153		
.857			-.2189					
.862								-.1752
.865	-.2620							
.879		-.1896						
.900	-.1632			-.1529			-.1258	
.905			-.1514					
.919		-.1281						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (1) = -4.001 BETA (4) = 4.235

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0456	-.1176	-.0320		
.953			-.0521					
.955		-.0630						
.985	-.0798							
1.000			.0524		.0310		.0605	

ALPHA (1) = -4.013 BETA (5) = 8.308 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0191	.0178	-.1338	-1.0542	-1.2761	-1.6148	-1.5384	
.020	.0685	.0163	-.1828	-.8564	-.9291	-1.1151	-1.3782	-.4735
.040		.0218	-.2521					
.060	-.0258			-.5004	-.6159	-.7063	-.7498	
.080								-.3553
.090				-.3950				
.091			-.2435					
.096		.0257						
.094	-.0226							
.150				-.2686	-.3099	-.3371	-.3647	
.157								-.2141
.193		-.0474						
.211			-.2031					
.229	-.0133							
.248		-.1628						
.251				-.2009	-.2381	-.2633	-.2621	
.271			-.1679					
.345								-.2050
.351		-.1482						
.371				-.1611	-.1725		-.1944	
.391			-.1375					
.411								-.2030
.431				-.1894	-.1983			
.451			-.2379					
.471							-.2174	
.491		-.1753						
.511						-.2122		
.531								-.2086
.551					-.2212			
.571				-.2100				
.591						-.2888	-.2631	
.611			-.2163					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (1) = -4.013 BETA (5) = 8.308

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3589	-.2361			
.798		-.1800						
.908			-.2827					
.834	-.1802							
.839		-.2562						
.850				-.2275	-.2190	-.2090		
.857			-.2165					
.862								-.1225
.865	-.2505							
.879		-.1944						
.900	-.1633			-.1491			-.1089	
.905			-.1509					
.919		-.1387						
.950				-.0417	-.0857	-.0291		
.953			-.0535					
.955		-.0706						
.965	-.0851							
1.000			.0536		.0520		.0723	

ALPHA (2) = .023 BETA (1) = -7.929 MACH = .39630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0035	-.0319	-.1532	-.9098	-.9423	-.9237	-.7334	
.020	.0726	-.0646	-.2777	-.8378	-.7217	-.7649	-.8107	-.2106
.040		-.0600	-.3659					
.050	-.0427			-.4988	-.4913	-.5200	-.5067	
.069								-.2012
.080				-.3858				
.081			-.2931					
.086		-.0334						
.094	-.0572							
.150				-.2191	-.2278	-.2317	-.2377	
.157								-.1741
.163		-.1180						
.177			-.1950					
.229	-.0522							
.246		-.1891						
.250				-.1506	-.1774	-.1868	-.1883	
.274			-.1359					
.345								-.1821
.390		-.1180						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (2) = .023 BETA (1) = -7.929

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1194	-.1295		-.1546	
.402			-.0976					
.503								-.2154
.550				-.1598	-.1637			
.585			-.2883					
.600							-.2168	
.637		-.1562						
.650						-.1964		
.670								-.2485
.700					-.2081			
.725				-.1859				
.750						-.3114	-.2718	
.760			-.1921					
.775				-.3256	-.2353			
.798		-.1606						
.813			-.3044					
.824	-.1527							
.849		-.2512						
.850								
.857				-.2326	-.2488	-.2129		
.862			-.2041					
.865	-.2496							-.1571
.879		-.1757						
.880	-.1100							
.895				-.1589			-.1402	
.899			-.1416					
.900		-.1074						
.950				-.0437	-.1324	-.0372		
.953			-.0356					
.955		-.0307						
.965	-.0064							
1.000			.0793		-.0174		.0665	

ALPHA (2) = .033 BETA (2) = -3.896 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.5179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	2990	3640	.4270	5340	.6730	.7800	.8870	.9720
X/CW								
.400	.0191	.0390	-.0203	-.7160	-.7861	-.7490	-.6476	
.402	.0830	.0145	-.1266	-.6967	-.6235	-.6555	-.6969	-.1948
.503		.0169	-.2471					
.550	-.0137			-.4118	-.4325	-.4628	-.4606	
.585								-.1755
.600				.3216				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (2) = .033 BETA (2) = -3.896

SECTION (11)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2288					
.086		.0282						
.094	-.0302							
.150				-.1944	-.2040	-.2124	-.2291	
.157								-.1712
.163		-.0570						
.177			-.1689					
.229	-.0201							
.246		-.1474						
.250				-.1421	-.1698	-.1855	-.1861	
.274			-.1240					
.345								-.1710
.390		-.1015						
.400				-.1174	-.1273		-.1527	
.402			-.0925					
.503								-.2028
.550				-.1603	-.1700			
.565			-.2562					
.600							-.2190	
.627		-.1510						
.650						-.2047		
.676								-.2365
.700					-.2173			
.745				-.1934				
.750						-.3068	-.2775	
.761			-.2007					
.775				-.3371	-.2349			
.798		-.1636						
.809			-.3055					
.834	-.1615							
.849		-.2603						
.850				-.2347	-.2447	-.2189		
.857			-.2115					
.902								-.1469
.885	-.2559							
.899		-.1895						
.900	-.1285			-.1647			-.1371	
.905			-.1492					
.919		-.1207						
.950				-.0460	-.1403	-.0420		
.953			-.0441					
.955		-.0476						
.966	-.0520							
1.000			.0708		.0116		.0702	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (2) = .035 BETA (3) = .147 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0146	.0706	.0900	-.5330	-.6380	-.6316	-.5586	
.020	.0867	.0610	.0033	-.5183	-.4948	-.5469	-.6071	-.1867
.040		.0751	-.1379					
.050	-.0016			-.3200	-.3615	-.3992	-.4263	
.069								-.1708
.090				-.2630				
.091			-.1586					
.086		.0747						
.094	-.0105							
.150				-.1679	-.1805	-.1895	-.2184	
.157								-.1708
.163		.0033						
.177			-.1341					
.229	.0056							
.245		-.1100						
.301				-.1241	-.1547	-.1708	-.1836	
.314			-.1079					
.345								-.1617
.380		-.0846						
.403				-.1123	-.1175		-.1506	
.403			-.0848					
.443								-.1940
.457				-.1573	-.1653			
.486			-.2481					
.516							-.2153	
.537		-.1405						
.559						-.2018		
.570								-.2219
.599					-.2116			
.635				-.1974				
.640						-.3040	-.2756	
.656			-.2044					
.676				-.2487	-.2357			
.698		-.1633						
.708			-.3012					
.714	-.1579							
.724		-.2578						
.753				-.2369	-.2454	-.2266		
.771			-.2126					
.798								-.1272
.798	-.2489							
.803		-.1915						
.817	-.1415			-.1611			-.1321	
.835			-.1523					
.879		-.1285						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEEL06)

ALPHA (2) = .035 BETA (3) = .147

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0484	-.1294	-.0400		
.953			-.0500					
.955		-.0560						
.965	-.0651							
1.000			.0718		.0315		.0738	

ALPHA (2) = .050 BETA (4) = 4.214 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.0228	.0500	.1584	-.3403	-.4532	-.4257	-.3847	
.020	.0729	.0608	.0911	-.3719	-.3700	-.4160	-.4456	-.1606
.040		.0793	-.0492					
.050	-.0108			-.2416	-.2764	-.3147	-.3254	
.069								-.1775
.080				-.2033				
.081			-.1059					
.086		.0906						
.094	-.0108							
.150				-.1363	-.1491	-.1599	-.1965	
.157								-.1652
.163		.0387						
.177			-.1009					
.179	.0131							
.196		-.0050						
.250				-.1039	-.1322	-.1525	-.1654	
.274			-.0894					
.345								-.1593
.390		-.0687						
.400				-.1053	-.1083		-.1459	
.402			-.0769					
.503								-.1909
.550				-.1500	-.1617			
.565			-.2453					
.600							-.2107	
.637		-.1362						
650						-.2011		
.672								-.2155
.700					-.2124			
.725				-.1964				
.750						-.2935	-.2736	
.780			-.2071					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBLC6)

ALPHA (2) = .050 BETA (4) = 4.214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720
X/CW								
.775				-.3505	-.2313			
.799		-.1710						
.808			-.2895					
.834	-.1633							
.839		-.2501						
.850				-.2349	-.2342	-.2271		
.857			-.2105					
.862								-.1141
.868	-.2431							
879		-.1833						
.900	-.1518			-.1599			-.1329	
.905			-.1564					
.918		-.1370						
940				-.0502	-.1218	-.0480		
.943			-.0560					
955		-.0661						
.965	-.0780							
1.000			.0620		.0457		.0752	

ALPHA (2) = .043 BETA (5) = 8.269 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1093	-.0232	.1918	-.1541	-.2928	-.2821	-.2564	
.020	.0451	.0165	.1618	-.2073	-.2338	-.3088	-.3390	-.1690
.040		.0401	.0359					
060	-.0392			-.1440	-.2071	-.2484	-.2701	
079								-.1865
080				- 1389				
101			-.0488					
120		0894						
21	- 0285							
140				-.1030	-.1197	-.1350	-.1716	
159								-.1711
160		.0709						
179			-.0705					
.199	.0047							
240		-.0652						
260				-.0953	-.1166	-.1305	-.1567	
279			-.0725					
299								-.1684
320		-.0610						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (2) = .045 BETA (5) = 8.269

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0937	-.1050		-.1418	
.402			-.0705					
.503								-.1848
.550				-.1409	-.1506			
.565			-.2743					
.600							-.1985	
.637		-.1366						
.650						-.1934		
.670								-.2061
.700					-.2067			
.725				-.1966				
.750						-.2754	-.2608	
.760			-.3109					
.775				-.3454	-.2216			
.798		-.1667						
.808			-.2724					
.834	-.1712							
.839		-.2502						
.850				-.2208	-.2207	-.2155		
.857			-.2102					
.862								-.0998
.865	-.2428							
.879		-.1922						
.900	-.1575			-.1534			-.1197	
.905			-.1529					
.919		-.1395						
.950				-.0478	-.0606	-.0389		
.953			-.0645					
.955		-.0757						
.965	-.0874							
1.000			.0559		.0638		.0841	

ALPHA (3) = 3.911 BETA (1) = -7.932 MACH = .59594 Q = 593.13 P = 2385.8 MN/L = 4.8146

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0866	.1511	.3253	.0078	.0080	.1468	.2043	
.020	.1208	.1494	.2311	-.1051	-.0172	.0027	.0417	.0182
.040		.1652	.0431					
.050	.0711			-.0901	-.0712	-.0251	-.0107	
.069								-.0106
.080				-.0665				

AMES 11-073(OA148) -140A/B/C/R ORB : EFT WING BOT (XEBL06)

ALPHA (3) = 3.911 BETA (1) = -7.932

SECTION ' 1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0183					
.086		.1606						
.094	.0531							
.150				-.0238	-.0154	-.0016	-.0289	
.157								-.1058
.163		.0922						
.177			-.0166					
.223	.0587							
.246		-.0185						
.250				-.0080	-.0219	-.0290	-.0407	
.274			-.0123					
.345								-.0837
.350		-.0035						
.400				-.0287	-.0301		-.0587	
.402			-.0075					
.503								-.1497
.550				-.0950	- 0982			
.565			-.3084					
.600							-.1688	
.647		-.0078						
.650						-.1599		
.700								-.2053
.703					-.1805			
.750				-.1562				
.800						-.2774	-.2421	
.801			-.1701					
.875				-.2999	-.3068			
.900		-.1332						
.918			-.2801					
.947	-.1296							
.950		-.2306						
.975				- 2.54	-.2268	-.2178		
.978			-.1681					
1.000								-.1751
1.003	- 2824							
1.006		- 1815						
1.025	- 0936			-.1518			-.1549	
1.028			-.1357					
1.050		-.0876						
1.053				-.0391	-.1195	-.0544		
1.078			-.0291					
1.081		- 0867						
1.103	- 0987							
			0965		0327		.0360	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEELOS)

ALPHA (3) = 3.915 BETA (2) = -3.897 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION 1 (LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	.0240	.0794	.3336	.0899	.0693	.1971	.2283	
.020	.0939	.1226	.2767	-.0203	.0422	.0586	.0806	-.0553
.040		.1500	.1103					
.050	.0460			-.0280	-.0268	.0010	.0088	
.069								-.0737
.080				-.0318				
.091			.0240					
.096		.1719						
.094	.0490							
.140				-.0065	-.0008	.0039	-.0350	
.157								-.1292
.163		.1274						
.177			.0057					
.229	.0598							
.246		-.0014						
.260				-.0027	-.0141	-.0317	-.0468	
.274			.0038					
.345								-.1209
.380		.0049						
.400				-.0246	-.0274		-.0713	
.402			-.0010					
.503								-.1794
.550				-.1005	-.1043			
.565			-.2602					
.600							-.1865	
.637		-.0936						
.650						-.1629		
.670								-.2274
.700					-.1827			
.725				-.1618				
.750						-.2800	-.2491	
.760			-.1732					
.775				-.3150	-.2091			
.738		-.1406						
.809			-.2799					
.834	-.1329							
.838		-.2359						
.850				-.2237	-.2366	-.2260		
.857			-.1951					
.882								-.1802
.895	-.2233							
.899		-.1719						
.910	-.1084			-.1573			-.1602	
.920			-.1429					
.919		-.1161						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (3) = 3.915 BETA (2) = -3.897

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0467	-.1251	-.0623		
.953			-.0395					
.955		-.0408						
.955	-.0422							
1.000			.0810		.0427		.0405	

ALPHA (3) = 3.912 BETA (3) = .150 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0016	-.0441	.3041	.1678	.1212	.2109	.2176	
.020	.0846	.0473	.2840	.0529	.0752	.0806	.0870	-.1536
.040		.0232	.1479					
.060	.0103			.0136	.0021	.0061	.0035	
.080								-.1459
.090				-.0044				
.100			.0529					
.080		.1581						
.090	.0212							
.100				.0071	.0042	.0088	-.0423	
.120								-.1478
.140		.1373						
.160			.0112					
.180	.0575							
.200		.0178						
.220				-.0049	-.0160	-.0309	-.0594	
.240			.0033					
.260								-.1567
.280		.0350						
.300				-.0287	-.0305		-.0815	
.320			-.0071					
.340				-.0982	-.1058			-.1998
.360			-.2558					
.380							-.1880	
.400		-.0935						
.420						-.1712		
.440								-.2400
.460					-.1840			
.480				-.1652				
.500						-.2819	-.2598	
.520			-.1764					

AMES 11-073(0A) (ORB LEFT WING BOT (XEBL06)

ALPHA (3) = 3.912 BETA (3) = .150

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3225	-.2081			
.798		-.1424						
.808			-.2749					
.834	-.1424							
.839		-.2401						
.850				-.2192	-.2523	-.2341		
.857			-.2047					
.862								
.865	-.2256						-.1777	
.879		-.1767						
.900	-.1287			-.1539				
.905			-.1512			-.1620		
.919		-.1250						
.950				-.0473	-.1217	-.0628		
.953			-.0555					
.955		-.0565						
.965	-.0561							
1.000			.0749		.0568		.0404	

ALPHA (3) = 3.921 BETA (4) = 4.204 MACH = .59594 Q = 593.13 P_v = 2385.8 RN/L = 4.8148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2048	-.2146	.2333	.2251	.1726	.2411	.2403	
.020	.0215	-.0656	.2635	.1140	.1234	.1275	.1308	-.3006
.040		-.0059	.1774					
.050	-.0495			.0665	.0406	.0450	.0413	
.069								
.080				.0308				-.2537
.081			.0807					
.086		.1265						
.094	-.0140							
.150				.0188	.0205	.0140	-.0380	
.157								
.163		.1441						-.1991
.177			.0296					
.229	.0388							
.246		.0278						
.250				.0059	-.0085	-.0255	-.0635	
.274			.0101					
.345								
.390		.0191						-.1912

C-3

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (3) = 3.921 BETA (4) = 4.204

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0287	-.0305		-.0880	
.402			-.0029					
.503								-.2295
.550				-.1016	-.1080			
.565			-.2666					
.600							-.1965	
.637		-.0868						
.650						-.1777		
.670								-.2614
.700					-.1899			
.725				-.1703				
.750						-.2732	-.2696	
.760			-.1891					
.775				-.3275	-.2083			
.798		-.1463						
.808			-.2565					
.834	-.1512							
.839		-.2316						
.850				-.2201	-.2288	-.2306		
.857			-.2068					
.862								-.1951
.865	-.2245							
.879		-.1789						
.900	-.1404			-.1614			-.1599	
.905			-.1491					
.919		-.1305						
.950				-.0520	-.1018	-.0623		
.953			-.0578					
.956		-.0669						
.965	-.0693							
1.000			.0622		.0610		.0489	

ALPHA (3) = 3.925 BETA (5) = 8.248 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3871	-.3572	.1026	.2544	.1986	.2417	.2123	
.020	-.0414	-.1870	.1923	.1614	.1467	.1422	.1277	-.4570
.040		-.1268	.1794					
.050	-.1347			.1033	.0757	.0624	.0361	
.069								-.3781
.080				.0529				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (3) = 3.925 BETA (5) = 8.248

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
X/CW								
.081			.1026					
.086		.0634						
.094	-.0692							
.150				.0256	.0262	.0211	-.0440	
.157								-.2592
.162		.1388						
.177			.0448					
.229	.0090							
.246		.0283						
.250				.0012	-.0106	-.0257	-.0693	
.274			.0168					
.345								-.2504
.390		.0141						
.400				-.0274	-.0355		-.1046	
.402			-.0100					
.503								-.2720
.550				-.1007	-.1077			
.565			-.3033					
.600							-.2001	
.637		-.0897						
.650						-.1786		
.670								-.2824
.700					-.1907			
.725				-.1773				
.750						-.2704	-.2727	
.760			-.1972					
.775				-.3101	-.2016			
.798		-.1547						
.808			-.2454					
.834	-.1550							
.839		-.2285						
.850				-.2147	-.2202	-.2244		
.857			-.1997					
.862								-.1948
.865	-.2247							
.879		-.1779						
.900	-.1497			-.1593			-.1610	
.905			-.1560					
.919		-.1336						
.950				-.0552	-.0839	-.0638		
.953			-.0652					
.965		-.0687						
.965	-.0831							
1.000			.0556		.0679		.0525	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT W.T. . . (XEBL06)

ALPHA (4) = 7.957 BETA (1) = -7.908 MACH = .59612 Q = 596.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0241	-.0732	.4066	.4922	.4979	.5730	.5459	
.020	.1029	.1068	.4411	.3606	.4222	.4531	.4609	-.2435
.040		.1621	.3271					
.050	.1077			.2506	.2778	.3064	.3245	
.069								-.1209
.080				.2042				
.081			.2137					
.086		.2697						
.094	.1124							
.150				.1624	.1825	.1949	.1545	
.157								-.1339
.163		.2547						
.177			.1459					
.229	.1414							
.246		.1322						
.250				.1291	.1273	.1250	.0883	
.274			.1183					
.345								-.0808
.390		.1072						
.400				.0724	.0743		.0249	
.402			.0971					
.503								-.1602
.550				-.0195	-.0247			
.565			-.3303					
.600							-.1307	
.637		-.0222						
.650						-.1119		
.670								-.2257
.700					-.1326			
.725				-.1104				
.750						-.2294	-.2078	
.760			-.1344					
.775				-.2590	-.1637			
.798		-.0967						
.808			-.2274					
.834	-.1023							
.839		-.1974						
.850				-.1919	-.2268	-.2057		
.857			-.1642					
.862								-.2295
.865	-.1965							
.879		-.1367						
.900	-.0639			-.1384			-.1809	
.905			-.1236					
.919		-.0855						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (4) = 7.957 BETA (1) = -7.908

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0390	-.0977	-.0689		
.953			-.0257					
.955		-.0203						
.965	.0001							
1.000			.0995		.0574		-.0377	

ALPHA (4) = 7.966 BETA (2) = -3.891 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1697	-.2842	.2926	.4795	.4712	.5131	.4757	
.020	.0525	-.0210	.3825	.3649	.4076	.4244	.4181	-.4458
.040		.0478	.3256					
.050	.0347			.2621	.2840	.3001	.3041	
.069								-.2742
.080				.2026				
.081			.2290					
.086		.2202						
.094	.0700							
.150				.1647	.1837	.1835	.1338	
.157								-.1855
.163		.2659						
.177			.1509					
.229	.1217							
.246		.1408						
.250				.1257	.1202	.1097	.0616	
.274			.1221					
.345								-.1498
.39		.1140						
.400				.0717	.0654		.0044	
.402			.0894					
.503								-.2165
.550				-.0232	-.0362			
.565			-.2867					
.600							-.1523	
.637		-.0217						
.650						-.1275		
.670								-.2480
.700					-.1453			
.725				-.1232				
.750						-.2481	-.2297	
.760			-.1441					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (4) = 7.966 BETA (2) = -3.891

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2708	-.1757			
.798		-.1066						
.808			-.2286					
.834	-.1057							
.839		-.2037						
.850				-.1960	-.2240	-.2216		
.857			-.1669					
.862								-.2584
.865	-.1916							
.879		-.1437						
.900	-.0784			-.1489			-.1929	
.905			-.1307					
.919		-.1004						
.950				-.0489	-.1123	-.0801		
.953			-.0349					
.955		-.0339						
.965	-.0245							
1.000			.0868		.0630		-.0387	

ALPHA (4) = 7.972 BETA (3) = .143 MACH = .59812 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3717	-.5483	.1275	.4479	.4302	.4364	.3809	
.020	-.0151	-.1959	.2863	.3710	.3914	.3938	.3619	-.6419
.040		-.1082	.3048					
.050	-.0549			.2707	.2779	.2830	.2676	
.069								-.4377
.080				.2139				
.091			.2247					
.086		.1530						
.094	.0138							
.150				.1611	.1782	.1708	.1046	
.157								-.2368
.163		.2481						
.177			.1581					
.229	.0918							
.246		.1319						
.250				.1177	.1107	.0985	.0426	
.274			.1145					
.345								-.2267
.360		.1097						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (4) = 7.972 BETA (3) = .143

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0619	.0584		-.0222	
.402			.0813					
.503								-.2747
.550				-.0270	-.0410			
.565			-.2817					
.600							-.1669	
.637		-.0281						
.650						-.1327		
.670								-.2890
.700					-.1493			
.725				-.1346				
.750						-.2483	-.2285	
.760			-.1614					
.775				-.2703	-.1694			
.798		-.1132						
.808			-.2235					
.834	-.1121							
.839		-.1946						
.850				-.1940	-.2088	-.2242		
.857			-.1763					
.862								-.2768
.865	-.1956							
.879		-.1523						
.900	-.1001			-.1498			-.1937	
.905			-.1395					
.919		-.1114						
.950				-.0535	-.1017	-.0855		
.953			-.0456					
.955		-.0500						
.965	-.0321							
1.000			.0767		.0645		-.0243	

ALPHA (4) = 7.971 BETA (4) = 4.201 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5706	-.7021	-.0614	.3910	.3748	.3314	.2764	
.020	-.0895	-.3510	.1498	.3495	.3477	.3528	.2975	-.9082
.040		-.2441	.2531					
.050	-.1474			.2691	.2723	.2719	.2358	
.069								-.6116
.080				.2118				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (4) = 7.971 BETA (4) = 4.201

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2037					
.086		.0709						
.094	-.0650							
.150				.1570	.1668	.1677	.0831	
.157								-.3100
.163		.2113						
.177			.1462					
.229	.0433							
.246		.1146						
.250				.1047	.1060	.0920	.0295	
.274			.1039					
.345								-.3218
.390		.0962						
.400				.0487	.0515		-.0387	
.402			.0674					
.503								-.3358
.550				-.0323	-.0409			
.565			-.3094					
.600							-.1707	
.637		-.0334						
.650						-.1428		
.670								-.3207
.700					-.1532			
.725				-.1347				
.750						-.2455	-.2481	
.760			-.1670					
.775				-.2597	-.1564			
.798		-.1165						
.808			-.2158					
.834	-.1311							
.839		-.2078						
.850				-.1897	-.2060	-.2200		
.857			-.1832					
.862								-.2797
.865	-.2017							
.879		-.1598						
.900	-.1226			-.1494			-.1904	
.905			-.1508					
.919		-.1258						
.950				-.0536	-.0927	-.0825		
.953			-.0636					
.955		-.0710						
.965	-.0587							
1.000			.0575		.0293		-.0115	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (4) = 7.969 BETA (5) = 8.255 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7753	-.6566	-.2877	.2988	.2876	.2024	.1405	
.020	-.1664	-.4369	-.0091	.2997	.2912	.2809	.2113	-1.1567
.040		-.3406	.1852					
.050	-.2643			.2485	.2489	.2295	.1839	
.069								-.7918
.080				.1979				
.081			.1794					
.086		-.0117						
.094	-.1493							
.150				.1462	.1520	.1455	.0488	
.157								-.3896
.163		.1692						
.177			.1363					
.229	-.0061							
.246		.0945						
.250				.0931	.0939	.0733	.0005	
.274			.1003					
.345								-.3993
.390		.0837						
.400				.0335	.0365		-.0629	
.402			.0584					
.503								-.3879
.550				-.0423	-.0561			
.565			-.3339					
.600							-.1872	
.637		-.0385						
.650						-.1504		
.670								-.3499
.700					-.1649			
.725				-.1477				
.750						-.2563	-.2578	
.760			-.1762					
.775				-.2640	-.1839			
.798		-.1237						
.808			-.2149					
.834	-.1455							
.839		-.2100						
.850				-.2002	-.2223	-.2210		
.857			-.1898					
.862								-.2766
.865	-.2000							
.879		-.1722						
.900	-.1356			-.1587			-.1844	
.905			-.1569					
.919		-.1324						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L06)

ALPHA (4) = 7.969 BETA (5) = 8.255

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0714	-.0614	-.0931		
.953			-.0768					
.955		-.0758						
.965	-.0765							
1.000			.0545		.0447		.0238	

ALPHA (5) = 12.008 BETA (1) = -7.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3252	-.6651	.1144	.6054	.6030	.5185	.4500	
.020	.0232	-.1692	.3798	.5819	.6028	.5918	.5353	-.7929
.040		-.0446	.4616					
.050	.0557			.4699	.5018	.5066	.4838	
.069								-.4249
.080				.3929				
.081			.3815					
.086		.2688						
.094	.1208							
.150				.3148	.3486	.3483	.2850	
.157								-.2031
.163		.3730						
.177			.2908					
.229	.2012							
.245		.2657						
.250				.2541	.2567	.2500	.1945	
.274			.2366					
.345								-.1231
.390		.2204						
.400				.1692	.1715		.1020	
.402			.1892					
.503								-.1899
.550				.0599	.0545			
.565			-.3345					
.600							-.0841	
.637		.0488						
.650						-.0636		
.670								-.2216
.700					-.0902			
.725				-.0714				
.750						-.1626	-.1718	
.760			-.1059					

AMES 11-073(0A14B) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (5) = 12.008 BETA (1) = -7.872

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1882	-.0962			
.798		-.0667						
.808			-.1625					
.834	-.0759							
.839		-.1544						
.850				-.1528	-.1840	-.1903		
.857			-.1332					
.862							-.2997	
.865	-.1473							
.879		-.1084						
.900	-.0298			-.1314		-.2079		
.905			-.1076					
.919		-.0700						
.950				-.0519	-.0824	-.0947		
.953			-.0306					
.955		-.0168						
.965	.0103							
1.000			.0699		-.0002		-.1286	

ALPHA (5) = 12.030 BETA (2) = -3.872 MACH = .4771D Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5496	-.9021	-.0888	.5103	.5067	.3766	.3116	
.020	-.0520	-.3470	.2342	.5278	.5405	.5143	.4436	-1.0228
.040		-.1956	.4039					
.050	-.0506			.4491	.4771	.4679	.4284	
.069							-.6010	
.080				.3797				
.081			.3590					
.086		.1846						
.094	.0502							
.150				.3042	.3300	.3304	.2461	
.157							-.2666	
.163		.3477						
.177			.2870					
.229	.1672							
.246		.2511						
.250				.2422	.2424	.2307	.1660	
.274			.2311					
.345							-.2131	
.390		.2098						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (5) = 12.030 BETA (2) = -3.872

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1608	.1602		.0674	
.402			.1800					
.503								-.2622
.550				.0523	.0393			
.565			-.2902					
.600							-.1075	
.637		.0438						
.650						-.0820		
.670								-.2662
.700					-.1073			
.725				-.0805				
.750						-.2001	-.1921	
.760			-.1133					
.775				-.1996	-.1191			
.798		-.0727						
.808			-.1661					
.834	-.0787							
.839		-.1574						
.850				-.1624	-.2031	-.2056		
.857			-.1399					
.862								-.3149
.865	-.1512							
.879		-.1114						
.900	-.0526			-.1371			-.2123	
.905			-.1111					
.919		-.0822						
.930				-.0505	-.0868	-.1081		
.943			-.0350					
.956		-.0339						
.986	-.0104							
1.000			.0790		.0038		-.1059	

ALPHA (5) = 12.035 BETA (3) = .140 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8025	-1.1348	-.3512	.3908	.3854	.2149	.1537	
.020	-.1430	-.5350	.0618	.4561	.4553	.4262	.3324	-1.2348
.040		-.3826	.3259					
.050	-.1711			.4086	.4300	.4125	.3565	
.069								-.7791
.080				.3548				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (5) = 12.036 BETA (3) = .140

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3268					
.086		.0828						
.094	-.0357							
.150				.2745	.3074	.2960	.2016	
.157								-.3370
.163		.2977						
.177			.2665					
.229	.1126							
.246		.2206						
.250				.2185	.2193	.2015	.1219	
.274			.2146					
.345								-.2945
.390		.1949						
.400				.1397	.1360		.0291	
.402			.1627					
.503								-.3330
.550				.0364	.0181			
.565			-.2984					
.600							-.1411	
.637		.0363						
.650						-.1037		
.670								-.3067
.700					-.1325			
.725				-.1073				
.750						-.1280	-.2178	
.760			-.1441					
.775				-.2269	-.1600			
.798		-.0842						
.803			-.1852					
.834	-.0939							
.839		-.1745						
.850				-.1890	-.2605	-.2274		
.857			-.1616					
.862								-.3297
.865	-.1687							
.879		-.1347						
.900	-.0781			-.1605			-.2253	
.905			-.1383					
.919		-.1021						
.950				-.0683	-.0996	-.1310		
.953			-.0626					
.955		-.0507						
.965	-.0304							
1.000			.0347		.0034		-.0745	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (5) = 11.949 BETA (4) = 4.211 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8583

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-1.0126	-.9571	-.5569	.2539	.2526	.0263	-.0250	
.020	-.2255	-.6138	-.1279	.3629	.3554	.3111	.2051	-1.3985
.040		-.4733	.2275					
.050	-.3061			.3606	.3745	.3510	.2869	
.069								-.9017
.080				.3146				
.081			.2764					
.085		-.0168						
.094	-.1392							
.150				.2504	.2697	.2625	.1606	
.157								-.3651
.163		.2394						
.177			.2357					
.229	.0492							
.246		.1813						
.250				.1917	.1931	.1781	.0918	
.274			.1952					
.345								-.3453
.390		.1732						
.400				.1185	.1186		.0035	
.402			.1379					
.503								-.3710
.550				.0219	.0010			
.565			- .0036					
.600							-.1554	
.637		.0238						
.650						-.1248		
.670								-.3411
.700					-.1550			
.725				-.1240				
.750						-.2465	-.2343	
.760			-.1513					
.775				-.2313	-.1729			
.798		-.1020						
.808			-.1816					
.834	-.1010							
.839		-.1787						
.850				-.1992	-.2933	-.2393		
.857			-.1729					
.862								
.865	-.1692							-.3131
.879		-.1454						
.900	-.1044			-.1786			-.2365	
.905			-.1501					
.919		-.1203						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (5) = 11.949 BETA (4) = 4.211

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0969	-.0996	-.1527		
.953			-.0743					
.955		-.0626						
.965	-.0454							
1.000			.0530		.0251		-.0810	

ALPHA (5) = 12.026 BETA (5) = 8.275 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-1.2863	-.7466	-.8100	.0714	.0800	-.1857	-.2190	
.020	-.3148	-.6666	-.3234	.2584	.2464	.1875	.0827	-1.4365
.040		-.5409	.1211					
.050	-.4397			.3029	.3105	.2811	.2019	
.069								-1.0222
.080				.2724				
.081			.2227					
.086		-.0940						
.094	-.2358							
.150				.2224	.2426	.2297	.1231	
.157								-.4230
.163		.1846						
.177			.2145					
.229	-.0077							
.246		.1516						
.250				.1693	.1765	.1587	.0639	
.274			.1785					
.345								-.3984
.390		.1562						
.400				.1055	.1037		-.0190	
.402			.1254					
.503								-.4096
.550				.0171	.0000			
.565			-.3320					
.600							-.1623	
.637		.0226						
.650						-.1243		
.670								-.3556
.700					-.1532			
.725				-.1278				
.750						-.2523	-.2308	
.760			-.1609					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL06)

ALPHA (5) = 12.026 BETA (5) = 8.275

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2168	-.1564			
.798		-.1060						
.808			-.1693					
.834	-.1180							
.839		-.1784						
.850				-.1840	-.2800	-.2357		
.857			-.1686					
.862								-.3097
.865	-.1653							
.879		-.1503						
.900	-.1093			-.1711			-.2373	
.905			-.1546					
.919		-.1280						
.950				-.1067	-.0981	-.1499		
.953			-.0814					
.955		-.0767						
.965	-.0637							
1.000			.0560		.0039		-.0801	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L07) (13 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (1) = -4.068 BETA (1) = -3.876 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1457	-.3115	-.5066	-1.0850	-1.2622	-1.0348	-1.0460	
.020	.2478	-.2657	-.5493	-1.2661	-1.3307	-1.3347	-1.3584	-1.3583
.040		-.2376	-.6700					
.050	-.1384			-1.1651	-1.3271	-1.3743	-1.3906	
.069								-1.2638
.080				-1.0795				
.081			-.4916					
.085		-.1238						
.094	-.1269							
.150				-.6244	-1.1562	-1.2286	-1.2555	
.157								-.6145
.163		-.1796						
.177			-.4835					
.229	-.0605							
.246		-.3292						
.250				-.4208	-.4750	-.9411	-1.1854	
.274			-.3837					
.345								-.7281
.390		-.3494						
.400				-.2830	-.2686		-.3960	
.402			-.2714					
.503								-.6185
.550				-.3202	-.2667			
.565			-.7840					
.600							-.2162	
.617		-.3010						
.650						-.2452		
.670								-.4289
.700					-.3009			
.725				-.3164				
.750						-.4233	-.3536	
.760			-.2807					
.775				-.4694	-.3718			
.798		-.2706						
.800			-.4947					
.834	-.2703							
.839		-.3583						
.850				-.2751	-.2882	-.2428		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L07)

ALPHA (1) = -4.068 BETA (1) = -3.876

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2315					
.862								
.865	-.3427							-.3299
.879		-.1808						
.900	-.1548			-.1379			-.1675	
.905			-.1113					
.919		-.0840						
.950				-.0242	-.1639	-.0159		
.953			-.0068					
.955		-.0102						
.965	-.0105							
1.000			.0621		.0045		.0355	

ALPHA (1) = -4.048 BETA (2) = .153 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0541	-.1351	-.3327	-1.0758	-1.2857	-1.0825	-1.1053	
.020	.2873	-.1067	-.3826	-1.2316	-1.3485	-1.3636	-1.2565	-.6884
.040		-.0898	-.4788					
.050	-.0661			-1.1101	-1.2885	-1.3326	-1.2560	
.069								
.080				-.6912				-.6074
.081			-.3957					
.086		-.0351						
.094	-.0658							
.150				-.5168	-.6954	-1.0883	-1.0401	
.157								
.163		-.0969						-.3676
.177			-.4141					
.229	-.0181							
.246		-.2580						
.250				-.3779	-.4126	-.6343	-.8263	
.274			-.3284					
.345								
.390		-.2965						-.4727
.400				-.2653	-.2860		-.5943	
.402			-.2542					
.503								
.550				-.3218	-.3403			-.4179
.565			-.7382					
.600							-.3214	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (1) = -4.048 BETA (2) = .153

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2984						
.650						-.3036		
.670								-.3467
.700					-.3733			
.725				-.4077				
.750						-.4365	-.3293	
.760			-.3361					
.775				-.4971	-.3891			
.798		-.3478						
.808			-.4645					
.834	-.2625							
.839		-.3284						
.850				-.2441	-.2664	-.2465		
.857			-.2206					
.882								-.2447
.865	-.3402							
.879		-.1839						
.900	-.1934			-.1162			-.1590	
.905			-.1115					
.919		-.0885						
.950				-.0180	-.1326	-.0196		
.953			-.0191					
.956		-.0257						
.965	-.0298							
1.000			.0446		.0279		-.0233	

ALPHA (1) = -4.057 BETA (3) = 4.237 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0014	-.0153	-.1730	-1.0355	-1.2977	-1.1092	-.9587	
.020	.3118	-.0031	-.2311	-1.0986	-1.3256	-1.1470	-.9309	-.6283
.040		.0140	-.3205					
.050	-.0169			-.7191	-1.2564	-1.1503	-.8846	
.069								-.6283
.080				-.5440				
.081			-.3174					
.085		.0291						
.094	-.0246							
.150				-.4371	-.5243	-.9211	-.8230	
.157								-.3859
.163		-.0342						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (1) = -4.057 BETA (3) = 4.237

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3181					
.229	.0109							
.246		-.2132						
.250				-.3433	-.3782	-.5949	-.8058	
.274			-.2932					
.345								-.4774
.390		-.2562						
.400				-.2605	-.2707		-.5978	
.402			-.2364					
.503								-.3912
.550				-.3157	-.3698			
.565			-.7926					
.600							-.3814	
.637		-.2932						
.650						-.4133		
.670								-.2844
.700					-.4932			
.725				-.4698				
.750						-.4329	-.3334	
.760			-.4163					
.775				-.5227	-.3365			
.798		-.3515						
.808			-.3948					
.834	-.3354							
.839		-.3187						
.850				-.2375	-.2008	-.2258		
.857			-.1981					
.862								-.1795
.865	-.3740							
.879		-.1782						
.900	-.2122			-.1151			-.1397	
.905			-.1006					
.919		-.0894						
.950				-.0215	-.0678	-.0130		
.953			-.0182					
.955		-.0292						
.955	-.0305							
1.000			.0262		.0131		.0311	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L07)

ALPHA (2) = .010 BETA (1) = -3.903 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0271	.0780	.0922	-.6653	-.8441	-.7723	-.6289	
.020	.3215	.0613	-.0209	-.6242	-.8024	-.7772	-.9209	-.3090
.040		.0711	-.1842					
.050	.0018			-.5221	-.6164	-.6816	-.7909	
.069								-.3559
.080				-.3645				
.081			-.2128					
.086		.0878						
.094	-.0201							
.150				-.2176	-.2305	-.2609	-.2855	
.157								-.2462
.163		.0114						
.177			-.1897					
.229	.0184							
.246		-.1430						
.250				-.1612	-.2085	-.2398	-.2707	
.274			-.1364					
.345								-.3202
.390		-.1203						
.400				-.1424	-.1426		-.2029	
.402			-.0978					
.503								-.3563
.550				-.2064	-.2195			
.565			-.8852					
.600							-.3864	
.637		-.2033						
.660						-.3420		
.670								-.3767
.700					-.3891			
.725				-.3578				
.750						-.4487	-.4961	
.760			-.3040					
.775				-.4654	-.4005			
.798		-.2604						
.808			-.5536					
.834	-.2649							
.839		-.4744						
.850				-.2613	-.2907	-.1963		
.857			-.2338					
.862								-.1351
.865	-.4142							
.879		-.1895						
.900	-.1635			-.1119			-.0927	
.905			-.1023					
.919		-.0874						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (2) = .010 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0173	-.1653	-.0164		
.953			-.0051					
.955		-.0097						
.965	-.0147							
1.000			.0509		-.0017		.0687	

ALPHA (2) = .014 BETA (2) = .148 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0284	.1080	.1791	-.4731	-.6810	-.7096	-.6252	
.020	.3279	.1080	.0940	-.4757	-.5933	-.6347	-.7839	-.3374
.040		.1204	-.0654					
.050	.0155			-.3648	-.4702	-.5596	-.6645	
.069								-.3388
.080				-.2931				
.081			-.1305					
.085		.1268						
.094	.0111							
.150				-.1900	-.2118	-.2366	-.3296	
.157								-.2518
.163		.0731						
.177			-.1400					
.229	.0467							
.245		-.0929						
.250				-.1443	-.1953	-.2306	-.2711	
.274			-.1122					
.345								-.3325
.390		-.0929						
.400				-.1332	-.1628		-.2255	
.402			-.0906					
.503								-.3912
.550				-.2183	-.2328			
.565			-.8728					
.600							-.3902	
.637		-.2005						
.650						-.3596		
.670								-.3304
.700					-.4031			
.725				-.3594				
.750						-.4371	-.5106	
.760			-.3087					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (2) = .014 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.5074	-.3883			
.798		-.2613						
.808			-.5392					
.834	-.2564							
.839		-.3970						
.850				-.2452	-.2488	-.1855		
.857			-.2258					
.852							-.1015	
.865	-.3531							
.879		-.1925						
.900	-.1738			-.1038			-.0819	
.905			-.1034					
.919		-.0902						
.950				-.0119	-.1206	-.0344		
.953			-.0036					
.955		-.0152						
.965	-.0285							
1.000			.0558		.0177		.0683	

ALPHA (2) = .013 BETA (3) = 4.211 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0132	.0811	.2291	-.2988	-.5129	-.5741	-.5362	
.020	.3140	.0989	.1705	-.3567	-.4287	-.4948	-.6252	-.3008
.040		.1165	.0192					
.050	.0088			-.2488	-.3662	-.4177	-.4808	
.069								-.3279
.080				-.2199				
.081			-.0703					
.086		.1406						
.094	.0108							
.150				-.1570	-.1820	-.2090	-.3144	
.157								-.2599
.163		.1027						
.177			-.1025					
.229	.0479							
.246		-.0608						
.250				-.1308	-.1794	-.2107	-.2718	
.274			-.0998					
.345								-.3624
.390		-.0768						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (2) = .013 BETA (3) = 4.211

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1351	-.1550		-.2275	
.402			-.0917					
.503								-.4178
.550				-.2251	-.2437			
.565			-.0866					
.600							-.4091	
.637		-.2053						
.650						-.3756		
.670								-.3000
.700					-.4170			
.725				-.3862				
.750						-.4731	-.5602	
.760			-.3630					
.775				-.5155	-.4000			
.798		-.3022						
.808			-.4999					
.834	-.2948							
.839		-.3936						
.850				-.2462	-.2255	-.1898		
.857			-.2540					
.862								-.0706
.865	-.3732							
.879		-.2191						
.900	-.2184			-.1067			-.0809	
.905			-.1170					
.919		-.1023						
.950				-.0083	-.0501	-.0199		
.953			-.0123					
.955		-.0257						
.965	-.0317							
1.000			.0496		.0199		.0566	

ALPHA (3) = 3.998 BETA (1) = -3.905 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0150	.1156	.3964	.0937	.0181	.1123	.1427	
.020	.3366	.1614	.3386	-.0217	.0010	.0001	-.0241	-.1131
.040		.1890	.1635					
.050	.0586			-.0353	-.0512	-.0468	-.0581	
.069								-.1698
.080				-.0387				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (3) = 3.998 BETA (1) = -3.905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0616					
.086		.2263						
.094	.0580							
.150				-.0067	-.0090	-.0163	-.0726	
.157								-.1836
.163		.1921						
.177			.0212					
.229	.0964							
.246		.0345						
.250				.0036	-.0289	-.0497	-.1024	
.274			.0193					
.345								-.2503
.390		.0271						
.400				-.0253	-.0315		-.1184	
.402			.0138					
.503								-.3017
.550				-.1255	-.1482			
.565			-.9538					
.600							-.3065	
.637		-.1195						
.650						-.2882		
.670								-.4004
.700					-.3458			
.725				-.2813				
.750						-.4601	-.4970	
.760			-.2273					
.775				-.4123	-.3852			
.798		-.1700						
.808			-.4946					
.834	-.1906							
.839		-.4675						
.850				-.5264	-.4988	-.6001		
.857			-.4428					
.872								-.3781
.885	-.3949							
.879		-.2939						
.900	-.2153			-.1350			-.5897	
.905			-.1154					
.919		-.0980						
.950				-.0002	-.1602	-.0839		
.953			.0093					
.955		-.0050						
.965	-.0187							
1.000			.0825		.0491		-.0367	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (3) = 4.002 BETA (2) = .135 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/EW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0872	-.0104	.3635	.1858	.0847	.1516	.1610	
.020	.3010	.0885	.3416	.0602	.0518	.0373	.0087	-.2152
.040		.1324	.2075					
.050	.0195			.0316	-.0128	-.0095	-.0445	
.069								-.2338
.080				.0150				
.081			.0938					
.086		.2091						
.094	.0313							
.150				.0180	-.0002	-.0117	-.0874	
.157								-.2079
.163		.2075						
.177			.0430					
.229	.0848							
.246		.0542						
.250				.0065	-.0193	-.0509	-.1124	
.274			.0258					
.345								-.3156
.390		.0306						
.400				-.0313	-.0405		-.1421	
.402			.0104					
.503								-.3629
.550				-.1334	-.1581			
.565			-.9408					
.600							-.3316	
.637		-.1260						
.650						-.3026		
.670								-.4243
.700					-.3220			
.745				-.2637				
.760						-.4549	-.5065	
.760			-.2124					
.775				-.4284	-.3843			
.798		-.1949						
.808			-.4837					
.834	-.1960							
.839		-.4472						
.850				-.4825	-.4592	-.6074		
.857			-.4072					
.862								-.3229
.865	-.3625							
.879		-.2937						
.900	-.2202			-.1222			-.5378	
.905			-.1275					
.919		-.1224						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (3) = 4.002 BETA (2) = .135

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				.0005	-.0932	-.0470		
.953			-.0085					
.955		-.0235						
.965	-.0546							
1.000			.0750		.0532		-.0029	

ALPHA (5) = 3.920 BETA (3) = 4.206 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2135	-.1551	.2943	.2389	.1362	.1941	.1802	
.020	.2613	-.0131	.3172	.1270	.0956	.0851	.0570	-.3583
.040		.0376	.2219					
.050	-.0424			.0773	.0211	.0114	-.0116	
.069								-.3278
.080				.0441				
.081			.1184					
.086		.1658						
.094	.0002							
.150				.0267	.0063	-.0062	-.0967	
.157								-.2680
.163		.2094						
.177			.0565					
.229	.0664							
.246		.0648						
.250				.0039	-.0248	-.0470	-.1363	
.274			.0291					
.345								-.3675
.390		.0374						
.400				-.0356	-.0478		-.1630	
.402			.0055					
.503								-.4243
.550				-.1395	-.1665			
.585			-.9628					
.600							-.3545	
.637		-.1172						
.650						-.3273		
.670								-.5364
.700					-.3320			
.725				-.2835				
.750						-.4474	-.5194	
.760			-.2641					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (3) = 3.920 BETA (3) = 4.206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4298	-.3828			
.798		-.2256						
.808			-.4643					
.834	-.2232							
.839		-.4059						
.850				-.4234	-.3708	-.5999		
.857			-.3661					
.862							-.1698	
.865	-.3538							
.879		-.2771						
.900	-.2284			-.1317		-.3033		
.905			-.1402					
.919		-.1264						
.950				-.0032	-.0581	-.0334		
.953			-.0165					
.955		-.0386						
.965	-.0478							
1.000			.0815		.0515		.0045	

ALPHA (4) = 7.946 BETA (1) = -3.900 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1744	-.1800	.4147	.4958	.4463	.5040	.4667	
.020	.2867	.0548	.4665	.3703	.3813	.3798	.3550	-.2849
.040		.1216	.3773					
.050	.0347			.2631	.2621	.2605	.2423	
.069								-.2088
.080				.2119				
.081			.2606					
.086		.2825						
.094	.0744							
.150				.1804	.1805	.1743	.0948	
.157								.1978
.163		.3240						
.177			.1845					
.229	.1562							
.246		.1793						
.250				.1457	.1234	.1008	.0256	
.274			.1520					
.345								-.2242
.390		.1411						

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (4) = 7.946 BETA (1) = -3.900

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0816	.0690		-.0381	
.402			.1198					
.503								-.2737
.550				-.0449	-.0691			
.565			-.6605					
.600							-.2422	
.637		-.0389						
.650						.2064		
.670								-.3634
.700					-.2528			
.725				-.2125				
.750						-.3758	-.4496	
.760			-.2032					
.775				-.3827	-.3888			
.798		-.1708						
.808			-.4396					
.834	-.1841							
.839		-.4566						
.850				-.5875	-.6067	-.5613		
.857			-.5274					
.862								-.4403
.865	-.3781							
.879		-.4027						
.900	-.2515			-.3293			-.5706	
.905			-.2018					
.919		-.1556						
.950				-.0599	-.2695	-.6183		
.953			-.0324					
.955		-.0426						
.965	-.0494							
1.000			.0788		-.1145		-.3307	

ALPHA (4) = 7.956 BETA (2) = .143 MACH = .89867 Q = 599.20 P = 1059.8 RN/L = 3.5837

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3705	-.3891	.2661	.4905	.4298	.4640	.4163	
.020	.2217	-.0952	.3808	.3867	.3731	.3633	.3352	-.4484
.040		-.0120	.3651					
.060	-.0460			.2970	.2675	.2037	.2270	
.069								-.3116
.080				.2331				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (4) = 7.956 BETA (2) = .143

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2682					
.086		.2193						
.094	.0256							
.150								
.157				.1819	.1743	.1714	.0733	
.163		.3154						-.2188
.177			.1921					
.229	.1253							
.246		.1852						
.250								
.274			.1499	.1388	.1245	.0926	.0108	
.345								
.390		.1480						-.2664
.400								
.402				.0721	.0650		-.0555	
.503			.1108					
.550								-.2780
.565				-.0514	-.0774			
.603			-.6713					
.637		-.0408					-.2627	
.650								
.670						-.2101		
.700								-.4205
.725					-.2488			
.750				-.2134				
.760						-.3806	-.4319	
.775			-.2268					
.798				-.3848	-.3979			
.808		-.1847						
.834			-.4262					
.839	-.1980							
.850		-.4239						
.857				-.5794	-.6178	-.5634		
.862			-.4620					
.865								-.4822
.879	-.3623							
.900		-.3693						
.905	-.2449			-.2641				
.913			-.2065				-.5983	
.950		-.1818						
.953				-.0626	-.2330	-.6393		
.955			-.0491					
.965		-.0630						
1.000	-.0804							
			.0676		-.0884		-.4140	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (4) = 7.955 BETA (3) = 4.206 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5542	-.3497	.0888	.4510	.3969	.3930	.3492	
.020	.1536	-.1751	.2524	.3796	.3485	.3449	.2930	-.5243
.040		-.1033	.3073					
.050	-.1266			.2925	.2580	.2486	.2083	
.069								-.4011
.080				.2321				
.081			.2438					
.086		.1321						
.094	-.0432							
.150				.1758	.1778	.1577	.0636	
.157								-.2557
.163		.2669						
.177			.1791					
.229	.0811							
.236		.1594						
.250				.1202	.1124	.0889	-.0094	
.274			.1358					
.345								-.2893
.390		.1367						
.400				.0491	.0512		-.0778	
.402			.0886					
.503								-.3158
.550				-.0494	-.0836			
.565			-.7238					
.600							-.2734	
.637		-.0497						
.650						-.2205		
.670								-.4528
.700					-.2577			
.725				-.2271				
.750						-.3785	-.4365	
.760			-.2497					
.775				-.3913	-.3970			
.798		-.1947						
.808			-.4236					
.834	-.2187							
.839		-.4021						
.850				-.5592	-.6100	-.5681		
.857			-.4502					
.862								-.5383
.885	-.3650							
.879		-.3574						
.900	-.2894			-.2730			-.6367	
.905			-.2742					
.919		-.2107						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (4) = 7.955 BETA (3) = 4.206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0766	-.2041	-.5929		
.953			-.0839					
.955		-.0814						
.965	-.0877							
1.000			.0354		-.0446		-.4552	

ALPHA (5) = 11.987 BETA (1) = -3.885 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4790	-.5648	.2050	.6332	.6056	.5874	.5277	
.020	.2040	-.1446	.4163	.5794	.5695	.5573	.5035	-.3851
.040		-.0317	.4843					
.050	-.0209			.4727	.4642	.4550	.4192	
.069								-.2341
.080				.4001				
.081			.4130					
.086		.2775						
.094	.0715							
.150				.3301	.3359	.3300	.2423	
.157								-.2000
.163		.4171						
.177			.3204					
.229	.2028							
.246		.2975						
.250				.2670	.2579	.2389	.1559	
.274			.2708					
.345								-.1408
.390		.2553						
.400				.1815	.1751		.0642	
.402			.2143					
.503								-.2150
.550				.0471	.0248			
.565			-.6228					
.600							-.1712	
.637		.0474						
.650						-.1437		
.670								-.3925
.700					-.2155			
.725				-.1864				
.750						-.3055	-.3470	
.760			-.2418					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (5) = 11.987 BETA (1) = -3.885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3236	-.3567			
.798		-.2015						
.808			-.3580					
.834	-.2086							
.839		-.4142						
.850				-.5021	-.7118	-.5230		
.857			-.4267					
.862								-.5113
.865	-.3666							
.879		-.4013						
.900	-.2688			-.6128			-.5611	
.905			-.4975					
.919		-.3475						
.950				-.4669	-.5701	-.6271		
.953			-.1707					
.955		-.1447						
.965	-.1229							
1.000			-.0040		-.3074		-.5104	

ALPHA (5) = 11.997 BETA (2) = .148 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7017	-.4234	-.0170	.5455	.5266	.4731	.4165	
.020	.1337	-.2176	.2549	.5283	.5126	.4937	.4261	-.5382
.040		-.1160	.4116					
.050	-.1252			.4532	.4423	.4139	.3671	
.069								-.3719
.080				.3852				
.081			.3797					
.086		.1836						
.094	.0068							
.150				.3153	.3201	.3067	.2047	
.157								-.2541
.163		.3665						
.177			.3114					
.229	.1605							
.246		.2735						
.250				.2527	.2371	.2147	.1172	
.274			.2575					
.345								-.2223
.390		.2435						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (5) = 11.997 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1634	.1540		.0240	
.402			.1991					
.503								-.2859
.550				.0365	.0061			
.565			-.6364					
.600							-.2095	
.637		.0403						
.650						-.1621		
.670								-.4316
.700					-.2219			
.725				-.1940				
.750						-.3224	-.3731	
.760			-.2424					
.775				-.3320	-.3696			
.798		-.2018						
.808			-.3702					
.834	-.2055							
.839		-.3833						
.850				-.5119	-.7305	-.5192		
.857			-.4093					
.862								-.5731
.865	-.3590							
.879		-.3826						
.900	-.2952			-.5940			-.5933	
.905			-.4928					
.919		-.3441						
.950				-.4429	-.5558	-.6693		
.953			-.2240					
.955		-.1557						
.965	-.1177							
1.000			-.0365		-.2693		-.5406	

ALPHA (5) = 11.987 BETA (3) = 4.223 MACH = .89947 Q = 589.98 P = 1059.5 RN/L = 3.5879

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8055	-.3898	-.2250	.4347	.4232	.3456	.2958	
.020	.0807	-.3188	.0856	.4593	.4437	.4198	.3444	-.6985
.040		-.2272	.3161					
.050	-.2143			.4076	.4001	.3692	.3170	
.069								-.4957
.080				.3535				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL07)

ALPHA (5) = 11.987 BETA (3) = 4.223

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3345					
.086		.0979						
.094	-.0648							
.150				.2906	.2955	.2760	.1681	
.157								-.3118
.163		.3120						
.177			.2884					
.229	.1057							
.246		.2386						
.250				.2269	.2156	.1941	.0890	
.274			.2433					
.345								-.2949
.390		.2274						
.400				.1483	.1348		-.0091	
.402			.1801					
.503								-.3416
.550				.0285	-.0078			
.565			-.6290					
.600							-.2387	
.637		.0369						
.650						-.1798		
.670								-.4759
.700					-.2307			
.725				-.2044				
.750						-.3480	-.3844	
.760			-.2675					
.775				-.3440	-.3782			
.798		-.2119						
.808			-.3680					
.849	-.2266							
.849		-.3596						
.850				-.4853	-.7648	-.5215		
.857			-.3925					
.862								
.865	-.3504							-.6368
.879		-.3837						
.900	-.3411			-.5962			-.6395	
.905			-.4813					
.919		-.3907						
.950				-.5543	-.5786	-.6792		
.953			-.3164					
.955		-.2334						
.965	-.1666							
1.000			-.0614		-.2674		-.5991	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000
BOFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (1) = -4.017 BETA (1) = -3.884 MACH = 1.3953 Q = 598.81 P = 439.24 RN/L = 2.9166

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1815	-.2512	-.1404	-.2721	-.3657	-.2267	-.1948	
.020	.0000	-.2412	-.2518	-.4101	-.4062	-.4164	-.4110	-.4635
.040		-.2357	-.3126					
.050	-.1637			-.4439	-.4348	-.4504	-.4419	
.069								-.4939
.080				-.4424				
.081			-.1984					
.086		-.1318						
.091	-.1475							
.150				-.4002	-.4019	-.3990	-.4035	
.157								-.3172
.163		-.0377						
.177			-.1819					
.229	-.1078							
.246		-.1199						
.250				-.2222	-.3738	-.3612	-.3746	
.274			-.1662					
.345								-.4169
.390		-.1428						
.400				-.1793	-.3238		-.3349	
.402			-.1547					
.503								-.3579
.550				-.1484	-.1683			
.565			-.3231					
.600							-.3256	
.637		-.0989						
.650						-.3256		
.670								-.4610
.700					-.2163			
.725				-.1784				
.750						-.2744	-.3850	
.760			-.1912					
.775				-.2297	-.2529			
.798		-.1763						
.808			-.2522					
.834	-.1880							
.839		-.2469						
.850				-.3059	-.2690	-.3124		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (1) = -4.017 BETA (1) = -3.884

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2723					
.862								-.4644
.865	-.2323							
.879		-.2857						
.900	-.2004			-.3522			-.4315	
.905			-.3467					
.919		-.2893						
.950				-.3767	-.3252	-.3717		
.953			-.3693					
.955		-.2955						
.965	-.2771							
1.000			-.0987		-.2137		-.4116	

ALPHA (1) = -3.966 BETA (2) = .155 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1022	-.1191	-.0594	-.2694	-.3825	-.2697	-.2431	
.020	.0000	-.1222	-.1250	-.4051	-.4207	-.4404	-.4419	-.5025
.040		-.1186	-.1810					
.050	-.1035			-.4242	-.4476	-.4700	-.4711	
.060								-.5183
.080				-.3865				
.081			-.1581					
.086		-.0809						
.094	-.1013							
.150				-.3084	-.4037	-.4155	-.4248	
.157								-.3314
.163		.0086						
.177			-.1367					
.229	-.0763							
.246		-.0831						
.250				-.1636	-.3644	-.3744	-.3871	
.274			-.1309					
.345								-.4747
.390		-.1038						
.400				-.1488	-.1612		-.3496	
.402			-.1216					
.503								-.3663
.550				-.1186	-.1440			
.565			-.3335					
.600							-.3331	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (1) = -3.966 BETA (2) = .155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0804						
.650						-.1889		
.670							-.4440	
.700					-.1845			
.725				-.1626				
.750						-.2047	-.3408	
.760			-.1824					
.775				-.2189	-.2244			
.798		-.1682						
.808			-.2377					
.834	-.1727							
.839		-.2329						
850				-.2915	-.2265	-.2898		
.857			-.2646					
.862							-.5036	
.865	-.2187							
.879		-.2678						
.900	-.1966			-.3377				
.905			-.3307			-.3300		
.919		-.2788						
.950				-.3625	-.3269	-.3500		
.953			-.3519					
.955		-.2908						
.965	-.3069							
1.000			-.1154		-.2323		-.3135	

ALPHA (1) = -4.012 BETA (3) = 4.241 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0836	-.0391	.0395	-.2548	.3954	-.3024	-.2815	
.020	.0000	-.0532	.0023	-.3892	-.4325	-.4597	-.4663	-.5284
.040		-.0475	-.0821					
.050	-.0807			-.3508	-.4529	-.4855	-.4918	
.069							-.5251	
.080				-.3369				
.091			-.1024					
.096		-.0085						
.104	-.0890							
.150				-.1805	-.3948	-.4243	-.4420	
.157							-.3400	
.163		.2945						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (1) = -4.012 BETA (3) = 4.241

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1024					
.229	-.0585							
.246		-.0489						
.250				-.1409	-.1928	-.3698	-.4085	
.274			-.0919					
.345								
.390		-.0668						-.4186
.400								
.402				-.1166	-.1409		-.3576	
.503			-.0907					
.550								-.3561
.565				-.0991	-.1129			
.600			-.3085					
.637		-.0666					-.1627	
.650								
.670						-.1591		
.700								-.3959
.725					-.1638			
.750				-.1568				
.760						-.1885	-.2004	
.775			-.1747					
.798				-.2140	-.2111			
.808		-.1584						
.834	-.1788		-.2305					
.849								
.850		-.2271						
.857				-.2808	-.2094	-.2770		
.862			-.2603					
.865	-.2155							-.3625
.879		-.2667						
.900	-.2078			-.3292				
.905			-.3206				-.3003	
.919		-.2808						
.950				-.3582	-.3167	-.3305		
.953			-.3404					
.955		-.2889						
.965	-.3203							
1.000			-.1282		-.2329		-.1605	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (2) = -.007 BETA (1) = -3.899 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0012	.0140	.2091	-.0819	-.1870	-.1108	-.0196	
.020	.0000	-.0172	.1472	-.2143	-.2317	-.2421	-.2595	-.2213
.040		-.0182	.0128					
.050	-.0289			-.2189	-.2405	-.2710	-.2757	
.069								-.2462
.080				-.1748				
.081			-.0399					
.086		.0259						
.094	-.0447							
.150				-.1199	-.1883	-.2022	-.2247	
.157								-.2001
.163		.0973						
.177			-.0415					
.229	-.0397							
.246		-.0177						
.250				-.0639	-.1415	-.1615	-.1882	
.274			-.0458					
.345								-.1617
.390		-.0373						
.400				-.0625	-.0558		-.1492	
.402			-.0444					
.503								-.1729
.550				-.0450	-.0546			
.565			-.3678					
.600							-.1177	
.637		-.0249						
.650						-.0982		
.670								-.2425
.700					-.1256			
.725				-.1064				
.750						-.1267	-.1471	
.760			-.1249					
.775				-.1801	-.1784			
.788		-.1269						
.808			-.1774					
.834	-.1345							
.839		-.1926						
.850				-.2456	-.2975	-.2421		
.857			-.2181					
.862								-.2751
.865	-.1680							
.879		-.2356						
.900	-.1614			-.3030			-.2829	
.905			-.2898					
.919		-.2631						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL0B)

ALPHA (2) = -.007 BETA (1) = -3.899

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3538	-.2739	-.3185		
.953			-.3261					
.955		-.2476						
.965	-.2235							
1.000			-.0894		-.1619		-.3696	

ALPHA (2) = -.001 BETA (2) = .155 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2490	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0148	-.0021	.2458	-.0760	-.2057	-.1486	-.0704	
.020	.0000	-.0088	.2186	-.1805	-.2389	-.2630	-.2916	-.2543
.040		.0015	.0675					
.060	-.0251			-.1058	-.1946	-.2706	-.3054	
.069								-.2615
.080				-.1092				
.091			.0010					
.086		.0418						
.094	-.0429							
.150				-.0798	-.1438	-.1815	-.2245	
.157								-.1982
.163		.1134						
.177			-.0188					
.229	-.0401							
.246		.0046						
.250				-.0452	-.0648	-.1237	-.1901	
.274			-.0179					
.345								-.1431
.390		-.0112						
.400				-.0424	-.0437		-.0704	
.402			-.0257					
.503								-.0982
.550				-.0305	-.0372			
.565			-.3857					
.600							-.0836	
.637		-.0112						
.650						-.0831		
.670								-.2001
.700					-.1102			
.725				-.0992				
.740						-.1232	-.1442	
.760			-.1187					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (2) = -.001 BETA (2) = .155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1742	-.1613			
.798		-.1171						
.808			-.1690					
.834	-.1253							
.839		-.1822						
.850				-.2343	-.2827	-.2338		
.857			-.2122					
.862							-.2878	
.865	-.1629							
.879		-.2271						
.900	-.1546			-.2898			-.2818	
.905			-.2823					
.919		-.2434						
.950				-.3420	-.2731	-.3139		
.953			-.3156					
.955		-.2365						
.965	-.2412							
1.000			-.1101		-.1790		-.3281	

ALPHA (2) = -.006 BETA (3) = 4.218 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0764	-.0695	.2610	-.0250	-.1861	-.1652	-.1001	
.020	.0000	-.0409	.2455	-.0204	-.1250	-.2530	-.3008	-.1995
.040		-.0251	.1119					
.050	-.0589			-.0799	-.1930	-.2393	-.2958	
.069								-.1902
.080				-.0601				
.081			.0378					
.086		.0388						
.094	-.0587							
.150				-.0423	-.0886	-.1402	-.2045	
.157								-.1811
.163		.1139						
.177			.0032					
.229	-.0534							
.246		.0187						
.250				-.0246	-.0550	-.0477	-.0780	
.274			.0058					
.345								-.0776
.390		.0085						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (2) = -.006 BETA (3) = 4.218

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0179	-.0241		-.0589	
.402			-.0061					
.503								-.1051
.550				-.0179	-.0226			
.565			-.3751					
.600							-.0687	
.637		.0016						
.650						-.0690		
.670								-.2125
.700					-.0989			
.725				-.0984				
.750						-.1173	-.1363	
.760			-.1152					
.775				-.1682	-.1524			
.798		-.1107						
.808			-.1607					
.834	-.1194							
.839		-.1736						
.850				-.2292	-.2669	-.2264		
.857			-.2081					
.862								-.2929
.865	-.1613							
.879		-.2238						
.900	-.1639			-.2823			-.2787	
.905			-.2769					
.919		-.2312						
.950				-.3335	-.2525	-.3110		
.953			-.2991					
.955		-.2343						
.965	-.2494							
1.000			-.1204		-.1877		-.2224	

ALPHA (3) = 3.849 BETA (1) = -3..9 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0519	.0110	.3931	.2479	.1654	.1656	.1986	
.020	.0000	.0308	.3688	.1734	.1537	.0812	.0178	.0798
.040		.0468	.2053					
.050	.0402			.0422	.0109	.0140	.0171	
.069								.0480
.080				.0499				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (3) = 3.849 BETA (1) = -3.909

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1183					
.086		.1036						
.094	.0251							
.150				.0482	.0465	.0599	.0705	
.157								-.0831
.163		.1904						
.177			.0821					
.229	.0213							
.246		.0683						
.250				.0651	.0626	.0752	.0588	
.274			.0649					
.345								.0192
.390		.0644						
.400				.0578	.0679		.0535	
.402			.0609					
.503								-.0143
.550				.0622	.0746			
.565			-.4013					
.600							.0010	
.637		.0575						
.650						.0135		
.670								-.1441
.700					-.0289			
.725				-.0286				
.750						-.0300	-.0556	
.760			-.0631					
.775				-.1434	-.0904			
.798		-.0702						
.808			-.1089					
.834	-.0787							
.839		-.1434						
.850				-.1835	-.2681	-.1708		
.857			-.1708					
.862								-.2402
.865	-.1134							
.879		-.1865						
.900	-.1575			-.2475			-.2307	
.905			-.2412					
.913		-.2360						
.950				-.3116	-.2851	-.2710		
.953			-.2807					
.955		-.2059						
.965	-.1582							
1.000			-.0974		-.1528		-.4077	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (3) = 3.967 BETA (2) = .154 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0371	-.1531	.3438	.3014	.1952	.1778	.1994	
.020	.0000	-.0662	.3481	.2202	.1681	.1105	.0499	.0553
.040		-.0363	.2237					
.050	.0099			.1096	.0518	.0842	.0468	
.069								.0326
.080				.0944				
.081			.1395					
.086		.0597						
.094	.0049							
.150				.0770	.0779	.0888	.1040	
.157								-.0910
.163		.1736						
.177			.0916					
.229	.0040							
.246		.0814						
.250				.0847	.0771	.0890	.0663	
.274			.0883					
.345								-.0027
.390		.0790						
.400				.0713	.0836		.0588	
.402			.0704					
.503								-.0301
.550				.0696	.0795			
.565			-.4171					
.600							.0091	
.637		.0697						
.650						.0190		
.670								-.1586
.700					-.0256			
.725				-.0267				
.750						-.0412	-.0616	
.760			-.0531					
.775				-.1230	-.0832			
.798		-.0550						
.808			-.0934					
.834	-.0629							
.839		-.1231						
.850				-.1719	-.2572	-.1750		
.857			-.1599					
.862								-.2565
.865	-.1032							
.879		-.1750						
.900	-.1325			-.2334			-.2277	
.905			-.2261					
.919		-.2087						

AMES 11-073(OA148) -140A/B/C'D ORB LEFT WING BOT (XE8L08)

ALPHA (3) = 3.967 BETA (2) = .154

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2947	-.2793	-.2768		
.953			-.2683					
.955		-.1939						
.965	-.1560							
1.000			-.1253		-.1336		-.3816	

ALPHA (3) = 3.885 BETA (3) = 4.208 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1612	-.3797	.2573	.3374	.2256	.2020	.2253	
.020	.0000	-.1935	.2932	.2645	.1965	.1424	.1007	-.0028
.040		-.1503	.2228					
.050	-.0551			.1549	.0916	.1042	.0954	
.069								-.0033
.080				.1335				
.081			.1440					
.086		-.0185						
.094	-.0464							
.150				.0920	.1012	.1111	.1158	
.157								-.1079
.163		.1400						
.177			.0954					
.229	-.0240							
.246		.0778						
.250				.0897	.0875	.0979	.0717	
.274			.0987					
.345								-.0211
.390		.0847						
.400				.0847	.1098		.0733	
.402			.0804					
.503								-.0389
.550				.0737	.0842			
.565			-.4022					
.600							.0179	
.637		.0754						
.650						.0241		
.670								-.1784
.700					-.0190			
.725				-.0199				
.750						-.0614	-.0673	
.760			-.0489					

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (3) = 3.885 BETA (3) = 4.208

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1094	-.0758			
.798		-.0466						
.808			-.0877					
.834	-.0571							
.839		-.1149						
.850				-.1594	-.2440	-.1768		
.857			-.1515					
.862							-.2813	
.865	-.1039							
.879		-.1732						
.900	-.1222			-.2220		-.2382		
.905			-.2220					
.919		-.1892						
.950				-.2822	-.2543	-.2819		
.953			-.2525					
.955		-.1945						
.965	-.1665							
1.000			-.1382		-.1380		-.2440	

ALPHA (4) = 7.868 BETA (1) = -3.901 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0008	-.1320	.4252	.5130	.4509	.5095	.5330	
.020	.0000	-.0032	.4514	.3857	.3960	.4028	.3920	.1335
.040		.0333	.3431					
.060	.0810			.2824	.2683	.3108	.3484	
.080				.2446				.1495
.081			.2545					
.086		.1445						
.094	.0737							
.150				.1933	.2486	.2812	.2897	
.157								-.0463
.163		.2830						
.177			.1959					
.229	.0813							
.246		.1652						
.250				.1967	.2176	.2461	.2204	
.274			.1850					
.345								.1151
.390		.1712						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (4) = 7.868 BETA (1) = -3.901

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1867	.2418		.2016	
.402			.1743					
.503								.0825
.550				.1739	.1939			
.565			-.4558					
.603							.1142	
.657		.1559						
.680						.1157		
.670								-.0769
.700					.0552			
.725				.0508				
.750						.0047	.0120	
.760			.0138					
.775				-.0873	-.0148			
.788		.0059						
.809			-.0320					
.844	-.0082							
.839		-.0810						
.850				-.1116	-.2081	-.1114		
.857			-.1058					
.882								-.1863
.855	-.0491							
.879		-.1214						
.900	-.1083			-.1826			-.1585	
.905			-.1763					
.919		-.1841						
.950				-.2574	-.2275	-.2263		
.953			-.2270					
.955		-.1712						
.965	-.0836							
1.000			-.1301		-.2700		-.3905	

ALPHA (4) = 7.941 BETA (2) = .144 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1375	-.3435	.2784	.5201	.4605	.5203	.5243	
.020	.0000	-.1264	.3530	.4209	.4092	.4280	.4059	.0233
.040		-.0780	.3144					
.050	.0187			.3160	.2865	.3282	.3564	
.069								.0641
.080				.2743				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (4) = 7.91 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2413					
.086		.0662						
.094	.0299							
.150				.2110	.2037	.2797	.2882	
.157								-.0655
.162		.2299						
.177			.1925					
.229	.0535							
.246		.1598						
.250				.1965	.2238	.2424	.2166	
.274			.1944					
.345								.0769
.390		.1682						
.400				.1861	.2372		.2118	
.402			.1703					
.503								.0454
.550				.1747	.1900			
.565			-.4560					
.600							.1030	
.637		.1567						
.650						.1110		
.670								-.1081
.700					.0608			
.725				.0549				
.750						.0241	-.0040	
.760			.0224					
.775				-.0543	-.0061			
.798		.0243						
.808			-.0166					
.834	.0119							
.839		-.0545						
.850				-.1024	-.2164	-.1156		
.857			-.0933					
.862								-.2298
.855	-.0345							
.879		-.1155						
.900	-.0799			-.1686			-.1796	
.905			-.1609					
.919		-.1571						
.950				-.2423	-.2221	-.2351		
.953			-.2150					
.955		-.1542						
.955	-.0966							
1.000			-.1586		-.2008		-.4135	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (4) = 7.942 BETA (3) = 4.207 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0847	-.4512	.1004	.4790	.4444	.4973	.4919	
.020	.0000	-.2247	.2164	.4155	.4078	.4274	.4123	-.1054
.040		-.1693	.2502					
.050	-.0576			.3173	.2990	.3239	.3580	
.069								-.0273
.080				.2619				
.081			.1938					
.086		.0005						
.094	-.0244							
.150				.2060	.2559	.2682	.2837	
.157								-.0961
.163		.1694						
.177			.1695					
.229	.0199							
.246		.1298						
.250				.1907	.2187	.2350	.2231	
.274			.1792					
.345								.0277
.390		.1500						
.400				.1864	.2276		.2126	
.402			.1700					
.503								.0042
.550				.1661	.1806			
.565			-.4342					
.600							.0927	
.637		.1617						
.650						.1122		
.670								-.1361
.700					.0645			
.725				.0556				
.750						.0185	-.0147	
.760			.0211					
.775				-.0277	.0024			
.798		.0209						
.808			-.0128					
.834	.0125							
.839		-.0487						
.850				-.0911	-.2229	-.1184		
.857			-.0866					
.862								-.2553
.865	-.0399							
.879		-.1162						
.900	-.0699			-.1658			-.1849	
.905			-.1669					
.919		-.1406						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (4) = 7.942 BETA (3) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2299	-.2243	-.2333		
.953			-.1976					
.955		-.1516						
.965	-.1213							
1.000			-.1807		-.1658		-.3772	

ALPHA (5) = 11.890 BETA (1) = -3.888 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.8183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1198	-.2877	.3655	.6757	.6507	.7160	.7227	
.020	.0000	-.0428	.4690	.5710	.5925	.6240	.6346	.0662
.040		.0145	.4517					
.050	.0941			.4697	.4819	.5122	.5485	
.069								.1455
.080				.4035				
.081			.3729					
.086		.1786						
.094	.1175							
.150				.3496	.4081	.4415	.4387	
.157								-.0169
.163		.3589						
.177			.3138					
.229	.1478							
.246		.2661						
.250				.3325	.3675	.3961	.3735	
.274			.3124					
.345								.1688
.390		.2849						
.400				.3154	.3738		.3484	
.402			.2972					
.503								.1414
.550				.2764	.2975			
.565			-.4687					
.600							.1944	
.637		.2501						
.650						.2120		
.670								-.0232
.700					.1430			
.725				.1387				
.750						.1188	.0846	
.760			.0991					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L0B)

ALPHA (5) = 11.890 BETA (1) = -3.888

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.0002	.0653			
.798		.0965						
.808			.0567					
.834	.0845							
.839		.0000						
.850				-.0415	-.1559	-.0465		
.857			-.0281					
.862							-.1522	
.865	.0366							
.879		-.0493						
.900	-.0139			-.1168			-.0964	
.905			-.1030					
.919		-.1072						
.950				-.1996	-.1761	-.1771		
.953			-.1619					
.955		-.0907						
.965	-.0260							
1.000			-.2461		-.3080		-.4686	

ALPHA (5) = 11.897 BETA (2) = .146 MACH = 1.3944 Q = 599.11 P = 440.18 R1/L = 2.9183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2527	-.3853	.1865	.6155	.5997	.6564	.6545	
.020	.0000	-.1459	.3209	.5404	.5662	.5903	.6009	-.0813
.040		-.0853	.3707					
.050	.0184			.4512	.4657	.4909	.5255	
.069								.0375
.080				.3844				
.081			.3102					
.088		.1006						
.094	.0706							
.150				.3331	.3907	.4171	.4263	
.157								-.0599
.163		.2939						
.177			.2878					
.229	.1104							
.246		.2304						
.250				.3130	.3505	.3827	.3600	
.274			.2980					
.345								.1084
.390		.2674						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (5) = 11.897 BETA (2) = .1-8

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3066	.3588		.3242	
.402			.2840					
.503								.0850
.550				.2673	.2891			
.565			-.4945					
.600							.1733	
.637		.2545						
.650						.2000		
.670								-.0680
.700					.1371			
.725				.1402				
.750						.0908	.0600	
.760			.1017					
.775				.0352	.0635			
.798		.1002						
.808			.0667					
.834	.0944							
.839		.0238						
.850				-.0243	-.1652	-.0535		
.857			-.0093					
.862								-.1961
.865	.0347							
.879		-.0456						
.900	-.0006			-.1014			-.1229	
.905			-.0958					
.919		-.0817						
.930				-.1838	-.1731	-.1799		
.963			-.1480					
.965		-.0985						
.965	-.0556							
1.000			-.1954		-.2680		-.4871	

ALPHA (5) = 11.893 BETA (3) = 4.224 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3531	-.4433	-.0077	.5244	.5337	.5662	.5699	
.020	.0000	-.2408	.1680	.4887	.5188	.5393	.5464	-.2060
.040		-.1763	.2796					
.050	-.0518			.4145	.4378	.4504	.4909	
.059								-.0600
.080				.3569				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (5) = 11.893 BETA (3) = 4.224

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2474					
.086		.0200						
.094	.0148							
.150				.3105	.3629	.3928	.4114	
.157								-.0956
.163		.2239						
.177			.2412					
.229	.0698							
.246		.1881						
.250				.2899	.3240	.3673	.3471	
.274			.2708					
.345								.0641
.390		.2349						
.400				.2918	.3367		.3086	
.402			.2670					
.503								.0485
.550				.2570	.2791			
.565			-.4574					
.600							.1688	
.647		.2482						
.650						.1900		
.670								-.0924
.700					.1357			
.725				.1314				
.750						.0795	.0373	
.760			.0919					
.775				.0533	.0608			
.798		.0905						
.808			.0617					
.834	.0810							
.839		.0131						
.850				-.0242	-.1883	-.0656		
.857			-.0146					
.862								-.2195
.865	.0162							
.879		-.0523						
.900	-.0034			-.1014			-.1350	
.905			-.0993					
.919		-.0743						
.950				-.1731	-.1753	-.1734		
.953			-.1229					
.955		-.1014						
.965	-.0779							
1.000			-.2333		-.1667		-.4785	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBLDB)

ALPHA (6) = 15.905 BETA (1) = -3.863 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/GW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2120	-.3261	.2852	.7535	.7682	.7950	.7888	
.020	.0000	-.0548	.4511	.6964	.7341	.7626	.7643	-.0270
.040		.0170	.5121					
.050	.1101			.6048	.6410	.6741	.7010	
.059								.1264
.080				.5427				
.081			.4583					
.086		.2205						
.094	.1672							
.150				.4931	.5487	.5979	.5750	
.157								-.0181
.163		.4381						
.177			.4263					
.229	.2186							
.246		.3551						
.250				.4520	.5103	.5524	.5019	
.274			.4328					
.345								.2213
.390		.4054						
.400				.4484	.5050		.4561	
.402			.4101					
.503								.1992
.550				.3995	.4066			
.565			-.4835					
.600							.2853	
.637		.3665						
.650						.3051		
.670								.0262
.700					.2363			
.725				.2387				
.750						.1922	.1434	
.760			.1866					
.775				.1138	.1381			
.798		.1940						
.808			.1420					
.834	.1862							
.839		.0863						
.850				.0390	-.0961	.0142		
.857			.0531					
.862								-.1168
.865	.1215							
.879		.0090						
.900	.0350			-.0510			-.0377	
.905			-.0413					
.919		-.0458						

AMES 11-073(OA148) -140A/B/C/R OCB LEFT WING BOT (XEBL08)

ALPHA (6) = 15.905 BETA (1) = -3.863

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1390	-.1220	-.1173		
.953			-.1119					
.955		-.0621						
.965	-.0081							
1.000			-.2372		-.3790		-.5446	

ALPHA (6) = 15.918 BETA (2) = .144 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2109	-.4004	.0914	.6562	.6836	.6843	.6755	
.020	.0000	-.1570	.2908	.6319	.6738	.6937	.6888	-.1564
.040		-.0859	.4218					
.050	.0429			.5673	.6074	.6307	.6495	
.069								.0159
.080				.5127				
.081			.3851					
.086		.1351						
.094	.1053							
.150				.4658	.5280	.5700	.5371	
.157								-.0650
.163		.3626						
.177			.3920					
.229	.1734							
.246		.3194						
.250				.4339	.4882	.5268	.4755	
.274			.4104					
.345								.1529
.390		.3788						
.400				.4305	.4844		.4240	
.402			.4047					
.503								.1489
.550				.4019	.3995			
.565			-.5167					
.600							.2639	
.637		.3648						
.650						.2877		
.670								.0002
.700					.2385			
.725				.2396				
.750						.1815	.1236	
.760			.1917					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL08)

ALPHA (6) = 15.918 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.1575	.1460			
.798		.1976						
.808			.1591					
.834	.1924							
.839		.1029						
.850				.0590	-.1094	.0112		
.857			.0602					
.862							-.1425	
.865	.1184							
.879		.0165						
.900	.0770			-.0374		-.0573		
.905			-.0398					
.919		-.0107						
.950				-.1252	-.1176	-.1038		
.953			-.0761					
.955		-.0409						
.965	-.0121							
1.000			-.3057		-.3165		-.5608	

ALPHA (6) = 15.908 BETA (3) = 4.250 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3856	-.4764	-.0896	.5276	.5707	.5569	.5457	
.020	.0000	-.2486	.1336	.5459	.5890	.6086	.5943	-.2540
.040		-.1777	.3156					
.060	-.0325			.5031	.5516	.5706	.5050	
.069								-.0650
.080				.4620				
.081			.3118					
.086		.0572						
.094	.0466							
.150				.4261	.4888	.5312	.5056	
.157								-.1001
.163		.2891						
.177			.3347					
.229	.1221							
.246		.2615						
.250				.4008	.4617	.4951	.4547	
.274			.3805					
.345							.1056	
.390		.3407						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L08)

ALPHA (6) = 15.908 BETA (3) = 4.250

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.4106	.4526		.4041	
.402			.3819					
.503								.0968
.550				.3647	.3820			
.565			-.4683					
.600							.2479	
.637		.3481						
650						.2713		
.670								-.0250
.700					.2344			
.725				.2303				
.750						.1666	.1096	
.760			.1811					
.775				.1594	.1396			
.798		.1882						
.808			.1525					
.834	.1745							
.839		.0994						
.850				.0593	-.1304	-.0065		
.857			.0576					
.862								-.1597
.865	.1025							
.879		.0310						
.900	.0894			-.0410			-.0715	
.905			-.0292					
.919		-.0006						
.950				-.1199	-.1196	-.1057		
.953			-.0555					
.955		-.0418						
.965	-.0201							
1.000			-.2651		-.2665		-.5287	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 85.000
BDFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = 1.250

ALPHA (1) = -4.096 BETA (1) = -3.882 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1585	-.2931	-.2122	-.4067	-.5185	-.3670	-.3327	
.020	.0000	-.2757	-.3220	-.5565	-.5598	-.5719	-.5727	-.6118
.040		-.2764	-.3580					
.050	-.1546			-.5796	-.5884	-.6089	-.6015	
.069								-.6650
.080				-.5423				
.081			-.2448					
.086		-.1551						
.094	-.1554							
.150				-.5021	-.5273	-.5367	-.5474	
.157								-.4042
.163		-.0628						
.177			-.2275					
.229	-.1366							
.246		-.1455						
.250				-.2513	-.4760	-.4873	-.5073	
.274			-.2046					
.345								-.5801
.390		-.1689						
.400				-.2111	-.2928		-.4498	
.402			-.1731					
.503								-.5814
.550				-.1515	-.1877			
.565			-.4109					
.600							-.4292	
.637		-.1138						
.650						-.2427		
.670								-.6136
.700					-.2333			
.725				-.2065				
.750						-.2427	-.4758	
.760			-.2222					
.775				-.2661	-.2767			
.798		-.2002						
.808			-.2972					
.834	-.2159							
.839		-.2956						
.850				-.3616	-.2741	-.3464		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (1) = -4.026 BETA (1) = -3.882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.3282					
.862								-.5804
.865	-.2844							
.879		-.3413						
.900	-.2416			-.4037			-.4817	
.905			-.4104					
.919		-.3436						
.950				-.4199	-.4328	-.4168		
.953			-.4213					
.955		-.3436						
.965	-.3418							
1.000			-.0995		-.2273		-.2085	

ALPHA (1) = -4.017 BETA (2) = .155 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1070	-.1389	-.0934	-.4064	-.5425	-.4086	-.3857	
.020	.0000	-.1487	-.1566	-.5518	-.5829	-.6001	-.6079	-.6688
.040		-.1434	-.2150					
.050	-.1183			-.5292	-.6020	-.6307	-.6360	
.069								-.6934
.080				-.5001				
.081			-.1964					
.086		-.0788						
.094	-.1198							
.150				-.2936	-.5208	-.5538	-.5770	
.157								-.4254
.163		-.0058						
.177			-.1759					
.229	-.0943							
.246		-.1053						
.250				-.2012	-.4103	-.5003	-.5345	
.274			-.1475					
.345								-.6137
.390		-.1136						
.400				-.1540	-.1782		-.4720	
.402			-.1232					
.503								-.4763
.550				-.1276	-.1465			
.565			-.4385					
.600							-.3562	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (1) = -4.017 BETA (2) = .155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0957						
.650						-.1864		
.670								-.6239
.700					-.2096			
.725				-.1950				
.750						-.2263	-.2658	
.760			-.2200					
.775				-.2688	-.2745			
.798		-.1985						
.808			-.2970					
.834	-.2089							
.839		-.2885						
.850				-.3531	-.2760	-.3325		
.857			-.3241					
.862								-.5301
.865	-.2735							
.879		-.3314						
.900	-.2482			-.4141			-.3629	
.905			-.4061					
.919		-.3421						
.950				-.4332	-.4177	-.4065		
.953			-.4264					
.955		-.3586						
.965	-.3809							
1.000			-.1366		-.2599		-.1482	

ALPHA (1) = -4.025 BETA (3) = 4.236 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720
X/CW								
.010	-.0982	-.0549	.0095	-.3967	-.5538	-.4435	-.4271	
.020	.0000	-.0668	-.0021	-.5337	-.5895	-.6211	-.6302	-.7003
.040		-.0577	-.1020					
.050	-.1095			-.4544	-.6038	-.6450	-.6562	
.069								-.6975
.080				-.3809				
.081			-.1197					
.086		-.0162						
.094	-.1005							
.150				-.2126	-.4851	-.5551	-.5821	
.157								-.4281
.163		.0517						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (1) = -4.025 BETA (3) = 4.236

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1192					
.229	-.0690							
.246		-.0534						
.250				-.1529	-.1998	-.4283	-.5406	
.274			-.0970					
.345								-.6433
.390		-.0685						
.400				-.1221	-.1425		-.3794	
.402			-.0944					
.503								-.5926
.550				-.1105	-.1250			
.565			-.3712					
.600							-.1659	
.637		-.0854						
.650						-.1705		
.670								-.2952
.700					-.1967			
.725				-.1934				
.750						-.2276	-.2397	
.760			-.2181					
.775				-.2703	-.2658			
.798		-.1916						
.808			-.2889					
.834	-.2160							
.839		-.2853						
.850				-.3511	-.2928	-.3346		
.857			-.3223					
.862								-.3255
.865	-.2675							
.879		-.3238						
.900	-.2567			-.4123			-.3538	
.905			-.4003					
.919		-.3411						
.950				-.4506	-.3856	-.4099		
.953			-.4160					
.955		-.3521						
.965	-.3944							
1.000			-.1542		-.2847		-.1687	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (2) = .013 BETA (1) = -3.903 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0026	.0085	.1987	-.1859	-.3057	-.2280	-.1371	
.020	.0000	-.0289	.1699	-.3329	-.3617	-.3725	-.4012	-.3386
.040		-.0232	-.0186					
.050	-.0388			-.2490	-.3443	-.3905	-.4109	
.069								-.3661
.080				-.2168				
.081			-.0536					
.086		.0154						
.094	-.0607							
.150				-.1462	-.2394	-.2827	-.3284	
.157								-.2506
.163		.0821						
.177			-.0691					
.229	-.0609							
.246		-.0377						
.250				-.0949	-.1124	-.2077	-.2739	
.274			-.0641					
.345								-.2238
.390		-.0491						
.400				-.0761	-.0812		-.1379	
.402			-.0608					
.503								-.1574
.550				-.0497	-.0594			
.565			-.4686					
.600							-.1159	
.637		-.0275						
.650						-.1065		
.670								-.2616
.700					-.1387			
.725				-.1302				
.750						-.1569	-.1928	
.760			-.1482					
.775				-.2026	-.2104			
.798		-.1389						
.808			-.2234					
.834	-.1580							
.839		-.2343						
.850				-.2969	-.2842	-.2899		
.857			-.2682					
.862								-.3494
.855	-.2060							
.879		-.2840						
.900	-.1808			-.3557			-.3434	
.905			-.3510					
.919		-.2962						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (2) = .013 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3895	-.3008	-.3878		
.953			-.3858					
.955		-.2878						
.965	-.2788							
1.000			-.0577		-.2018		-.2443	

ALPHA (2) = .017 BETA (2) = .152 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0450	-.0027	.2538	-.1674	-.3219	-.2665	-.1865	
.020	.0000	-.0139	.2176	-.2003	-.3139	-.3862	-.4359	-.3416
.040		-.0046	.0453					
.050	-.0579			-.1811	-.2970	-.3741	-.4361	
.069								-.3265
.080				-.1529				
.081			-.0079					
.086		.0407						
.094	-.0712							
.150				-.1070	-.1694	-.2501	-.3313	
.157								-.2346
.163		.1075						
.177			-.0425					
.229	-.0514							
.246		-.0089						
.250				-.0602	-.0902	-.0902	-.1260	
.274			-.0358					
.345								-.1193
.390		-.0091						
.400				-.0371	-.0384		-.0909	
.402			-.0229					
.503								-.1506
.550				-.0310	-.0355			
.565			-.4870					
.600							-.0999	
.637		-.0108						
.650						-.0917		
.670								-.2532
.700					-.1296			
.725				-.1191				
.750						-.1507	-.1883	
.760			-.1500					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (2) = .017 BETA (2) = 152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2013	-.2030			
.798		-.1423						
.808			-.2210					
.834	-.1507							
.839		-.2286						
.850				-.2911	-.2932	-.2869		
.857			-.2620					
.862							-.3421	
.865	-.2083							
.879		-.2810						
.900	-.1879			-.3583			-.3411	
.905			-.3483					
.919		-.2877						
.950				-.4007	-.3011	-.3870		
.953			-.3783					
.966		-.2932						
.965	-.3062							
1.000			-.0985		-.2217		-.1374	

ALPHA (2) = .013 BETA (3) = 4.217 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1254	-.0618	.2837	-.0517	-.2725	-.2762	-.2039	
.020	.0000	-.0396	.2561	-.0630	-.1883	-.3551	-.4321	-.1985
.040		-.0225	.1084					
.050	-.0916			-.1099	-.2359	-.2811	-.3576	
.069								-.1904
.080				-.0796				
.081			.0467					
.086		.0426						
.094	-.0940							
.150				-.0630	-.0993	-.1065	-.1255	
.157								-.1627
.163		.1208						
.177			-.0022					
.179	-.0581							
.196		.0314						
.250				-.0236	-.0549	-.0647	-.0961	
.274			.0062					
.345								-.1114
.390		.0188						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (2) = .013 BETA (3) = 4.217

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0062	.0036		-.0613	
.402			.0045					
.503								-.1312
.550				-.0143	-.0211			
.565			-.4320					
.600							-.0959	
.627		-.0041						
.650						-.0826		
.670								-.2629
.700					-.1225			
.725				-.1174				
.750						-.1528	-.1981	
.760			-.1487					
.775				-.2013	-.1950			
.798		-.1363						
.808			-.2140					
.834	-.1468							
.839		-.2182						
.850				-.2860	-.2648	-.2911		
.857			-.2547					
.892								-.3842
.865	-.2080							
.878		-.2713						
.900	-.1925			-.3544			-.3530	
.905			-.3400					
.919		-.2777						
.940				-.3980	-.3132	-.3840		
.943			-.3579					
.955		-.2880						
.965	-.3099							
1.000			-.1216		-.2511		-.1429	

ALPHA (3) = 3.907 BETA (1) = -3.907 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0335	-.0468	.4253	.2294	.1172	.1261	.1536	
.020	.0000	-.0079	.3833	.1215	.1002	.0418	-.0123	.0672
.040		.0171	.2106					
.050	.0340			.0414	-.0123	.0227	-.0033	
.069								.0254
.080				.0434				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8L09)

ALPHA (3) = 3.907 BETA (1) = -3.907

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1243					
.086		.0910						
.094	.0093							
.150				.0313	.0410	.0652	.0724	
.157								-.0999
.163		.1985						
.177			.0695					
.229	-.0097							
.246		.0714						
.250				.0576	.0592	.0693	.0359	
.274			.0657					
.345								-.0028
.390		.0669						
.400				.0619	.0813		.0440	
.402			.0562					
.503								-.0369
.550				.0593	.0717			
.565			-.5130					
.600							-.0144	
.637		.0612						
.650						-.0016		
.670								-.1903
.700					-.0561			
.725				-.0469				
.750						-.0680	-.1113	
.760			-.0775					
.775				-.1584	-.1304			
.798		-.0752						
.808			-.1370					
.834	-.0840							
.839		-.1658						
.850				-.2253	-.3191	-.2399		
.857			-.1997					
.862								-.2936
.865	-.1309							
.879		-.2264						
.900	-.1489			-.3012			-.2874	
.905			-.2848					
.919		-.2565						
.950				-.3670	-.2802	-.3569		
.963			-.3377					
.975		-.2278						
.985	-.2046							
1.000			-.0422		-.1182		-.2970	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (3) = 3.907 BETA (2) = .148 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0936	-.2337	.3608	.2814	.1488	.1490	.1794	
.020	.0000	-.1125	.3587	.1732	.1247	.0783	.0355	.0186
.040		-.0774	.2427					
.050	-.0254			.1041	.0286	.0616	.0444	-.0022
.069								
.080				.0866				
.081			.1453					
.086		.0548						
.094	-.0317							
.150				.0544	.0837	.0855	.0738	-.1135
.157								
.163		.1923						
.177			.0799					
.229	-.0274							
.246		.0839						
.250				.0815	.0719	.0760	.0382	
.274			.0944					-.0188
.345								
.350		.0816						
.400				.0863	.1057		.0647	
.402			.0801					-.0537
.503								
.550				.0790	.0858			
.585			-.5583				-.0201	
.600								
.637		.0794						
.650						.0009		-.2154
.670								
.700					-.0514			
.725				-.0394		-.0708	-.1186	
.750								
.760			-.0781					
.775				-.1416	-.1188			
.798		-.0737						
.808			-.1302					
.834	-.0825							
.839		-.1610						
.850				-.2204	-.3186	-.2400		
.857			-.1963					-.3265
.862								
.865	-.1418							
.879		-.2276						
.900	-.1569			-.2950			-.2940	
.905			-.2860					
.919		-.2475						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (EBL09)

ALPHA (3) = 3.907 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950					-.3640	-.2826	-.3547	
.953				-.3328				
.955			-.2346					
.965	-.2041							
1.000				-.0898		-.1236		-.2586

ALPHA (3) = 3.911 BETA (3) = 4.207 MACH = 1.2463 Q = 599.87 P = 551.57 RN/L = 3.0276

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2535	-.3696	.2729	.3420	.1975	.2157	.2385	
.020	.0000	-.2223	.3189	.2345	.1675	.1594	.1082	-.0490
.040		-.1727	.2571					
.050	-.0999			.1665	.0796	.1018	.1053	
.069								-.0352
.080				.1311				
.081			.1681					
.086		.0039						
.094	-.0799							
.150				.0948	.1115	.1075	.0997	
.157								-.1243
.163		.1665						
.177			.1063					
.229	-.0642							
.246		.0925						
.250				.1037	.0909	.0985	.0672	
.274			.1152					
.305								-.0560
.310		.1028						
.400				.1113	.1307		.0863	
.402			.1068					
.503								-.0930
.550				.0877	.0914			
.565			-.4890					
.600							-.0273	
.637		.0810						
.650						.0000		
.670								-.2450
.700					-.0538			
.725				-.0392				
.750						-.0927	-.1277	
.760			-.0775					

AMES 11-073(OA148) -140A/B'C/R ORB LEFT WING BOT (XEBL09)

ALPHA (3) = 3.911 BETA (3) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1376	-.1188			
.798		-.0720						
.808			-.1268					
.834	-.0780							
.839		-.1500						
.850				-.2136	-.3220	-.2454		
.857			-.1936					
.862							-.3666	
.865	-.1471							
.879		-.2173						
.900	-.1442			-.2928		-.3196		
.905			-.2824					
.919		-.2250						
.950				-.3609	-.2875	-.3577		
.953			-.30[illegible]					
.955		-.2317						
.965	-.2105							
1.000			-.1270		-.1490		-.2321	

ALPHA (4) = 7.933 BETA (1) = -3.903 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0348	-.2389	.3984	.5375	.4795	.5587	.5739	
.020	.0000	-.0669	.4516	.4064	.4179	.4373	.4527	.0810
.040		-.0211	.3679					
.050	.0626			.3086	.3026	.3367	.3752	
.069								.1209
.080				.2506				
.081			.2701					
.086		.1230						
.094	.0624							
.150				.2112	.2686	.2949	.2840	
.157								-.0604
.163		.2890						
.177			.2005					
.229	.0519							
.246		.1726						
.250				.2118	.2258	.2683	.2303	
.274			.1945					
.345								.0733
.370		.1805						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (4) = 7.933 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2080	.2813		.2188	
.402			.1933					
.503								.0331
.550				.1892	.1785			
.565			-.5384					
.600							.0650	
.637		.1642						
.650						.0937		
.670								-.1372
.700					.0206			
.725				.0326				
.750						-.0086	-.0547	
.760			-.0046					
.775				-.0880	-.0610			
.798		-.0014						
.808			-.0600					
.834	-.0024							
.839		-.1002						
.850				-.1579	-.2987	-.1902		
.857			-.1303					
.862								-.2643
.865	-.0611							
.879		-.1708						
.900	-.1090			-.2501			-.2338	
.905			-.2274					
.919		-.2051						
.930				-.3292	-.2819	-.3194		
.953			-.2899					
.965		-.1902						
.965	-.1256							
1.000			-.0831		-.2478		-.4702	

ALPHA (4) = 7.889 BETA (2) = .143 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2206	-.4711	.2189	.5445	.4931	.5453	.5564	
.020	.0000	-.2102	.3332	.4349	.4388	.4498	.4579	-.0475
.040		-.1488	.3215					
.050	-.0253			.3431	.3319	.3459	.3812	
.069								.0151
.080				.2818				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL09)

ALPHA (4) = 7.889 BETA (2) = .143

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	9870	.9720
X/CW								
.081			.2485					
.086		.0300						
.094	-.0010							
.150				.2433	.2779	.2978	.2960	
.157								-.0920
.163		.2329						
.177			.2120					
.229	.0207							
.246		.1479						
.250				.2201	.2448	.2804	.2291	
.274			.2132					
.345								.0222
.390		.1927						
.400				.2294	.2832		.2081	
.402			.2046					
.503								-.0075
.550				.2028	.1917			
.565			-.5691					
.600							.0559	
.637		.1842						
.650						.0889		
.670								-.1746
.700					.0247			
.725				.0409				
.750						-.0210	-.0695	
.760			-.0020					
.775				-.0661	-.0521			
.798		.0084						
.808			-.0473					
.834	.0016							
.839		-.0890						
.850				-.1500	-.3008	-.1917		
.857			-.1299					
.862								-.3137
.865	-.0715							
.879		-.1690						
.900	-.0959			-.2353			-.2530	
.905			-.2286					
.919		-.1898						
.950				-.3250	-.2833	-.3184		
.953			-.2697					
.955		-.1910						
.965	-.1450							
1.000			-.1327		-.1803		-.4482	

REPRODUCIBILITY OF THE
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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (4) = 7.857 BETA (3) = 4.208 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4021	-.5354	.0577	.5118	.4731	.5159	.5269	
.020	.0000	-.3142	.1979	.4269	.4272	.4427	.4601	-.1993
.040		-.2459	.2561					
.050	-.1104			.3463	.3360	.3505	.3882	
.069								-.0953
.080				.2852				
.081			.2024					
.086		-.0426						
.094	-.0636							
.150				.2475	.2793	.3112	.2932	
.157								-.1307
.163		.1755						
.177			.1976					
.229	-.0198							
.246		.1247						
.250				.2240	.2673	.2921	.2303	
.274			.2170					
.345								-.0269
.390		.1946						
.400				.2373	.2747		.1971	
.402			.2160					
.503								-.0561
.550				.1932	.1900			
.565			-.5309					
.600							.0454	
.637		.1829						
.650						.0731		
.670								-.2157
.700					.0237			
.725				.0390				
.750						-.0356	-.0929	
.760			-.0015					
.775				-.0566	-.0524			
.798		.0041						
.808			-.0437					
.834	-.0052							
.839		-.0837						
.850				-.1407	-.3005	-.1958		
.857			-.1267					
.862								-.3519
.865	-.0784							
.879		-.1556						
.900	-.0841			-.2334			-.2707	
.905			-.2223					
.919		-.1745						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (4) = 7.857 BETA (3) = 4.208

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3128	-.2623	-.3094		
.953			-.2419					
.955		-.1939						
.965	-.1692							
1.000			-.1467		-.1615		-.4451	

ALPHA (5) = 11.893 BETA (1) = -3.885 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1773	-.4125	.2936	.6905	.6889	.7391	.7288	
.020	.0000	-.1156	.4422	.6014	.6336	.6687	.6686	-.0399
.040		-.0466	.4613					
.050	.0712			.4964	.5275	.5696	.5821	
.069								.0726
.080				.4365				
.081			.3974					
.086		.1496						
.094	.0975							
.150				.3937	.4510	.4910	.4442	
.157								-.0540
.163		.3730						
.177			.3394					
.229	.1187							
.246		.2761						
.250				.3700	.4181	.4349	.3730	
.274			.3334					
.345								.1175
.390		.3116						
.400				.3674	.3941		.3245	
.402			.3551					
.446								.0860
.450				.2930	.2978			
.465			-.5751					
.480							.1590	
.497		.4145						
.650						.1748		
.670								-.0996
.700					.1022			
.725				.1096				
.750						.0588	-.0009	
.760			.0570					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (5) = 11.893 BETA (1) = -3.885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0089	.0024			
.798		.0707						
.808			.0114					
.834	.0596							
.839		-.0470						
.850				-.0935	-.2471	-.1248		
.857			-.0687					
.862								-.2443
.865	-.0092							
.879		-.1282						
.900	-.0368			-.1936			-.1782	
.905			-.1794					
.919		-.1342						
.950				-.2789	-.2593	-.2645		
.953			-.2359					
.955		-.1462						
.965	-.0854							
1.000			-.1777		-.3111		-.5448	

ALPHA (5) = 11.849 BETA (2) = .145 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3524	-.4968	.1036	.6225	.6371	.6623	.6446	
.020	.0000	-.2228	.2778	.5673	.6085	.6315	.6209	-.1986
.040		-.1525	.3707					
.050	-.0178			.4847	.5271	.5468	.5557	
.069								-.0412
.080				.4271				
.081			.3402					
.086		.0679						
.094	.0384							
.150				.3868	.4498	.4771	.4304	
.157								-.0946
.163		.3012						
.177			.3271					
.229	.0815							
.246		.2328						
.253				.3756	.4086	.4287	.3569	
.274			.3369					
.345								.0555
.390		.3150						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (5) = 11.949 BETA (2) = .145

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3632	.3856		.3037	
.402			.3635					
.503								.0364
.550				.2910	.2865			
.565			-.5949					
.600							.1341	
.637		.2807						
.650						.1556		
.670								-.1338
.700					.1107			
.725				.1137				
.750						.0514	-.0159	
.760			.0657					
.775				.0159	.0139			
.798		.0740						
.808			.0217					
.834	.0643							
.839		-.0327						
.850				-.0766	-.2536	-.1354		
.857			-.0693					
.862								-.2797
.865	-.0156							
.879		-.1171						
.900	-.0356			-.1828			-.1886	
.905			-.1799					
.919		-.1278						
.950				-.2734	-.2347	-.2483		
.953			-.2011					
.955		-.1496						
.965	-.1032							
1.000			-.2144		-.2531		-.5638	

ALPHA (5) = 11.848 BETA (3) = 4.220 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4749	-.5549	-.0975	.5198	.5542	.5573	.5393	
.020	.0000	-.3399	.1191	.5080	.5532	.5785	.5530	-.3267
.040		-.2636	.2742					
.050	-.1042			.4530	.5046	.5219	.5151	
.063								-.1481
.080				.4078				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L09)

ALPHA (5) = 11.848 BETA (3) = 4.220

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2496					
.086		-.0216						
.094	-.0378							
.150				.3704	.4399	.4833	.4025	
.157								-.1445
.163		.2277						
.177			.2995					
.229	.0278							
.246		.1850						
.250				.3681	.3974	.4096	.3406	
.274			.3341					
.345								-.0056
.390		.3096						
.400				.3447	.3672		.2793	
.402			.3467					
.503								-.0145
.550				.2764	.2693			
.565			-.5486					
.600							.1119	
.637		.2666						
.650						.1408		
.670								-.1603
.700					.1066			
.725				.1058				
.750						.0372	-.0325	
.760			.0540					
.775				.0146	.0092			
.798		.0661						
.808			.0127					
.834	.0526							
.839		-.0370						
.850				-.0845	-.2794	-.1511		
.857			-.0782					
.862								-.3023
.865	-.0278							
.879		-.1048						
.900	-.0385			-.1836			-.2145	
.905			-.1669					
.919		-.1302						
.950				-.2682	-.2221	-.2485		
.953			-.1908					
.955		-.1587						
.965	-.1434							
1.000			-.2430		-.2017		-.5520	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 930.0080 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000
BDFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (I) = -4.037 BETA (I) = -3.883 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1843	-.3456	-.3007	-.6267	-.7582	-.5711	-.5591	
.020	.0000	-.3189	-.4011	-.7830	-.7992	-.8169	-.8216	-.8527
.040		-.3005	-.4250					
.050	-.1883			-.7341	-.8156	-.8502	-.8487	
.069								-.9455
.080				-.7142				
.081			-.3052					
.086		-.1480						
.094	-.1950							
.150				-.4830	-.7148	-.7470	-.7773	
.157								-.5549
.163		-.0750						
.177			-.2537					
.229	-.1624							
.246		-.1409						
.250				-.2780	-.5967	-.6845	-.7110	
.274			-.2079					
.345								-.8933
.390		-.1502						
.400				-.1733	-.1717		-.6296	
.402			-.1330					
.503								-.8900
.560				-.1368	-.1621			
.585			-.4787					
.600							-.3144	
.637		-.1117						
.650						-.1720		
.670								-.7896
.700					-.2501			
.725				-.2614				
.750						-.2632	-.2726	
.760			-.2735					
.775				-.3660	-.3251			
.798		-.2514						
.808			-.3813					
.834	-.2623							
.839		-.3819						
.850				-.4431	-.3885	-.3949		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (1) = -4.037 BETA (1) = -3.883

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.4281					
.862								-.5766
.865	-.3591							
.879		-.4389						
.900	-.3200			-.5035			-.4099	
.905			-.4927					
.919		-.4339						
.950				-.1903	-.4809	-.4284		
.953			-.1576					
.955		-.1148						
.965	-.1705							
1.000			-.0540		-.1380		-.1003	

ALPHA (1: = -4.035 BETA (2) = .155 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1391	-.1678	-.1268	-.6183	-.7789	-.6123	-.6186	
.020	.0000	-.1701	-.1435	-.7713	-.8170	-.8447	-.8621	-.9166
.040		-.1542	-.2564					
.050	-.1353			-.6863	-.8249	-.8755	-.8895	
.069								-.9269
.080				-.6454				
.081			-.1864					
.096		-.0449						
.094	-.1385							
.150				-.2928	-.6943	-.7701	-.7998	
.157								-.5502
.163		.0271						
.177			-.1821					
.229	-.1130							
.246		-.0836						
.250				-.1885	-.2371	-.6310	-.7386	
.274			-.1339					
.345								-.8883
.390		-.0933						
.400				-.1268	-.1299		-.4032	
.402			-.1089					
.503								-.7882
.550				-.1292	-.1559			
.565			-.5732					
.600							-.1680	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (1) = -4.035 BETA (2) = .155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.1107						
.650						-.1838		
.670								-.4700
.700					-.2589			
.725				-.2559				
.750						-.2744	-.2569	
.760			-.2746					
.775				-.3601	-.3331			
.798		-.2437						
.808			-.3739					
.834	-.2466							
.839		-.3571						
.850				-.4503	-.4342	-.4094		
.857			-.4118					
.862								-.5132
.855	-.3346							
.879		-.4203						
.900	-.3174			-.5186			-.4338	
.905			-.5065					
.919		-.4390						
.950				-.3458	-.4731	-.4909		
.953			-.2290					
.955		-.2876						
.965	-.4251							
1.000			-.1027		-.1957		-.1673	

ALPHA (1) = -4.042 BETA (3) = 4.235 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1287	-.0714	.0319	-.5873	-.7882	-.6473	-.6617	
.020	.0000	-.0664	.0085	-.7142	-.8230	-.8642	-.8888	-.8515
.040		-.0470	-.1128					
.050	-.1112			-.5876	-.7620	-.8551	-.8814	
.069								-.8075
.080				-.2929				
.081			-.0834					
.086		.0363						
.094	-.1128							
.150				-.2227	-.3243	-.6545	-.8123	
.157								-.4493
.163		.1042						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (1) = -4.042 BETA (3) = 4.235

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1099					
.229	-.0718							
.246		-.0016						
.250				-.1469	-.2052	-.2731	-.5050	
.274			-.0762					
.345								-.6074
.390		-.0410						
.400				-.1169	-.1290		-.2300	
.402			-.0870					
.503								-.5166
.540				-.1414	-.1617			
.565			-.4617					
.600							-.2135	
.637		-.1199						
.650						-.2104		
.670								-.3813
.700					-.2825			
.725				-.2677				
.750						-.2922	-.3178	
.760			-.2963					
.775					-.3732	-.3587		
.798		-.2520						
.808			-.3851					
.834	-.2650							
.839		-.3770						
.850				-.4665	-.4745	-.4393		
.857			-.4195					
.862								-.4338
.865	-.3662							
.879		-.4257						
.900	-.3428			-.5376			-.4634	
.905			-.5128					
.919		-.4237						
.950				-.5550	-.4750	-.5376		
.953			-.4713					
.966		-.4503						
.965	-.4938							
1.000			-.1574		-.2612		-.2037	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (2) = .020 BETA (1) = -3.899 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0542	-.0184	.2064	-.3378	-.4823	-.4087	-.3122	
.020	.0000	-.0516	.1210	-.4898	-.5650	-.5650	-.6086	-.4502
.040		-.0347	-.0727					
.050	-.0932			-.3181	-.4778	-.5681	-.6103	
.069								-.4289
.080				-.2600				
.081			-.0696					
.086		.0123						
.094	-.1114							
.150				-.1956	-.2199	-.3937	-.4810	
.157								-.2291
.163		.0794						
.177			-.0908					
.229	-.0807							
.246		-.0409						
.250				-.0757	-.0970	-.1037	-.1061	
.274			-.0508					
.345								-.1057
.300		-.0196						
.400				-.0075	-.0049		-.0340	
.402			-.0064					
.503								-.1547
.550				-.0124	-.0491			
.565			-.5372					
.600							-.1281	
.637		-.0120						
.650						-.0960		
.670								-.3083
.700					-.1602			
.725				-.1666				
.750						-.2143	-.2730	
.760			-.2015					
.775				-.2514	-.2523			
.798		-.1785						
.808			-.3020					
.834	-.1891							
.839		-.3125						
.850				-.3777	-.3072	-.3753		
.857			-.3525					
.862								-.4056
.865	-.2744							
.879		-.3676						
.900	-.2539			-.4394			-.4315	
.905			-.4425					
.919		-.3731						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (2) = .020 BETA (1) = -3.899

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2099	-.4747	-.3889		
.953			-.1049					
.955		-.1371						
.965	-.2778							
1.000			-.0097		-.1477		-.0703	

ALPHA (2) = .025 BETA (2) = .152 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1064	-.0158	.2771	-.2753	-.4618	-.4283	-.3309	
.020	.0000	-.0222	.2084	-.2613	-.4237	-.5502	-.6049	-.2220
.040		-.0067	.0526					
.050	-.1080			-.2266	-.3720	-.4602	-.4883	
.069								-.2111
.080				-.1524				
.081			-.0025					
.086		.0508						
.094	-.1131							
.150				-.1136	-.1012	-.0686	-.1257	
.157								-.1715
.163		.1485						
.177			-.0378					
.223	-.0704							
.246		.0107						
.250				-.0399	-.0686	-.0653	-.1178	
.274			-.0054					
.3[illegible]								-.1131
.390		.0162						
.400				-.0063	.0331		-.0219	
.402			.0010					
.503								-.1656
.550				-.0189	-.0386			
.565			-.6470					
.610							-.1493	
.637		-.0184						
.650						-.1152		
.670								-.3167
.700					-.1695			
.725				-.1665				
.750						-.2271	-.2857	
.760			-.1994					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L10)

ALPHA (2) = .025 BETA (2) = .152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2598	-.2594			
.798		-.1686						
.808			-.2955					
.834	-.1853							
.839		-.2991						
.850				-.3741	-.3449	-.3953		
.857			-.3449					
.862								-.4136
.865	-.2675							
.879		-.3648						
.900	-.2499			-.4475			-.4376	
.905			-.4442					
.919		-.3734						
.950				-.2712	-.4571	-.4932		
.953			-.1951					
.955		-.3118						
.965	-.3710							
1.000			-.0390		-.1469		-.1202	

ALPHA (2) = .023 BETA (3) = 4.214 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2059	-.0459	.3497	-.0805	-.3156	-.3563	-.2941	
.020	.0000	-.0158	.2923	-.0995	-.2453	-.3552	-.4653	-.1670
.040		.0085	.1467					
.050	-.1553			-.0901	-.2330	-.2697	-.3399	
.069								-.1814
.080				-.0708				
.081			.0810					
.086		.0912						
.094	-.1201							
.150				-.0273	-.0492	-.0851	-.1232	
.157								-.1864
.163		.2009						
.177			.0450					
.229	-.0611							
.246		.0781						
.250				.0032	-.0468	-.0633	-.1093	
.274			.0514					
.345								-.1458
.390		.0676						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (2) = .023 BETA (3) = 4.214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0208	.0169		-.0476	
.402			.0367					
.503								-.2022
.550				-.0369	-.0578			
.565			-.5370					
.600							-.1806	
.637		-.0173						
.650						-.1478		
.670								-.3535
.700					-.2051			
.725				-.1895				
.750						-.2630	-.3146	
.760			-.2094					
.775				-.2901	-.2918			
.798		-.1778						
.808			-.2959					
.834	-.1884							
.839		-.2957						
.850				-.3932	-.4148	-.4263		
.857			-.3433					
.862								-.4068
.865	-.2767							
.879		-.3558						
.900	-.2660			-.4766			-.4828	
.905			-.4483					
.919		-.3716						
.950				-.5036	-.4220	-.5285		
.953			-.4362					
.955		-.3929						
.965	-.3812							
1.000			-.0841		-.2154		-.1857	

ALPHA (3) = 3.934 BETA (1) = -3.903 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0329	-.0698	.4578	.1926	.0894	.1793	.2284	
.020	.0000	-.0095	.4032	.0618	.0848	.0899	.0872	.0624
.040		.0158	.2321					
.050	-.0270			.0380	.0248	.0581	.0898	
.069								.0299
.090				.0363				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (3) = 3.934 BETA (1) = -3.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1247					
.086		.1166						
.094	-.0500							
.150				.0908	.1157	.1269	.0913	
.157								-.1027
.163		.2266						
.177			.0618					
.229	-.0490							
.246		.0782						
.250				.1289	.1301	.1221	.0595	
.274			.1382					
.345								-.0306
.390		.1509						
.400				.1512	.1579		.0765	
.402			.1737					
.503								-.0943
.550				.0772	.0553			
.565			-.6007					
.600							-.0790	
.637		.0899						
.650						-.0360		
.670								-.2587
.700					-.1100			
.725				-.0967				
.750						-.1488	-.2056	
.760			-.1353					
.775				-.2015	-.2126			
.798		-.1212						
.808			-.2242					
.834	-.1324							
.839		-.2387						
.850				-.3295	-.3410	-.3380		
.857			-.2845					
.862								-.4000
.865	-.2068							
.879		-.3167						
.900	-.2054			-.4055			-.3883	
.905			-.3934					
.919		-.3220						
.950				-.3605	-.3875	-.4682		
.953			-.1799					
.955		-.2523						
.965	-.3114							
1.000			.0174		-.1270		-.2204	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L10)

ALPHA (3) = 3.940 BETA (2) = .149 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1687	-.2058	.4300	.2768	.1652	.2488	.2856	
.020	.0000	-.0923	.4145	.1532	.1387	.1587	.1616	-.0028
.040		-.0517	.2894					
.050	-.0913			.1243	.0813	.1183	.1437	
.060								-.0083
.080				.1017				
.081			.1824					
.086		.0940						
.094	-.0922							
.150				.1265	.1445	.1485	.1054	
.157								-.1186
.163		.2552						
.177			.1340					
.229	-.0600							
.246		.1312						
.250				.1347	.1428	.1446	.0673	
.274			.1464					
.345								-.0678
.390		.1833						
.400				.1523	.1625		.0692	
.402			.1650					
.503								-.1257
.550				.0869	.0582			
.565			-.7021					
.600							-.0880	
.637		.0997						
.650						-.0530		
.670								-.2947
.700					-.1142			
.714				-.0958				
.750						-.1341	-.2275	
.760			-.1322					
.775				-.2054	-.2004			
.798		-.1141						
.808			-.2091					
.834	-.1794							
.839		-.2309						
.850				-.3124	-.3220	-.3500		
.857			-.2745					
.862								-.4470
.865	-.2119							
.879		-.3035						
.900	-.2036			-.3998			-.4143	
.905			-.3877					
.919		-.3083						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L10)

ALPHA (3) = 3.940 BETA (2) = .149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3934	-.3667	-.4495		
.953			-.3514					
.955		-.3045						
.955	-.2870							
1.000			.0041		-.1022		-.2461	

ALPHA (3) = 3.944 BETA (3) = 4.204 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3700	-.3393	.3870	.3712	.2572	.3032	.3160	
.020	.0000	-.1867	.4111	.2682	.2239	.2163	.2038	-.1398
.040		-.1334	.3305					
.050	-.1791			.2160	.1563	.1565	.1500	
.059								-.1047
.080				.1864				
.081			.2373					
.086		.0625						
.094	-.1519							
.150				.1722	.1614	.1641	.1070	
.157								-.1678
.163		.2754						
.177			.1942					
.223	-.0871							
.245		.1709						
.250				.1603	.1453	.1467	.0592	
.274			.1787					
.345								-.1425
.390		.1826						
.400				.1443	.1532		.0491	
.402			.1713					
.503								-.1765
.550				.0786	.0485			
.565			-.6164					
.600							-.1087	
.637		.0750						
.650						-.0755		
.670								-.3394
.700					-.1213			
.725				-.1039				
.750						-.1618	-.2434	
.760			-.1441					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L10)

ALPHA (3) = 3.944 BETA (3) = 4.204

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2168	-.2093			
.798		-.1169						
.808			-.2156					
.834	-.1304							
.839		-.2366						
.850				-.3139	-.3570	-.3627		
.857			-.2835					
.862								-.4874
.865	-.2228							
.879		-.3043						
.900	-.2233			-.4108			-.4335	
.905			-.3881					
.919		-.3213						
.950				-.4605	-.3796	-.4565		
.953			-.4084					
.955		-.3340						
.965	-.3035							
1.000			-.0509		-.1495		-.3168	

ALPHA (4) = 7.882 BETA (1) = -3.899 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1288	-.3889	.4545	.5930	.5545	.6165	.5950	
.020	.0000	-.1587	.5254	.4810	.4943	.5062	.4940	-.0293
.040		-.1017	.4535					
.050	.0006			.3860	.3928	.4007	.3983	
.069								.0325
.080				.3352				
.081			.3532					
.086		.0915						
.094	.0016							
.150				.3096	.3335	.3370	.2759	
.157								-.0992
.163		.3448						
.177			.2931					
.229	.0038							
.246		.2638						
.250				.2918	.2876	.2814	.2120	
.274			.2916					
.345								-.0013
.370		.2813						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L10)

ALPHA (1) = 7.882 BETA (1) = -3.899

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2613	.2590		.1718	
.407			.2859					
.433								-.0433
.450				.1647	.1488			
.496			-.6623					
.500							-.0080	
.537		.1631						
.550						.0231		
.570								-.2140
.700					-.0597			
.736				-.0359				
.750						-.0968	-.1746	
.780			-.0857					
.775				-.1553	-.1680			
.798		-.0713						
.809			-.1549					
.834	-.0775							
.839		-.1948						
.850				-.2661	-.4210	-.2869		
.857			-.2254					
.952								-.3603
.955	-.1605							
.879		-.2758						
.900	-.1340			-.3760			-.3441	
.925			-.3500					
.919		-.2523						
.950				-.4517	-.3902	-.4487		
.953			-.3679					
.955		-.2657						
.965	-.2527							
1.000			-.0023		-.1781		-.4171	

ALPHA (1) = 7.887 BETA (2) = .144 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3338	-.6414	.3171	.5999	.5515	.5969	.5676	
.020	.0000	-.3179	.4492	.5033	.5125	.5066	.4934	-.1670
.049		-.2388	.4516					
.050	-.0967			.4143	.4110	.4070	.4052	
.069								-.0790
.080				.3590				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (4) = 7.887 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3744					
.086		.0062						
.094	-.0560							
.150				.3236	.3357	.3369	.2735	
.157								-.1271
.163		.3463						
.177			.3240					
.229	-.0329							
.246		.2748						
.250				.2999	.2940	.2879	.2065	
.274			.2966					
.345								-.0500
.390		.2915						
.400				.2625	.2550		.1585	
.402			.2873					
.503								-.0807
.550				.1653	.1465			
.565			-.7383					
.600							-.0178	
.637		.1672						
.650						.0106		
.670								-.2606
.700					-.0406			
.725				-.0313				
.750						-.0984	-.1833	
.760			-.0737					
.775				-.1463	-.1614			
.798		-.0593						
.808			-.1438					
.834	-.0667							
.839		-.1772						
.850				-.2516	-.4198	-.3072		
.857			-.2142					
.862								-.4038
.865	-.1620							
.879		-.2497						
.900	-.1332			-.3678			-.3500	
.905			-.3289					
.919		-.2394						
.950				-.4444	-.3704	-.4296		
.953			-.3411					
.955		-.2588						
.965	-.2339							
1.000			.0138		-.0886		-.4507	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (4) = 7.868 BETA (3) = 4.206 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5661	-.4631	.1717	.5819	.5316	.5363	.5077	
.020	.0000	-.3631	.3361	.5194	.4916	.4843	.4503	-.3488
.040		-.2970	.4089					
.050	-.1998			.4390	.4059	.3983	.3736	
.069								-.2048
.080				.3854				
.081			.3718					
.086		-.0408						
.094	-.1418							
.150				.3355	.3339	.3315	.2525	
.157								-.1760
.163		.3110						
.177			.3328					
.229	-.0797							
.246		.2734						
.250				.2914	.2868	.2780	.1866	
.274			.3014					
.345								-.1332
.390		.2899						
.400				.2418	.2463		.1353	
.402			.2684					
.503								-.1426
.550				.1532	.1336			
.565			-.6720					
.600							-.0421	
.637		.1531						
.650						-.0133		
.670								-.3087
.700					-.0428			
.725				-.0364				
.750						-.1122	-.2041	
.760			-.0924					
.775				-.1519	-.1533			
.798		-.0693						
.808			-.1532					
.834	-.0831							
.839		-.1984						
.850				-.2484	-.4055	-.3178		
.857			-.2296					
.862								-.4592
.865	-.1765							
.879		-.2561						
.900	-.1782			-.3618			-.3781	
.905			-.3339					
.919		-.2767						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (4) = 7.888 BETA (3) = 4.206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4366	-.3275	-.4174		
.953			-.3557					
.955		-.2962						
.965	-.2613							
1.000			-.0336		-.1195		-.5161	

ALPHA (5) = 11.921 BETA (1) = -3.873 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2909	-.5750	.2356	.7349	.7342	.7266	.6807	
.020	.0000	-.2098	.4553	.6863	.7054	.6950	.6545	-.2009
.040		-.1250	.5571					
.050	.0101			.5963	.6121	.6042	.5769	
.069								-.0456
.080				.5319				
.081			.5132					
.086		.1876						
.094	.0606							
.150				.4745	.4915	.4952	.4183	
.157								-.1053
.163		.4578						
.177			.4539					
.229	.0798							
.246		.3899						
.250				.4305	.4270	.4170	.3402	
.274			.4179					
.345								.0516
.390		.3975						
.400				.3600	.3601		.2584	
.402			.3824					
.503								.0082
.550				.2470	.2289			
.565			-.7100					
.600							.0739	
.637		.2472						
.650						.1110		
.670								-.1678
.700					.0463			
.725				.0426				
.750						-.0267	-.1032	
.760			-.0184					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (5) = 11.921 BETA (1) = -3.873

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775								
.798		-.0041		-.0666	-.0969			
.808			-.0780					
.834	-.0115							
.839		-.1312						
.850				-.1892	-.3787	-.2310		
.857			-.1493					
.862								
.865	-.1001						-.3266	
.879		-.2211						
.900	-.1041			-.3244				
.905			-.2910			-.2784		
.919		-.2044						
.950				-.3934	-.3077	-.3759		
.953			-.3077					
.955		-.2316						
.965	-.1783							
1.000			-.0530		-.2873		-.5367	

ALPHA (5) = 11.930 BETA (2) = .146 MACH = 1.0991 Q = 599.16 P = 709.60 RN/L = 3.1919

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4992	-.6506	-.0066	.6567	.6668	.6380	.5870	
.040	.0000	-.3353	.2716	.6524	.6618	.6489	.5972	-.3523
.040		-.2481	.4566					
.050	-.0972							
.069				.5842	.6020	.5800	.5441	
.080								-.1571
.091				.5341				
.095			.4771					
.096		.0655						
.096	-.0229							
.150								
.157				.4705	.4912	.4840	.4002	
.163		.4060						-.1356
.177			.4466					
.229	.0369							
.246		.3693						
.250				.4246	.4212	.4051	.3204	
.274			.4159					
.345								
.390		.3939						-.0112

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (5) = 11.930 BETA (2) = .146

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3558	.3531		.2363	
.402			.3759					
.503								-.0391
.550				.2473	.2221			
.565			-.7504					
.600							.0536	
.637		.2495						
.650						.1002		
.670								-.2152
.700					.0407			
.725				.0442				
.750						-.0374	-.1153	
.760			-.0125					
.775				-.0634	-.0917			
.798		-.0020						
.808			-.0707					
.834	-.0105							
.839		-.1251						
.850				-.1832	-.3883	-.2659		
.857			-.1493					
.862								-.3789
.865	-.1067							
.879		-.1897						
.900	-.0828			-.3154			-.3038	
.905			-.2550					
.919		-.1866						
.950				-.3987	-.3161	-.3600		
.953			-.2819					
.955		-.2232						
.965	-.1852							
1.000			-.0421		-.2160		-.5877	

ALPHA (5) = 11.928 BETA (3) = 4.214 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6577	-.6890	-.1573	.5733	.5769	.5096	.4670	
.020	.0000	-.4715	.1521	.6043	.5889	.5713	.5043	-.4862
.040		-.3771	.4053					
.050	-.1986			.5599	.5505	.5295	.4776	
.069								-.2790
.080				.5084				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL10)

ALPHA (5) = 11.928 BETA (3) = 4.214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.4462					
.086		-.0257						
.094	-.1098							
.150				.4480	.4605	.4522	.3569	
.157								-.1986
.163		.3685						
.177			.4299					
.229	-.0243							
.246		.3467						
.250				.3916	.3951	.3806	.2874	
.274			.3974					
.345								-.1016
.390		.3783						
.400				.3266	.3309		.2046	
.402			.3513					
.503								-.1080
.550				.2314	.2051			
.555			-.7170					
.600							.0210	
.647		.2271						
.650						.0771		
.670								-.2659
.700					.0307			
.725				.0350				
.750						-.0539	-.1401	
.760			-.0373					
.775				-.0813	-.0968			
.798		-.0139						
.808			-.0852					
.834	-.0329							
.839		-.1401						
.850				-.1907	-.3948	-.2840		
.857			-.1692					
.862								-.4302
.865	-.12?3							
.879		-.1929						
.900	-.1213			-.3184			-.3387	
.905			-.2632					
.919		-.2169						
.950				-.3930	-.3215	-.3670		
.953			-.2976					
.955		-.2500						
.965	-.2225							
1.000			-.1298		-.1967		-.6373	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = [illegible] IN. YMRP = .0000 IN. YO
BREF = [illegible] IN. ZMRP = 575.0000 IN. ZO
SCALE = .1600

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000
BOFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (I) = -4.067 BETA (I) = -3.873 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.3030	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1386	-.3077	-.5104	-1.0973	-1.2690	-1.0298	-1.0527	
.020	.0000	-.2599	-.5466	-1.2728	-1.3262	-1.3417	-1.3514	-1.3525
.040		-.2392	-.6795					
.050	-.1344			-1.1715	-1.3241	-1.3822	-1.3838	
.069								-1.2292
.080				-1.0808				
.091			-.4850					
.095		-.1191						
.094	-.1223							
.150				-.6377	-1.1631	-1.2353	-1.2647	
.157								-.6299
.163		-.1735						
.177			-.4745					
.229	-.0572							
.240		-.2181						
.250				-.4140	-.5097	-.9764	-1.1995	
.274			-.3816					
.345								-.6638
.350		-.3405						
.400				-.2782	-.2737		-.4066	
.402			-.2584					
.503								-.6053
.540				-.3159	-.2559			
.545			-.7812					
.600							-.2150	
.637		-.2927						
.650						-.2400		
.670								-.4272
.700						-.2979		
.725				-.3255				
.750						-.4111	-.3465	
.760			-.2872					
.775				-.4725	-.3698			
.798		-.2717						
.808			-.4907					
.834	-.2662							
.839		-.3631						
.900				-.2747	-.2799	-.2414		

AMES 11-073(OA148) OA/B/C W ORB LEFT WING BOT (XEPL11)

ALPHA (1) = -4.067 BETA (1) = -3.873

SECTION (1)LEFT WING BOT SURF DEPENDENT V'.. BL

2Y/BW	.2990	.3640	.4270	.5340	.6730		.8720
X/CW							
.857			-.2270				
.862							-.3519
.865	-.3526						
.879		-.1778					
.900	-.1398			-.1381			
.905			-.1060				
.919		-.0778					
.950				-.0218	-.1730		
.953			-.0026				
.955		-.0066					
.965	-.0059						
1.000			.0689		.0076	.0345	

ALPHA (1) = -4.047 BETA (2) = .148 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6750	.7800	.8870	.9720
X/CW								
.010	-.0471	-.1294	-.3287	-1.0863	-1.2910	-1.0765	-1.1151	
.020	.0000	-.1011	-.3865	-1.2475	-1.3440	-1.3714	-1.1502	-.6547
.040		-.0795	-.4803					
.050	-.0596			-1.1220	-1.2812	-1.3036	-1.1274	
.069								-.5867
.080				-.7275				
.081			-.3977					
.086		-.0301						
.094	-.0549							
.150				-.5064	-.6963	-1.0473	-.9495	
.157								-.3669
.163		-.0932						
.177			-.3991					
.229	-.0059							
.246		-.2537						
.250				-.3703	-.4064	-.6730	-.8143	
.274			-.3173					
.345								-.4369
.390		-.2866						
.400				-.2579	-.2844		-.6213	
.402			-.2316					
.503								-.3953
.550				-.3138	-.3273			
.565			-.7395					
.600							-.3557	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (1) = -4.047 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2876						
.650						-.3068		
.670								-.3273
.700					-.3716			
.725				-.3791				
.750						-.4245	-.3240	
.760			-.3178					
.775				-.5082	-.4013			
.798		-.3042						
.808			-.4782					
.834	-.3101							
.839		-.3354						
.850				-.2481	-.2575	-.2511		
.857			-.2193					
.862								
.865	-.3491							-.2359
.879		-.1761						
.900	-.1593			-.1190			-.1711	
.905			-.1017					
.919		-.0817						
.950				-.0209	-.1267	-.0294		
.953			-.0087					
.955		-.0174						
.965	-.0288							
1.000			.0538		.0348		-.0432	

ALPHA (1) = -4.057 BETA (3) = 4.239 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0057	-.0067	-.1701	-1.0485	-1.2976	-1.1084	-.9438	
.020	.0000	.0024	-.2304	-1.1099	-1.3185	-1.1356	-.9102	-.6027
.040		.0177	-.3220					
.050	-.0124			-.7342	-1.2482	-1.1249	-.9002	
.069								-.5751
.080				-.5478				
.091			-.3151					
.086		.0327						
.094	-.0161							
.150				-.4306	-.5298	-.9238	-.8596	
.157								
.163		-.0338						-.3768

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (1) = -4.057 BETA (3) = 4.239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3204					
.229	.0173							
.246		-.2131						
.250				-.3392	-.3580	-.5989	-.7917	
.274			-.2858					
.345								-.4350
.390		-.2470						
.400				-.2568	-.2606		-.5863	
.402			-.2307					
.503								-.3563
.550				-.3111	-.3532			
.565			-.7840					
.600							-.3265	
.637		-.2863						
.650						-.3496		
.670								-.2730
.700					-.4310			
.725				-.4389				
.750						-.4011	-.3162	
.760			-.3955					
.775				-.4496	-.3168			
.798		-.3349						
.808			-.4227					
.834	-.3346							
.839		-.3038						
.850				-.2168	-.1931	-.2262		
.857			-.1944					
.862								-.1774
.865	-.3501							
.879		-.1709						
.900	-.1804			-.1052			-.1401	
.905			-.0974					
.919		-.0888						
.950				-.0121	-.0637	-.0119		
.953			-.0215					
.955		-.0280						
.965	-.0320							
1.000			.0309		.0309		.0155	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (2) = .016 BETA (1) = -3.906 MACH = .89947 Q = 599.39 P = 1058.3 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0292	.0826	.0949	-.6755	-.8475	-.7834	-.6484	
.020	.0000	.0656	-.0189	-.6313	-.7872	-.7657	-.9363	-.3332
.040		.0711	-.1802					
.050	.0047			-.5402	-.6340	-.6931	-.8042	
.069								-.3678
.080				-.3721				
.081			-.2141					
.086		.0850						
.094	-.0143							
.150				-.2172	-.2265	-.2632	-.2580	
.157								-.2625
.163		.0140						
.177			-.1936					
.229	.0222							
.246		-.1480						
.250				-.1637	-.2070	-.2389	-.2649	
.274			-.1336					
.345								-.3092
.390		-.1146						
.400				-.1350	-.1454		-.2033	
.402			-.0942					
.503								-.2906
.550				-.2004	-.2178			
.565			-.8981					
.600							-.3571	
.637		-.2025						
.650						-.3361		
.670								-.3745
.700					-.3780			
.725				-.3547				
.750						-.4199	-.4751	
.760			-.3049					
.775				-.4723	-.3780			
.798		-.2552						
.808			-.5532					
.834	-.2785							
.839		-.4373						
.850				-.2584	-.2768	-.1978		
.857			-.2328					
.862								-.1350
.865	-.4151							
.879		-.1836						
.900	-.1511			-.1091			-.0861	
.905			-.1009					
.919		-.0827						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (2) = .016 BETA (1) = -3.906

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0098	-.1583	-.0061		
.953			.0012					
.955		-.0067						
.965	-.0110							
1.000			.0554		.0004		.0751	

ALPHA (2) = .014 BETA (2) = .139 MACH = .P9947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0359	.1126	.1787	-.4852	-.6716	-.7228	-.6354	
.020	.0000	.1100	.0946	-.4831	-.5919	-.6428	-.7997	-.3321
.040		.1245	-.0603					
.050	.0149			-.3703	-.4748	-.5757	-.6731	
.059								-.3319
.080				-.2938				
.081			-.1274					
.086		.1335						
.094	.0117							
.150				-.1869	-.2129	-.2411	-.3314	
.157								-.2688
.163		.0747						
.177			-.1413					
.229	.0453							
.246		-.0865						
.250				-.1406	-.2019	-.2339	-.2753	
.274			-.1117					
.345								-.3182
.390		-.0855						
.400				-.1330	-.1587		-.2267	
.402			-.0884					
.503								-.3343
.550				-.2171	-.2343			
.565			-.8834					
.600							-.3904	
.637		-.1922						
.650						-.3615		
.670								-.3533
.700					-.4020			
.725				-.3682				
.750						-.4323	-.4767	
.760			-.3023					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (2) = .014 BETA (2) = .139

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4988	-.3939			
.798		-.2673						
.808			-.4962					
.834	-.2665							
.839		-.4140						
.850				-.2470	-.2511	-.1911		
.857			-.2280					
.862							-.1045	
.865	-.3607							
.879		-.1894						
.900	-.1641			-.1042		-.0798		
.905			-.0972					
.919		-.0916						
.950				-.0142	-.1104	-.0313		
.953			.0045					
.955		-.0101						
.965	-.0318							
1.000			.0682		.0081		.0682	

ALPHA (2) = .024 BETA (3) = 4.220 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720
X/CW								
.010	-.0134	.0844	.2350	-.3040	-.5279	-.5812	-.5564	
.020	.0000	.1054	.1688	-.3525	-.4304	-.4958	-.6355	-.2971
.040		.1218	.0180					
.050	.0134			-.2485	-.3730	-.4179	-.5114	
.069								-.3274
.080				-.2185				
.081			-.0663					
.086		.1430						
.094	.0147							
.150				-.1563	-.1758	-.2140	-.3107	
.157								-.2785
.163		.1068						
.177			-.0999					
.229	.0523							
.246		-.0597						
.250				-.1258	-.1727	-.2083	-.2644	
.274			-.0934					
.345								-.3502
.390		-.0764						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (2) = .024 BETA (3) = 4.220

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1308	-.1574		-.2255	
.402			-.0879					
.503								-.3820
.550				-.2140	-.2405			
.565			-.8782					
.600							-.3978	
.637		-.1995						
.650						-.3680		
.670								-.2814
.700					-.3963			
.725				-.3670				
.750						-.4203	-.4484	
.760			-.3418					
.775				-.5084	-.3659			
.798		-.2651						
.808			-.4981					
.834	-.2755							
.839		-.3761						
.850				-.2352	-.2161	-.1890		
.857			-.2370					
.862								-.0691
.865	-.3512							
.879		-.2042						
.900	-.1930			-.0996			-.0801	
.905			-.1113					
.919		-.0975						
.950				-.0037	-.0608	-.0178		
.953			-.0098					
.955		-.0237						
.965	-.0343							
1.000			.0635		.0357		.0714	

ALPHA (3) = 3.936 BETA (1) = -3.911 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0154	.1112	.3926	.0944	.0240	.1140	.1378	
.020	.0000	.1589	.3276	-.0362	-.0124	-.0206	-.0378	-.1080
.040		.1852	.1564					
.050	.0584			-.0414	-.0698	-.0576	-.0660	
.069								-.1613
.080				-.0362				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (3) = 3.936 BETA (1) = -3.911

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0527					
.086		.2184						
.094	.0530							
.150				-.0029	-.0139	-.0237	-.0822	
.157								-.1983
.163		.1850						
.177			.0111					
.229	.0943							
.246		.0264						
.250				-.0048	-.0343	-.0499	-.1075	
.274			.0106					
.345								-.2478
.390		.0209						
.400				-.0318	-.0365		-.1243	
.402			.0048					
.503								-.2993
.550				-.1273	-.1473			
.565			-.9458					
.600							-.3062	
.637		-.1222						
.650						-.2840		
.670								-.4013
.700					-.3355			
.725				-.2898				
.750						-.4398	-.4772	
.760			-.2440					
.775				-.4174	-.3816			
.798		-.1801						
.808			-.5024					
.834	-.1945							
.839		-.4736						
.850				-.5043	-.4590	-.6091		
.857			-.4161					
.862								-.3722
.865	-.4009							
.879		-.2566						
.900	-.2064			-.1273			-.5996	
.905			-.1180					
.919		-.1032						
.950				.0040	-.1674	-.0571		
.953			.0075					
.955		-.0099						
.965	-.0193							
1.000			.0844		.0494		-.0108	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (3) = 3.937 BETA (2) = .151 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0843	-.0011	.3671	.1702	.0747	.1425	.1358	
.020	.0000	.0919	.3418	.0562	.0386	.0336	-.0071	-.2042
.040		.1333	.2040					
.050	.0199			.0230	-.0247	-.0243	-.0560	
.069								-.2308
.080				.0082				
.081			.0934					
.086		.2070						
.094	.0368							
.150				.0135	-.0012	-.0184	-.0909	
.157								-.2280
.163		.2048						
.177			.0352					
.229	.0887							
.246		.0521						
.250				.0024	-.0261	-.0522	-.1191	
.274			.0233					
.345								-.3061
.390		.0318						
.400				-.0333	-.0419		-.1424	
.402			.0097					
.503								-.3574
.550				-.1301	-.1563			
.565			-.9571					
.600							-.3281	
.637		-.1195						
.650						-.2934		
.670								-.3705
.700					-.2980			
.725				-.2758				
.750						-.4316	-.4757	
.760			-.2387					
.775				-.4241	-.3734			
.798		-.1858						
.808			-.4888					
.834	-.2182							
.839		-.4408						
.850				-.4074	-.4143	-.6111		
.857			-.4061					
.862								-.2257
.865	-.3722							
.879		-.2688						
.900	-.2067			-.1115			-.4013	
.905			-.1221					
.919		-.1156						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (3) = 3.937 BETA (2) = .151

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				.0040	-.0885	-.0260		
.953			-.0003					
.955		-.0206						
.965	-.0539							
1.000			.0889		.0587		.0247	

ALPHA (3) = 3.940 BETA (3) = 4.207 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2145	-.1535	.2946	.2411	.1393	.1974	.1833	
.020	.0000	-.0110	.3171	.1297	.0942	.0870	.0599	-.3477
.040		.0390	.2262					
.050	-.0286			.0816	.0186	.0157	-.0112	
.069								-.3086
.080				.0551				
.081			.1275					
.086		.1696						
.094	-.0020							
.150				.0321	.0167	-.0017	-.0875	
.157								-.2798
.163		.2113						
.177			.0595					
.229	.0675							
.246		.0681						
.250				.0081	-.0194	-.0434	-.1293	
.274			.0323					
.345								-.3684
.390		.0400						
.400				-.0329	-.0417		-.1550	
.402			.0032					
.503								-.4037
.550				-.1273	-.1593			
.565			-.9780					
.600							-.3446	
.637		-.1237						
.650						-.3218		
.670								-.3975
.700					.3187			
.725				-.2691				
.750						-.4166	-.5123	
.760			-.2620					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (3) = 3.940 BETA (3) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4285	-.3783			
.798		-.2015						
.808			-.4555					
.834	-.2169							
.839		-.4047						
.850				-.3391	-.3606	-.5961		
.857			-.3410					
.862								-.1446
.865	-.3546							
.879		-.2588						
.900	-.2145			-.1163			-.1579	
.905			-.1354					
.919		-.1254						
.950				-.0034	-.0776	-.0300		
.953			-.0114					
.955		-.0346						
.965	-.0554							
1.000			.0812		.0488		.0286	

ALPHA (4) = 7.890 BETA (1) = -3.900 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1699	-.1783	.4105	.4967	.4487	.5008	.4675	
.020	.0000	.0477	.4641	.3705	.3781	.3811	.3560	-.2800
.040		.1212	.3769					
.053	.0383			.2688	.2605	.2681	.2450	
.069								-.2034
.080				.2167				
.081			.2640					
.086		.2824						
.094	.0780							
.150				.1851	.1846	.1775	.0996	
.157								-.2161
.163		.3269						
.177			.1869					
.229	.1543							
.246		.1824						
.250				.1491	.1339	.1041	.0335	
274			.1523					
.345								-.2183
.390		.1474						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XCBL1:)

ALPHA (4) = 7.890 BETA (1) = -3.900

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0836	.0740		-.0339	
.402			.1171					
.503								-.2677
.550				-.0374	-.0639			
.565			-.6958					
.500							-.2375	
.637		-.0359						
.650						-.1996		
.670								-.3542
.700					-.2456			
.725				-.1953				
.750						-.3453	-.4290	
.760			-.2063					
.775				-.3806	-.3825			
.798		-.1657						
.808			-.4377					
.834	-.1953							
.839		-.4561						
.850				-.5781	-.5479	-.5548		
.857			-.5289					
.862								-.4218
.865	-.3846							
.879		-.4088						
.900	-.2469			-.2639			-.5703	
.905			-.1836					
.919		-.1494						
.950				-.0474	-.2712	-.6085		
.953			-.0215					
.955		-.0410						
.965	-.0645							
1.000			.0828		-.1081		-.3112	

ALPHA (4) = 7.894 BETA (2) = .145 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3508	-.3711	.2797	.4841	.4264	.4582	.4150	
.020	.0000	-.0864	.3862	.3874	.3660	.3606	.3217	-.4439
.040		-.0028	.3626					
.050	-.0388			.2891	.2622	.2533	.2253	
.059								-.3275
.080				.2293				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (4) = 7.894 BETA (2) = .145

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2678					
.086		.2191						
.094	.0317							
.150				.1817	.1725	.1582	.0728	
.157								-.2491
.163		.3110						
.177			.1902					
.229	.1261							
.246		.1781						
.250				.1379	.1222	.0871	.0020	
.274			.1507					
.345								-.2791
.390		.1486						
.400				.0737	.0554		-.0712	
.402			.1088					
.503								-.2882
.550				-.0481	-.0803			
.565			-.6827					
.600							-.2644	
.637		-.0357						
.650						-.2136		
.670								-.3908
.700					-.2481			
.725				-.2115				
.750						-.3435	-.4382	
.760			-.2208					
.775				-.3875	-.3845			
.798		-.1882						
.808			-.4270					
.834	-.1918							
.839		-.4135						
.850				-.5787	-.5188	-.5619		
.857			-.4794					
.862								-.4845
.865	-.3611							
.879		-.3532						
.900	-.2261			-.2296			-.5987	
.905			-.2046					
.919		-.1629						
.950				-.0434	-.2095	-.5500		
.953			-.0336					
.955		-.0581						
.965	-.0805							
1.000			.0850		-.0606		-.3221	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (4) = 7.892 BETA (3) = 4.207 MACH = .89940 Q = 599.79 P = 1059.2 RN/' = 3.5790

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5284	-.3452	.0971	.4442	.3940	.3958	.3523	
.020	.0000	-.1702	.2628	.3695	.3485	.3372	.2919	-.5222
.040		-.0972	.3106					
.050	-.1239			.2863	.2473	.2350	.2031	
.063								-.3944
.080				.2275				
.081			.2418					
.086		.1392						
.094	-.0354							
.150				.1732	.1669	.1528	.0579	
.157								-.2653
.163		.2717						
.177			.1828					
.229	.0808							
.246		.1602						
.250				.1255	.1044	[illegible]	-.0187	
.274			.1429					
.345								-.2811
.390		.13[illegible]						
.400				.0591	.0488		-.0814	
.402			.0954					
.503								-.3149
.550				-.0555	-.0753			
.565			-.7045					
.600							-.2680	
.637		-.0477						
.650						-.2188		
.670								-.4524
.700					-.2538			
.725				-.2389				
.750						-.3532	-.4373	
.760			-.2520					
.775				-.3846	-.3838			
.798		-.2006						
.808			-.4179					
.834	-.2179							
.839		-.4030						
.850				-.5295	-.4992	-.5458		
.857			-.4222					
.862								-.5298
.865	-.3473							
.879		-.3498						
.900	-.2413			-.2224			-.6331	
.905			-.2159					
.919		-.1970						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L11)

ALPHA (4) = 7.892 BETA (3) = 4.207

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0626	-.1827	-.4826		
.953			-.0665					
.955		-.0731						
.965	-.0838							
1.000			.0548		-.0266		-.4125	

ALPHA (5) = 11.932 BETA (1) = -3.834 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4821	-.5637	.2059	.6289	.6044	.5871	.5282	
.020	.0000	-.1413	.4158	.5735	.5653	.5564	.5032	-.3886
.040		-.0319	.4827					
.050	-.0221			.4710	.4601	.4543	.4134	
.063								-.2288
.080				.4018				
.081			.4072					
.086		.2767						
.094	.0756							
.150				.3326	.3359	.3289	.2426	
.157								-.2109
.163		.4136						
.177			.3209					
.229	.2053							
.246		.2965						
.250				.2667	.2591	.2355	.1551	
.274			.2690					
.345								-.1394
.390		.2541						
.400				.1812	.1748		.0616	
.402			.2140					
.503								-.2145
.550				.0473	.0230			
.565			-.6237					
.600							-.1730	
.637		.0478						
.650						-.1426		
.670								-.3924
.700					-.2160			
.725				-.1892				
.750						-.2750	-.3385	
.760			-.2504					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (5) = 11.932 BETA (1) = -3.884

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3259	-.3484			
.798		-.2121						
.808			-.3545					
.834	-.2148							
.839		-.4115						
.850				-.4984	-.6532	-.5227		
.857			-.4278					
.862								
.865	-.3746						-.5042	
.879		-.3880						
.900	-.2536			-.6105		-.5586		
.905			-.4862					
.919		-.3287						
.950				-.3767	-.5780	-.6290		
.953			-.1715					
.955		-.1464						
.965	-.1179							
1.000			.0062		-.2785		-.5019	

ALPHA (5) = 11.939 BETA (2) = .149 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6910	-.4171	-.0075	.5449	.5217	.4737	.4169	
.020	.0000	-.2132	.2586	.5247	.5126	.4895	.4244	-.5394
.040		-.1222	.4065					
.050	-.1206			.4473	.4355	.4140	.3653	
.069								-.3698
.080				.3841				
.081			.3731					
.086		.1847						
.094	.0001							
.150				.3131	.3182	.3043	.2003	
.157								-.2696
.163		.3679						
.177			.3054					
.229	.1556							
.246		.2734						
.250				.2470	.2385	.2118	.1194	
.274			.2548					
.345								
.390		.2424						-.2199

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L11)

ALPHA (5) = 11.939 BETA (2) = .149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1624	.1557		.0266	
.402			.1952					
.503								-.2834
.550				.0364	.0056			
.565			-.6692					
.600							-.2091	
.637		.0419						
.650						-.1618		
.670								-.4287
.700					-.2216			
.725				-.1919				
.750						-.2985	-.3708	
.760			-.2573					
.775				-.3286	-.3621			
.798		-.2082						
.808			-.3698					
.834	-.2196							
.839		-.3973						
.850				-.5092	-.6743	-.5195		
.857			-.3903					
.862								-.5491
.865	-.3641							
.879		-.3741						
.900	-.2739			-.5843			-.5984	
.905			-.4664					
.919		-.3339						
.950				-.3491	-.5527	-.6630		
.953			-.2122					
.955		-.1593						
.965	-.1141							
1.000			-.0242		-.2288		-.5385	

ALPHA (5) = 11.928 BETA (3) = 4.228 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8061	-.4010	-.2265	.4417	.4306	.3419	.3027	
.020	.0000	-.3233	.0872	.4623	.4357	.4192	.3390	-.6580
.040		-.2402	.3104					
.050	-.2125			.4168	.3900	.3704	.3110	
.069								-.4823
.090				.3602				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL11)

ALPHA (5) = 11.928 BETA (3) = 4.228

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3200					
.086		.0921						
.094	-.0747							
.150				.2924	.2912	.2770	.1689	
.157								-.3217
.163		.3061						
.177			.2771					
.229	.0967							
.246		.2318						
.250				.2178	.2161	.1901	.0907	
.274			.2274					
.345								-.3085
.390		.2191						
.400				.1351	.1405		-.0025	
.402			.1708					
.503								-.3390
.550				.0248	-.0087			
.565			-.6555					
.600							-.2359	
.637		.0218						
.650						-.1796		
.670								-.4689
.700					-.2292			
.725				-.2009				
.750						-.3039	-.3946	
.760			-.2714					
.775				-.3382	-.3675			
.798		-.2173						
.808			-.3728					
.834	-.2362							
.859		-.3672						
.850				-.4830	-.6741	-.5052		
.857			-.3788					
.862								-.6193
.865	-.3650							
.879		-.3884						
.900	-.3025			-.5913			-.6149	
.905			-.4543					
.919		-.3506						
.950				-.3021	-.5402	-.6629		
.953			-.2270					
.955		-.1950						
.965	-.1372							
1.000			-.0531		-.2029		-.5620	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 65.000
BOFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -4.057 BETA (1) = -7.889 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2973	-.6514	-1.1091	-2.1173	-1.8969	-1.6627	-1.6028	
.020	.0000	-.5064	-1.1783	-1.9633	-1.8033	-1.3467	-1.5143	-1.0309
.040		-.5469	-1.0155					
.050	-.2465			-.9584	-1.1301	-1.1594	-1.1308	
.069								-.8889
.080				-.7169				
.081			-.6362					
.086		-.3465						
.094	-.2252							
.150				-.4657	-.4968	-.5842	-.5531	
.157								-.3639
.163		-.3844						
.177			-.3834					
.229	-.1818							
.246		-.3711						
.250				-.3090	-.3463	-.3792	-.3818	
.274			-.2729					
.345								-.3901
.390		-.2395						
.400				-.2163	-.2342		-.2715	
.402			-.1851					
.503								-.3644
.550				-.2178	-.2283			
.565			-.2315					
.600							-.2741	
.637		-.2195						
.650						-.2469		
.670								-.3625
.700					-.2452			
.725				-.2180				
.750						-.3271	-.3233	
.760			-.2287					
.775				-.3475	-.2604			
.788		-.1922						
.808			-.3243					
.834	-.1778							
.839		-.2767						
.850				-.2424	-.2708	-.2200		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (1) = -4.057 BETA (1) = -7.889

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2198					
.862								-.2441
.865	-.2603							
.879		-.1990						
.900	-.1255			-.1700			-.1565	
.905			-.1552					
.919		-.1255						
.950				-.0650	-.1750	-.0524		
.953			-.0533					
.955		-.0562						
.965	-.0227							
1.000			.0485		-.0408		.0253	

ALPHA (1) = -4.036 BETA (2) = -3.874 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1904	-.4480	-.8398	-2.0684	-2.1047	-1.7977	-1.6714	
.020	.0000	-.3867	-.9013	-1.8774	-1.9497	-1.4178	-1.5920	-.9127
.040		-.3543	-.7839					
.050	-.1735			-.8887	-.9609	-1.1145	-1.1121	
.069								-.8030
.080				-.6686				
.081			-.5397					
.086		-.2354						
.094	-.1612							
.150				-.4126	-.4633	-.5237	-.5288	
.157								-.3283
.163		-.2890						
.177			-.3437					
.229	-.1264							
.246		-.3210						
.250				-.2808	-.3300	-.3650	-.3586	
.274			-.2522					
.345								-.3413
.330		-.2199						
.400				-.2086	-.2277		-.2600	
.402			-.1792					
.503								-.3277
.550				-.2205	-.2305			
.565			-.2094					
.600							-.2683	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (1) = -4.036 BETA (2) = -3.874

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2121						
.650						-.2478		
.670								-.3396
.700					-.2467			
.725				-.2217				
.750						-.3217	-.3187	
.760			-.2312					
.775				-.3633	-.2588			
.798		-.1972						
.808			-.3288					
.834	-.1837							
.839		-.2812						
.850				-.2442	-.2515	-.2242		
.857			-.2309					
.862								-.2513
.865	-.2665							
.879		-.2046						
.910	-.1421			-.1698			-.1515	
.905			-.1615					
.919		-.1348						
.950				-.0594	-.1660	-.0513		
.953			-.0562					
.955		-.0635						
.965	-.0586							
1.000			.0477		-.0156		.0346	

ALPHA (1) = -4.017 BETA (3) = .163 MACH = .59636 Q = 583.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1037	-.2370	-.5804	-1.8151	-1.9812	-2.1302	-1.9595	
.020	.0000	-.2050	-.6304	-1.3828	-1.6010	-1.6189	-1.8288	-.7897
.040		-.1891	-.5833					
.050	-.0967			-.7844	-.8643	-.9621	-1.0478	
.069								-.6113
.080				-.5898				
.081			-.4416					
.086		-.1340						
.094	-.0921							
.150				-.3737	-.4145	-.4543	-.4582	
.157								-.3023
.163		-.1962						

AMES 11-073(OA148) -140A/B/C/R CF3 LEFT WING BOT (XEBL12)

ALPHA (1) = -4.017 BETA (3) = .163

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3037					
.229	-.0723							
.246		-.2746						
.250				-.2581	-.3093	-.3351	-.3262	
.274			-.2271					
.345								-.3030
.390		-.1962						
.400				-.1928	-.2162		-.2388	
.402			-.1685					
.503								-.3040
.550				-.2138	-.2246			
.565			-.1874					
.600							-.2555	
.637		-.2017						
.650						-.2398		
.670								-.3259
.700					-.2450			
.725				-.2244				
.750						-.3161	-.3090	
.760			-.2338					
.775				-.3707	-.2629			
.798		-.1989						
.808			-.3224					
.834	-.1891							
.839		-.2706						
.850				-.2435	-.2496	-.2253		
.857			-.2261					
.862								-.2605
.865	-.2098							
.879		-.2080						
.900	-.1499			-.1698			-.1455	
.905			-.1663					
.919		-.1385						
.940				-.0601	-.1379	-.0521		
.953			-.0607					
.965		-.0731						
.965	-.0823							
1.000			.0522		.0051		.0401	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (1) = -4.026 BETA (4) = 4.234 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/SW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0464	-.0977	-.3566	-1.4708	-1.6127	-2.0170	-1.8801	
.020	.0000	-.0884	-.4109	-1.1461	-1.2802	-1.4013	-1.6800	-.6326
.040		-.0682	-.4310					
.050	-.0542			-.6503	-.7402	-.8256	-.8498	
.069								-.4609
.080				-.4958				
.081			-.3499					
.085		-.0510						
.094	-.0554							
.150				-.3234	-.3646	-.3914	-.4025	
.157								-.2669
.163		-.1217						
.177			-.2574					
.229	-.0372							
.246		-.2155						
.250				-.2314	-.2780	-.2980	-.2962	
.271			-.2004					
.345								-.2500
.300		-.1729						
.400				-.1817	-.1928		-.2151	
.402			-.1575					
.503								-.2471
.550				-.2024	-.2121			
.565			-.2059					
.600							-.2392	
.637		-.1910						
.650						-.2236		
.670								-.2647
.700					-.2342			
.725				-.2193				
.750						-.2997	-.2891	
.760			-.2299					
.775				-.3647	-.2499			
.798		-.1946						
.838			-.2976					
.834	-.1907							
.839		-.2676						
.850				-.2363	-.2290	-.2175		
.857			-.2193					
.862								-.1917
.865	-.2655							
.879		-.1981						
.300	-.1661			-.1596			-.1289	
.900			-.1525					
.919		-.1401						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (1) = -4.026 BETA (4) = 4.234

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0496	-.1279	-.0387		
.953			-.0593					
.955		-.0735						
.965	-.0878							
1.000			.0489		.0251		.0564	

ALPHA (1) = -4.040 BETA (5) = 8.307 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0158	.0133	-.1341	-1.0582	-1.3040	-1.6130	-1.5739	
.020	.0000	.0136	-.1913	-.8739	-.9571	-1.1152	-1.4157	-.4908
.040		.0222	-.2564					
.050	-.0249			-.5122	-.6277	-.7175	-.7517	
.069								-.3696
.080				-.4057				
.081			-.2488					
.086		.0198						
.094	-.0258							
.150				-.2766	-.3048	-.3332	-.3632	
.157								-.2430
.163		-.0486						
.177			-.2042					
.229	-.0100							
.246		-.1657						
.250				-.1990	-.2396	-.2627	-.2624	
.274			-.1667					
.345								-.2081
.390		-.1453						
.400				-.1625	-.1731		-.1904	
.402			-.1396					
.503								-.1995
.550				-.1840	-.1981			
.565			-.2298					
.600							-.2182	
.637		-.1769						
.650						-.2179		
.670								-.2104
.700					-.2317			
.725				-.2141				
.750						-.2789	-.2698	
.760			-.2255					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (1) = -4.040 BETA (5) = 8.307

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3508	-.2419			
.798		-.1878						
.808			-.2863					
.834	-.1901							
.839		-.2647						
.850				-.2308	-.2096	-.2046		
.857			-.2169					
.962							-.1235	
.865	-.2580							
.879		-.2010						
.900	-.1619			-.1550		-.1104		
.905			-.1566					
.919		-.1475						
.950				-.0456	-.0939	-.0307		
.953			-.0585					
.955		-.0811						
.965	-.0924							
1.000			.0478		.0452		.0731	

ALPHA (2) = .047 BETA (1) = -7.924 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.813M

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0019	-.0247	-.1440	-.2113	-.9553	-.9021	-.7406	
.020	.0000	-.0533	-.2894	-.8309	-.7239	-.7921	-.8004	-.2284
.040		-.0576	-.3693					
.050	-.0431			-.4978	-.5075	-.5238	-.5053	
.069								-.1988
.080				-.3824				
.081			-.2848					
.086		-.0371						
.094	-.0562							
.150				-.2288	-.2287	-.2310	-.2413	
.157								-.1971
.163		-.1128						
.177			-.1929					
.229	-.0462							
.246		-.1814						
.250				-.1474	-.1807	-.1889	-.1919	
.274			-.1368					
.345								-.1806
.330		-.1200						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEEL12)

ALPHA (2) = .047 BETA (1) = -7.924

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1219	-.1290		-.1530	
.402			-.0925					
.503								-.2068
.550				-.1611	-.1683			
.565			-.2843					
.600							-.2174	
.637		-.1629						
.650						-.2043		
.670								-.2440
.700					-.2114			
.725				-.1908				
.750						-.3037	-.2772	
.760			-.1988					
.775				-.3242	-.2380			
.798		-.1700						
.808			-.3071					
.834	-.1629							
.839		-.2617						
.850				-.2331	-.2499	-.2170		
.857			-.2065					
.862								-.1604
.865	-.2594							
.879		-.1854						
.900	-.1099			-.1578			-.1427	
.905			-.1419					
.919		-.1174						
.950				-.0469	-.1385	-.0426		
.953			-.0360					
.955		-.0410						
.965	-.0133							
1.000			.0734		-.0205		.0620	

ALPHA (2) = .057 BETA (2) = -3.897 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0195	.0400	-.0181	-.7087	-.7760	-.7573	-.6453	
.020	.0000	.0212	-.1210	-.6838	-.6173	-.6565	-.6968	-.1970
.040		.0207	-.2472					
.050	-.0088							
.069				-.4:38	-.4307	-.4516	-.4668	
.080				-.3243				-.1810

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (2) = .057 BETA (2) = -3.897

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2249					
.086		.0217						
.094	-.0208							
.150				-.2013	-.2059	-.2083	-.2350	
.157								-.1913
.163		-.0557						
.177			-.1591					
.229	-.0118							
.246		-.1481						
.250				-.1332	-.1652	-.1823	-.1856	
.274			-.1186					
.345								-.1698
.390		-.1019						
.400				-.1129	-.1237		-.1526	
.402			-.0889					
.503								-.2005
.550				-.1593	-.1675			
.565			2393					
.600							-.2183	
.637		-.1567						
.650						-.2073		
.670								-.2349
.700					-.2173			
.725				-.1930				
.750						-.3010	-.2806	
.760			-.2070					
.775				-.3355	-.2392			
.798		-.1717						
.903			-.3114					
.834	-.1618							
.839		-.2654						
.850				-.2351	-.2514	-.2264		
.857			-.2151					
.862								-.1449
.865	-.2583							
.879		-.1950						
.900	-.1264			-.1617			-.1366	
.905			-.1517					
.919		-.1280						
.950				-.0487	-.1423	-.0443		
.953			-.0470					
.955		-.0583						
.965	-.0519							
1.000			.0677		.0053		.0686	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (2) = .058 BETA (3) = .160 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0136	.0708	.0886	-.5283	-.6429	-.6330	-.5789	
.020	.0000	.0603	-.0506	-.5221	-.5101	-.5601	-.6316	-.1869
.040		.0746	-.1354					
.050	-.0010			-.3292	-.3593	-.4070	-.4265	
.069								-.1695
.080				-.2663				
.081			-.1629					
.086		.0715						
.094	-.0079							
.150				-.1804	-.1823	-.1905	-.2187	
.157								-.1972
.163		-.0030						
.177			-.1292					
.229	.0038							
.246		-.1094						
.250				-.1210	-.1516	-.1708	-.1795	
.274			-.1059					
.345								-.1628
.390		-.0894						
.400				-.1088	-.1205		-.1485	
.402			-.0847					
.503								-.1963
.550				-.1571	-.1863			
.565			-.2265					
.600							-.2141	
.637		-.1546						
.650						-.2058		
.670								-.2219
.700					-.2203			
.725				-.1951				
.750						-.2956	-.2743	
.760			-.2107					
.775				-.3461	-.2369			
.798		-.1706						
.808			-.3083					
.834	-.1655							
.839		-.2654						
.850				-.2350	-.2474	-.2265		
.857			-.2229					
.862								-.1237
.865	-.2564							
.879		-.1974						
.900	-.1414			-.1677			-.1342	
.905			-.1617					
.919		-.1369						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (2) = .058 BETA (3) = .160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0490	-.1326	-.0444		
.953			-.0608					
.955		-.0685						
.965	-.0723							
1.000			.0582		.0250		.0730	

ALPHA (2) = .052 BETA (4) = 4.215 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0189	.0554	.1583	-.3665	-.4750	-.4606	-.4105	
.020	.0000	.0647	.0861	-.3776	-.3858	-.4393	-.4751	-.1651
.040		.0801	-.0545					
.050	-.0048			-.2499	-.2871	-.3229	-.3334	
.069								-.1751
.080				-.2142				
.081			-.1050					
.086		.0911						
.094	-.0091							
.150				-.1421	-.1583	-.1627	-.2037	
.157								-.1887
.163		.0368						
.177			-.1055					
.229	.0165							
.246		-.0867						
.250				-.1038	-.1373	-.1558	-.1668	
.274			-.0911					
.345								-.1584
.390		-.0738						
.400				-.0993	-.1145		-.1482	
.402			-.0746					
.503								-.1832
.550				-.1526	-.1628			
.565			-.2344					
.600							-.2142	
.637		-.1445						
.650						-.2082		
.670								-.2153
.700					-.2217			
.725				-.1958				
.750						-.2853	-.2791	
.760			-.2167					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (2) = .052 BETA (4) = 4.215

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3496	-.2343			
.798		-.1736						
.808			-.2911					
.834	-.1763							
.839		-.2572						
.850				-.2319	-.2281	-.2227		
.857			-.2184					
.862							-.1092	
.865	-.2460							
.879		-.1966						
.900	-.1498			-.1648		-.1319		
.905			-.1617					
.919		-.1458						
.950				-.0535	-.0993	-.0475		
.953			-.0620					
.955		-.0793						
.965	-.0816							
1.000			.0564		.0405		.0801	

ALPHA (2) = .048 BETA (5) = 8.271 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1094	-.0250	.2004	-.1637	-.2953	-.3061	-.2897	
.020	.0000	.0157	.1615	-.2244	-.2477	-.3196	-.3411	-.1680
.040		.0438	.0339					
.050	-.0397			-.1533	-.2060	-.2462	-.2737	
.069								-.1837
.080				-.1448				
.081			-.0430					
.086		.0928						
.094	-.0269							
.150				-.1104	-.1266	-.1372	-.1811	
.157								-.1868
.163		.0680						
.177			-.0667					
.229	.0069							
.246		-.0573						
.250				-.0907	-.1173	-.1365	-.1556	
.274			-.0669					
.345								-.1593
.390		-.0609						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (2) = .048 BETA (5) = 8.271

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0929	-.1047		-.1384	
.402			-.0662					
.503								-.1859
.550				-.1458	-.1551			
.565			-.2858					
.600							-.2031	
.637		- 1367						
.650						-.1965		
.670								-.2062
.700					-.2090			
.725				-.1966				
.750						-.2673	-.2656	
.760			-.2117					
.775				-.3409	-.2266			
.798		-.1731						
.808			-.2681					
.834	-.1788							
.839		-.2563						
.850				-.2236	-.2152	-.2145		
.857			-.2165					
.862								-.0943
.865	-.2384							
.879		-.1980						
.900	-.1590			-.1577			-.1179	
.905			-.1620					
.919		-.1502						
.950				-.0495	-.0700	-.0402		
.953			-.0674					
.965		-.0885						
.965	-.0968							
1.000			.0506		.0585		.0836	

ALPHA (3) = 3.956 BETA (1) = -7.937 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0881	.1529	.3335	.0219	.0257	.1599	.2071	
.020	.0000	.1544	.2382	-.1065	-.0002	.0064	.0442	.0171
.040		.1686	.0635					
.050	.0669			-.0952	-.0605	-.0347	-.0030	
.069								-.0112
.080				-.0843				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (3) = 3.956 BETA ( ) = -7.937

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0151					
.086		.1703						
.094	.0569							
.150				-.0234	-.0132	.0052	-.0275	
.157								-.1254
.163		.0925						
.177			-.0170					
.229	.0610							
.246		-.0173						
.250				-.0040	-.0250	-.0293	-.0434	
.274			-.0031					
.345								-.0832
.390		-.0031						
.400				-.0240	-.0260		-.0580	
.402			.0000					
.503								-.1496
.550				-.0938	-.1003			
.565			-.3023					
.600							-.1740	
.637		-.1020						
.650						-.1613		
.670								-.2063
.700					-.1816			
.725				-.1561				
.750						-.2659	-.2462	
.760			-.1709					
.775				-.2973	-.2087			
.798		-.1409						
.808			-.2769					
.834	-.1334							
.839		-.2349						
.850				-.2138	-.2370	-.2224		
.857			-.1916					
.862								-.1761
.865	-.2316							
.879		-.1680						
.900	-.0891			-.1532			-.1576	
.905			-.1345					
919		-.1051						
.950				-.0397	-.1134	-.0564		
.953			-.0320					
.955		-.0347						
.965	-.0083							
1.000			.0915		.0218		.0266	

AMES 11-073(OA148) - 40A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (3) = 3.958 BETA (2) = -3.898 MACH = 59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0231	.0792	.3395	.0866	.0855	.2055	.2402	
.020	.0000	.1213	.2815	-.0243	.0479	.0569	.0923	-.0574
.040		.1491	.1154					
.050	.0504			-.0282	-.0287	-.0011	.0157	
.069								-.0724
.080				-.0335				
.081			.0251					
.086		.1729						
.094	.0441							
.150				-.0116	-.0011	.0065	-.0318	
.157								-.1437
.163		.1263						
.177			.0024					
.229	.0684							
.246		.0011						
.250				.0035	-.0177	-.0311	-.0469	
.274			-.0021					
.345								-.1140
.390		.0021						
.400				-.0230	-.0299		-.0714	
.402			-.0007					
.503								-.1701
.550				-.0986	-.1031			
.565			-.2687					
.600							-.1806	
.637		-.0982						
.650						-.1671		
.670								-.2222
.700					-.1846			
.725				-.1651				
.750						-.2696	-.2546	
.760			-.1801					
.775				-.3108	-.2143			
.798		-.1475						
.808			-.2783					
.834	-.1461							
.839		-.2457						
.850				-.2221	-.2354	-.2253		
.857			-.2013					
.862								-.1795
.865	-.2319							
.879		-.1771						
.900	-.1061			-.1558			-.1604	
.905			-.1483					
.919		.1245						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (3) = 3.958 BETA (2) = -3.898

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0485	-.1192	-.0627		
.953			-.0458					
.955		-.0518						
.965	-.0491							
1.000			.0782		.0383		.0438	

ALPHA (3) = 3.957 BETA (3) = .162 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0817	-.0534	.3084	.1558	.1294	.2228	.2237	
.020	.0000	.0462	.2912	.0496	.0789	.0798	.0932	-.1514
.040		.0902	.1567					
.050	.0103			.0171	.0080	.0154	.0130	
.069								-.1469
.080				-.0078				
.081			.0558					
.086		.1592						
.094	.0263							
.150				.0007	.0023	.0087	-.0404	
.157								-.1733
.163		.1442						
.177			.0181					
.229	.0563							
.246		.0167						
.250				.0033	-.0155	-.0279	-.0623	
.274			.0071					
.345								-.1504
.390		.0084						
.400				-.0311	-.0338		-.0809	
.402			-.0101					
.503								-.1972
.550				-.0949	-.1072			
.565			-.2821					
.600							-.1862	
.637		-.0945						
.650						-.1728		
.670								-.2407
.700					-.1883			
.725				-.1662				
.750						-.2667	-.2593	
.760			-.1867					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (3) = 3.957 BETA (3) = .162

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3215	-.2113			
.798		-.1509						
.808			-.2749					
.834	-.1505							
.839		-.2420						
.850				-.2208	-.2355	-.2320		
.857			-.2073					
.862							-.1805	
.865	-.2278							
.879		-.1870						
.900	-.1315			-.1581		-.1612		
.905			-.1593					
.919		-.1351						
.950				-.0488	-.1053	-.0681		
.953			-.0584					
.955		-.0680						
.965	-.0678							
1.000			.0726		.0515		.0439	

ALPHA (3) = 3.954 BETA (4) = 4.202 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1988	-.2002	.2416	.2019	.1659	.2453	.2352	
.020	.0000	-.0595	.2638	.0992	.1127	.1189	.1255	-.2816
.040		-.0058	.1706					
.050	-.0447			.0517	.0402	.0352	.0370	
.069								-.2470
.080				.0157				
.081			.0803					
.086		.1276						
.094	-.0162							
.150				.0044	.0148	.0077	-.0371	
.157								-.2144
.163		.1483						
.177			.0323					
.229	.0400							
.246		.0266						
.250				.0048	-.0109	-.0280	-.0823	
.274			.0106					
.345							-.1884	
.390		.0128						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (3) = 3.954 BETA (4) = 4.202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0297	-.0346		-.0871	
.402			-.0038					
.503								-.2218
.550				-.0996	-.1078			
.565			-.2818					
.600							-.1934	
.637		-.0944						
.650						-.1790		
.670								-.2587
.700					-.1917			
.725				-.1691				
.750						-.2582	-.2671	
.750			-.1939					
.775				-.3169	-.2105			
.798		-.1520						
.808			-.2579					
.834	-.1591							
.839		-.2400						
.850				-.2149	-.2216	-.2325		
.857			-.2049					
.862								-.1825
.865	-.2268							
.879		-.1821						
.900	-.1377			-.1578			-.1574	
.905			-.1531					
.919		-.1390						
.950				-.0550	-.0983	-.0703		
.953			-.0642					
.965		-.0778						
.965	-.0779							
1.000			.0581		.0559		.0471	

ALPHA (3) = 3.960 BETA (5) = 8.252 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3726	-.3494	.1154	.2506	.1982	.2379	.2107	
.020	.0000	-.1782	.1959	.1468	.1520	.1427	.1222	-.4263
.040		-.1152	.1809					
.050	-.1262			.0932	.0793	.0535	.0452	
.069								-.3534
.080				.0510				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (3) = 3.960 BETA (5) = 8.252

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.CB1			.0960					
.086		.0670						
.094	-.0596							
.150				.0192	.0265	.0162	-.0421	
.157								-.2702
.163		.1394						
.177			.0482					
.229	.0121							
.246		.0275						
.250				.0077	-.0113	-.0276	-.0726	
.274			.0205					
.345								-.2423
.390		.0164						
.400				-.0276	-.0357		-.1057	
.402			-.0070					
.503								-.2633
.550				-.0939	-.1077			
.565			-.3235					
.600							-.1984	
.637		-.0934						
.650						-.1753		
.670								-.2735
.700					-.1880			
.725				-.1745				
.750						-.2542	-.2654	
.760			-.1967					
.775				-.3034	-.2035			
.798		-.1573						
.808			-.2437					
.834	-.1601							
.839		-.2295						
.850				-.2117	-.2087	-.2250		
.857			-.1991					
.862								-.1901
.865	-.2261							
.879		-.1831						
.900	-.1482			-.1571			-.1548	
.905			-.1582					
.919		-.1495						
.950				-.0542	-.0764	-.0626		
.953			-.0684					
.955		-.0808						
.965	-.0865							
1.000			.0490		.0660		.0542	

REPRODUCIBILITY OF THE

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.904 BETA (1) = -7.922 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8800	.9720
X/CW								
.010	-.0165	-.0647	.4150	.4755	.4996	.5769	.5462	
.020	.0000	.1107	.4432	.3425	.4201	.4464	.4621	-.2252
.040		.1682	.3242					
.050	.1018			.2363	.2808	.3063	.3204	
.069								-.1165
.080				.1878				
.081			.2136					
.086		.2657						
.094	.1157							
.150				.1506	.1757	.1928	.1519	
.157								-.1525
.163		.2586						
.177			.1441					
.229	.1483							
.246		.1293						
.250				.1251	.1215	.1103	.0851	
.274			.1157					
.345								-.0791
.350		.1050						
.400				.0688	.0716		.0246	
.402			.0908					
.503								-.1569
.550				-.0204	-.0311			
.565			-.3222					
.600							-.1342	
.637		-.0336						
.650						-.1165		
.670								-.2250
.700					-.1397			
.725				-.1123				
.750						-.2141	-.2140	
.760			-.1399					
.775				-.2595	-.1634			
.798		-.1055						
.808			-.2317					
.834	-.1107							
.839		-.2080						
.850				-.1893	-.2093	-.2072		
.857			-.1686					
.862								-.2322
.865	-.1977							
.879		-.1432						
.900	-.0664			-.1416			-.1809	
.905			-.1268					
.919		-.0920						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.904 BETA (1) = -7.922

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0376	-.0978	-.0690		
.953			-.0310					
.955		-.0297						
.965	-.0042							
1.000			.0918		.0483		-.0379	

ALPHA (4) = 7.913 BETA (2) = -3.891 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1655	-.2889	.2943	.4796	.4714	.5171	.4763	
.020	.0000	-.0273	.3856	.3628	.4090	.4278	.4166	-.4238
.040		.0492	.3275					
.050	.0358			.2518	.2865	.2923	.2992	
.069								-.2705
.090				.1966				
.081			.2217					
.086		.2205						
.094	.0633							
.150				.1495	.1846	.1810	.1319	
.157								-.1978
.163		.2607						
.177			.1528					
.229	.1200							
.246		.1330						
.250				.1240	.1133	.1101	.0637	
.274			.1182					
.345								-.1505
.390		.1061						
.400				.0686	.0672		.0015	
.402			.0876					
.503								-.2181
.550				-.0220	-.0342			
.565			-.2924					
.600							-.1475	
.637		-.0319						
.650						-.1217		
.670								-.2460
.700					-.1409			
.725				-.1196				
.750						-.2242	-.2241	
.760			-.1473					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.913 BETA (2) = -3.891

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2646	-.1715			
.798		-.1121						
.808			-.2271					
.834	-.1218							
.839		-.2118						
.850				-.1904	-.2086	-.2161		
.857			-.1810					
.862							-.2512	
.865	-.1986							
.879		-.1561						
.900	-.0806			-.1444		-.1914		
.905			-.1370					
.919		-.1096						
.950				-.0478	-.1038	-.0777		
.953			-.0446					
.955		-.0472						
.965	-.0392							
1.000			.0780		.0634		-.0302	

ALPHA (4) = 7.912 BETA (3) = .160 MACH = .59890 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3631	-.5117	.1383	.4403	.4259	.4416	.3893	
.020	.0000	-.1952	.2912	.3575	.3827	.3824	.3600	-.6208
.040		-.0990	.3044					
.050	-.0519			.2536	.2720	.2723	.2660	
.069								-.4217
.080				.1950				
.081			.2196					
.086		.1542						
.094	.0087							
.150				.1412	.1690	.1631	.0979	
.157								-.2518
.163		.2422						
.177			.1539					
.229	.0878							
.246		.1252						
.250				.1178	.1058	.0905	.0362	
.274			.1149					
.345								-.2196
.390		.1031						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.912 BETA (3) = .160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0591	.0497		-.0281	
.402			.0800					
.503								-.2654
.550				-.0309	-.0440			
.565			-.2915					
.600							-.1727	
.637		-.0324						
.650						-.1350		
.670								-.2909
.700					-.1483			
.725				-.1304				
.750						-.2270	-.2385	
.760			-.1675					
.775				-.2731	-.1723			
.798		-.1187						
.808			-.2234					
.834	-.1260							
.839		-.2138						
.850				-.1960	-.1942	-.2206		
.857			-.1819					
.862								-.2652
.865	-.2013							
.879		-.1612						
.900	-.1012			-.1459			-.1870	
.905			-.1451					
.919		-.1178						
.950				-.0534	-.1141	-.0893		
.953			-.0490					
.965		-.0571						
.985	-.0476							
1.000			.0697		.0630		-.0136	

ALPHA (4) = 7.910 BETA (4) = 4.204 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5424	-.6662	-.0418	.3815	.3755	.3488	.2861	
.020	.0000	-.3276	.1732	.3316	.3488	.3465	.3056	-.8705
.040		-.2175	.2602					
.050	-.1496			.2440	.2749	.2597	.2372	
.059								-.5916
.080				.1884				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.910 BETA (4) = 4.204

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2007					
.086		.0762						
.094	-.0635							
.150				.1335	.1558	.1565	.0770	
.157								-.3253
.163		.2120						
.177			.1458					
.229	.0454							
.246		.1142						
.250				.1034	.0971	.0852	.0207	
.274			.1064					
.345								-.3029
.390		.0921						
.400				.0471	.0401		-.0422	
.402			.0696					
.503								-.3322
.550				-.0398	-.0494			
.565			-.2878					
.600							-.1739	
.637		-.0339						
.650						-.1443		
.670								-.3189
.700					-.1554			
.725				-.1409				
.750						-.2246	.2497	
.760			-.1676					
.775				-.2618	-.1570			
.798		-.1319						
.808			-.2142					
.834	-.1352							
.839		-.2155						
.850				-.1931	-.1917	-.2213		
.857			-.1832					
.862								.2784
.865	-.1981							
.879		-.1709						
.900	-.1214			-.1514			-.1834	
.905			-.1454					
.919		-.1304						
.950				-.0538	-.0898	-.0836		
.953			-.0633					
.955		-.0711						
.965	-.0628							
1.000			.0595		.0283		-.0036	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (4) = 7.909 BETA (5) = 8.256 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7399	-.6362	-.2532	.2892	.2954	.2224	.1609	
.020	.0000	-.4201	.0130	.2920	.2990	.2839	.2243	-1.1027
.040		-.3264	.1928					
.050	-.2589			.2378	.2494	.2289	.1893	
.069								-.7698
.080				.1796				
.081			.1845					
.086		-.0051						
.094	-.1402							
.150				.1310	.1447	.1430	.0458	
.157								-.4017
.163		.1746						
.177			.1365					
.229	.0090							
.246		.0959						
.250				.0948	.0891	.0711	-.0047	
.274			.0958					
.345								-.3826
.390		.0900						
.400				.0359	.0332		-.0653	
.402			.0598					
.503								-.3806
.550				-.0396	-.0589			
.565			-.3404					
.600							-.1894	
.637		-.0401						
.650						-.1547		
.670								-.3474
.700					-.1725			
.725				-.1443				
.750						-.2373	-.2628	
.760			-.1753					
.775				-.2627	-.1886			
.798		-.1312						
.808			-.2149					
.834	-.1473							
.839		-.2175						
.850				-.1978	-.2117	-.2351		
.857			-.1860					
.862								-.2726
.865	-.2036							
.879		-.1675						
.900	-.1316			-.1634			-.1882	
.905			-.1524					
.919		-.1380						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (4) = 7.909 BETA (5) = 8.256

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0704	-.0893	-.0945		
.953			-.0697					
.955		-.0831						
.965	-.0804							
1.000			.0617		.0361		.0093	

ALPHA (5) = 11.950 BETA (1) = -7.879 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3233	-.6614	.1266	.6007	.6078	.5285	.4602	
.020	.0000	-.1676	.3879	.5707	.6037	.5916	.5433	-.7738
.040		-.0312	.4625					
.050	.0599			.4554	.5003	.5030	.4827	
.060								-.4184
.080				.3821				
.081			.3769					
.086		.2705						
.094	.1264							
.150				.3033	.3424	.3499	.2840	
.157								-.2182
.163		.3759						
.177			.2885					
.229	.2020							
.246		.2600						
.250				.2513	.2520	.2471	.1914	
.274			.2356					
.345								-.1181
.390		.2105						
.400				.1689	.1714		.1024	
.402			.1832					
.503								-.1835
.550				.0595	.0505			
.565			-.3462					
.600							-.0874	
.637		.0430						
.650						-.0695		
.670								-.2187
.700					-.0934			
.725				-.0708				
.750						-.1624	-.1767	
.760			-.1099					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (5) = 11.950 BETA (1) = -7.879

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1826	-.0998			
.798		-.0726						
.808			-.1633					
.834	-.0853							
.839		-.1614						
.850				-.1549	-.1598	-.1909		
.857			-.1329					
.862							-.2962	
.865	-.1532							
.879		-.1180						
.900	-.0338			-.1327		-.2070		
.905			-.1126					
.919		-.0818						
.950				-.0536	-.0844	-.0928		
.953			-.0353					
.955		-.0258						
.965	.0070							
1.000			.0685		-.0035		-.1253	

ALPHA (5) = 11.968 BETA (2) = -3.871 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5503	-.9078	-.0920	.5021	.5111	.3874	.3154	
.020	.0000	-.3479	.2440	.5157	.5408	.5113	.4478	-1.0057
.040		-.1913	.4051					
.050	-.0492			.4367	.4787	.4642	.4266	
.069								-.5893
.080				.3680				
.081			.3585					
.086		.1824						
.094	.0516							
.150				.2894	.3217	.3254	.2394	
.157								-.2924
.163		.3438						
.177			.2789					
.229	.1616							
.246		.2415						
.250				.2412	.2328	.2264	.1582	
.274			.2259					
.345								-.2111
.390		.2024						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (5) = 11.968 BETA (2) = -3.871

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1607	.1522		.0661	
.402			.1721					-.2601
.503								
.550				.0458	.0331			
.565			-.2981				-.1117	
.600								
.637		.0427				-.0808		
.650								-.2734
.670					-.1075			
.700				-.0898				
.725						-.1807	-.1898	
.750								
.760			-.1229					
.775				-.2042	-.1251			
.798		-.0770						
.808			-.1726					
.834	-.0961							
.839		-.1668						
.850				-.1681	-.1905	-.2100		
.857			-.1473					
.862								-.3211
.865	-.1574							
.879		-.1280						
.900	-.0555			-.1364			-.2136	
.905			-.1250					
.919		-.0951						
.950				-.0559	-.0913	-.1088		
.953			-.0459					
.955		-.0417						
.965	-.0204							
1.000			.0724		-.0057		-.1027	

ALPHA (5) = 11.970 BETA (3) = .156 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7724	-1.1094	-.3270	.3893	.3917	.2390	.1673	
.020	.0000	-.5204	.0756	.4489	.4617	.4275	.3430	-1.2138
.040		-.3597	.3310					
.050	-.1636			.4020	.4354	.4097	.3633	
.069								-.7727
.080				.3368				

AMES 11-073(OA148) -14JA/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (5) = 11.970 BETA (3) = .156

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.3870	.9720
X/CW								
.081			.3269					
.086		.0907						
.094	-.0352							
.150				.2613	.2970	.2949	.1932	
.157								-.3603
.163		.2998						
.177			.2648					
.229	.1102							
.246		.2207						
.250				.2185	.2131	.1983	.1181	
.274			.2136					
.345								-.2967
.390		.1952						
.400				.1423	.1356		.0303	
.402			.1624					
.503								-.3251
.550				.0368	.0154			
.565			-.2999					
.600							-.1383	
.637		.0300						
.650						-.1057		
.670								-.3099
.700					-.1341			
.725				-.1074				
.750						-.1997	-.2187	
.760			-.1385					
.775				-.2165	-.1591			
.798		-.0874						
.808			-.1732					
.834	-.1010							
.839		-.1820						
.850				-.1886	-.2354	-.2297		
.857			-.1593					
.862								-.3218
.865	-.1673							
.879		-.1388						
.900	-.0793			-.1566			-.2270	
.905			-.1378					
.919		-.1121						
.950				-.0697	-.1082	-.1317		
.953			-.0646					
.955		-.0569						
.965	-.0354							
1.000			.0320		.0001		-.0670	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (S) = 11.968 BETA (W) = 4.216 MACH = .59660 Q = 594.43 P = 2395.7 RN/L = 4.8162

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.9826	-.9477	-.5320	.2493	.2654	.0482	-.0167	
.020	.0000	-.5983	-.0987	.3567	.3692	.3187	.2202	-1.4206
.040		-.4545	.2368					
.050	-.2917			.3535	.3821	.3511	.2930	
.069								-.9115
.080				.3008				
.081			.2784					
.086		-.0004						
.094	-.1255							
.150				.2326	.2651	.2647	.1547	
.157								-.4014
.163		.2426						
.177			.2382					
.229	.0541							
.246		.1862						
.250				.1968	.1912	.1788	.0901	
.274			.1957					
.345								-.3350
.390		.1765						
.400				.1249	.1177		.0078	
.402			.1402					
.503								-.3717
.550				.0213	.0000			
.565			-.3008					
.600							-.1498	
.637		.0244						
.650						-.1226		
.670								-.3366
.700					-.1548			
.725				-.1200				
.750						-.2147	-.2299	
.760			-.1465					
.775				-.2284	-.1783			
.798		-.1093						
.808			-.1743					
.834	-.1172							
.839		-.1835						
.860				-.1931	-.2580	-.2376		
.857			-.1731					
.852								-.3089
.865	-.1711							
.879		-.1485						
.900	-.0972			-.1730			-.2380	
.905			-.1492					
.919		-.1204						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L12)

ALPHA (5) = 11.968 BETA (4) = 4.216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0959	-.0756	-.1416		
.953			-.0678					
.955		-.0716						
.965	-.0502							
1.000			.0582		.0207		-.0755	

ALPHA (5) = 11.959 BETA (5) = 8.279 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-1.2481	-.7290	-.7544	.0798	.0983	-.1483	-.2094	
.020	.0000	-.6419	-.2991	.2548	.2549	.1950	.0894	-1.4983
.040		-.5300	.1321					
.050	-.4239			.2950	.3151	.2778	.2067	
.059								-1.0311
.080				.2581				
.081			.2291					
.086		-.0848						
.094	-.2187							
.150				.2052	.2370	.2252	.1154	
.157								-.4575
.163		.1875						
.177			.2203					
.229	.0006							
.246		.1501						
.250				.1763	.1709	.1495	.0565	
.274			.1606					
.345								-.4014
.390		.1568						
.400				.1093	.0976		-.0217	
.402			.1263					
.503								-.4078
.550				.0147	-.0128			
.565			-.3491					
.600							-.1684	
.637		.0197						
.650						-.1385		
.670								-.3519
.700					-.1640			
.725				-.1264				
.750						-.2149	-.2448	
.760			-.1621					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL12)

ALPHA (5) = 11.959 BETA (5) = 8.279

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2200	-.1621			
.798		-.1133						
.808			-.1695					
.834	-.1181							
.839		-.1764						
.850				-.1944	-.2537	-.2365		
.857			-.1666					
.862								-.2969
.865	-.1591							
.879		-.1489						
.900	-.1133			-.1779			-.2374	
.905			-.1499					
.919		-.1299						
.950				-.1042	-.0979	-.1530		
.953			-.0781					
.955		-.0770						
.965	-.0666							
1.000			.0582		.0022		-.0790	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000
BOFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (1) = -4.106 BETA (1) = -3.886 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9728
X/CW								
.010	-.1757	-.2507	-.1406	-.2746	-.3573	-.2234	-.1893	
.020	.0000	-.2435	-.2541	-.4133	-.4014	-.4101	-.4057	-.4585
.040		-.2373	-.3147					
.050	-.1593			-.4461	-.4308	-.4454	-.4372	
.069								-.4904
.080				-.4434				
.081			-.1934					
.086		-.1275						
.094	-.1427							
.150				-.4022	-.3906	-.3944	-.3967	
.157								-.3091
.163		-.0367						
.177			-.1777					
.229	-.1076							
.246		-.1175						
.250				-.2182	-.3639	-.3580	-.3705	
.274			-.1656					
.345								-.4149
.390		-.1413						
.400				-.1753	-.3126		-.3296	
.402			-.1544					
.503								-.3502
.550				-.1395	-.1607			
.565			-.2907					
.600							-.3205	
.637		-.0985						
.650						-.3188		
.670								-.4587
.700					-.2039			
.725				-.1686				
.750						-.2726	-.3593	
.760			-.1891					
.775				-.2179	-.2415			
.798		-.1716						
.808			-.2494					
.834	-.1875							
.839		-.2455						
.850				-.2972	-.2706	-.3073		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (1) = -4.106 BETA (1) = -3.886

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2696					
.862								-.4623
.865	-.2305							
.879		-.2832						
.900	-.1994			-.3419			-.4255	
.905			-.3437					
.919		-.2860						
.950				-.3651	-.3169	-.3659		
.953			-.3650					
.955		-.2882						
.965	-.2744							
1.000			-.0991		-.2001		-.4043	

ALPHA (1) = -4.030 BETA (2) = .154 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0990	-.1180	-.0581	-.2709	-.3714	-.2618	-.2358	
.020	.0000	-.1161	-.1272	-.4071	-.4133	-.4335	-.4339	-.4979
.040		-.1187	-.1794					
.050	-.1041			-.4271	-.4395	-.4635	-.4620	
.069								-.5110
.080				-.3881				
.081			-.1537					
.086		-.0567						
.094	-.0935							
.150				-.3126	-.3929	-.4099	-.4204	
.157								-.3264
.163		.0122						
.177			-.1324					
.229	-.0726							
.246		-.0766						
.250				-.1596	-.3546	-.3676	-.3916	
.274			-.1272					
.345								-.4667
.330		-.0995						
.400				-.1430	-.1542		-.3457	
.402			-.1159					
.503								-.3572
.550				-.1060	-.1347			
.565			-.3196					
.600							-.3276	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (1) = -4.030 BETA (2) = .154

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0776						
.650						-.1827		
.670								-.4418
.700					-.1699			
.725				-.1530				
.750						-.1972	-.3383	
.760			-.1782					
.775				-.2100	-.2121			
.798		-.1614						
.808			-.2318					
.834	-.1684							
.849		-.2295						
.850				-.2817	-.2281	-.2822		
.857			-.2600					
.862								-.5008
.865	-.2144							
.879		-.2636						
.900	-.1921			-.3257			-.3269	
.905			-.3248					
.919		-.2757						
.950				-.3501	-.3291	-.3431		
.953			-.3457					
.955		-.2838						
.965	-.3026							
1.000			-.1122		-.2202		-.3038	

ALPHA (1) = -4.039 BETA (3) = 4.249 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0777	-.0331	.0407	-.2667	-.3861	-.2944	-.2778	
.020	.0000	-.0478	.0026	-.3936	-.4234	-.4529	-.4578	-.5241
.040		-.0419	-.0775					
.050	-.0787			-.3561	-.4455	-.4790	-.4837	
.069								-.5211
.080				-.3410				
.081			-.0969					
.086		-.0037						
.094	-.0857							
.150				-.1865	-.3847	-.4176	-.4374	
.157								-.3398
.163		.0474						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (1) = -4.039 BETA (3) = 4.249

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.0974					
.229	-.0535							
.246		-.0452						
.250				-.1343	-.1836	-.3660	-.4054	
.274			-.0889					
.345								-.4071
.390		-.0617						
.400				-.1041	-.1321		-.3550	
.402			-.0846					
.503								-.3469
.550				-.0902	-.1084			
.565			-.2866					
.600							-.1626	
.637		-.0622						
.650						-.1532		
.670								-.3935
.700					-.1554			
.725				-.1449				
.750						-.1840	-.1974	
.760			-.1703					
.775				-.2055	-.2007			
.798		-.1523						
.808			-.2275					
.834	-.1748							
.839		-.2221						
.850				-.2731	-.2086	-.2698		
.857			-.2566					
.862								-.3683
.865	-.2110							
.879		-.2606						
.900	-.2006			-.3208			-.2964	
.905			-.3167					
.919		-.2750						
.950				-.3500	-.3211	-.3236		
.953			-.3337					
.955		-.2803						
.965	-.3174							
1.000			-.1256		-.2235		-.1429	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (2) = -.033 BETA (1) = -3.905 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0043	.0123	.2063	-.0841	-.1772	-.1081	-.0160	
.020	.0000	-.0200	.1486	-.2165	-.2293	-.2360	-.2561	-.2172
.040		-.0212	.0116					
.050	-.0280			-.2232	-.2386	-.2643	-.2715	
.069								-.2395
.080				-.1793				
.081			-.0390					
.086		.0223						
.094	-.0496							
.150				-.1222	-.1799	-.1958	-.2191	
.157								-.1915
.163		.0944						
.177			-.0426					
.229	-.0411							
.246		-.0184						
.250				-.0634	-.1320	-.1551	-.1855	
.274			-.0485					
.345								-.1593
.390		-.0374						
.400				-.0586	-.0453		-.1439	
.402			-.0464					
.503								-.1647
.550				-.0364	-.0450			
.555			-.3456					
.600							-.1137	
.637		-.0245						
.650						-.0921		
.670								-.2386
.700					-.1153			
.725				-.0977				
.750						-.1187	-.1415	
.760			-.1245					
.775				-.1687	-.1687			
.798		-.1230						
.808			-.1808					
.834	-.1355							
.839		-.1947						
.850				-.2369	-.3082	-.2365		
.857			-.2207					
.862								-.2711
.885	-.1696							
.879		-.2376						
.900	-.1599			-.2937			-.2752	
.905			-.2910					
.919		-.2648						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (1) = -.033 BETA (1) = -3.905

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3425	-.2612	-.3114		
.953			-.3254					
.955		-.2467						
.965	-.2228							
1.000			-.0893		-.1501		-.3618	

ALPHA (2) = -.028 BETA (2) = .144 MACH = 1.3950 Q = 599.83 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0126	-.0002	.2450	-.0819	-.1965	-.1419	-.0651	
.020	.0000	-.0070	.2192	-.1884	-.2323	-.2577	-.2843	-.2490
.040		.0015	.0705					
.050	-.0234			-.1098	-.1944	-.2658	-.2971	
.069								-.2616
.080				-.1071				
.081			.0064					
.086		.0438						
.094	-.0420							
.150				-.0799	-.1366	-.1765	-.2205	
.157								-.1896
.163		.1155						
.177			-.0159					
.229	-.0404							
.246		.0108						
.250				-.0388	-.0561	-.1171	-.1894	
.274			-.0171					
.345								-.1317
.390		-.0104						
.400				-.0350	-.0357		-.0662	
.402			-.0249					
.503								-.0909
.550				-.0226	-.0299			
.565			-.3465					
.600							-.0821	
.637		-.0047						
.650						-.0767		
.670								-.1978
.700					-.0997			
.725				-.0895				
.750						-.1190	-.1430	
.760			-.1162					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (2) = -.028 BETA (2) = .144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1635	-.1531			
.798		-.1156						
.808			-.1641					
.834	-.1212							
.839		-.1793						
.850				-.2247	-.2950	-.2266		
.857			-.2092					
.862							-.2853	
.865	-.1603							
.879		-.2266						
.900	-.1529			-.2807		-.2785		
.905			-.2780					
.919		-.2421						
.950				-.3310	-.2848	-.3060		
.953			-.3119					
.955		-.2319						
.965	-.2385							
1.000			-.1070		-.1707		-.3229	

ALPHA (2) = -.033 BETA (3) = 4.229 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0733	-.0638	.2627	-.0296	-.1749	-.1625	-.0955	
.020	.0000	-.0376	.2461	-.0195	-.1199	-.2173	-.2967	-.1948
.040		-.0203	.1145					
.050	-.0534			-.0808	-.1859	-.2304	-.2898	
.069								-.1833
.080				-.0590				
.081			.0407					
.086		.0407						
.094	-.0494							
.150				-.0424	-.0822	-.1344	-.2023	
.157								-.1687
.163		.1136						
.177			.0064					
.229	-.0497							
.246		.0208						
.250				-.0180	-.0403	-.0394	-.0717	
.274			.0090					
.345								-.0705
.390		.0131						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (2) = -.033 BETA (3) = 4.229

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0126	-.0158		-.0555	
.402			-.0036					
.503								-.0943
.550				-.0088	-.0101			
.565			-.3339					
.600							-.0634	
.637		.0039						
.650						-.0611		
.670								-.2055
.700					-.0872			
.725				-.0818				
.750						-.1131	-.1310	
.760			-.1124					
.775				-.1565	-.1415			
.798		-.1068						
.808			-.'584					
.834	-.1167							
.839		-.1709						
.850				-.2153	-.2762	-.2178		
.857			-.2058					
.862								-.2867
.865	-.1574							
.879		-.2223						
.900	-.1603			-.2699			-.2740	
.905			-.2732					
.919		-.2281						
.950				-.3200	-.2428	-.3035		
.953			-.2960					
.955		-.2285						
.965	-.2458							
1.000			-.1198		-.1779		-.2130	

ALPHA (3) = 3.851 BETA (1) = -3.904 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.8157

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0545	.0138	.3982	.2500	.1749	.1771	.2041	
.020	.0000	.0343	.3719	.1735	.1643	.0874	.0317	.0855
.040		.0490	.2090					
.050	.0456			.0446	.0221	.0163	.0277	
.060								.0513
.080				.0507				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (3) = 3.851 BETA (1) = -3.904

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1253					
.086		.1062						
.094	.0268							
.150				.0468	.0550	.0643	.0751	
.157								-.0723
.163		.1968						
.177			.0857					
.229	.0235							
.246		.0765						
.250				.0733	.0679	.0824	.0613	
.274			.0724					
.345								.0280
.390		.0684						
.400				.0662	.0774		.0565	
.402			.0651					
.503								-.0051
.550				.0668	.0831			
.565			-.3792					
.600							.0052	
.637		.0611						
.650						.0194		
.670								-.1415
.700					-.0190			
.725				-.0200				
.750						-.0241	-.0523	
.760			-.0594					
.775				-.1361	-.0811			
.798		-.0663						
.808			-.1051					
.849	-.0760							
.859		-.1412						
.860				-.1749	-.2838	-.1664		
.857			-.1663					
.862								-.2365
.865	-.1099							
.879		-.1838						
.900	-.1528			-.2390			-.2246	
.905			-.2322					
.919		-.2321						
.950				-.3012	-.2598	-.2651		
.953			-.2713					
.955		-.2000						
.965	-.1532							
1.000			-.0928		-.1434		-.4035	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (3) = 3.949 BETA (2) = .141 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0311	-.1470	.3486	.3025	.2016	.1886	.2033	
.020	.0000	-.0586	.3508	.2247	.1810	.1174	.0596	.0618
.040		-.0296	.2286					
.050	.0141			.1084	.0615	.0904	.0526	
.069								.0390
.080				.0952				
.081			.1483					
.086		.0631						
.094	.0044							
.150				.0736	.0844	.0930	.1078	
.157								-.0796
.163		.1773						
.177			.0948					
.229	.0065							
.246		.0891						
.270				.0936	.0854	.0951	.0725	
.274			.0943					
.345								.0058
.390		.0844						
.400				.0802	.0942		.0646	
.402			.0749					
.503								-.0223
.550				.0792	.0889			
.565			-.4056					
.600							.0148	
.637		.0747						
.650						.0244		
.670								-.1535
.700					-.0151			
.725				-.0157				
.750						-.0358	-.0547	
.760			-.0449					
.775				-.1151	-.0743			
.798		-.0482						
.808			-.0885					
.834	-.0557							
.839		-.1182						
.850				-.1602	-.2729	-.1680		
.857			-.1536					
.862								-.2510
.865	-.0960							
.879		-.1695						
.900	-.1269			-.2216			-.2216	
.905			-.2200					
.919		-.2042						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (3) = 3.949 BETA (2) = .141

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2844	-.2577	-.2702		
.953			-.2616					
.955		-.1878						
.965	-.1508							
1.000			-.1233		-.1227		-.3679	

ALPHA (3) = 3.862 BETA (3) = 4.219 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1607	-.3718	.2664	.3343	.2293	.2083	.2278	
.020	.0000	-.1897	.2998	.2626	.2035	.1489	.1142	.0020
.040		-.1458	.2279					
.050	-.0522			.1504	.0997	.1126	.1064	
.069								.0022
.080				.1338				
.081			.1478					
.086		-.0105						
.094	-.0421							
.150				.0867	.1073	.1138	.1200	
.157								-.0994
.163		.1419						
.177			.0989					
.229	-.0198							
.246		.0843						
.250				.0981	.0968	.1016	.0770	
.274			.1022					
.345								-.0102
.390		.0885						
.400				.0934	.1173		.0778	
.402			.0858					
.503								-.0337
.550				.0807	.0904			
.565			-.3886					
.600							.0208	
.637		.0819						
.650						.0289		
.670								-.1750
.700					-.0098			
.725				-.0098				
.750						-.0528	-.0643	
.760			-.0439					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (3) = 3.862 BETA (3) = 4.219

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0988	-.0622			
.798		-.0465						
.808			-.0645					
.834	-.0540							
.839		-.1123						
.850				-.1541	-.2624	-.1693		
.857			-.1469					
.862							-.2782	
.865	-.1002							
.879		-.1685						
.900	-.1153			-.2135		-.2327		
.905			-.2193					
.919		-.1862						
.950				-.2733	-.2384	-.2748		
.953			-.2465					
.955		-.1869						
.965	-.1608							
1.000			-.1426		-.1269		-.2253	

ALPHA (4) = 7.881 BETA (1) = -3.904 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0117	-.1231	.4321	.5098	.4530	.5175	.5322	
.020	.0000	.0052	.4563	.3819	.4028	.4080	.4011	.1381
.040		.0415	.3500					
.060	.0866			.2757	.2725	.3119	.3553	
.069								.1526
.080				.2420				
.081			.2625					
.086		.1515						
.094	.0805							
.150				.1946	.2548	.2803	.2922	
.157								-.0401
.163		.2850						
.177			.1999					
.229	.0850							
.246		.1722						
.250				.2060	.2227	.2458	.2204	
.274			.1949					
.345								.1237
.390		.1770						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (4) = 7.881 BETA (1) = -3.904

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1940	.2465		.2023	
.402			.1755					
.503								.0899
.550				.1776	.1969			
.565			-.4327					
.600							.1172	
.637		.1589						
.650						.1190		
.670								-.0725
.700					.0626			
.725				.0579				
.750						.0367	.0164	
.760			.0189					
.775				-.0807	-.0067			
.798		.0072						
.808			-.0254					
.834	-.0043							
.859		-.0720						
.860				-.1029	-.2346	-.1091		
.857			-.0992					
.862								-.1834
.865	-.0413							
.879		-.1149						
.900	-.1031			-.1739			-.1564	
.905			-.1705					
.919		-.1815						
.950				-.2489	-.2246	-.2231		
.953			-.2180					
.955		-.1627						
.965	-.0735							
1.000			-.1262		-.2586		-.3850	

ALPHA (4) = 7.933 BETA (2) = .128 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1321	-.3389	.2805	.5170	.4629	.5250	.5217	
.020	.0000	-.1240	.3549	.4172	.4137	.4289	.4107	.0221
.040		-.0744	.3229					
.050	.0200			.3110	.2895	.3275	.3625	
.069								.0639
.080				.2660				

AMES 11-073(OA148) -140A/B/C/R ORB LEF: WING BOT (XEBL13)

ALPHA (4) = 7.93 BETA (2) = .128

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2418					
.086		.0694						
.094	.0297							
.150				.2057	.2583	.2793	.2864	
.157								-.0584
.163		.2342						
.177			.1916					
.229	.0553							
.246		.1583						
.250				.2032	.2269	.2453	.2166	
.274			.1952					
.345								.0836
.390		.1728						
.400				.1935	.2386		.2107	
.402			.1769					
.503								.0481
.550				.1758	.1932			
.565			-.4342					
.600							.1021	
.637		.1588						
.650						.1142		
.670								-.1087
.700					.0657			
.725				.0614				
.750						.0228	-.0028	
.760			.0253					
.775				-.0488	-.0012			
.798		.0214						
.808			-.0148					
.834	.0139							
.849		-.0507						
.850				-.0965	-.2388	-.1144		
.857			-.0897					
.862								-.2276
.865	-.0326							
.879		-.1120						
.900	-.0790			-.1639			-.1807	
.905			-.1598					
.919		-.1563						
.950				-.2374	-.2198	-.2350		
.953			-.2067					
.955		-.1427						
.965	-.0913							
1.000			-.1596		-.1917		-.4112	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (4) = 7.934 BETA (3) = 4.214 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2817	-.4267	.1044	.4842	.4543	.5056	.5059	
.020	.0000	-.2198	.2144	.4181	.4139	.4292	.4203	-.0965
.040		-.1650	.2533					
.050	-.0535			.3186	.3068	.3297	.3664	
.069								-.0196
.080				.2618				
.081			.1981					
.086		.0046						
.094	-.0159							
.150				.2051	.2613	.2732	.2875	
.157								-.0851
.163		.1755						
.177			.1739					
.229	.021							
.246		.1344						
.250				.1976	.2261	.2435	.2288	
.274			.1853					
.345								.0377
.390		.1541						
.400				.1939	.2351		.2186	
.402			.1748					
.503								.0118
.550				.1740	.1930			
.565			-.4129					
.600							.0980	
.637		.1662						
.650						.1227		
.670								-.1306
.700					.0740			
.725				.0676				
.750						.0232	-.0096	
.760			.0269					
.775				-.0187	.0105			
.798		.0258						
.808			-.0084					
.834	.0159							
.839		-.0469						
.850				-.0844	-.2384	-.1117		
.857			-.0812					
.862								-.2497
.865	-.0382							
.879		-.1145						
.900	-.0661			-.1555			-.1796	
.910			-.1602					
.919		-.1328						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (4) = 7.934 BETA (3) = 4.214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2196	-.1984	-.2278		
.953			-.1884					
.955		-.1447						
.965	-.1171							
1.000			-.1862		-.1558		-.3717	

ALPHA (5) = 11.884 BETA (1) = -3.887 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1095	-.2770	.3728	.6786	.6544	.7245	.7235	
.020	.0000	-.0352	.4754	.5716	.6017	.6274	.6449	.0702
.040		.0233	.4581					
.050	.0998			.4680	.4901	.5184	.5585	
.069								.1497
.080				.4026				
.081			.3776					
.086		.1857						
.094	.1273							
.150				.3475	.4160	.4448	.4440	
.157								-.0074
.163		.3648						
.177			.3186					
.223	.1576							
.246		.2736						
.250				.3418	.3772	.3982	.3792	
.274			.3179					
.345								.1832
.390		.2942						
.400				.3241	.3810		.3517	
.402			.3027					
.503								.1534
.550				.2842	.3061			
.565			-.4444					
.600							.1988	
.637		.2565						
.650						.2154		
.670								-.0191
.700					.1516			
.725				.1534				
.750						.1221	.0906	
.760			.1066					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (5) = 11.884 BETA (1) = -3.887

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.0112	.0772			
.798		.1019						
.808			.0611					
.834	.0914							
.83		.0071						
.850				-.0287	-.1743	-.0418		
.857			-.0206					
.862							-.1481	
.865	.0466							
.879		-.0436						
.900	-.0078			-.1050		-.0815		
.905			-.0938					
.919		-.0983						
.950				-.1879	-.1482	-.1702		
.963			-.1516					
.955		-.0814						
.965	-.0170							
1.000			-.2444		-.3001		-.4627	

ALPHA (5) = 11.891 BETA (2) = .152 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2441	-.3787	.1932	.6203	.6163	.6641	.6639	
.020	.0000	-.1412	.3250	.5442	.5711	.5961	.6090	-.0739
.040		-.0782	.3737					
.050	.0256			.4536	.4747	.4959	.5327	
.069								.0446
.080				.3917				
.081			.3169					
.086		.1066						
.094	.0733							
.150				.3415	.4005	.4231	.4331	
.157								-.0486
.163		.2984						
.177			.2906					
.229	.1153							
.246		.2385						
.250				.3254	.3576	.3901	.3843	
.274			.3029					
.345								.1192
.390		.2744						

AMES 11-073(OA148) -140/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (5) = 11.891 BETA (2) = .152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720
X/CW								
.400				.3133	.3652		.3231	
.402			.2875					
.503								.0979
.550				.2785	.2990			
.565			-.4740					
.600							.1737	
.637		.2597						
.650						.2064		
.670								-.0595
.700					.1462			
.725				.1493				
.750						.0964	.0665	
.760			.1065					
.775				.0439	.0749			
.798		.1061						
.808			.0785					
.834	.1013							
.839		.0311						
.850				-.0129	-.1838	-.0473		
.857			-.0051					
.862								-.1917
.865	.0434							
.879		-.0417						
.900	.0036			-.0922			-.1192	
.905			-.0897					
.919		-.0796						
.950				-.1729	-.1497	-.1729		
.953			-.1407					
.955		-.0932						
.965	-.0424							
1.000			-.1892		-.2548		-.4807	

ALPHA (5) = 11.887 BETA (3) = 4.229 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3486	-.4368	.0016	.5222	.5386	.5713	.5715	
.020	.0000	-.2337	.1755	.4905	.5231	.5423	.5532	-.2004
.040		-.1710	.2858					
.050	-.0451			.4139	.4431	.4579	.4977	
.069								-.0542
.080				.3566				

AMES 11-073(OA148) -140A/B/C/R ORG LEFT WING BOT (XEBL13)

ALPHA (5) = 11.887 BETA (3) = 4.229

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2970	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2514					
.086		.0248						
.094	.0154							
.150				.3114	.3724	.4054	.4166	
.157								-.0884
.163		.2277						
.177			.2486					
.229	.0720							
.246		.1949						
.250				.2979	.3327	.3776	.3526	
.274			.2792					
.345								.0741
.390		.2400						
.400				.2995	.3522		.3146	
.402			.2728					
.503								.0593
.550				.2678	.2901			
.565			-.4453					
.600							.1743	
.637		.2526						
.650						.1967		
.670								-.0847
.700					.1459			
.725				.1427				
.750						.0838	.0462	
.760			.0965					
.775				.0666	.0731			
.798		.0962						
.808			.0666					
.834	.0877							
.839		.0324						
.850				-.0020	-.1965	-.0543		
.857			-.0081					
.882								-.2099
.885	.0246							
.879		-.0398						
.900	.0109			-.0847			-.1224	
.905			-.0926					
.919		-.0605						
.950				-.1595	-.1546	-.1654		
.953			-.1153					
.955		-.0919						
.965	-.0678							
1.000			-.2442		-.1546		-.4691	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (6) = 15.988 BETA (1) = -3.863 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2047	-.3199	.2886	.7589	.7721	.7999	.7913	
.020	.0000	-.0504	.4540	.6947	.7386	.7621	.7694	-.0236
.040		.0201	.5149					
.050	.1220			.6063	.6460	.6795	.7072	
.069								.1308
.080				.5433				
.081			.4603					
.086		.2236						
.094	.1734							
.150				.4938	.5517	.6032	.5772	
.157								-.0108
.163		.4432						
.177			.4314					
.229	.2222							
.246		.3589						
.250				.4590	.5177	.5560	.5074	
.274			.4359					
.345								.2273
.390		.4064						
.400				.4564	.5122		.4577	
.402			.4129					
.503								.2050
.550				.4072	.4171			
.565			-.4763					
.600							.2876	
.637		.3717						
.650						.3078		
.670								.0286
.700					.2419			
.725				.2429				
.750						.1898	.1458	
.760			.1904					
.775				.1185	.1444			
.798		.1988						
.808			.1496					
.834	.1938							
.839		.0896						
.850				.0476	-.1207	.0192		
.857			.0597					
.862								-.1116
.865	.1253							
.879		.0125						
.900	.0412			-.0420			-.0341	
.905			-.0376					
.919		-.0413						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (6) = 15.888 BETA (1) = -3.863

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1293	-.1054	-.1128		
.953			-.1099					
.955		-.0596						
.965	-.0036							
1.000			-.2381		-.3674		-.5399	

ALPHA (6) = 15.865 BETA (2) = .152 MACH = 1.3035 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3042	-.3942	.0980	.6549	.6874	.6910	.6773	
.020	.0000	-.1534	.2967	.6304	.6780	.6939	.6693	-.1500
.040		-.0829	.4258					
.050	.0444			.5684	.6148	.6295	.6517	
.069								.0211
.080				.5119				
.081			.3888					
.086		.1391						
.094	.1067							
.150				.4652	.5293	.5765	.5387	
.157								-.0571
.163		.3706						
.177			.3916					
.229	.1752							
.246		.3203						
.250				.4394	.4917	.5328	.4757	
.274			.4148					
.345								.1644
.390		.3803						
.400				.4359	.4919		.4284	
.402			.4065					
.503								.1567
.550				.4043	.4032			
.565			-.4775					
.600							.2678	
.637		.3682						
.650						.2915		
.670								-.0007
.700					.2485			
.725				.2499				
.750						.1767	.1247	
.760			.1988					

AMES 11-073(OA148) -140A/E/C/R ORB LEFT WING BOT (XE8L13)

ALPHA (6) = 15.865 BETA (2) = .152

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.1612	.1502			
.798		.2046						
.808			.1620					
.834	.1951							
.839		.1053						
.850				.0628	-.1361	.0113		
.857			.0608					
.862							-.1420	
.865	.1206							
.879		.0151						
.900	.0751			-.0333			-.0540	
.905			-.0393					
.919		-.0125						
.950				-.1203	-.1069	-.1004		
.953			-.0753					
.955		-.0406						
.965	-.0104							
1.000			-.2973		-.3011		-.5572	

ALPHA (6) = 15.903 BETA (3) = 4.263 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3770	-.4711	-.0834	.5290	.5780	.5643	.5518	
.020	.0000	-.2440	.1403	.5479	.5979	.6145	.6031	-.2452
.040		-.1751	.3174					
.050	-.0258			.5057	.5570	.5751	.5036	
.069								-.0569
.080				.4646				
.081			.3167					
.086		.0589						
.094	.0502							
.150				.4300	.4952	.5340	.5113	
.157								-.0930
.163		.2947						
.177			.3404					
.229	.1260							
.246		.2700						
.250				.4083	.4661	.5069	.4631	
.274			.3826					
.345								.1131
.390		.3459						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL13)

ALPHA (6) = 15.903 BETA (3) = 4.263

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.4142	.4640		.4084	
.402			.3840					
.503								.1058
.550				.3785	.3915			
.565			-.4471					
.600							.2538	
.637		.3552						
.650						.2785		
.670								-.0185
.700					.2459			
.725				.2398				
.750						.1674	.1151	
.760			.1925					
.775				.1701	.1482			
.798		.1983						
.808			.1607					
.834	.1800							
.839		.1043						
.850				.0654	-.1479	-.0007		
.857			.0597					
.862								-.1538
.865	.1087							
.879		.0322						
.900	.0891			-.0322			-.0609	
.905			-.0261					
.919		.0020						
.950				-.1098	-.1082	-.0988		
.953			-.0519					
.955		-.0389						
.965	-.0161							
1.000			-.2676		-.2594		-.5217	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L14) (05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.0680 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	.000	SPDBRK =	35.000
BDFLAP =	.000	L-ELVN =	.000
R-ELVN =	.000	MACH =	1.250

ALPHA (1) = -4.010 BETA (1) = -3.884 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1507	-.2827	-.1981	-.4052	-.5083	-.3546	-.3266	
.020	.0000	-.2687	-.3051	-.5542	-.5479	-.5663	-.5586	-.6061
.040		-.2625	-.3422					
.050	-.1516			-.5780	-.5742	-.5998	-.5881	
.069								-.6584
.080				-.5395				
.081			-.2375					
.086		-.1438						
.094	-.1499							
.150				-.4975	-.5145	-.5301	-.5431	
.157								-.3973
.163		-.0550						
.177			-.2173					
.229	-.1312							
.246		-.1378						
.250				-.2389	-.4635	-.4792	-.4996	
.274			-.1973					
.345								-.5590
.390		-.1621						
.400				-.1985	-.2805		-.4451	
.402			-.1643					
.503								-.5564
.550				-.1439	-.1783			
.565			-.3754					
.600							-.4249	
.637		-.1074						
.650						-.2305		
.670								-.6077
.700					-.2231			
.725				-.1932				
.750						-.2386	-.4684	
.760			-.2151					
.775				-.2580	-.2691			
.798		-.1960						
.808			-.2906					
.834	-.2120							
.839		-.2891						
.850				-.3530	-.2786	-.3408		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (1) = -4.010 BETA (1) = -3.884

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.3210					
.862								-.5743
.865	-.2734							
.879		-.3334						
.900	-.2340			-.3937			-.4727	
.905			-.4034					
.919		-.3353						
.950				-.4119	-.4182	-.4124		
.953			-.4219					
.955		-.3406						
.965	-.3333							
1.000			-.0945		-.2212		-.2016	

ALPHA (1) = -3.944 BETA (2) = .148 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1005	-.1295	-.0856	-.4051	-.5307	-.4007	-.3772	
.020	.0007	.1393	-.1415	-.5503	-.5702	-.5928	-.5970	-.6582
.040		-.1295	-.1969					
.050	-.1136			-.5229	-.5909	-.6239	-.6255	
.069								-.6832
.080				-.4936				
.081			-.1881					
.086		-.0696						
.094	-.1145							
.150				-.2844	-.5061	-.5445	-.5683	
.157								-.4155
.163		-.0006						
.177			-.1659					
.229	-.0912							
.246		-.0998						
.250				-.1848	-.3869	-.4914	-.5259	
.274			-.1415					
.345								-.6001
.390		-.1029						
.400				-.1442	-.1663		-.4626	
.402			-.1184					
.503								-.4651
.550				-.1176	-.1339			
.565			-.4183					
.600							-.3296	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (1) = -3.944 BETA (2) = .148

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0896						
.650						-.1800		
.670								-.6147
.700					-.1996			
.725				-.1856				
.750						-.2230	-.2528	
.760			-.2159					
.775				-.2602	-.2647			
.798		-.1910						
.808			-.2906					
.834	-.2026							
.839		-.2845						
.850				-.3434	-.2816	-.3258		
.857			-.3186					
.862								-.5155
.865	-.2653							
.879		-.3258						
.900	-.2398			-.4026			-.3567	
.905			-.4009					
.919		-.3360						
.950				-.4237	-.3950	-.3996		
.953			-.4207					
.955		-.3518						
.965	-.3733							
1.000			-.1369		-.2511		-.1414	

ALPHA (1) = -4.009 BETA (3) = 4.237 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0947	-.0493	.0159	-.3935	-.5404	-.4336	-.4187	
.020	.0000	-.0650	-.0021	-.5307	-.5776	-.6125	-.6187	-.6919
.040		-.0547	-.0945					
.050	-.1042			-.4535	-.5915	-.6363	-.6452	
.069								-.6889
.080				-.3779				
.091			-.1151					
.096		-.0129						
.094	-.0968							
.150				-.2116	-.4695	-.5467	-.5725	
.157								-.4217
.163		.0574						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L14)

ALPHA (1) = -4.009 BETA (3) = 4.237

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1106					
.229	-.0657							
.246		-.0509						
.250				-.1432	-.1895	-.4206	-.5338	
.274			-.0909					
.345								-.6315
.390		-.0635						
.400				-.1077	-.1352		-.3683	
.402			-.0895					
.503								-.5638
.550				-.0947	-.1141			
.595			-.3624					
.600							-.1583	
.637		-.0792						
.650						-.1669		
.670								-.2882
.700					-.1876			
.725				-.1807				
.750						-.2218	-.2346	
.760			-.2117					
.775				-.2618	-.2554			
.798		-.1847						
.808			-.2855					
.834	-.2103							
.839		-.2794						
.850				-.3403	-.2999	-.3282		
.857			-.3161					
.862								-.3150
.865	-.2619							
.879		-.3192						
.900	-.2479			-.4010			-.3450	
.905			-.3925					
.919		-.3347						
.950				-.4383	-.3877	-.4002		
.953			-.4091					
.955		-.3447						
.965	-.3899							
1.000			-.1512		-.2761		-.1654	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (2) = .205 BETA ( ) = -3.866 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

ETA/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0059	.0152	.2234	-.1736	-.2840	-.2086	-.1150	
.020	.0000	-.0177	.1816	-.3141	-.3423	-.3489	-.3829	-.3138
.040		-.0148	-.0070					
.050	-.0267			-.2233	-.3166	-.3655	-.3897	
.069								-.3415
.083				-.1988				
.081			-.0450					
.086		.0252						
.094	-.0542							
.152				-.1350	-.2152	-.2555	-.3017	
.157								-.2323
.163		.0943						
.177			-.0592					
.229	-.0587							
.246		-.0276						
.250				-.0789	-.0970	-.1806	-.2538	
.274			-.0543					
.345								-.1874
.390		-.0383						
.400				-.0612	-.0843		-.0957	
.402			-.0493					
.503								-.1239
.550				-.0355	-.0443			
.565			-.4263					
.600							-.1070	
.637		-.0212						
.650						-.0944		
.670								-.2579
.700					-.1279			
.725				-.1161				
.750						-.1498	-.1818	
.760			-.1423					
.775				-.1935	-.1962			
.798		-.1325						
.808			-.2144					
.834	-.1523							
.839		-.2268						
.850				-.2838	-.2708	-.2795		
.857			-.2586					
.862								-.3387
.865	-.1979							
.879		-.2786						
.900	-.1710			-.3434			-.3353	
.905			-.3426					
.919		-.2929						

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AMES 11-[illegible]3(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (2) = .205 BETA (1) = -3.866

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3783	-.2769	-.3788		
.953			-.3800					
.955		-.2822						
.955	-.2693							
1.000			-.0564		-.1898		-.2332	

ALPHA (2) = .220 BETA (2) = .185 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0405	-.0018	.2623	-.1468	-.2956	-.2470	-.1646	
.020	.0000	-.0103	.2325	-.1581	-.2579	-.3621	-.4147	-.3035
.040		.0023	.0575					
.060	-.0488			-.1687	-.2815	-.3455	-.4124	
.069								-.2995
.080				-.1423				
.081			.0063					
.086		.0468						
.094	-.0668							
.150				-.0979	-.1447	-.2189	-.3059	
.157								-.2096
.163		.1155						
.177			-.0332					
.229	-.0466							
.246		.0008						
.250				-.0469	-.0763	-.0768	-.1022	
.274			-.0254					
.345								-.1100
.390		-.0034						
.400				-.0254	-.0241		-.0806	
.402			-.0119					
.503								-.1327
.550				-.0143	-.0220			
.565			-.4758					
.600							-.0906	
.637		-.0041						
.650						-.0785		
.670								-.2449
.700					-.1162			
.725				-.1077				
.750						-.1466	-.1797	
.760			-.1438					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (2) = .220 BETA (2) = .185

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1910	-.1884			
.798		-.1331						
.808			-.2084					
.834	-.1467							
.839		-.2212						
.850				-.2764	-.2834	-.2775		
.857			-.2530					
.862							-.3364	
.865	-.2021							
.879		-.2764						
.900	-.1820			-.3442			-.3334	
.905			-.3406					
.919		-.2818						
.950				-.3890	-.2943	-.3768		
.953			-.3714					
.955		-.2835						
.955	-.2949							
1.000			-.1016		-.2086		-.1321	

ALPHA (2) = .215 BETA (3) = 4.264 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1269	-.0755	.2926	-.0211	-.2254	-.2477	-.1811	
.020	.0000	-.0439	.2661	-.0422	-.1548	-.3143	-.4081	-.1644
.040		-.0233	.1226					
.060	-.0846			-.0945	-.2162	-.2522	-.3204	
.079								-.1640
.080				-.0652				
.081			.0492					
.086		.0464						
.094	-.0907							
.150				-.0563	-.0776	-.0841	-.0828	
.157								-.1599
.163		.1250						
.177			.0030					
.229	-.0571							
.246		.0359						
.250				-.0140	-.0379	-.0523	-.0861	
.274			.0125					
.345								-.0995
.390		.0245						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (2) = .215 BETA (3) = 4.264

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0006	.0180		-.0470	
.402			.0113					-.1212
.503				-.0013	-.0063			
.550			-.4246				-.0887	
.565								
.600		.0030				-.0742		-.2583
.637					-.1108			
.650				-.1064		-.1503	-.1908	
.670			-.1421					
.700				-.1911	-.1828			
.725		-.1298						
.750			-.2051					
.760	-.1446							
.775		-.2125		-.2721	-.2586	-.2830		
.788			-.2501					-.3598
.808								
.834	-.2031							
.839		-.2665					-.3453	
.850	-.1891			-.3429				
.857			-.3346					
.862		-.2713						
.865				-.3873	-.2910	-.3765		
.879			-.3512					
.900		-.2793						
.905	-.3006							
.919			-.1305		-.2420		-.1386	
.950								
.953								
.955								
.965								
1.000								

ALPHA (3) = 3.903 BETA (1) = -3.872 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0411	-.0402	.4238	.2307	.1239	.1337	.1849	
.020	.0000	-.0007	.3892	.1244	.1127	.0534	-.0008	.0736
.040		.0223	.2166					
.050	.0392			.0413	-.0005	.0304	.0134	
.069								.0344
.080				.0435				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L14)

ALPHA (3) = 3.903 BETA (1) = -3.872

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7900	.8870	.9720
X/CW								
.081			.1290					
.086		.0970						
.094	.0154							
.150				.0325	.0488	.0707	.0786	
.157								-.0940
.163		.2046						
.177			.0752					
.229	-.0042							
.246		.0778						
.250				.0679	.0629	.0736	.0415	
.274			.0750					
.345								.0061
.390		.0721						
.400				.0719	.0919		.0487	
.402			.0636					
.503								-.0299
.550				.0684	.0786			
.565			-.4656					
.600							-.0100	
.637		.0683						
.650						.0033		
.670								-.1844
.700					-.0481			
.725				-.0398				
.750						-.0712	-.1056	
.760			-.0690					
.775				-.1489	-.1211			
.798		-.0711						
.808			-.1289					
.834	-.0757							
.839		-.1592						
.850				-.2158	-.2982	-.2342		
.857			-.1926					
.862								-.2872
.865	-.1248							
.879		-.2189						
.900	-.1414			-.2909			-.2800	
.905			-.2769					
.919		-.2493						
.950				-.3565	-.2804	-.3502		
.953			-.3290					
.955		-.2194						
.955	-.1953							
1.000			-.0408		-.1130		-.2937	

AMES 11-073(OA148) -140A/B/C/P ORB LEFT WING BOT (XEBL14)

ALPHA (3) = 3.903 BETA (2) = .184 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0861	-.2265	.3650	.2789	.1579	.1496	.1817	
.020	.0000	-.1080	.3646	.1726	.1331	.0835	.0401	.0233
.040		-.0715	.2440					
.050	-.0218			.1071	.0349	.0603	.0552	
.069								.0012
.080				.0898				
.081			.1485					
.086		.0603						
.094	-.0241							
.150				.0557	.0883	.0892	.0792	
.157								-.1076
.163		.1938						
.177			.0802					
.223	-.0236							
.246		.0850						
.260				.0866	.0776	.0821	.0387	
.274			.0918					
.345								-.0090
.390		.0930						
.400				.0892	.1108		.0702	
.402			.0831					
.503								-.0475
.550				.0814	.0945			
.565			-.5112					
.600							-.0147	
.637		.0845						
.650						.0024		
.670								-.2111
.700					-.0471			
.725				-.0357				
.750						-.0776	-.1138	
.760			-.0740					
.775				-.1351	-.1122			
.798		-.0696						
.808			-.1252					
.834	-.0778							
.839		-.1537						
.850				-.2114	-.2972	-.2353		
.857			-.1939					
.862								-.3211
.865	-.1381							
.879		-.2201						
.900	-.1497			-.2862			-.2879	
.905			-.2818					
.919		-.2384						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L14)

ALPHA (3) = 3.003 BETA (2) = .184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3563	-.2808	-.3497		
.953			-.3245					
.955		-.2291						
.965	-.1991							
1.000			-.0965		-.1174		-.2499	

ALPHA (3) = 3.907 BETA (3) = 4.256 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2460	-.3614	.2783	.3377	.2048	.2203	.2393	
.020	.0000	-.2147	.3155	.2346	.1747	.1639	.1163	-.0411
.040		-.1699	.2492					
.050	-.0944			.1653	.0845	.1093	.1156	
.069								-.0344
.080				.1308				
.081			.1715					
.086		.0067						
.094	-.0766							
.150				.0982	.1177	.1105	.1032	
.157								-.1231
.163		.1689						
.177			.1098					
.229	-.0617							
.246		.0992						
.250				.1093	.0987	.1060	.0716	
.274			.1174					
.345								-.0485
.390		.1065						
.400				.1163	.1376		.0920	
.402			.1103					
.503								-.0846
.550				.0908	.0984			
.565			-.4650					
.600							-.0237	
.637		.0907						
.650						.0050		
.670								-.2392
.700					-.0457			
.725				-.0303				
.750						-.0982	-.1231	
.760			-.0733					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (3) = 3.907 BETA (3) = 4.256

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1295	-.1124			
.798		-.0680						
.808			-.1205					
.834	-.0766							
.839		-.1488						
.850				-.2052	-.2955	-.2381		
.857			-.1889					
.862								-.3581
.865	-.1422							
.879		-.2135						
.900	-.1372			-.2829			-.3129	
.905			-.2785					
.919		-.2211						
.950				-.3521	-.2813	-.3517		
.953			-.2965					
.955		-.2278						
.965	-.2080							
1.000			-.1486		-.1431		-.2252	

ALPHA (4) = 7.853 BETA (1) = -3.870 MACH = 1.2489 Q = 600.88 P = 552.06 RN/L = 3.0236

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0315	-.2343	.3999	.5406	.4802	.5620	.5758	
.020	.0000	-.0607	.4518	.4084	.4190	.4419	.4556	.0847
.040		-.0160	.3715					
.050	.0700			.3106	.3109	.3430	.3794	
.069								.1235
.080				.2540				
.081			.2732					
.086		.1270						
.094	.0650							
.150				.2161	.2755	.3004	.2888	
.157								-.0588
.163		.2059						
.177			.2047					
.229	.0572							
.246		.1784						
.250				.2191	.2328	.2778	.2343	
.274			.2009					
.345								.0790
.390		.1848						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (4) = 7.853 BETA (1) = -3.870

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2128	.2922		.2236	
.402			.1941					
.503								.0410
.550				.1967	.1884			
.565			-.5004					
.600							.0714	
.637		.1713						
.650						.0998		
.670								-.1307
.700					.0324			
.725				.0403				
.750						-.0111	-.0472	
.760			-.0004					
.775				-.0785	-.0521			
.798		.0048						
.808			-.0525					
.834	.0031							
.839		-.0941						
.850				-.1469	-.2693	-.1827		
.857			-.1259					
.862								-.2590
.865	-.0527							
.879		-.1644						
.900	-.1019			-.2382			-.2284	
.905			-.2202					
.919		-.2001						
.950				-.3180	-.2767	-.3122		
.953			-.2846					
.955		-.1832						
.965	-.1196							
1.000			-.0878		-.2351		-.4679	

ALPHA (4) = 7.959 BETA (2) = .181 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0238

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2182	-.4627	.2201	.5453	.4930	.5487	.5522	
.020	.0000	-.2041	.3317	.4403	.4410	.4479	.4551	-.0453
.040		-.1453	.3244					
.050	-.0233			.3435	.3371	.3511	.3824	
.069								.0199
.080				.2824				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (4) = 7.959 BETA (2) = .181

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2495					
.086		.0338						
.094	.0026							
.150				.2410	.2796	.3040	.2939	
.157								-.0907
.163		.2358						
.177			.2123					
.229	.0262							
.246		.1510						
.250				.2261	.2506	.2859	.2341	
.274			.2159					
.345								.0308
.390		.1970						
.400				.2334	.2891		.2118	
.402			.2074					
.503								-.0022
.550				.2055	.1998			
.565			-.5472					
.600							.0607	
.637		.1896						
.650						.0941		
.670								-.1701
.700					.0331			
.725				.0480				
.750						-.0251	-.0636	
.760			.0044					
.775				-.0587	-.0433			
.798		.0138						
.808			-.0427					
.834	.0068							
.839		-.0849						
.850				-.1384	-.2705	-.1842		
.857			-.1244					
.862								-.3074
.865	-.0651							
.879		-.1640						
.900	-.0864			-.2258			-.2472	
.905			-.2220					
.919		-.1807						
.950				-.3141	-.2755	-.3084		
.953			-.2611					
.955		-.1845						
.965	-.1396							
1.000			-.1453		-.1651		-.4411	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (4) = 7.960 BETA (3) = 4.251 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0236

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3966	-.5237	.0630	.5073	.4758	.5209	.5287	
.020	.0000	-.3084	.1994	.4274	.4288	.4428	.4600	-.1956
.040		-.2427	.2573					
.050	-.1073			.3418	.3381	.3512	.3910	
.069								-.0895
.080				.2816				
.081			.2048					
.086		-.0387						
.094	-.0608							
.150				.2468	.2807	.3136	.2973	
.157								-.1275
.163		.1816						
.177			.1975					
.229	-.0186							
.246		.1287						
.250				.2275	.2712	.2909	.2291	
.274			.2176					
.345								-.0227
.390		.1989						
.400				.2438	.2790		.1985	
.402			.2255					
.503								-.0495
.550				.1965	.1937			
.565			-.4844					
.600							.0483	
.637		.1847						
.650						.0772		
.670								-.2103
.700					.0313			
.725				.0444				
.750						-.0413	-.0878	
.760			.0023					
.775				-.0502	-.0448			
.798		.0069						
.808			-.0406					
.834	-.0018							
.839		-.0808						
.850				-.1343	-.2725	-.1908		
.857			-.1237					
.862								-.3467
.865	-.0745							
.879		-.1531						
.900	-.0781			-.2245			-.2651	
.905			-.2174					
.919		-.1684						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L14)

ALPHA (4) = 7.960 BETA (3) = 4.251

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3025	-.2568	-.3041		
.953			-.2378					
.955		-.1876						
.965	-.1652							
1.000			-.1922		-.1613		-.4413	

ALPHA (5) = 11.929 BETA (1) = -3.853 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1770	-.4045	.2945	.6935	.6883	.7405	.7284	
.020	.0000	-.1110	.4460	.6080	.6375	.6719	.6720	-.0377
.040		-.0411	.4657					
.050	.0724			.4990	.5350	.5736	.5879	
.069								.0732
.080				.4361				
.081			.4010					
.086		.1538						
.094	.1032							
.150				.3922	.4565	.4941	.4475	
.157								-.0560
.163		.3778						
.177			.3484					
.229	.1248							
.246		.2818						
.250				.3765	.4241	.4383	.3785	
.274			.3412					
.345								.1242
.390		.3188						
.400				.3737	.3996		.3281	
.402			.3631					
.503								.0918
.550				.2996	.2976			
.565			-.5372					
.600							.1593	
.637		.2875						
.650						.1793		
.670								-.0988
.700					.1086			
.725				.1188				
.750						.0546	.0026	
.760			.0620					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (5) = 11.929 BETA (1) = -3.853

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0006	.0111			
.798		.0739						
.808			.0131					
.834	.0677							
.839		-.0380						
.850				-.0845	-.2212	-.1206		
.857			-.0612					
.862							-.2385	
.865	-.0019							
.873		-.1208						
.900	-.0298			-.1847			-.1721	
.905			-.1722					
.919		-.1255						
.950				-.2693	-.2314	-.2597		
.953			-.2272					
.955		-.1365						
.965	-.0776							
1.000			-.1816		-.3080		-.5458	

ALPHA (5) = 11.937 BETA (2) = .177 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3506	-.4917	.1008	.6213	.6402	.6620	.6435	
.020	.0000	-.2227	.2796	.5686	.6098	.6311	.6223	-.1982
.040		-.1514	.3667					
.050	-.0154			.4805	.5227	.5531	.5598	
.069								-.0391
.080				.4274				
.081			.3409					
.086		.0664						
.094	.0456							
.150				.3886	.4554	.4809	.4329	
.157								-.0951
.163		.3026						
.177			.3265					
.229	.0844							
.246		.2370						
.250				.3801	.4158	.4306	.3621	
.274			.3393					
.345								.0606
.390		.3177						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (5) = 11.937 BETA (2) = .177

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3668	.3906		.3070	
.402			.3651					
.503								.0424
.550				.2954	.2901			
.565			-.5633					
.600							.1356	
.637		.2862						
.650						.1589		
.670								-.1283
.700					.1160			
.725				.1212				
.750						.0443	-.0123	
.760			.0698					
.775				.0244	.0203			
.798		.0771						
.808			. 271					
.834	.0674							
.839		-.0268						
.850				-.0683	-.2241	-.1304		
.857			-.0652					
.862								-.2735
.865	-.0116							
.879		-.1117						
.900	-.0284			-.1750			-.1837	
.905			-.1742					
.919		-.1219						
.950				-.2644	-.2284	-.2428		
.953			-.1933					
.955		-.1457						
.965	-.1017							
1.000			-.2402		-.2410		-.5628	

ALPHA (5) = 11.932 BETA (3) = 4.267 MACH = 1.2468 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4657	-.5448	-.0903	.5238	.5610	.5630	.5397	
.020	.0000	-.3271	.1231	.5090	.5613	.5843	.5604	-.3205
.040		-.2536	.2797					
.050	-.0977			.4522	.5115	.5273	.5221	
.069								-.1415
.080				.4071				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL14)

ALPHA (5) = 11.932 BETA (3) = 4.267

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2615					
.086		-.0114						
.094	-.0310							
.150				.3724	.4464	.4683	.4090	
.157								-.1439
.163		.2366						
.177			.3048					
.229	.0336							
.246		.1907						
.250				.3751	.4041	.4173	.3462	
.274			.3401					
.345								.0006
.390		.3141						
.400				.3513	.3759		.2859	
.402			.3527					
.503								-.0035
.550				.2849	.2778			
.595			-.5108					
.600							.1202	
.637		.2715						
.650						.1480		
.670								-.1518
.700					.1177			
.725				.1160				
.750						.0315	-.0254	
.760			.0611					
.775				.0268	.0184			
.798		.0726						
.808			.0220					
.834	.0597							
.839		-.0306						
.850				-.0705	-.2462	-.1426		
.857			-.0697					
.862								-.2936
.865	-.0210							
.879		-.0992						
.900	-.0284			-.1714			-.2077	
.905			-.1590					
.919		-.1205						
.950				-.2568	-.2080	-.2389		
.953			-.1822					
.955		-.1505						
.965	-.1332							
1.000			-.2474		-.1961		-.5510	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L15) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (1) = -4.072 BETA (1) = -3.851 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1853	-.3539	-.3011	-.6208	-.7373	-.5628	-.5479	
.020	.0000	-.3191	-.4049	-.7753	-.7899	-.7994	-.8117	-.8377
.040		-.3044	-.4350					
.050	-.1835			-.7286	-.8069	-.8350	-.8375	
.069								-.9283
.080				-.7066				
.081			-.3058					
.086		-.1481						
.094	-.1929							
.150				-.4809	-.6945	-.7342	-.7642	
.157								-.5431
.163		-.0774						
.177			-.2486					
.229	-.1572							
.246		-.1448						
.250				-.2858	-.5892	-.6697	-.6980	
.274			-.2114					
.345								-.8843
.390		-.1569						
.400				-.1671	-.1707		-.6197	
.402			-.1324					
.503								-.8675
.550				-.1313	-.1565			
.565			-.4481					
.600							-.3503	
.637		-.1135						
.650						-.1679		
.670								-.7985
.700					-.2429			
.725				-.2492				
.750						-.2532	-.2668	
.760			-.2724					
.775				-.3554	-.3040			
.798		-.2473						
.808			-.3774					
.834	-.2642							
.839		-.3783						
.850				-.4289	-.3629	-.3812		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (1) = -4.072 BETA (1) = -3.851

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.4246					
.862								-.5748
.865	-.3534							
.879		-.4323						
.900	-.3177			-.4927			-.3944	
.905			-.5107					
.919		-.4357						
.950				-.2428	-.4828	-.4365		
.953			-.2026					
.955		-.1980						
.965	-.3517							
1.000			-.0879		-.1463		-.0941	

ALPHA (1) = -4.070 BETA (2) = .189 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1355	-.1694	-.1346	-.6161	-.7664	-.5995	-.6120	
.020	.0000	-.1744	-.1400	-.7686	-.8081	-.8363	-.8485	-.9068
.040		-.1599	-.2547					
.050	-.1317			-.6853	-.8166	-.8660	-.8764	
.069								-.9175
.080				-.6451				
.081			-.1853					
.086		-.0611						
.094	-.1363							
.150				-.2902	-.6885	-.7604	-.7931	
.157								-.5412
.163		.0186						
.177			-.1808					
.229	-.1084							
.246		-.0815						
.250				-.1860	-.2343	-.6222	-.7312	
.274			-.1343					
.345								-.8776
.390		-.0945						
.400				-.1241	-.1240		-.4083	
.402			-.1102					
.503								-.7888
.550				-.1248	-.1466			
.565			-.5474					
.600							-.1623	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (1) = -4.070 BETA (_ = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.1144						
.650						-.1780		
.670								-.4999
.700					-.2498			
.725				-.2472				
.750						-.2753	-.2521	
.760			-.2739					
.775				-.3527	-.3230			
.798		-.2442						
.808			-.3685					
.834	-.2503							
.839		-.3590						
.850				-.4397	-.4105	-.4022		
.857			-.4130					
.862								-.5093
.865	-.3341							
.879		-.4166						
.900	-.3135			-.5054			-.4275	
.905			-.5078					
.919		-.4333						
.950				-.4420	-.4783	-.4827		
.953			-.3536					
.965		-.4104						
.965	-.4647							
1.000			-.1277		-.1944		-.1754	

ALPHA (1) = -4.075 BETA (3) = 4.283 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1168	-.0505	.0340	-.5939	-.7878	-.6435	-.6634	
.020	.0000	-.0215	.0052	-.7217	-.8221	-.8679	-.8808	-.7254
.040		-.0011	-.1062					
.050	-.1055			-.6004	-.7572	-.8491	-.8276	
.069								-.6502
.080				-.2976				
.081			-.0820					
.086		.0929						
.094	-.1042							
.150				-.2243	-.3246	-.6460	-.8056	
.157								-.3685
.163		.1307						

TABULATED PRESSURE DATA - OA148 (AMES 11-073-.)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING &

ALPHA (1) = -4.075 BETA (3) = 4.283

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1076					
.229	-.0587							
.246		.0027						
.250				-.1434	-.2000	-.2636	-.4997	
.274			-.0779					
.345								-.5607
.390		-.0400						
.400				-.1128	-.1168		-.2278	
.402			-.0881					
.503								-.5102
.550				-.1174	-.1295			
.565			-.4167					
.600							-.1807	
.637		-.1157						
.650						-.1845		
.670								-.3872
.700					-.2512			
.725				-.2360				
.750						-.2040	-.2964	
.760			-.2656					
.775				-.3441	-.3342			
.798		-.2328						
.808			-.3530					
.834	-.2446							
.839		-.3511						
.850				-.4429	-.4471	-.4293		
.857			-.3986					
.862								-.4204
.865	-.3394							
.879		-.4026						
.900	-.3167			-.5119			-.4547	
.905			-.4991					
.913		-.4203						
.950				-.5569	-.4636	-.5243		
.953			-.5153					
.955		-.4429						
.965	-.4653							
1.000			-.1853		-.2905		-.2083	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (2) = -.011 BETA (1) = -3.863 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0451	-.0078	.2045	-.3384	-.4744	-.3955	-.3054	
.020	.0000	-.0388	.1236	-.4906	-.5528	-.5614	-.5962	-.4343
.040		-.0232	-.0353					
.050	-.0893			-.3223	-.4648	-.5681	-.5962	
.069								-.4386
.080				-.2651				
.081			-.0603					
086		.0241						
.094	-.0997							
.150				-.1854	-.2203	-.3825	-.4720	
.157								-.2347
.163		.0894						
.177			-.0785					
.229	-.0716							
.246		-.0251						
.250				-.0484	-.1132	-.0986	-.1128	
.274			-.0371					
.345								-.0890
.330		-.0114						
.400				.0026	.0137		-.0266	
.402			.0057					
503								-.1485
.550				-.0116	-.0440			
.565			-.5267					
.600							-.1258	
.637		-.0059						
.650						-.0936		
.670								-.3111
.700					-.1552			
.725				-.1643				
.750						-.2162	-.2687	
.760			-.1936					
.775				-.2473	-.2415			
.799		-.1797						
.808			-.2785					
.834	-.1836							
.839		-.2868						
850				-.3688	-.2755	-.3655		
.857			-.3421					
.862								-.4069
.865	-.2526							
.879		-.3573						
.900	-.2417			-.4272			-.4234	
.905			-.4195					
.919		-.3533						

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AMES 11-073(0A) A R ORB LEFT WING BOT (XE8L15)

ALPHA (2) = -.011 BETA (1) = -3.863

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2381	-.4558	-.3878		
.953			-.1270					
.955		-.2176						
.965	-.3355							
1.000			-.0234		-.1319		-.0459	

ALPHA (2) = -.004 BETA (2) = .183 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1026	-.0134	.2871	-.2758	-.4720	-.4209	-.3433	
.020	.0000	-.0196	.2150	-.2688	-.4204	-.5533	-.5960	-.2329
.040		.0001	.0569					
.050	-.1107			-.2525	-.3655	-.4568	-.4813	
.069								-.2239
.080				-.1724				
.081			.0066					
.086		.0589						
.094	-.1108							
.150				-.1238	-.0858	-.0729	-.1385	
.157								-.1832
.163		.1524						
.177			-.0312					
.229	-.0648							
.246		.0179						
.250				-.0347	-.0632	-.0686	-.1231	
.274			-.0010					
.345								-.1074
.390		.0160						
.400				.0065	.0352		-.0256	
.402			.0058					
.503								-.1674
.550				-.0127	-.0391			
.565			-.6084					
.600							-.1507	
.637		-.0073						
.650						-.1138		
.670								-.3197
.700					-.1680			
.725				-.1678				
.750						-.2391	-.2860	
.760			-.1985					

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (2) = -.004 BETA (2) = .183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2583	-.2578			
.798		-.1752						
.808			-.2899					
.834	-.1793							
.839		-.2929						
.850				-.3690	-.3345	-.3830		
.857			-.3414					
.862								-.4131
.865	-.2632							
.879		-.3337						
.900	-.2440			-.4471			-.4341	
.905			-.4306					
.919		-.3330						
.950				-.3938	-.4419	-.4913		
.953			-.3675					
.955		-.3401						
.965	-.3857							
1.000			-.0575		-.1599		-.1212	

ALPHA (2) = -.007 BETA (3) = 4.260 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2066	-.0438	.3528	-.0794	-.3100	-.3696	-.2903	
.020	.0000	-.0193	.2986	-.1053	-.2539	-.3533	-.4617	-.1643
.040		.0049	.1673					
.050	-.1474			-.0894	-.2378	-.2677	-.3390	
.069								-.1724
.080				-.0686				
.081			.0839					
.086		.1071						
.094	-.1188							
.150				-.0243	-.0434	-.0818	-.1175	
.157								-.1838
.163		.2248						
.177			.0380					
.229	-.0628							
.246		.0838						
.250				-.0016	-.0391	-.0612	-.1032	
.274			.0432					
.345								-.1438
.390		.0601						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (2) = -.007 BETA (3) = 4.260

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0155	.0214		-.0433	
.402			.0282					
.503								-.1708
.550				-.0297	-.0486			
.565			-.5173					
.600							-.1527	
.637		-.0231						
.650						-.1180		
.570								-.3251
.700					-.1719			
.725				-.1552				
.750						-.2359	-.2891	
.760			-.2161					
.775				-.2726	-.2576			
.798		-.1672						
.808			-.2689					
.834	-.1833							
.839		-.2735						
.850				-.3563	-.3852	-.4008		
.857			-.3245					
.862								-.3991
.865	-.2592							
.879		-.3423						
.900	-.2517			-.4423			-.4576	
.905			-.4289					
.919		-.3525						
.950				-.4906	-.4078	-.5035		
.953			-.4434					
.955		-.3735						
.965	-.3850							
1.000			-.1301		-.2155		-.1781	

ALPHA (3) = 3.931 BETA (1) = -3.870 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0330	-.0621	.4592	.1876	.0964	.2237	.2369	
.020	.0000	-.0063	.3973	.0548	.0961	.0943	.0997	.0722
.040		.0230	.2302					
.050	-.0246			.0454	.0364	.0691	.1021	
.069								.0403
.090				.0498				

AMES 11-073(OA148, -140A/B/C/R ORB LEFT WING BOT (XE8L15)

ALPHA (3) = 3.931 BETA (1) = -3.870

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1382					
.086		.1204						
.094	-.0467							
.150				.1032	.1279	.1476	.1015	
.157								-.0977
.163		.2454						
.177			.0792					
.229	-.0440							
.246		.0983						
.250				.1350	.1384	.1362	.0708	
.274			.1351					
.345								-.0290
.390		.1537						
.400				.1568	.1682		.0848	
.402			.1843					
.503								-.0842
.550				.0865	.0667			
.565			-.5933					
.600							-.0698	
.637		.0904						
.650						-.0341		
.670								-.2621
.700					-.1056			
.725				-.0902				
.750						-.1595	-.2076	
.760			-.1312					
.775				-.1914	-.2024			
.798		-.1175						
.808			-.2211					
.834	-.1311							
.839		-.2365						
.850				-.3249	-.3068	-.3301		
.857			-.2858					
.862								-.3965
.865	-.2052							
.879		-.3151						
.900	-.2014			-.4000			-.3901	
.905			-.3938					
.919		-.3213						
.950				-.4081	-.3825	-.4653		
.953			-.2994					
.955		-.2919						
.965	-.3157							
1.000			.0017		-.1283		-.2095	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L15)

ALPHA (3) = 3.932 BETA (2) = .189 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1734	-.1936	.4340	.2817	.1976	.2760	.2967	
.020	.0000	-.0829	.4149	.1705	.1736	.1751	.1786	.0008
.040		-.0436	.2868					
.050	-.0854			.1418	.1271	.1221	.1420	
.069								-.0035
.080				.1245				
.081			.1815					
.086		.1082						
.094	-.0924							
.150				.1446	.1633	.1637	.1107	
.157								-.1156
.163		.2687						
.177			.1448					
.229	-.0584							
.246		.1492						
.250				.1636	.1511	.1535	.0691	
.274			.1706					
.345								-.0703
.390		.1654						
.400				.1672	.1683		.0750	
.402			.1849					
.503								-.1191
.550				.0928	.0665			
.565			-.6592					
.600							-.0859	
.637		.0937						
.650						-.0497		
.670								-.2913
.700					-.1095			
.775				-.0888				
.750						-.1458	-.2244	
.760			-.1319					
.775				-.1986	-.1923			
.798		-.1114						
.808			-.2088					
.834	-.1230							
.839		-.2323						
.850				-.3054	-.3012	-.3436		
.857			-.2762					
.862								-.4430
.865	-.2135							
.879		-.3069						
.900	-.2062			-.3935			-.4076	
.905			-.3903					
.919		-.3105						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (3) = 3.932 BETA (2) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4274	-.3756	-.4440		
.953			-.4003					
.955		-.3163						
.965	-.3053							
1.000			-.0269		-.1174		-.2439	

ALPHA (3) = 3.935 BETA (3) = 4.249 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3611	-.3340	.4039	.3672	.2553	.3103	.3257	
.020	.0000	-.1774	.4281	.2587	.2255	.2290	.2255	-.1337
.040		-.1272	.3436					
.050	-.1738			.2112	.1629	.1759	.1736	
.069								-.0992
.080				.1832				
.081			.2478					
.086		.1095						
.094	-.1477							
.150				.1685	.1724	.1711	.1146	
.157								-.1609
.163		.3065						
.177			.1956					
.229	-.0821							
.246		.1920						
.250				.1686	.1616	.1518	.0649	
.274			.1835					
.345								-.1319
.390		.1899						
.400				.1508	.1571		.0515	
.402			.1756					
.503								-.1714
.550				.0811	.0510			
.565			-.5676					
.600							-.1102	
.637		.0851						
.650						-.0737		
.670								-.3399
.700					-.1182			
.725				-.1014				
.750						-.1761	-.2497	
.760			-.1433					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L15)

ALPHA (3) = 3.935 BETA (3) = 4.249

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2153	-.2057			
.798		-.1183						
.808			-.2153					
.834	-.1304							
.839		-.2366						
.850				-.3129	-.3414	-.3617		
.857			-.2822					
.862								
.865	-.2233						-.4904	
.879		-.3043						
.900	-.2221			-.4073			-.4333	
.905			-.3868					
.919		-.3205						
.950				-.4819	-.3741	-.4569		
.953			-.4066					
.955		-.3344						
.965	-.3191							
1.000			-.1069		-.1690		-.3290	

ALPHA (4) = 7.884 BETA (1) = -3.865 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1361	-.4060	.4803	.6067	.5650	.6265	.6037	
.020	.0000	-.1643	.5471	.4920	.5153	.5040	.5034	-.0270
.040		-.1045	.4939					
.050	.0053			.3939	.4083	.4082	.4023	
.069								.0361
.080				.3378				
.081			.3866					
.086		.0952						
.094	.0041							
.150				.3149	.3320	.3458	.2791	
.157								-.0894
.163		.3748						
.177			.3222					
.229	.0041							
.246		.2723						
.250				.3068	.2942	.2860	.2179	
.274			.3053					
.345								
.390		.2861						-.0032

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L15)

ALPHA (4) = 7.884 BETA (1) = -3.865

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2642	.2686		.1799	
.402			.2876					
.503								-.0338
.550				.1679	.1552			
.565			-.6530					
.600							-.0035	
.637		.1624						
.650						.0282		
.670								-.2158
.700					-.0506			
.725				-.0269				
.750						-.1028	-.1677	
.760			-.0873					
.775				-.1425	-.1563			
.798		-.0637						
.808			-.1584					
.834	-.0813							
.839		-.1987						
.850				-.2529	-.3788	-.2788		
.857			-.2294					
.862								-.3548
.865	-.1646							
.879		-.2791						
.900	-.1456			-.3621			-.3385	
.905			-.3560					
.919		-.2588						
.950				-.4370	-.3500	-.4379		
.953			-.3730					
.955		-.2698						
.965	-.2558							
1.000			-.0308		-.1856		-.4309	

ALPHA (4) = 7.965 BETA (2) = .179 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3354	-.6359	.3170	.6087	.5636	.6019	.5748	
.020	.0000	-.3162	.4495	.5047	.5081	.5123	.4963	-.1646
.040		-.2367	.4550					
.050	-.0921			.4215	.4191	.4217	.4058	
.069								-.0721
.080				.3718				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (4) = 7.965 BETA (2) = .179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3823					
.086		.0183						
.094	-.0579							
.150				.3352	.3456	.3489	.2765	
.157								-.1180
.163		.3546						
.177			.3288					
.229	-.0325							
.246		.2813						
.250				.3073	.3082	.2894	.2146	
.274			.3032					
.345								-.0483
.390		.2946						
.400				.2626	.2656		.1623	
.402			.2875					
.503								-.0742
.550				.1721	.1518			
.565			.7151					
.600							-.0151	
.637		.1728						
.650						.0124		
.670								-.2555
.700					-.0361			
.723				-.0166				
.750						-.1045	-.1794	
.760			-.0702					
.775				-.1337	-.1508			
.798		-.0556						
.808			-.1379					
.834	-.0633							
.839		-.1766						
.850				-.2412	-.3794	-.3006		
.857			-.2091					
.862								-.3968
.865	-.1567							
.879		-.2479						
.900	-.1323			-.3582			-.3444	
.905			-.3253					
.919		-.2382						
.950				-.4328	-.3558	-.4215		
.953			-.3381					
.955		-.2577						
.965	-.2413							
1.000			-.0355		-.0872		-.4585	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (4) = 7.966 BETA (3) = 4.242 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5516	-.4385	.1903	.5813	.5350	.5428	.5093	
.020	.0000	-.3477	.3534	.5163	.4933	.4862	.4573	-.3418
.040		-.2823	.4226					
.050	-.1950			.4389	.4083	.4024	.3822	
.069								-.2010
.080				.3833				
.081			.3758					
.086		.0032						
.094	-.1345							
.150				.3331	.3360	.3314	.2556	
.157								-.1708
.163		.3613						
.177			.3387					
.229	-.0749							
.246		.2918						
.250				.2965	.2915	.2763	.1903	
.274			.3075					
.345								-.1223
.390		.2983						
.400				.2493	.2487		.1356	
.402			.2750					
.503								-.1367
.550				.1580	.1368			
.565			-.6221					
.600							-.0428	
.637		.1594						
.650						-.0110		
.670								-.3054
.700					-.0375			
.725				-.0319				
.750						-.1221	-.2014	
.760			-.0857					
.775				-.1469	-.1472			
.798		-.0647						
.808			-.1454					
.834	-.0766							
.839		-.1815						
.850				-.2418	-.3706	-.3152		
.857			-.2215					
.862								-.4571
.865	-.1704							
.879		-.2515						
.900	-.1715			-.3540			-.3744	
.905			-.3242					
.919		-.2694						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (4) = 7.966 BETA (3) = 4.242

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4293	-.3321	-.4156		
.953			-.3470					
.955		-.2897						
.965	-.2672							
1.000			-.1090		-.1346		-.5226	

ALPHA (5) = 11.925 BETA (1) = -3.850 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2893	-.5726	.2311	.7371	.7326	.7231	.6751	
.020	.0000	-.2114	.4557	.6897	.7042	.6941	.6536	-.2013
.040		-.1302	.5509					
.050	.0080			.5956	.6053	.6059	.5788	
.069								-.0468
.080				.5324				
.081			.5160					
.086		.1702						
.094	.0569							
.150				.4709	.4923	.4948	.4190	
.157								-.1082
.163		.4541						
.177			.4510					
.229	.0801							
.246		.3913						
.250				.4281	.4299	.4161	.3417	
.274			.4163					
.345								.0523
.390		.3977						
.400				.3636	.3634		.2588	
.422			.3842					
.503								.0884
.550				.2496	.2311			
.565			-.6719					
.600							.0760	
.637		.2476						
.650						.1118		
.670								-.1701
.700					.0511			
.725				.0459				
.750						-.0395	-.1003	
.760			-.0186					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (5) = 11.925 BETA (1) = -3.850

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0601	-.0928			
.798		-.0053						
.808			-.0765					
.834	-.0128							
.839		-.1298						
.850				-.1844	-.3395	-.2293		
.857			-.1485					
.862							-.3269	
.865	-.1000							
.879		-.2218						
.900	-.0948			-.3176		-.2758		
.905			-.2888					
.919		-.1984						
.950				-.3862	-.2985	-.3716		
.953			-.3033					
.955		-.2306						
.965	-.1867							
1.000			-.1202		-.2861		-.5566	

ALPHA (5) = 11.933 BETA (2) = .177 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5027	-.6531	-.0055	.6640	.6682	.6321	.5863	
.020	.0000	-.3401	.2699	.6809	.6591	.6459	.5917	-.3448
.040		-.2509	.4533					
.050	-.0962			.5992	.5967	.5770	.5360	
.069								-.1554
.080				.5363				
.081			.4749					
.086		.0786						
.094	-.0305							
.150				.4700	.4880	.4843	.3985	
.157								-.1340
.163		.3942						
.177			.4430					
.229	.0337							
.246		.3669						
.250				.4140	.4223	.4086	.3198	
.274			.4094					
.345								-.0184
.390		.3904						

AMES 11-073(OA148) - 40A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (5) = 11.933 BETA (2) = .177

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3525	.3557		.2375	
.402			.3721					
.503								-.0371
.550				.2487	.2279			
.555			-.7335					
.600							.0555	
.637		.2418						
.650						.1028		
.670								-.2152
.700					.0439			
.725				.0500				
.750						-.0492	-.1121	
.760			-.0157					
.775				-.0582	-.0856			
.798		-.0030						
.803			-.0745					
.834	-.0158							
.839		-.1302						
.850				-.1746	-.3403	-.2606		
.857			-.1560					
.862								-.3783
.865	-.1156							
.879		-.1938						
.900	-.0873			-.3063			-.2997	
.905			-.2614					
.919		-.1903						
.950				-.3901	-.2989	-.3533		
.953			-.2871					
.955		-.2292						
.965	-.1978							
1.000			-.1562		-.2094		-.6027	

ALPHA (5) = 11.923 BETA (3) = 4.259 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1858

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6514	-.6766	-.1444	.5672	.5729	.5092	.4666	
.020	.0000	-.4663	.1464	.5955	.5859	.5676	.5037	-.4825
.040		-.3759	.3914					
.050	-.2002			.5548	.5474	.5234	.4790	
.069								-.2783
.080				.5034				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL15)

ALPHA (5) = 11.928 BETA (3) = 4.259

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.4548					
.086		-.0147						
.094	-.1084							
.150				.4438	.4554	.4462	.3529	
.157								-.1955
.163		.3513						
.177			.4338					
.229	-.0235							
.246		.3525						
.250				.3937	.3911	.3756	.2810	
.274			.3954					
.345								-.0996
.390		.3782						
.400				.3251	.3275		.1987	
.402			.3497					
.503								-.1105
.550				.2275	.2045			
.565			-.6864					
.600							.0194	
.637		.2246						
.650						.0753		
.670								-.2705
.700					.0301			
.725				.0331				
.750						-.0714	-.1422	
.760			.0381					
.775				-.0814	-.0954			
.798		-.0168						
.808			-.0846					
.834	-.0311							
.839		-.1397						
.850				-.1893	-.3592	-.2853		
.857			-.1706					
.862								-.4362
.885	-.1267							
.879		-.1926						
.900	-.1186			-.3159			-.3407	
.905			-.2624					
.919		-.2163						
.950				-.3924	-.3084	-.3683		
.953			-.2965					
.955		-.2517						
.955	-.2296							
1.000			-.2795		-.2217		-.6498	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16) (05 AUG 75)

PEFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0200

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000
BOFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (I) = -4.023 BETA (I) = -3.852 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1385	-.3017	-.4939	-1.0770	-1.2399	-1.0162	-1.0266	
.020	.0000	-.2560	-.5424	-1.2546	-1.3073	-1.3149	-1.3342	-1.3447
.040		-.2316	-.6617					
.050	-.1284			-1.1490	-1.3040	-1.3530	-1.3642	
.059								-1.3109
.080				-1.0627				
.081			-.4745					
.086		-.1211						
.094	-.1163							
.150				-.6245	-1.1341	-1.2092	-1.2338	
.157								-.6806
.163		-.1708						
.177			-.4709					
.229	-.0542							
.246		-.3166						
.250				-.4155	-.4764	-.9574	-1.1815	
.274			-.3791					
.345								-.8036
.390		-.3408						
.400				-.2694	-.2702		-.4121	
.402			-.2577					
.503								-.6670
.560				-.3125	-.2939			
.565			-.7493					
.600							-.2294	
.637		-.2965						
.650						-.2545		
.670								-.4276
.700					-.3152			
.725				-.3576				
.750						-.4210	-.3723	
.760			-.3426					
.775				-.4995	-.4174			
.798		-.3061						
.808			-.5739					
.834	-.3123							
.839		-.5325						
.850				-.4960	-.3989	-.3226		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (1) = -4.023 BETA (1) = -3.852

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.5138					
.862								-.3372
.865	-.4902							
.879		-.3973						
.900	-.3711			-.2095			-.1992	
.905			-.1916					
.919		-.1683						
.950				-.0751	-.2382	-.0390		
.953			-.0681					
.955		-.0837						
.965	-.0913							
1.000			-.0011		-.0451		.0199	

ALPHA (1) = -3.925 BETA (2) = .198 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0423	-.1171	-.3135	-1.0677	-1.2703	-1.0547	-1.0906	
.020	.0000	-.0951	-.3594	-1.2348	-1.3167	-1.3519	-1.1337	-.7855
.040		-.0727	-.4616					
.050	-.0666			-1.1080	-1.2450	-1.3334	-1.1679	
.069								-.6728
.080				-.6980				
.081			-.3892					
.086		-.0282						
.094	-.0573							
.150				-.5086	-.6570	-1.0524	-1.1179	
.157								-.4049
.163		-.0864						
.177			-.3854					
.229	-.0122							
.246		-.2529						
.250				-.3588	-.4106	-.4891	-.8291	
.274			-.3159					
.345								-.4814
.330		-.2784						
.400				-.2576	-.2864		-.5512	
.402			-.2387					
.503								-.4773
.550				-.3191	-.3626			
.565			-.7234					
.600							-.2961	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (1) = -3.925 BETA (2) = .188

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2907						
.650						-.3696		
.670								-.3698
.700					-.4436			
.725				-.4580				
.750						-.4552	-.3976	
.760			-.4169					
.775				-.5836	-.4609			
.798		-.4064						
.808			-.6420					
.834	-.3691							
.839		-.5897						
.850				-.4523	-.4236	-.3833		
.857			-.4739					
.862								-.2700
.865	-.5408							
.879		-.4090						
.900	-.4445			-.2017			-.1944	
.905			-.1905					
.919		-.1819						
.950				-.1018	-.2024	-.0478		
.953			-.0778					
.955		-.1071						
.965	-.1277							
1.000			-.0336		-.0281		.0031	

ALPHA (1) = -3.933 BETA (3) = 4.285 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0085	.0022	-.1500	-1.0194	-1.2683	-1.0800	-.9776	
.020	.0000	.0088	-.2035	-1.0807	-1.2860	-1.1490	-.9577	-.7016
.040		.0239	-.2999					
.050	-.0138			-.6812	-1.2203	-1.1289	-.8708	
.069								-.6535
.080				-.5336				
.081			-.3032					
.086		.0397						
.094	-.0163							
.150				-.4182	-.4962	-.8907	-.7989	
.157								-.4159
.163		-.0229						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (1) = -3.933 BETA (3) = 4.285

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3077					
.229	.0176							
.246		-.2037						
.250				-.3186	-.3660	-.5307	-.7028	
.274			-.2737					
.345								-.5641
.390		-.2417						
.400				-.2453	-.2633		-.5227	
.402			-.2236					
.503								-.4905
.550				-.3098	-.3669			
.565			-.7513					
.600							-.4493	
.637		-.2871						
.650						-.4246		
.670								-.3501
.700					-.4956			
.725				-.4796				
.750						-.5510	-.4057	
.760			-.4668					
.775				-.6155	-.4977			
.798		-.4078						
.808			-.6560					
.834	-.3980							
.839		-.6003						
.850				-.3424	-.3323	-.3103		
.857			-.3751					
.862								-.1975
.865	-.5467							
.879		-.3620						
.900	-.4079			-.2258			-.1482	
.905			-.1756					
.919		-.1970						
.950				-.1353	-.1337	-.0155		
.953			-.1079					
.955		-.1282						
.965	-.1546							
1.000			-.0767		-.0391		.0350	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (2) = .017 BETA (1) = -3.871 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0323	.0844	.0926	-.6711	-.8440	-.7688	-.6417	
.020	.0000	.0640	-.0184	-.6238	-.7875	-.7813	-.9305	-.3623
.040		.0688	-.1778					
.050	-.0029			-.5431	-.6440	-.7148	-.7783	
.069								-.3630
.080				-.3758				
.081			-.2110					
.086		.0856						
.094	-.0107							
.150				-.2368	-.2340	-.2771	-.3031	
.157								-.2738
.163		.0143						
.177			-.1911					
.229	.0232							
.246		-.1414						
.250				-.1591	-.2138	-.2486	-.2753	
.274			-.1299					
.345								-.3224
.390		-.1111						
.400				-.1321	-.1512		-.2208	
.402			-.0948					
.503								-.3724
.550				-.2129	-.2280			
.565			-.8547					
.600							-.3853	
.637		-.2035						
.650						-.3507		
.670								-.3913
.700					-.4013			
.725				-.3701				
.750						-.4676	-.5401	
.760			-.3362					
.775				-.5015	-.4463			
.798		-.2877						
.808			-.5938					
.834	-.3020							
.839		-.5636						
.850				-.5232	-.4372	-.2726		
.857			-.5727					
.862								-.1755
.865	-.4914							
.879		-.4629						
.900	-.4067			-.1871			-.1315	
.905			-.1852					
.919		-.1619						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (2) = .017 BETA (1) = -3.871

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0808	-.2592	-.0674		
.953			-.0758					
.955		-.0779						
.965	-.0968							
1.000			-.0246		-.0686		.0318	

ALPHA (2) = .043 BETA (2) = .183 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0226	.0970	.1767	-.4739	-.6685	-.7158	-.6250	
.020	.0000	.0984	.0942	-.4789	-.6040	-.6338	-.8128	-.3449
.040		.1143	-.0676					
.050	.0109			-.3696	-.4855	-.5609	-.6686	
.069								-.3680
.080				-.2940				
.081			-.1373					
.086		.1224						
.094	.0036							
.150				-.1950	-.2150	-.2317	-.3389	
.157								-.2777
.163		.0649						
.177			-.1539					
.229	.0364							
.246		-.1012						
.250				-.1535	-.1993	-.2377	-.2718	
.274			-.1244					
.345								-.3430
.390		-.0967						
.400				-.1492	-.1590		-.2281	
.402			-.1049					
.503								-.3990
.550				-.2277	-.2421			
.565			-.0826					
.600							-.4027	
.637		-.2074						
.650						-.3657		
.670								-.4114
.700					-.4165			
.745				-.3805				
.750						-.4659	-.5808	
.760			-.3604					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (2) = .043 BETA (2) = .183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.5238	-.4463			
.799		-.3162						
.808			-.5891					
.834	-.3253							
.839		-.5602						
.850				-.5186	-.4558	-.2495		
.857			-.6174					
.862								-.1309
.865	-.4865							
.879		-.5392						
.900	-.4592			-.1887			-.1128	
.905			-.1968					
.919		-.2042						
.950				-.0844	-.2059	-.1001		
.953			-.0795					
.955		-.1082						
.965	-.1455							
1.000			-.0193		-.0517		.0057	

ALPHA (2) = .037 BETA (3) = 4.263 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0187	.0800	.2277	-.3028	-.5028	-.5646	-.5432	
.020	.0000	.0983	.1643	-.3570	-.4179	-.4931	-.6199	-.3098
.040		.1168	.0204					
.050	.0078			-.2543	-.3715	-.4097	-.4822	
.069								-.3416
.080				-.2163				
.081			-.0715					
.086		.1405						
.094	.0125							
.150				-.1589	-.1800	-.2124	-.3145	
.157								-.2770
.163		.1028						
.177			-.1033					
.229	.0447							
.246		-.0645						
.250				-.1219	-.1736	-.2148	-.2706	
.274			-.0945					
.345								-.3708
.390		-.0816						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (2) = .037 BETA (3) = 4.263

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1319	-.1562		-.2328	
.402			-.0940					
.503								-.4192
.550				-.2261	-.2535			
.565			-.8734					
.600							-.4210	
.637		-.2111						
.650						-.3831		
.670								-.4690
.700					-.4316			
.725				-.3908				
.750						-.5216	-.6139	
.750			-.3989					
.775				-.5397	-.4779			
.799		-.3426						
.808			-.5769					
.834	-.3444							
.839		-.5397						
.850				-.5255	-.4202	-.2288		
.857			-.5876					
.862								-.0844
.865	-.4823							
.879		-.5261						
.900	-.4439			-.1978			-.1043	
.905			-.2035					
.919		-.2240						
.950				-.0932	-.1370	-.0728		
.953			-.1019					
.965		-.1160						
.965	-.1920							
1.000			-.0736		-.0423		.0147	

ALPHA (3) = 3.891 BETA (1) = -3.877 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0189	.1222	.3933	.0956	.0094	.0969	.1171	
.020	.0000	.1641	.3306	-.0384	-.0117	-.0205	-.0389	-.1095
.040		.1900	.1615					
.050	.0549			-.0415	-.0635	-.0568	-.0711	
.069								-.1648
.080				-.0465				

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8L16)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

ALPHA (3) = 3.891 BETA (1) = -3.877

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0520					
.086		.2223						
.094	.0525							
.150				-.0076	-.0152	-.0283	-.0834	-.1985
.157								
.163		.1902						
.177			.0112					
.229	.0956							
.245		.0303						
.250				-.0034	-.0332	-.0589	-.1107	
.274			.0121					-.2561
.345								
.390		.0227						
.400				-.0294	-.0370		-.1290	
.402			.0116					-.3192
.503				-.1294	-.1526			
.510								
.565			-.9008				-.3143	
.600								
.637		-.1223						
.650						-.2857		-.4391
.670								
.700					-.3562			
.725				-.2998				
.750						-.4601	-.5079	
.760			-.2664					
.775				-.4420	-.4187			
.798		-.2254						
.808			-.5272					
.834	-.2399							
.839		-.5180						
.850				-.6331	-.4843	-.6375		
.857			-.6049					-.4169
.862								
.865	-.4472							
.879		-.5330						
.900	-.3953			-.2326			-.6636	
.905			-.2498					
.919		-.2162						
.950				-.0876	-.2508	-.1211		
.953			-.0679					
.955		-.0827						
.965	-.1247							
1.000			.0078		-.0249		-.0766	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (3) = 4.016 BETA (2) = .188 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0799	-.0087	.3641	.1759	.0808	.1434	.1442	
.020	.0000	.0876	.3418	.0532	.0400	.0284	.0000	-.2199
.040		.1279	.2079					
.050	.0209			.0212	-.0217	-.0224	-.0458	
.069								-.2427
.080				.0035				
.081			.0953					
.086		.2060						
.094	.0364							
.150				.0097	-.0039	-.0205	-.0980	
.157								-.2287
.163		.2081						
.177			.0363					
.229	.0839							
.246		.0564						
.250				.0010	-.0296	-.0559	-.1264	
.274			.0240					
.345								-.3130
.390		.0336						
.400				-.0364	-.0450		-.1507	
.402			.0053					
.503								-.3701
.550				-.1398	-.1636			
.565			-.9314					
.600							-.3367	
.637		-.1267						
.650						-.3105		
.670								-.5139
.700					-.3430			
.725				-.3084				
.750						-.4789	-.5323	
.760			-.2905					
.775				-.4557	-.4288			
.788		-.2321						
.808			-.5174					
.834	-.2579							
.839		-.4996						
.850				-.6234	-.4863	-.6452		
.857			-.5847					
.862								-.3355
.865	-.4265							
.879		-.5377						
.900	-.4109			-.2268			-.5707	
.905			-.2678					
.919		-.3108						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (3) = 4.016 BETA (2) = .188

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0897	-.1812	-.0964		
.953			-.0770					
.955		-.1210						
.965	-.2089							
1.000			-.0182		-.0153		-.0503	

ALPHA (3) = 4.017 BETA (3) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2153	-.1672	.2908	.2419	.1419	.1944	.1797	
.020	.0000	-.0176	.3146	.1322	.1035	.0893	.0564	-.3670
.040		.0322	.2272					
.050	-.0399			.0778	.0259	.0119	-.0107	
.069								-.3354
.080				.0436				
.081			.1240					
.086		.1641						
.094	.0010							
.150				.0267	.0118	-.0102	-.0941	
.157								-.2794
.163		.2122						
.177			.0587					
.229	.0642							
.246		.0554						
350				.0063	-.0236	-.0480	-.1399	
.274			.0312					
.345								-.3611
.390		.0353						
.400				-.0353	-.0517		-.1725	
.402			.0034					
.503								-.4011
.550				-.1417	-.1706			
.565			-.9394					
.600							-.3592	
.637		-.1264						
.650						-.3333		
.670								-.5155
.700					-.3485			
.725				-.3201				
.750						-.4707	-.5335	
.760			-.3315					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (3) = 4.017 BETA (3) = 4.257

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4714	-.4303			
.798		-.2720						
.808			-.5126					
.834	-.2769							
.839		-.4820						
.850				-.6155	-.4621	-.6459		
.857			-.5308					
.862								
.865	-.4285							-.2502
.879		-.5142						
.900	-.4095			-.2212			-.3867	
.905			-.3165					
.919		-.3769						
.950				-.0792	-.1568	-.0935		
.953			-.0873					
.955		-.1438						
.955	-.2537							
1.000			-.0208		-.0200		-.0471	

ALPHA (4) = 7.978 BETA (1) = -3.868 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1710	-.1847	.4083	.4917	.4408	.4969	.4619	
.020	.0000	.0536	.4595	.3734	.3722	.3696	.3521	-.2826
.040		.1198	.3735					
.060	.0348			.2636	.2551	.2605	.2374	
.069								-.2062
.080				.2116				
.081			.2598					
.086		.2815						
.094	.0752							
.150				.1743	.1745	.1705	.0906	
.157								-.2098
.163		.3237						
.177			.1794					
.229	.1496							
.246		.1772						
.250				.1390	.1210	.0977	.0250	
.274			.1440					
.345								
.390		.1426						-.2262

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (4) = 7.978 BETA (1) = -3.868

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0766	.0678		-.0431	
.402			.1132					
.503								-.2795
.550				-.0474	-.0701			
.565			- 5429					
.600							-.2451	
.637		-.0429						
.650						-.2074		
.670								-.3983
.700					-.2538			
.725				-.2253				
.750						-.3753	-.4543	
.760			-.2265					
.775				-.3757	-.3919			
.798		-.1894						
.808			-.4372					
.834	-.2110							
.839		-.4639						
.850				-.5832	-.5462	-.5667		
.857			-.5397					
.862								-.4400
.865	-.3983							
.879		-.5084						
.900	-.3637			-.5981			-.5709	
.905			-.5760					
.919		-.5339						
.950				-.1394	-.3795	-.6680		
.953			-.1172					
.955		-.1812						
.965	-.2496							
1.000			-.0159		-.1934		-.3425	

ALPHA (4) = 7.924 BETA (2) = .181 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3606	-.3861	.2679	.4859	.4303	.4521	.4118	
.020	.0000	-.0976	.3782	.3822	.3638	.3586	.3235	-.4429
.040		-.0039	.3566					
.050	-.0412			.2871	.2597	.2505	.2187	
.069								-.3113
.080				.2308				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (4) = 7.924 BETA (2) = .181

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2622					
.086		.2147						
.094	.0271							
.150				.1812	.1735	.1640	.0686	
.157								-.2273
.163		.3087						
.177			.1838					
.229	.1241							
.246		.1729						
.250				.1304	.1167	.0881	-.0039	
.274			.1441					
.295								-.2374
.300		.1406						
.400				.0621	.0576		-.0637	
.402			.1015					
.503								-.2838
.550				-.0517	-.0814			
.565			-.6586					
.600							-.2586	
.637		-.0444						
.650						-.2176		
.670								-.4504
.700					-.2588			
.725				-.2382				
.750						-.3722	-.4576	
.760			-.2577					
.775				-.3788	-.3963			
.798		-.2120						
.808			-.4301					
.834	-.2212							
.839		-.4460						
.850				-.5758	-.5659	-.5686		
.857			-.5107					
.862								-.4902
.865	-.3889							
.879		-.4818						
.900	-.3702			-.6075			-.6148	
.905			-.6103					
.919		-.5334						
.950				-.1380	-.3652	-.6881		
.953			-.1470					
.955		-.2234						
.965	-.4050							
1.000			-.0236		-.1557		-.4284	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL16)

ALPHA (4) = 7.921 BETA (3) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5356	-.3368	.0982	.4493	.3938	.3918	.3453	
.020	.0000	-.1694	.2595	.3812	.3476	.3365	.2883	-.5315
.040		-.0971	.3112					
.050	-.1244			.2888	.2502	.2418	.2062	
.069								-.4069
.080				.2293				
.081			.2526					
.086		.1388						
.094	-.0321							
.150				.1731	.1689	.1556	.0552	
.157								-.2603
.163		.2705						
.177			.1860					
.229	.0903							
.246		.1608						
.250				.1268	.1103	.0872	-.0166	
.274			.1409					
.345								-.2908
.390		.1357						
.400				.0547	.0503		-.0848	
.402			.0911					
.503								-.3323
.550				-.0564	-.0848			
.565			-.6766					
.600							-.2740	
.647		-.0510						
.650						-.2228		
.670								-.4881
.700					-.2610			
.725				-.2395				
.750						-.3696	-.4514	
.760			-.2659					
.775				-.3859	-.3936			
.788		-.2178						
.800			-.4294					
.834	-.2224							
.839		-.4288						
.850				-.5648	-.5435	-.5732		
.857			-.4925					
.862								-.5459
.865	-.3795							
.879		-.4737						
.900	-.3911			-.6026			-.6461	
.905			-.5959					
.919		-.5244						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (4) = 7.921 BETA (3) = 4.257

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1390	-.2992	-.6587		
.953			-.?152					
.955		-.2895						
.965	-.4380							
1.000			-.0558		-.1104		-.4415	

ALPHA (5) = 11.916 BETA (1) = -3.856 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4667	-.5659	.2130	.6253	.5997	.5802	.5243	
.020	.0000	-.1428	.4160	.5687	.5615	.5520	.4996	-.3794
.040		-.0337	.4762					
.050	-.0228			.4673	.4558	.4448	.4123	
.069								-.2313
.080				.4004				
#081			.4015					
.086		.2722						
.094	.0750							
.150				.3245	.3293	.3240	.2352	
.157								-.1999
.163		.4096						
.177			.3158					
.229	.1990							
.246		.2962						
.250				.2625	.2506	.2310	.1452	
.274			.2654					
.345								-.1425
.390		.2506						
.400				.1770	.1696		.0569	
.402			.2089					
.503								-.2167
.550				.0413	.0196			
.565			-.6099					
.600							-.1748	
.637		.0432						
.650						-.1458		
.670								-.3908
.700					-.2173			
.725				-.1935				
.750						-.3020	-.3512	
.760			-.2551					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (5) = 11.916 BETA (1) = -3.856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3333	-.3664			
.798		-.2172						
.808			-.3637					
.834	-.2225							
.839		-.4230						
.850				-.5036	-.6173	-.5286		
.857			-.4518					
.862							-.5203	
.865	-.3744							
.879		-.4504						
.900	-.3787			-.6251			-.5646	
.905			-.5572					
.919		-.4798						
.950				-.6651	-.5869	-.6418		
.953			-.5387					
.955		-.4977						
.965	-.4939							
1.000			-.0884		-.3428		-.5188	

ALPHA (5) = 11.928 BETA (2) = .182 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6811	-.4093	.0019	.5406	.5193	.4764	.4139	
.020	.0000	-.2061	.2615	.5216	.5119	.4867	.4279	-.5353
.040		-.1081	.4077					
.060	-.1262			.4441	.4395	.4077	.3653	
.069								-.3722
.080				.3786				
.081			.3748					
.086		.1899						
.094	.0087							
.150				.3071	.3121	.2957	.1929	
.157								-.2530
.163		.3668						
.177			.3079					
.229	.1596							
.246		.2730						
.250				.2507	.2288	.2035	.1080	
.274			.2603					
.345								-.2187
.390		.2431						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (5) = 11.928 BETA (2) = .182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1646	.1468		.0160	
.402			.2006					
.503								-.2853
.550				.0276	-.0044			
.565			-.5956					
.600							-.2157	
.637		.0392						
.650						-.1721		
.670								-.4430
.700					-.2304			
.725				-.2035				
.750						-.3224	-.3876	
.760			-.2502					
.775				-.3408	-.3733			
.798		-.2146						
.808			-.3714					
.834	-.2182							
.839		-.4036						
.850				-.5228	-.6400	-.5311		
.857			-.4297					
.862								-.5879
.865	-.3548							
.879		-.4417						
.900	-.3520			-.6413			-.6036	
.905			-.5574					
.919		-.4909						
.950				-.6660	-.6043	-.6849		
.953			-.5861					
.955		-.5033						
.965	-.4740							
1.000			-.1301		-.3183		-.5574	

ALPHA (5) = 11.917 BETA (3) = 4.273 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8092	-.3880	-.2242	.4369	.4244	.3453	.3004	
.020	.0000	-.3109	.0905	.4571	.4417	.4127	.3427	-.6812
.040		-.2251	.3141					
.050	-.2200			.4082	.3975	.3624	.3071	
.069								-.4895
.080				.3542				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L16)

ALPHA (5) = 11.917 BETA (3) = 4.273

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3262					
.086		.0973						
.094	-.0888							
.150				.2830	.2878	.2686	.1613	
.157								-.3027
.163		.3040						
.177			.2819					
.229	.0990							
.246		.2319						
.250				.2197	.2088	.1869	.0798	
.274			.2322					
.345								-.3077
.390		.2193						
.400				.1402	.1302		-.0159	
.402			.1741					
.503								-.3424
.550				.0178	-.0142			
.565			-.5932					
.600							-.2414	
.637		.0193						
.650						-.1815		
.670								-.4779
.700					-.2314			
.725				-.2053				
.750						-.3323	-.3940	
.760			-.2702					
.775				-.3490	-.3830			
.798		-.2240						
.809			-.3809					
.814	-.2218							
.839		-.4048						
.850				-.5138	-.6654	-.5376		
.857			-.4294					
.862								-.6520
.865	-.3681							
.879		-.4650						
.900	-.3809			-.6287			-.6404	
.905			-.5606					
.919		-.5095						
.950				-.6841	-.5776	-.6908		
.953			-.6194					
.955		-.5238						
.965	-.4498							
1.000			-.1849		-.3078		-.5919	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 35.000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -4.112 BETA (1) = -7.854 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3094	-.6809	-1.1413	-2.1057	-1.8412	-1.6438	-1.5816	
.020	.0000	-.5980	-1.1939	-1.9585	-1.7952	-1.3370	-1.4548	-1.0620
.040		-.5635	-1.0187					
.050	-.2536			-.9599	-1.1540	-1.1646	-1.1307	
.069								-.9285
.080				-.7331				
.081			-.6469					
.086		-.3627						
.094	-.2341							
.150				-.4850	-.5202	-.6073	-.5809	
.157								-.3556
.163		-.3968						
.177			-.4051					
.229	-.1905							
.246		-.3873						
.250				-.3216	-.3668	-.4038	-.3996	
.274			-.2839					
.345								-.3953
.390		-.2548						
.400				-.2346	-.2458		-.2836	
.402			-.2008					
.503								-.3811
.550				-.2477	-.2468			
.565			-.2137					
.600							-.2793	
.637		-.2358						
.650						-.2566		
.670								-.3733
.700					-.2567			
.725				-.2408				
.750						-.3398	-.3316	
.760			-.2556					
.775				-.3759	-.2765			
.798		-.2287						
.808			-.3722					
.834	-.2142							
.839		-.3286						
.870				-.2709	-.2652	-.2253		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (1) = -4.112 BETA (1) = -7.854

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2599					
.862								
.865	-.3191						-.2521	
.879		-.2539						
.900	-.2004			-.1941		-.1643		
.905			-.1958					
.919		-.1856						
.950				-.0861	-.1936	-.0640		
.953			-.0842					
.955		-.1026						
.965	-.0846							
1.000			.0208		-.0643		.0192	

ALPHA (1) = -4.086 BETA (2) = -3.838 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8218

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2019	-.4632	-.8476	-2.0692	-2.0866	-1.7911	-1.6595	
.020	.0000	-.4049	-.9170	-1.8754	-1.9469	-1.4377	-1.5194	-.9285
.040		-.3597	-.7917					
.050	-.1764			-.8990	-.9808	-1.1211	-1.1216	
.069								
.080				-.6722				-.8371
.081			-.5429					
.086		-.2449						
.094	-.1650							
.150				-.4347	-.4738	-.5306	-.5360	
.157								
.163		-.3018						-.3233
.177			-.3608					
.229	-.1329							
.246		-.3383						
.250				-.2990	-.3453	-.3739	-.3722	
.274			-.2695					
.345								
.330		-.2329						-.3552
.400				-.2245	-.2407		-.2741	
.402			-.1964					
.503								
.550				-.2422	-.2471			-.3352
.565			-.1785					
.600							-.2779	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (1) = -4.086 BETA (2) = -3.838

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8470	.9720
X/CW								
.637		-.2317						
.650						-.2600		
.670								-.3425
.700					-.2630			
.725				-.2458				
.750						-.3409	-.3328	
.760			-.2545					
.775				-.3917	-.2803			
.798		-.2304						
.808			-.3756					
.834	-.2177							
.839		-.3347						
.850				-.2778	-.2561	-.2356		
.857			-.2726					
.862								-.2551
.865	-.3327							
.879		-.2575						
.900	-.2192			-.1995			-.1638	
.905			-.2052					
.919		-.1922						
.950				-.0859	-.1873	-.0625		
.953			-.0908					
.955		-.1091						
.965	-.1230							
1.000			.0274		-.0359		.0233	

ALPHA (1) = -4.079 BETA (3) = .201 MACH = .59694 Q = 595.28 P = 2388.4 RN/L = 4.8218

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8470	.9720
X/CW								
.010	-.1036	-.2571	-.5926	-1.8377	-2.0067	-2.0811	-1.8805	
.020	.0000	-.2171	-.6572	-1.3933	-1.6517	-1.5126	-1.7938	-.7974
.040		-.1977	-.6069					
.050	-.1055			-.7919	-.8748	-1.0187	-1.0711	
.069								-.6227
.080				-.5965				
.081			-.4525					
.086		-.1446						
.094	-.1049							
.150				-.3834	-.4298	-.4770	-.4833	
.157								-.2913
.183		-.2088						

AMES 11-073(OA148) -140A/B/C/R ORB LEF; WING BOT (XEBL17)

ALPHA (1) = -4.079 BETA (3) = .201

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3178					
.229	-.0804							
.246		-.2806						
.250				-.2740	-.3215	-.3460	-.3433	
.274			-.2451					
.345								-.3212
.390		-.2121						
.400				-.2119	-.2276		-.2488	
.402			-.1870					
.503								-.3048
.550				-.2368	-.2392			
.565			-.1796					
.600							-.2637	
.637		-.2249						
.650						-.2494		
.670								-.3338
.700					-.2558			
.745				-.2425				
.750						-.3304	-.3141	
.760			-.2575					
.775				-.4039	-.2770			
.798		-.2293						
.808			-.3772					
.834	-.2177							
.839		-.3302						
.850				-.2754	-.2480	-.2323		
.857			-.2756					
.862								-.2777
.865	-.3259							
.879		-.2654						
.900	-.2294			-.1939			-.1495	
.905			-.2070					
.919		-.2031						
.950				-.0796	-.1668	-.0541		
.953			-.0954					
.955		-.1231						
.965	-.1612							
1.000			.0264		-.0047		.0359	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (1) = -4.086 BETA (4) = 4.270 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.800	.8870	.9720
X/CW								
.010	-.0525	-.1058	-.3782	-1.4993	-1.6587	-2.0787	-1.8989	
.020	.0000	-.0937	-.4363	-1.1595	-1.3009	-1.4434	-1.7275	-.6464
.040		-.0792	-.4432					
.050	-.0565			-.6674	-.7606	-.8515	-.8923	
.069								-.4879
.080				-.5119				
.081			-.3622					
.086		-.0614						
.094	-.0602							
.150				-.3366	-.3732	-.4017	-.4161	
.157								-.2557
.163		-.1314						
.177			-.2724					
.229	-.0452							
.246		-.2302						
.250				-.2474	-.2925	-.3049	-.3067	
.274			-.2204					
.345								-.2676
.390		-.1916						
.400				-.1990	-.2079		-.2242	
.402			-.1737					
.503								-.2581
.550				-.2209	-.2247			
.565			-.1842					
.600							-.2420	
.637		-.2196						
.650						-.2398		
.670								-.2740
.700					-.2525			
.725				-.2394				
.750						-.3115	-.2996	
.760			-.2602					
.775				-.3950	-.2681			
.798		-.2215						
.808			-.3563					
.834	-.3239							
.839		-.3190						
.850				-.26.3	-.2308	-.2239		
.857			-.2650					
.862								-.2000
.865	-.3242							
.879		-.2561						
.900	-.2306			-.1894			-.1319	
.905			-.2011					
.919		-.2024						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (1) = -4.086 BETA (4) = 4.270

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720
X/CW								
.950				-.0696	-.1189	-.0412		
.953			-.0967					
.955		-.1223						
.965	-.1773							
1.000			.0241		.0079		.0519	

ALPHA (1) = -4.101 BETA (5) = 8.352 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0223	.0015	-.1557	-1.1104	-1.3592	-1.7122	-1.6360	
.020	.0000	-.0018	-.2216	-.9063	-1.0242	-1.1762	-1.4795	-.5248
.040		.0094	-.2860					
.050	-.0328			-.5270	-.6480	-.7357	-.7816	
.069								-.3819
.080				-.4209				
.081			-.2650					
.086		.0015						
.094	-.0375							
.150				-.2903	-.3273	-.3640	-.3826	
.157								-.2357
.163		-.0649						
.177			-.2197					
.229	-.0258							
.246		-.1831						
.250				-.2218	-.2578	-.2806	-.2744	
.274			-.1891					
.345								-.2196
.390		-.1636						
.400				-.1878	-.1960		-.2074	
.402			-.1638					
.503								-.2189
.550				-.2117	-.2164			
.565			-.2101					
.600							-.2288	
.637		-.2061						
.650						-.2277		
.670								-.2222
.700					-.2455			
.725				-.2338				
.750						-.2945	-.2766	
.760			-.2574					

AMCS 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (1) = -4.101 BETA (5) = 8.352

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3955	-.2608			
.798		-.2251						
.808			-.3433					
.834	-.2214							
.839		-.3281						
.850				-.2595	-.2135	-.2156		
.857			-.2662					
.862								-.1329
.865	-.3265							
.879		-.2648						
.900	-.2425			-.1783			-.1144	
.905			-.2022					
.919		-.2129						
.950				-.0631	-.1085	-.0367		
.953			-.0881					
.955		-.1396						
.965	-.2009							
1.000			.0286		.0306		.0659	

ALPHA (2) = .084 BETA (1) = -7.892 MACH = .59642 Q = 594.28 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0085	-.0376	-.1582	-.9280	-.9748	-.9338	-.7648	
.020	.0000	-.0750	-.2871	-.8585	-.7393	-.6027	-.0249	-.2385
.040		-.0598	-.3749					
.050	-.0492			-.5184	-.5094	-.5399	-.5267	
.069								-.2145
.080				-.3959				
.081			-.2995					
.086		-.0432						
.094	-.0610							
.150				-.2416	-.2503	-.2403	-.2501	
.157								-.1895
.163		-.1243						
.177			-.2075					
.229	-.0520							
.246		-.1970						
.250				-.1640	-.1978	-.2062	-.2031	
.274			-.1468					
.345								-.1915
.390		-.1347						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (2) = .084 BETA (1) = -7.892

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1388	-.1448		-.1626	
.402			-.1122					
.503								-.2212
.550				-.1837	-.1855			
.565			-.2664					
.600							-.2280	
.637		-.1864						
.650						-.2128		
.670								-.2538
.700					-.2247			
.725				-.2120				
.750						-.3191	-.2870	
.760			-.2254					
.775				-.3533	-.2555			
.798		-.2033						
.808			-.3606					
.834	-.1950							
.839		-.3127						
.850				-.2626	-.2520	-.2287		
.857			-.2504					
.862								-.1676
.865	-.3098							
.879		-.2372						
.900	-.1831			-.1856			-.1465	
.905			-.1870					
.919		-.1664						
.950				-.0687	-.1511	-.0484		
.953			-.0674					
.955		-.0849						
.965	-.0670							
1.000			.0466		-.0378		.0540	

ALPHA (2) = .094 BETA (2) = -3.858 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0156	.0343	-.0316	-.7391	-.7971	-.7983	-.6784	
.020	.0000	.0111	-.1346	-.6939	-.6186	-.6890	-.7260	-.2065
.040		.0135	-.2503					
.050	-.0212			-.4339	-.4366	-.4842	-.4693	
.069								-.1901
.080				-.3523				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (2) = .094 BETA (2) = -3.858

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2382					
.086		.0175						
.094	-.0250							
.150				-.2165	-.2314	-.2247	-.2494	
.157								-.1858
.163		-.0591						
.177			-.1743					
.229	-.0222							
.246		-.1544						
.250				-.1496	-.1858	-.1950	-.1970	
.274			-.1310					
.345								-.1761
.390		-.1154						
.400				-.1299	-.1438		-.1625	
.402			-.1039					
.503								-.2122
.550				-.1868	-.1863			
.565			-.2097					
.600							-.2308	
.637		-.1756						
.650						-.2207		
.670								-.2479
.700					-.2344			
.725				-.2168				
.750						-.3245	-.2928	
.760			-.2327					
.775				-.3734	-.2631			
.798		-.2118						
.808			-.3573					
.834	-.1962							
.839		-.3116						
.850				-.2658	-.2522	-.2369		
.857			-.2572					
.862								-.1481
.865	-.3135							
.879		-.2474						
.900	-.2012			-.1915			-.1503	
.905			-.1930					
.919		-.1834						
.950				-.0739	-.1673	-.0522		
.953			-.0768					
.955		-.1000						
.965	-.1145							
1.000			.0520		-.0158		.0572	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (2) = .071 BETA (3) = .198 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0133	.0665	.0743	-.5440	-.6477	-.6595	-.6094	
.020	.0000	.0557	-.0096	-.5421	-.5139	-.5821	-.6600	-.1944
.040		.0647	-.1526					
.050	-.0052			-.3398	-.3707	-.4243	-.4348	
.069								-.1835
.080				-.2740				
.081			-.1750					
.086		.0635						
.094	-.0127							
.150				-.1854	-.1978	-.2051	-.2386	
.157								-.1832
.163		-.0081						
.177			-.1450					
.229	-.0025							
.246		-.1193						
.250				-.1365	-.1706	-.18[illegible]	.1908	
.274			-.1183					
.345								-.1712
.390		-.0958						
.400				-.1261	-.1365		-.1602	
.402			-.0964					
.503								-.2025
.550				-.1771	-.1812			
.565			-.2160					
.600							-.2253	
.637		-.1766						
.650						-.2151		
.670								-.2299
.700					-.2313			
.725				-.2169				
.750						-.3097	-.2866	
.760			-.2389					
.775				-.3781	-.2576			
.798		-.2095						
.808			-.3573					
.834	-.1975							
.839		-.3125						
.850				-.2632	-.2425	-.2352		
.857			-.2637					
.862								-.1252
.865	-.3110							
.879		-.2593						
.900	-.2137			-.1875			-.1338	
.905			-.2034					
.919		-.2013						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (2) = .071 BETA (3) = .198

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0700	-.1486	-.0452		
.953			-.0883					
.955		-.1193						
.965	-.1593							
1.000			.0397		.0103		.0709	

ALPHA (2) = .068 BETA (4) = 4.249 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0378	.0438	.1426	-.3632	-.4835	-.4788	-.4098	
.020	.0000	.0526	.0770	-.3902	-.4009	-.4526	-.4884	-.1665
.040		.0676	-.0696					
.050	-.0148			-.2625	-.2986	-.3343	-.3549	
.060								-.1748
.080				-.2167				
.081			-.1227					
.086		.0819						
.094	-.0215							
.150				-.1572	-.1693	-.1724	-.2124	
.157								-.1770
.163		.0250						
.177			-.1184					
.229	-.0004							
.246		-.1044						
.250				-.1260	-.1496	-.1658	-.1755	
.274			-.1078					
.345								-.1620
.390		-.0901						
.400				-.1263	-.1267		-.1536	
.402			-.0969					
.503								-.1954
.550				-.1752	-.1748			
.565			-.2375					
.600							-.2174	
.637		-.1694						
650						-.2083		
.670								-.2218
.700					-.2278			
.725				-.2186				
.750						-.2959	-.2752	
.760			-.2440					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (2) = .068 BETA (4) = 4.249

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3794	-.2491			
.798		-.2093						
.808			-.3478					
.834	-.2115							
.839		-.3176						
.850				-.2565	-.2245	-.2304		
.857			-.2682					
.862							-.1105	
.865	-.3145							
.879		-.2601						
.900	-.2277			-.1828		-.1320		
.905			-.2124					
.919		-.2085						
.950				-.0651	-.1248	-.0437		
.953			-.0974					
.955		-.1322						
.965	-.1889							
1.000			.0323		.0273		.0744	

ALPHA (2) = .061 BETA (5) = 8.308 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1122	-.0296	.1874	-.1925	-.3292	-.3228	-.3020	
.020	.0000	.0067	.1511	-.2372	-.2743	-.3291	-.3582	-.1742
.040		.0390	.0258					
.060	-.0425			-.1752	-.2198	-.2705	-.2073	
.069								-.1889
.080				-.1552				
.081			-.0575					
.086		.0829						
.094	-.0311							
.150				-.1241	-.1339	-.1468	-.1932	
.157								-.1773
.163		.0601						
.177			-.0800					
.229	-.0001							
.246		-.0688						
.250				-.1034	-.1332	-.1490	-.1659	
.274			-.0847					
.345								-.1659
.390		-.0738						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (2) = .061 BETA (5) = 8.308

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1157	-.1193		-.1473	
.402			-.0921					
.503								-.1883
.550				-.1593	-.1706			
.565			-.2729					
.600							-.2120	
.637		-.1651						
.650						-.2033		
.670								-.2068
.700					-.2250			
.725				-.2149				
.750						-.2804	-.2678	
.760			-.2416					
.775				-.3786	-.2448			
.798		-.2025						
.808			-.3304					
.824	-.2077							
.839		-.3129						
.850				-.2522	-.2115	-.2240		
.857			-.2569					
.862								-.0949
.865	-.3055							
.879		-.2587						
.900	-.2369			-.1783			-.1214	
.905			-.2058					
.919		-.2116						
.950				-.0632	-.1017	-.0441		
.953			-.0986					
.955		-.1340						
.965	-.2046							
1.000			.0301		.0491		.0797	

ALPHA (3) = 4.005 BETA (1) = -7.903 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0806	.1473	.3083	-.0148	-.0204	.1359	.1792	
.020	.0000	.1390	.2157	-.1273	-.0333	-.0142	.0245	.0164
.040		.1576	.0299					
.050	.0627			-.1011	-.0861	-.0582	-.0331	
.060								-.0145
.080				-.0871				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (3) = 4.005 BETA (1) = -7.903

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0322					
.086		.1535						
.094	.0482							
.150				-.0411	-.0329	-.0183	-.0422	
.157								-.1248
.163		.0746						
.177			-.0342					
.229	.0522							
.246		-.0342						
.250				-.0285	-.0424	-.0463	-.0519	
.274			-.0256					
.345								-.0883
.390		-.0213						
.400				-.0481	-.0443		-.0734	
.402			-.0220					
.503								-.1522
.550				-.1179	-.1183			
.565			-.2899					
.600							-.1846	
.637		-.1290						
.650						-.1692		
.670								-.2160
.700					-.1941			
.725				-.1762				
.750						-.2839	-.2485	
.760			-.1980					
.775				-.3303	-.2266			
.788		-.1769						
.808			-.3341					
.834	-.1734							
.839		-.2915						
.850				-.2454	-.2316	-.2297		
.857			-.2376					
.862								-.1755
.865	-.2909							
.879		-.2263						
.900	-.1634			-.1795			-.1587	
.905			-.1803					
.919		-.1665						
.950				-.0578	-.1406	-.0579		
.953			-.0652					
.955		-.0844						
.965	-.0693							
1.000			.0654		.0036		.0300	

AMES 11-073'OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (3) = 4.010 BETA (2) = -3.866 MACH = .59616 Q = 593.73 P = 2396.3 RN/L = 4.8137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0174	.0719	.3280	.0831	.0513	.1792	.2123	
.020	.0000	.1127	.2691	-.0446	.0295	.0409	.0656	-.0672
.040		.1388	.0982					
.050	.0408			-.0453	-.0382	-.0267	-.0035	
.069								-.0784
.080				-.0511				
.081			.0164					
.086		.1642						
.094	.0416							
.150				-.0293	-.0138	-.0034	-.0439	
.163		.1170						-.1433
.177			-.0091					
.229	.0592							
.246		-.0078						
.250				-.0169	-.0337	-.0426	-.0572	
.274			-.0087					
.345								-.1150
.390		-.0127						
.400				-.0401	-.0446		-.0789	
.402			-.0182					
.503								-.1804
.550				-.1177	-.1236			
.565			-.2531					
.600							-.1926	
.637		-.1188						
.650						-.1801		
.670								-.2297
.700					-.2018			
.725				-.1832				
.750						-.2859	-.2646	
.760			-.2080					
775				-.3406	-.2365			
.798		-.1815						
.808			-.3311					
.834	-.1730							
.839		-.2927						
.850				-.2525	-.2350	-.2367		
.857			-.2447					
.362								-.1813
.865	-.2876							
.879		-.2359						
.900	-.1825			-.1846			-.1633	
.905			-.1904					
.919		-.1791						

AMES 11-073(OA148) -1404/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (3) = 4.010 BETA (2) = -3.866

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7000	.8870	.9720
X/CW								
.950				-.0687	-.1478	-.0643		
.953			-.0792					
.955		-.1042						
.955	-.1162							
1.000			.0653		.0220		.0377	

ALPHA (3) = 4.008 BETA (3) = .197 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0795	-.0504	.2970	.1425	.1043	.1992	.2013	
.020	.0000	.0465	.2830	.0359	.0624	.0598	.0700	-.1506
.040		.0828	.1439					
.050	.0093			.0006	-.0141	-.0095	-.0081	
.059								-.1435
.080				-.0197				
.091			.0459					
.096		.1503						
.094	.0218							
.150				-.0088	-.0126	-.0026	-.0507	
.157								-.1599
.163		.1352						
.177			.0083					
.229	.0546							
.246		.0020						
.260				-.0165	-.0311	-.0427	-.0709	
.274			-.0060					
.345								-.1533
.390		-.0023						
.400				-.0476	-.0483		-.0911	
.402			-.0203					
.503								-.1975
.550				-.1193	-.1241			
.565			-.2404					
.600							-.1965	
.637		-.1234						
.650						-.1865		
.670								-.2418
.700					-.2056			
.725				-.1880				
.753						-.2804	-.2715	
.760			-.2118					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (3) = 4.008 BETA (3) = .197

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3550	-.2307			
.798		-.1796						
.808			-.3311					
.834	-.1775							
.839		-.2960						
.850				-.2505	-.2259	-.2375		
.857			-.2490					
.862							-.1803	
.865	-.2888							
.879		-.2403						
.900	-.1994			-.1825		-.1582		
.905			-.1990					
.919		-.1887						
.950				-.0656	-.1326	-.0697		
.953			-.0869					
.955		-.1142						
.965	-.1578							
1.000			.0479		.0400		.0481	

ALPHA (3) = 4.011 BETA (4) = 4.242 MACH = .59616 Q = 593.73 P = 2388.3 RN/L = 4.8137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2097	-.2175	.2315	.2016	.1630	.2335	.2326	
.020	.0000	-.0679	.2532	.0933	.1106	.1170	.1177	-.2853
.040		-.0124	.1644					
.050	-.0543			.0499	.0281	.0269	.0300	
.069								-.2446
.080				.0164				
.081			.0704					
.086		.1140						
.094	-.0231							
.150				.0012	.0081	.0023	-.0433	
.157								-.2027
.163		.1424						
.177			.0224					
.229	.0299							
.246		.0171						
.250				-.0074	-.0270	-.0391	-.0722	
.274			.0002					
.345								-.1914
.511		.0019						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (3) = 4.011 BETA (4) = 4.242

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0468	-.0485		-.0957	
.402			-.0196					
.503								-.2277
.550				-.1133	-.1227			
.565			-.2613					
.600							-.2017	
.637		-.1194						
.650						-.1820		
.670								-.2591
.700					-.2025			
.725				-.1913				
.750						-.2787	-.2708	
.760			-.2227					
.775				-.3600	-.2306			
.798		-.1878						
.808			-.3203					
.834	-.1844							
.839		-.2959						
.850				-.2437	-.2169	-.2416		
.857			-.2479					
.862								-.1894
.865	-.2826							
.879		-.2436						
.900	-.2113			-.1802			-.1665	
.905			-.2005					
.919		-.2053						
.950				-.0677	-.1089	-.0728		
.953			-.0976					
.955		-.1297						
.965	-.1901							
1.000			.0410		.0426		.0424	

ALPHA (3) = 4.014 BETA (5) = 8.290 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3911	-.3583	.0951	.2434	.1889	.2281	.2110	
.020	.0000	-.1880	.1799	.1437	.1344	.1283	.1078	-.4330
.040		-.1239	.1627					
.050	-.1305			.0854	.0719	.0439	.0312	
.069								-.3567
.080				.0398				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (3) = 4.014 BETA (5) = 8.290

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0916					
.086		.0599						
.094	-.0778							
.150				.0141	.0146	.0090	-.0533	
.157								-.2614
.163		.1330						
.177			.0352					
.229	-.0021							
.246		.0179						
.250				-.0078	-.0250	-.0400	-.0798	
.274			.0064					
.345								-.2417
.390		.0046						
.400				-.0475	-.0508		-.1100	
.402			-.0218					
.503								-.2693
.550				-.1165	-.1245			
.565			-.2857					
.600							-.2082	
.637		-.1106						
.650						-.1892		
.670								-.2795
.700					-.2049			
.725				-.1964				
.750						-.2655	-.2743	
.760			-.2246					
.775				-.3452	-.2215			
.798		-.1884						
.808			-.2993					
.834	-.1925							
.839		-.2958						
.850				-.2397	-.1954	-.2299		
.857			-.2454					
.862								-.1937
.835	-.2892							
.879		-.2459						
.900	-.2225			-.1802			-.1577	
.905			-.1998					
.919		-.2099						
.950				-.0703	-.0905	-.0684		
.953			-.1022					
.955		-.1428						
.965	-.1985							
1.000			.0388		.0533		.0525	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.901 BETA (1) = -7.891 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0179	-.0506	.4090	.4651	.4834	.5573	.5346	
.020	.0000	.1071	.4331	.3300	.4013	.4261	.4339	-.2017
.040		.1629	.3079					
.050	.1000			.2186	.2608	.2816	.3005	
.069								-.1112
.080				.1721				
.081			.1888					
.086		.2558						
.094	.1099							
.150				.1328	.1605	.1731	.1398	
.157								-.1353
.163		.2452						
.177			.1246					
.229	.1349							
.246		.1111						
.250				.1065	.1027	.1019	.0693	
.274			.0998					
.345								-.0801
.390		.0872						
.400				.0542	.0527		.0114	
.402			.0733					
.503								-.1609
.550				-.0396	-.0463			
.565			-.3103					
.600							-.1396	
.637		-.0575						
.650						-.1276		
.670								-.2253
.700					-.1544			
.725				-.1338				
.750						-.2372	-.2198	
.760			-.1636					
.775				-.2894	-.1866			
.798		-.1386						
.808			-.2827					
.834	-.1478							
.839		-.2558						
.850				-.2180	-.2053	-.2182		
.857			-.2044					
.862								-.2305
.865	-.2561							
.879		-.2023						
.900	-.1378			-.1640			-.1836	
.905			-.1662					
.919		-.1493						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (4) = 7.901 BETA (1) = -7.891

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0545	-.1179	-.0766		
.953			-.0620					
.955		-.0766						
.965	-.0624							
1.000			.0824		.0368		-.0448	

ALPHA (4) = 7.913 BETA (2) = -3.864 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1702	-.2751	.2917	.4642	.4606	.5068	.4744	
.020	.0000	-.0254	.3790	.3495	.3980	.4112	.4078	-.4020
.040		.0479	.3156					
.050	.0337			.2421	.2640	.2830	.2354	
.069								-.2589
.080				.1815				
.081			.2104					
.085		.2133						
.094	.0645							
.150				.1399	.1636	.1659	.1227	
.157								-.1820
.163		.2446						
.177			.1389					
.229	.1128							
.246		.1189						
.250				.1081	.0987	.0916	.0544	
.274			.1000					
.345								-.1449
.390		.0935						
.400				.0526	.0473		-.0058	
.402			.0685					
.503								-.2122
.550				-.0428	-.0541			
.565			-.2782					
.600							-.1560	
.637		-.0591						
.650						-.1337		
.670								-.2466
.700					-.1571			
.725				-.1437				
.750						-.2401	-.2293	
.760			-.1745					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.913 BETA (2) = -3.864

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.6870	.9720
X/CW								
.775				-.2992	-.1900			
.798		-.1464						
.808			-.2877					
.834	-.1476							
.839		-.2618						
.850				-.2248	-.2040	-.2240		
.857			-.2222					
.862							-.2487	
.865	-.2539							
.879		-.2135						
.900	-.1567			-.1651			-.1912	
.905			-.1790					
.919		-.1660						
.950				-.0595	-.1216	-.0855		
.953			-.0748					
.955		-.0901						
.965	-.1158							
1.000			.0609		.0499		-.0265	

ALPHA (4) = 7.919 BETA (3) = .190 MACH = .5965U Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3594	-.5350	.1257	.4380	.4233	.4298	.3902	
.020	.0000	-.1964	.2810	.3554	.3742	.3845	.3504	-.6003
.040		-.1028	.2960					
.050	-.0562			.2523	.2555	.2667	.2534	
.069								-.4129
.080				.1905				
.081			.2085					
.086		.1484						
.094	.0024							
.150				.1403	.1605	.1590	.0948	
.157								-.2336
.163		.2348						
.177			.1355					
.229	.0802							
.246		.1156						
.250				.0993	.0920	.0851	.0290	
.274			.1005					
.345								-.2300
.390		.0897						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.919 BETA (3) = .190

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8070	.9720
X/CW								
.400				.0418	.0407		-.0322	
.402			.0614					
.503								-.2673
.550				-.0507	-.0595			
.565			-.2775					
.600							-.1721	
.637		-.0582						
.650						-.1468		
.670								-.2869
.700					-.1669			
.725				-.1539				
.750						-.2457	-.2453	
.760			-.1909					
.775				-.3031	-.1936			
.798		-.1524						
.808			-.2787					
.834	-.1579							
.839		-.2661						
.850				-.2255	-.1879	-.2319		
.857			-.2260					
.862								-.2693
.865	-.2601							
.879		-.2195						
.900	-.1755			-.1755			-.1923	
.905			-.1916					
.919		-.1838						
.950				-.0732	-.1130	-.0875		
.953			-.0898					
.955		-.1110						
.965	-.1503							
1.000			.0449		.0553		-.0168	

ALPHA (4) = 7.918 BETA (4) = 4.240 MACH = .59650 Q = 594.32 P = 2388.1 RN/L = 4.8187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5642	-.6842	-.0607	.3791	.3710	.3349	.2857	
.020	.0000	-.3434	.1588	.3270	.3403	.3430	.2964	-.8655
.040		-.2348	.2493					
.050	-.1467			.2436	.2653	.2502	.2297	
.069								-.5895
.080				.1847				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.918 BETA (4) = 4.240

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1955					
.086		.0670						
.094	-.0607							
.150				.1317	.1500	.1481	.0702	
.157								-.3076
.163		.2052						
.177			.1338					
.229	.0405							
.246		.1014						
.250				.0948	.0845	.0748	.0149	
.274			.0967					
.345								-.3003
.390		.0810						
.400				.0355	.0265		-.0501	
.402			.0502					
.503								-.3300
.550				-.0558	-.0637			
.565			-.2839					
.600							-.1839	
.637		-.0627						
.650						-.1516		
.670								-.3158
.700					-.1683			
.725				-.1582				
.750						-.2335	-.2513	
.760			-.1991					
.775				-.3037	-.1712			
.798		-.1541						
.806			-.2731					
.634	-.1600							
.839		-.2641						
.850				-.2201	-.1794	-.2304		
.857			-.2312					
.862								-.2798
.865	-.2564							
.879		-.2242						
.900	-.1930			-.1731			-.1830	
.905			-.1934					
.919		-.1896						
.950				-.0670	-.1072	-.0846		
.953			-.1010					
.955		-.1205						
.965	-.1700							
1.000			.0381		.0175		-.0067	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.914 BETA (5) = 8.294 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7571	-.6502	-.2723	.2864	.2852	.2061	.1549	
.020	.0000	-.4348	-.0101	.2851	.2795	.2740	.2097	-1.1082
.040		-.3341	.1819					
.050	-.2575			.2258	.2334	.2170	.1712	
.069								-.7608
.080				.1731				
.081			.1685					
.086		-.0171						
.094	-.1433							
.150				.1164	.1296	.1277	.0370	
.157								-.3871
.163		.1587						
.177			.1172					
.229	-.0104							
.246		.0810						
.250				.0676	.0696	.0567	-.0157	
.274			.0813					
.345								-.3895
.390		.0751						
.400				.0120	.0146		-.0779	
.402			.0365					
.503								-.3751
.550				-.0660	-.0733			
.565			-.3062					
.600							-.1934	
.637		-.0686						
.650						-.1628		
.670								-.3443
.700					-.1819			
.725				-.1735				
.750						-.2492	-.2639	
.760			-.2116					
.775				-.3116	-.2025			
.798		-.1638						
.808			-.2730					
.834	-.1795							
.839		-.2712						
.850				-.2271	-.1949	-.2379		
.857			-.2422					
.862								-.2798
.865	-.2679							
.879		-.2421						
.900	-.2110			-.1840			-.1906	
.905			-.2047					
.919		-.2110						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (4) = 7.914 BETA (5) = 8.294

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0892	-.1007	-.0953		
.953			-.1078					
.955		-.1396						
.965	-.1960							
1.000			.0362		.0264		.0111	

ALPHA (5) = 11.926 BETA (1) = -7.855 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720
X/CW								
.010	-.3059	-.6478	.1429	.5967	.5981	.5254	.4620	
.020	.0000	-.1618	.3834	.5609	.5891	.5820	.5354	-.7418
.040		-.0393	.4481					
.050	.0564			.4494	.4835	.4862	.4704	
.069								-.3938
.080				.3702				
.081			.3588					
.086		.2606						
.094	.1200							
.150				.2892	.3231	.3362	.2717	
.157								-.2108
.163		.3622						
.177			.2736					
.229	.1900							
.246		.2437						
.250				.2335	.2326	.2321	.1793	
.274			.2166					
.345								-.1249
.390		.1939						
.400				.1460	.1544		.0916	
.402			.1641					
.503								-.1870
.550				.0396	.0299			
.565			-.3225					
.600							-.0949	
.637		.0132						
.650						-.0715		
.670								-.2220
.700					-.1018			
.725				-.0913				
.750								
.760			-.1418			-.1803	-.1769	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (5) = 11.926 BETA (1) = -7.855

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2152	-.1136			
.798		-.1033						
.808			-.2156					
.834	-.1147							
.839		-.2123						
.850				-.1817	-.1471	-.1978		
.857			-.1771					
.862							-.2982	
.865	-.2109							
.879		-.1771						
.900	-.1030			-.1523		-.2120		
.905			-.1559					
.919		-.1383						
.950				-.0697	-.0883	-.0987		
.953			-.0669					
.955		-.0729						
.965	-.0616							
1.000			.0553		-.0042		-.1339	

ALPHA (5) = 11.949 BETA (2) = -3.840 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5360	-.8759	-.0755	.5052	.5071	.3947	.3271	
.020	.0000	-.3401	.2446	.5142	.5339	.5125	.4454	-.9816
.040		-.1897	.3995					
.050	-.0479			.4297	.4666	.4528	.4222	
.069								-.5749
.080				.3560				
.081			.3477					
.086		.1817						
.094	.0518							
.150				.2782	.3078	.3164	.2311	
.157								-.2726
.163		.3374						
.177			.2652					
.229	.1542							
.246		.2321						
.250				.2234	.2194	.2089	.1500	
.274			.2130					
.345								-.2081
.390		.1917						

AMES 11-073(OA140) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (5) = 11.949 BETA (2) = -3.840

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1456	.1371		.0594	
.402			.1645					
.503								-.2596
.550				.0283	.0129			
.565			-.2865					
.600							-.1242	
.637		.0154						
.650						-.0923		
.670								-.2716
.700					-.1210			
.725				-.1057				
.750						-.1979	-.1989	
.760			-.1458					
.775				-.2365	-.1399			
.788		-.1102						
.808			-.2157					
.834	-.1151							
.839		-.2135						
.850				-.1954	-.1674	-.2128		
.857			-.1855					
.862								-.3191
.865	-.2147							
.879		-.1805						
.900	-.1203			-.1805			-.2146	
.905			-.1644					
.919		-.1459						
.950				-.0722	-.0938	-.1125		
.953			-.0743					
.955		-.0872						
.965	-.1104							
1.000			.0576		-.0139		-.0997	

ALPHA (5) = 11.954 BETA (3) = .189 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	-.7852	-1.1082	-.3158	.3901	.3927	.2376	.1745	
.020	.0000	-.5160	.0735	.4453	.4551	.4233	.3423	-1.1990
.040		-.3779	.3244					
.060	-.1676			.3933	.4230	.3998	.3537	
.080				.3296				-.7559

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (5) = 11.954 BETA (3) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3153					
.086		.0788						
.094	-.0378							
.150				.2563	.2846	.2797	.1893	
.157								-.3374
.163		.2900						
.177			.2507					
.229	.1002							
.246		.2058						
.250				.2038	.2019	.1838	.1093	
.274			.1989					
.345								-.2979
.390		.1782						
.400				.1232	.1154		.0204	
.402			.1441					
.503								-.3268
.550				.0135	-.0014			
.565			-.2676					
.600							-.1495	
.637		.0003						
.650						-.1153		
.670								-.3105
.700					-.1436			
.725				-.1251				
.750						-.2203	-.2225	
.760			-.1689					
.775				-.2624	-.1775			
.798		-.1250						
.808			-.2304					
.834	-.1360							
.839		-.2306						
.850				-.2132	-.2125	-.2393		
.857			-.2082					
.862								-.3238
.865	-.2290							
.879		-.2011						
.900	-.1460			-.1781			-.2311	
.905			-.1858					
.919		-.1674						
.950				-.0859	-.1095	-.1322		
.953			-.1006					
.955		-.1132						
.965	-.1369							
1.000			.0243		-.0121		-.0703	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (5) = 11.952 BETA (4) = 4.250 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.9910	-.9775	-.5335	.2505	.2594	.0579	.0036	
.020	.0000	-.6105	-.1088	.3601	.3564	.3156	.2146	-1.4114
.040		-.4672	.2245					
.050	-.2993			.3439	.3661	.3427	.2804	
.069								-.9062
.080				.2998				
.081			.2665					
.086		-.0157						
.094	-.1388							
.150				.2297	.2530	.2519	.1504	
.157								-.3789
.163		.2350						
.177			.2252					
.229	.0453							
.246		.1675						
.250				.1801	.1771	.1656	.0827	
.274			.1788					
.345								-.3420
.390		.1544						
.400				.1020	.1001		-.0033	
.402			.1227					
.503								-.3677
.550				.0020	-.0137			
.565			-.2925					
.600							-.1579	
.637		-.0024						
.650						-.1285		
.670								-.3374
.700					-.1637			
.725				-.1389				
.750						-.2333	-.2338	
.760			-.1804					
.775				-.2652	-.1935			
.798		-.1313						
.808			-.2394					
.834	-.1445							
.839		-.2410						
.850				-.2207	-.2405	-.2530		
.857			-.2201					
.862								-.3026
.865	-.2281							
.879		-.2126						
.900	-.1736			-.1917			-.2360	
.905			-.1988					
.919		-.1850						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L17)

ALPHA (5) = 11.952 BETA (4) = 4.250

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1129	-.1118	-.1601		
.953			-.1140					
.955		-.1259						
.965	-.1593							
1.000			.0398		.0074		-.0788	

ALPHA (5) = 11.942 BETA (5) = 8.320 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-1.2411	-.7424	-.7719	.0802	.0981	-.1610	-.1946	
.020	.0000	-.6502	-.3031	.2505	.2453	.1924	.0835	-1.4781
.040		-.5497	.1170					
.050	-.4304			.2869	.3006	.2718	.1943	
.063								-1.0263
.080				.2579				
.081			.2103					
.086		-.1025						
.094	-.2402							
.150				.1965	.2255	.2173	.1107	
.157								-.4357
.163		.1704						
.177			.2043					
.229	-.0196							
.246		.1289						
.250				.1598	.1577	.1354	.0494	
.274			.1603					
.345								-.4103
.390		.1370						
.400				.0875	.0839		-.0278	
.402			.1031					
.503								-.4059
.550				-.0043	-.0293			
.565			-.3172					
.600							-.1815	
.637		-.0130						
.650						-.1479		
.670								-.3475
.700					-.1799			
.725				-.1509				
.750						-.2375	-.2435	
.760			-.1968					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL17)

ALPHA (5) = 11.942 BETA (5) = 8.320

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2538	-.1773			
.798		-.1470						
.808			-.2308					
.834	-.1601							
.839		-.2487						
.850				-.2270	-.2188	-.2406		
.857			-.2227					
.862								-.2996
.865	-.2269							
.879		-.2229						
.900	-.1868			-.2069			-.2411	
.905			-.2038					
.919		-.1953						
.950				-.1270	-.1094	-.1541		
.953			-.1217					
.955		-.1368						
.965	-.1713							
1.000			.0344		-.0120		-.0775	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000
BOFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (1) = -4.050 BETA (1) = -3.854 MACH = 1.3965 Q = 599.95 P = 439.47 RN/L = 2.9144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1774	-.2481	-.1387	-.2712	-.3549	-.2165	-.1868	
.020	.0000	-.2401	-.2515	-.4100	-.3973	-.4065	-.3994	-.4537
.040		-.2341	-.3101					
.050	-.1548			-.4440	-.4240	-.4422	-.4307	
.069								-.4866
.080				-.4416				
.[illegible]			-.1945					
.086		-.1293						
.094	-.1439							
.150				-.4011	-.3886	-.3899	-.3954	
.157								-.3071
.163		-.0380						
.177			-.1772					
.229	-.1055							
.246		-.1162						
.250				-.2156	-.3614	-.3544	-.3668	
.274			-.1615					
.345								-.4106
.390		-.1376						
.400				-.1713	-.3095		-.3271	
.402			-.1494					
.503								-.3478
.550				-.1389	-.1588			
.565			-.2956					
.600							-.3197	
.637		-.0948						
.650						-.3180		
.670								-.4576
.700					-.2036			
.725				-.1678				
.750						-.2736	-.3573	
.760			-.1838					
.775				-.2175	-.2403			
.798		-.1709						
.800			-.2455					
.834	-.1851							
.839		-.2422						
.850				-.2952	-.2475	-.3042		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (1) = -4.050 BETA (1) = -3.854

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2659					
.862								-.4588
.865	-.2278							
.879		-.2796						
.900	-.1960			-.3404			-.4230	
.905			-.3395					
.919		-.2843						
.950				-.3639	-.3149	-.3620		
.953			-.3621					
.955		-.2862						
.965	-.2738							
1.000			-.0948		-.1986		-.4035	

ALPHA (1) = -4.042 BETA (2) = .192 MACH = 1.3965 Q = 599.95 P = 439.47 RN/L = 2.9144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0970	-.1193	-.0545	-.2723	-.3754	-.2612	-.2385	
.020	.0000	-.1193	-.1265	-.4063	-.4151	-.4334	-.4328	-.4966
.040		-.1158	-.1810					
.050	-.1005			-.4287	-.4387	-.4640	-.4625	
.069								-.5121
.080				-.3902				
.081			-.1542					
.086		-.0539						
.094	-.0956							
.150				-.3163	-.3951	-.4094	-.4202	
.157								-.3272
.163		.0115						
.177			-.1315					
.229	-.0731							
.246		-.0764						
.250				-.1582	-.3575	-.3683	-.3920	
.274			-.1251					
.345								-.4875
.390		-.0987						
.400				-.1442	-.1549		-.3457	
.402			-.1156					
.503								-.3583
.550				-.1102	-.1366			
.565			-.3122					
.600							-.3284	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (1) = -4.042 BETA (2) = .192

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0771						
.650						-.1837		
.670								-.4422
.700					-.1730			
.725				-.1551				
.750						-.2034	-.3395	
.760			-.1772					
.775				-.2118	-.2155			
.798		-.1610						
.808			-.2315					
.834	-.1680							
.839		-.2318						
.850				-.2827	-.2094	-.2832		
.857			-.2592					
.862								-.4990
.865	-.2134							
.879		-.2632						
.900	-.1926			-.3276			-.3291	
.905			-.3243					
.919		-.2765						
.950				-.3536	-.3107	-.3429		
.953			-.3454					
.955		-.2839						
.965	-.3024							
1.000			-.1121		-.2220		-.3060	

ALPHA (1) = -4.051 BETA (3) = 4.285 MACH = 1.3965 Q = 599.95 P = 439.47 RN/L = 2.9144

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0732	-.0300	.0451	-.2646	-.3840	-.2904	-.2744	
.020	.0000	-.0435	.0098	-.3907	-.4208	-.4513	-.4544	-.5224
.040		-.0378	-.0701					
.050	-.0740			-.3516	-.4404	-.4779	-.4801	
.069								-.5188
.080				-.3391				
.081			-.0929					
.086		.0009						
.094	-.0816							
.150				-.1814	-.3822	-.4166	-.4344	
.157								-.3324
.163		.0515						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (1) = -4.051 BETA (3) = 4.285

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.0917					
.229	-.0503							
.246		-.0402						
.250				-.1309	-.1812	-.3621	-.4018	
.274			-.0834					
.345								-.4068
.390		-.0578						
.400				-.1013	-.1293		-.3510	
.402			-.0791					
.503								-.3449
.550				-.0873	-.1021			
.565			-.2835					
.600							-.1558	
.637		-.0578						
.650						-.1501		
.670								-.3871
.700					-.1521			
.725				-.1426				
.750						-.1850	-.1936	
.760			-.1654					
.775				-.2022	-.1995			
.798		-.1505						
.808			-.2207					
.834	-.1714							
.839		-.2194						
.850				-.2687	-.1888	-.2682		
.857			-.2518					
.862								-.3560
.865	-.2082							
.879		-.2589						
.900	-.1977			-.3158			-.2920	
.905			-.3101					
.919		-.2715						
.950				-.3475	-.3022	-.3196		
.953			-.3300					
.955		-.2772						
.965	-.3127							
1.000			-.1199		-.2214		-.1380	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (2) = -.030 BETA (1) = -3.874 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0010	.0154	.2067	-.0798	-.1750	-.1026	-.0144	
.020	.0000	-.0172	.1528	-.2118	-.2260	-.2333	-.2532	-.2125
.040		-.0176	.0151					
.050	-.0254			-.2188	-.2305	-.2611	-.2698	
.069								-.2377
.080				-.1750				
.081			-.0354					
.086		.0273						
.094	-.0415							
.150				-.1166	-.1772	-.1912	-.2175	
.157								-.1873
.163		.0971						
.177			-.0309					
.229	-.0389							
.245		-.0160						
.250				-.0612	-.1306	-.1534	-.1828	
.274			-.0456					
.345								-.1572
.390		-.0359						
.400				-.0569	-.0420		-.1393	
.402			-.0435					
.503								-.1613
.550				-.0342	-.0420			
.565			-.3368					
.600							-.1093	
.637		-.0219						
.650						-.0885		
.670								-.2353
.700					-.1129			
.725				-.0962				
.750						-.1240	-.1385	
.760			-.1234					
.775				-.1679	-.1658			
.788		-.1201						
.808			-.1765					
.834	-.1334							
.839		-.1914						
.850				-.2349	-.2717	-.2343		
.857			-.2175					
.862								-.2690
.865	-.1671							
.879		-.2359						
.900	-.1593			-.2919			-.2731	
.905			-.2868					
.919		-.2628						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (2) = -.030 BETA (1) = -3.874

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3402	-.2541	-.3089		
.953			-.3230					
.955		-.2430						
.965	-.2216							
1.000			-.0859		-.1510		-.3599	

ALPHA (2) = -.025 BETA (2) = .186 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0101	.0013	.2497	-.0790	-.1937	-.1359	-.0629	
.020	.0000	-.0055	.2229	-.1825	-.2266	-.2525	-.2788	-.2437
.040		.0077	.0722					
.050	-.0206			-.1076	-.1789	-.2620	-.2904	
.069								-.2542
.080				-.1045				
.081			.0095					
.086		.0493						
.094	-.0389							
.150				-.0776	-.1289	-.1709	-.2138	
.157								-.1856
.163		.1174						
.177			-.0109					
.229	-.0328							
.246		.0127						
.250				-.0363	-.0523	-.1106	-.1832	
.274			-.0111					
.345								-.1222
.390		-.0055						
.400				-.0327	-.0343		-.0640	
.402			-.0206					
.503								-.0886
.550				-.0176	-.0257			
.565			-.3601					
.600							-.0782	
.637		-.0027						
.650						-.0734		
.670								-.1965
.700					-.0970			
.725				-.0860				
.750						-.1213	-.1404	
.760			-.1123					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (2) = -.025 BETA (2) = .186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1630	-.1510			
.798		-.1130						
.808			-.1609					
.834	-.1180							
.839		-.1759						
.850				-.2225	-.2592	-.2240		
.857			-.2059					
.862							-.2815	
.865	-.1568							
.879		-.2213						
.900	-.1497			-.2785		-.2767		
.905			-.2741					
.919		-.2389						
.950				-.3293	-.2559	-.3040		
.953			-.3082					
.955		-.2290						
.965	-.2340							
1.000			-.1054		-.1674		-.3216	

ALPHA (2) = -.030 BETA (3) = 4.265 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0756	-.0624	.2640	-.0232	-.1760	-.1619	-.0924	
.020	.0000	-.0351	.2481	-.0200	-.1202	-.2461	-.2929	-.1948
.040		-.0196	.1136					
.050	-.0525			-.0781	-.1855	-.2325	-.2872	
.069								-.1844
.080				-.0600				
.081			.0374					
.086		.0450						
.094	-.0501							
.150				-.0405	-.0797	-.1323	-.2015	
.157								-.1682
.163		.1174						
.177			.0049					
.229	-.0470							
.246		.0236						
.250				-.0175	-.0413	-.0400	-.0723	
.274			.0096					
.345								-.0686
.390		.0117						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (2) = -.030 BETA (3) = 4.265

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0062	-.0113		-.0499	
.402			-.0032					
.503								-.0936
.550				-.0087	-.0053			
.565			-.3483					
.600							-.0613	
.637		.0070						
.650						-.0588		
.670								-.2042
.700					-.0845			
.725				-.0797				
.750						-.1166	-.1282	
.760			-.1120					
.775				-.1556	-.1393			
.798		-.1063						
.808			-.1566					
.849	-.1179							
.859		-.1721						
.860				-.2134	-.2393	-.2166		
.857			-.2048					
.862								-.2863
.865	-.1580							
.879		-.2212						
.900	-.1594			-.2697			-.2734	
.905			-.2730					
.919		-.2262						
.950				-.3208	-.2362	-.3035		
.953			-.2944					
.955		-.2293						
.965	-.2443							
1.009			-.1205		-.1762		-.2139	

ALPHA (3) = 3.919 BETA (1) = -3.877 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0553	.0146	.4004	.2592	.1932	.1846	.2209	
.020	.0000	.0367	.3793	.1830	.1756	.0967	.0465	.0989
.040		.0533	.2132					
.050	.0488			.0551	.0266	.0352	.0384	
.059								.0628
.080				.0592				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (3) = 3.919 BETA (1) = -3.877

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1263					
.086		.1079						
.094	.0290							
.150				.0575	.0647	.0756	.0870	
.157								-.0675
.163		.1991						
.177			.0890					
.229	.0271							
.246		.0771						
.250				.0758	.0774	.0884	.0732	
.274			.0741					
.345								.0318
.390		.0742						
.400				.0720	.0838		.0661	
.402			.0684					
.503								.0030
.550				.0757	.0883			
.565			-.3894					
.600							.0112	
.637		.0638						
.650						.0266		
.670								-.1363
.700					-.0132			
.725				-.0145				
.750						-.0260	-.0459	
.760			-.0555					
.775				-.1316	-.0770			
.788		-.0606						
.800			-.1013					
.834	-.0728							
.839		-.1386						
.850				-.1692	-.2342	-.1606		
.857			-.1644					
.862								-.2313
.865	-.1074							
.879		-.1818						
.900	-.1518			-.2324			-.2199	
.905			-.2330					
.919		-.2275						
.950				-.2950	-.2523	-.2585		
.953			-.2722					
.955		-.1984						
.965	-.1508							
1.000			-.0925		-.1385		-.4008	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (3) = 3.922 BETA (2) = .185 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0319	-.1486	.3509	.3067	.2080	.1957	.2070	
.020	.0000	-.0593	.3547	.2292	.1820	.1190	.0634	.0630
.040		-.0286	.2306					
.050	.0181			.1121	.0655	.0948	.0589	
.069								.0392
.080				.0976				
.081			.1499					
.086		.0666						
.094	.0089							
.150				.0764	.0856	.0953	.1106	
.157								-.0804
.163		.1787						
.177			.0975					
.229	.0086							
.246		.0923						
.250				.0913	.0887	.0969	.0740	
.274			.0946					
.345								.0083
.390		.0825						
.400				.0797	.0966		.0656	
.402			.0735					
.503								-.0194
.550				.0804	.0923			
.565			-.4098					
.600							.0157	
.637		.0759						
.650						.0285		
.670								-.1525
.700					-.0142			
.725				-.0126				
.750						-.0419	-.0533	
.760			-.0460					
.775				-.1141	-.0713			
.798		-.0489						
.808			-.0871					
.834	-.0561							
.839		-.1170						
.850				-.1600	-.2295	-.1671		
.857			-.1521					
.862								-.2493
.865	-.0960							
.879		-.1688						
.900	-.1282			-.2206			-.2198	
.905			-.2166					
.919		-.2055						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (3) = 3.922 BETA (2) = .185

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2821	-.2487	-.2684		
.953			-.2610					
.955		-.1869						
.965	-.1512							
1.000			-.1208		-.1216		-.3732	

ALPHA (3) = 3.923 BETA (3) = 4.255 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1589	-.3707	.2632	.3336	.2308	.2079	.2290	
.020	.0000	-.1865	.2995	.2619	.2016	.1462	.1133	.0029
.040		-.1435	.2277					
.050	-.0527			.1497	.0973	.1085	.1060	
.069								.0012
.080				.1323				
.081			.1451					
.086		-.0096						
.094	-.0370							
.150				.0883	.1063	.1137	.1177	
.157								-.0991
.163		.1431						
.177			.0995					
.229	-.0207							
.246		.0821						
.250				.0965	.0944	.1006	.0773	
.274			.1019					
.345								-.0130
.390		.0875						
.400				.0913	.1170		.0766	
.402			.0834					
.503								-.0339
.550				.0783	.0918			
.565			-.3821					
.600							.0195	
.637		.0804						
.650						.0272		
.670								-.1748
.700					-.0116			
.725				-.0138				
.750						-.0639	-.0660	
.760			-.0454					

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (3) = 3.923 BETA (3) = 4.255

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1015	-.0620			
.798		-.0470						
.808			-.0829					
.834	-.0555							
.839		-.1115						
.850				-.1519	-.2199	-.1699		
.857			-.1462					
.862								
.865	-.1027						-.2765	
.879		-.1689						
.900	-.1179			-.2151				
.905			-.2179			-.2331		
.919		-.1858						
.950				-.2743	-.2304	-.2752		
.953			-.2490					
.955		-.1879						
.965	-.1629							
1.000			-.1436		-.1209		-.2348	

ALPHA (4) = 7.792 BETA (1) = -3.867 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0116	-.1206	.4272	.5079	.4487	.5091	.5275	
.020	.0000	.0052	.4547	.3806	.4039	.4030	.3976	.1369
.040		.0413	.3506					
.050	.0865			.2725	.2721	.3089	.3543	
.069								.1526
.080				.2377				
.081			.2600					
.085		.1502						
.094	.0803							
.150				.1934	.2500	.2828	.2868	
.157								-.0413
.163		.2866						
.177			.1995					
.229	.0886							
.246		.1722						
.250				.2083	.2214	.2448	.2203	
.274			.1939					
.345								.1212
.390		.1722						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (4) = 7.792 BETA (1) = -3.867

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1923	.2466		.2011	
.402			.1758					
.503								.0896
.550				.1795	.1962			
.565			-.4318					
.600							.1174	
.637		.1587						
.650						.1189		
.670								-.0751
.700					.0616			
.725				.0570				
.750						.0283	.0172	
.760			.0162					
.775				-.0805	-.0072			
.798		.0080						
.808			-.0262					
.834	-.0036							
.839		-.0737						
.850				-.1032	-.1856	-.1085		
.857			-.0991					
.862								-.1836
.865	-.0398							
.879		-.1163						
.900	-.1040			-.1741			-.1556	
.905			-.1700					
.919		-.1816						
.950				-.2467	-.2243	-.2218		
.953			-.2212					
.955		-.1661						
.965	-.0753							
1.000			-.1247		-.2574		-.3822	

ALPHA (4) = 7.791 BETA (2) = .182 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1270	-.3292	.2895	.5161	.4625	.5132	.5176	
.020	.0000	-.1222	.3613	.4160	.4101	.4272	.4051	.0284
.040		-.0697	.3215					
.050	.0241			.3106	.2880	.3231	.3588	
.069								.0673
.080				.2666				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (4) = 7.791 BETA (2) = .182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2439					
.086		.0725						
.094	.0342							
.150				.2030	.2588	.2779	.2867	
.157								-.0593
.163		.2316						
.177			.1946					
.229	.0574							
.246		.1625						
.250				.2045	.2293	.2432	.2156	
.274			.1956					
.345								.0853
.390		.1746						
.400				.1887	.2410		.2118	
.402			.1787					
.503								.0509
.550				.1775	.1931			
.565			-.4206					
.600							.1037	
.637		.1604						
.650						.1114		
.670								-.1058
.700					.0658			
.725				.0616				
.750						.0144	-.0006	
.760			.0258					
.775				-.0494	-.0001			
.798		.0226						
.808			-.0143					
.834	.0150							
.839		-.0508						
.850				-.0946	-.1889	-.1142		
.857			-.0883					
.862								-.2274
.865	-.0322							
.879		-.1118						
.900	-.0758			-.1630			-.1772	
.905			-.1557					
.919		-.1527						
.950				-.2352	-.2174	-.2334		
.953			-.2090					
.955		-.1480						
.965	-.0912							
1.000			-.1531		-.1877		-.4037	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBL18)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

ALPHA (4) = 7.919 BETA (3) = 4.252 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2792	-.4259	.1032	.4869	.4559	.5008	.5069	
.020	.0000	-.2196	.2181	.4210	.4136	.4318	.4148	-.0924
.040		-.1640	.2513					
.050	-.0501			.3207	.3065	.3261	.3677	-.0189
.069								
.080				.2622				
.081			.1998					
.085		.0060						
.094	-.0161							
.150				.2069	.2619	.2741	.2862	-.0819
.157								
.163		.1765						
.177			.1740					
.229	.0229							
.246		.1364						
.250				.1992	.2257	.2422	.2303	
.274			.1853					.0365
.345								
.393		.1542						
.400				.1933	.2362		.2206	
.402			.1756					.0123
.503								
.550				.1745	.1900			
.555			-.4151					
.600							.0996	
.637		.1653						
.650						.1233		-.1307
.670								
.700					.0770			
.725				.0679				
.750						.0151	-.0061	
.760			.0256					
.775				-.0179	.0110			
.798		.0274						
.808			-.0107					
.834	.0175							
.839		-.0479						
.850				-.0823	-.1870	-.1117		
.857			-.0833					-.2502
.862								
.865	-.0377							
.879		-.1137					-.1772	
.900	-.0664			-.1532				
.905			-.1616					
.919		-.1363						

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (4) = 7.919 BETA (3) = 4.252

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2185	-.1920	-.2263		
.953			-.1903					
.955		-.1489						
.965	-.1052							
1.000			-.1882		-.1529		-.3697	

ALPHA (5) = 11.807 BETA (1) = -3.848 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9163

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1045	-.2745	.3760	.6810	.6527	.7231	.7251	
.020	.0000	-.0319	.4766	.5708	.5988	.6241	.6416	.0777
.040		.0237	.4562					
.050	.1027			.4717	.4900	.5153	.5564	
.069								.1526
.080				.4058				
.081			.3768					
.086		.1839						
.094	.1270							
.150				.3433	.4140	.4461	.4393	
.157								-.0102
.163		.3636						
.177			.3191					
.229	.1578							
.246		.2731						
.250				.3417	.3719	.3981	.3758	
.274			.3182					
.295								.1788
.300		.2938						
.400				.3188	.3793		.3530	
.402			.3018					
.503								.1520
.550				.2828	.3098			
.565			-.4268					
.600							.1987	
.637		.2544						
.650						.2204		
.670								-.0180
.700					.1543			
.725				.1492				
.750						.1130	.0932	
.760			.1067					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (5) = 11.807 BETA (1) = -3.848

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.0072	.0722			
.799		.1011						
.808			.0607					
.834	.0916							
.839		.0070						
.850				-.0273	-.1196	-.0387		
.857			-.0230					
.862								-.1461
.865	.0459							
.879		-.0406						
.900	-.0053			-.1031			-.0891	
.905			-.0949					
.919		-.0970						
.950				-.1880	-.1448	-.1686		
.953			-.1520					
.956		-.0822						
.965	-.0159							
1.000			-.2443		-.2953		-.4590	

ALPHA (5) = 11.815 BETA (2) = .187 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CR

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2412	-.3783	.1913	.6180	.6072	.6592	.6607	
.020	.0000	-.1409	.3261	.5401	.5703	.5939	.6017	-.0718
.040		-.0792	.3721					
.050	.0233			.4512	.4693	.4922	.5260	
.069								.0461
.080				.3841				
.081			.3144					
.086		.1058						
.094	.0727							
.150				.3346	.3972	.4193	.4281	
.157								-.0532
.163		.2936						
.177			.2893					
.229	.1147							
.246		.2342						
.250				.3181	.3550	.3853	.3625	
.274			.3000					
.315								.1156
.390		.2686						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (5) = 11.815 BETA (2) = .187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3117	.3622		.3261	
.402			.2848					
.503								.0943
.550				.2757	.2955			
.565			-.4489					
.600							.1769	
.637		.2527						
.650						.2033		
.670								-.0598
.700					.1422			
.725				.1468				
.750						.0859	.0597	
.760			.1028					
.775				.0382	.0727			
.798		.1038						
.808			.0722					
.834	.0950							
.839		.0323						
.850				-.0155	-.1330	-.0482		
.857			-.0075					
.862								-.1904
.865	.0379							
.879		-.0429						
.900	.0040			-.0928			-.1153	
.905			-.0925					
.919		-.0810						
.950				-.1737	-.1437	-.1734		
.953			-.1459					
.955		-.0963						
.965	-.0456							
1.000			-.1924		-.2516		-.4765	

ALPHA (5) = 11.810 BETA (3) = 4.268 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9153

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3434	-.4342	.0023	.5276	.5418	.5720	.5779	
.020	.0000	-.2329	.1771	.4941	.5209	.5434	.5512	-.1952
.040		-.1710	.2878					
.050	-.0446			.4173	.4430	.4550	.4932	
.069								-.0505
.080				.3615				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (5) = 11.810 BETA (3) = 4.268

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2521					
.086		.0243						
.094	.0190							
.150				.3172	.3700	.3964	.4131	
.157								-.0874
.163		.2258						
.177			.2476					
.229	.0721							
.246		.1915						
.250				.2953	.3318	.3720	.3527	
.274			.2747					
.345								.0733
.390		.2360						
.400				.2977	.3445		.3123	
.402			.2699					
.503								.0585
.550				.2636	.2887			
.565			-.4355					
.600							.1740	
.637		.2498						
.650						.1983		
.670								-.0848
.700					.1458			
.725				.1400				
.750						.0756	.0470	
.760			.0937					
.775				.0637	.0717			
.798		.0970						
.808			.0661					
.834	.0868							
.839		.0198						
.850				-.0085	-.1425	-.0538		
.857			-.0108					
.862								-.2107
.865	.0214							
.879		-.0424						
.900	.0043			-.0873			-.1236	
.905			-.0970					
.919		-.0660						
.950				-.1588	-.1427	-.1613		
.953			-.1210					
.955		-.0901						
.965	-.0697							
1.000			-.2507		-.1482		-.4671	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (6) = 15.906 BETA (1) = -3.833 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2017	-.3153	.2931	.7625	.7754	.8004	.7947	
.020	.0000	-.0418	.4549	.7002	.7420	.7674	.7718	-.0186
.040		.0273	.5197					
.050	.1214			.6095	.6472	.6794	.7098	
.069								.1340
.080				.5462				
.081			.4628					
.086		.2283						
.094	.1767							
.150				.4962	.5572	.6046	.5813	
.157								-.0120
.163		.4472						
.177			.4291					
.229	.2250							
.246		.3610						
.250				.4605	.5186	.5603	.5069	
.274			.4386					
.345								.2311
.390		.4140						
.400				.4589	.5129		.4608	
.402			.4196					
.503								.2081
.550				.4083	.4177			
.565			-.4491					
.600							.2910	
.637		.3781						
.650						.3124		
.670								.0324
.700					.2469			
.725				.2459				
.750						.1842	.1500	
.760			.1942					
.775				.1224	.1472			
.798		.2002						
.808			.1524					
.834	.1926							
.839		.0936						
.850				.0488	-.0638	.0226		
.857			.0627					
.862								-.1078
.865	.1271							
.879		.0159						
.900	.0451			-.0386			-.0303	
.905			-.0336					
.919		-.0372						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (6) = 15.906 BETA (1) = -3.833

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1259	-.1138	-.1089		
.953			-.1024					
.955		-.0537						
.965	.0014							
1.000			-.2367		-.3653		-.5372	

ALPHA (6) = 15.920 BETA (2) = .184 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3050	-.3951	.0960	.6587	.6902	.6885	.6802	
.020	.0000	-.1535	.2954	.6359	.6807	.6999	.6904	-.1496
.040		-.0832	.4243					
.050	.0489			.5712	.6136	.6319	.6532	
.069								.0225
.080				.5154				
.081			.3866					
.086		.1377						
.094	.1068							
150				.4690	.5348	.5757	.5421	
.157								-.0623
.163		.3679						
177			.3940					
.229	.1737							
.246		.3206						
.250				.4386	.4924	.5341	.4796	
.274			.4153					
.345								.1621
.390		.3819						
.400				.4363	.4960		.4305	
.402			.4094					
.503								.1579
.550				.4102	.4064			
.565			-.4826					
.600							.2711	
.637		.3648						
.650						.2937		
.670								.0047
.700					.2523			
.725				.2505				
.750						.1712	.1281	
.760			.1986					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L18)

ALPHA (6) = 15.920 BETA (2) = .184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.1662	.1522			
.798		.2022						
.808			.1625					
.834	.1958							
.839		.1039						
.850				.0653	-.0767	.0134		
.857			.0599					
.862								-.1382
.865	.1211							
.879		.0145						
.900	.0753			-.0311			-.0515	
.905			-.0389					
.919		-.0114						
.950				-.1183	-.1101	-.0979		
.953			-.0754					
.956		-.0408						
.965	-.0090							
1.000			-.2998		-.3040		-.5555	

ALPHA (6) = 15.910 BETA (3) = 4.299 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3746	-.4676	-.0821	.5314	.5751	.5630	.5500	
.020	.0000	-.2395	.1409	.5468	.5977	.6163	.6015	-.2460
.040		-.1710	.3197					
.050	-.0233			.5040	.5601	.5804	.5932	
.069								-.0573
.080				.4648				
.086			.3185					
.086		.0635						
.091	.0562							
.150				.4293	.4967	.5367	.5113	
.157								-.0953
.163		.2962						
.177			.3399					
.229	.1285							
.246		.2694						
.250				.4104	.4713	.5058	.4669	
.274			.3866					
.345								.1162
.390		.3480						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL18)

ALPHA (6) = 15.910 BETA (3) = 4.299

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.4156	.4658		.4079	
.402			.3878					
.503								.1063
.550				.3861	.3932			
.565			-.4559					
.600							.2533	
.637		.3551						
.650						.2761		
.670								-.0178
.700					.2432			
.725				.2420				
.750						.1580	.1147	
.760			.1921					
.775				.1659	.1480			
.798		.1970						
.808			.1601					
.834	.1830							
.839		.1060						
.850				.0644	-.0927	-.0002		
.857			.0631					
.862								-.1493
.865	.1147							
.879		.0341						
.900	.0918			-.0324			-.0635	
.905			-.0240					
.919		.0053						
.950				-.1099	-.1091	-.0988		
.953			-.0498					
.955		-.0397						
.965	-.0134							
1.000			-.2664		-.2602		-.5214	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19) (05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.0680 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	.000	SPOBRK =	.000
BCFLAP =	-11.700	L-ELVN =	.000
R-ELVN =	.000	MACH =	1.250

ALPHA (1) = -4.048 BETA (1) = -3.848 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1509	-.2832	-.2076	-.4041	-.5062	-.3537	-.3255	
.020	.0000	-.2728	-.3117	-.5521	-.5451	-.5626	-.5576	-.6017
.040		-.2654	-.3463					
.050	-.1471			-.5756	-.5742	-.5961	-.5884	
.069								-.6537
.080				-.5377				
.081			-.2379					
.085		-.1447						
.094	-.1507							
.150				-.4959	-.5129	-.5275	-.5397	
.157								-.3948
.163		-.0545						
.177			-.2183					
.229	-.1320							
.246		-.1394						
.250				-.2430	-.4644	-.4786	-.4979	
.274			-.1974					
.345								-.5678
.390		-.1663						
.400				-.2033	-.2987		-.4428	
.402			-.1649					
.503								-.5658
.550				-.1444	-.1788			
.565			-.3601					
.600							-.4224	
.637		-.1091						
.650						-.2305		
.670								-.6056
.700					-.2218			
.725				-.1955				
.750						-.2467	-.4651	
.760			-.2149					
.775				-.2586	-.2685			
.798		-.1950						
.800			-.2915					
.834	-.2139							
.839		-.2902						
.850				-.3502	-.2552	-.3404		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (1) = -4.048 BETA (1) = -3.848

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.3207					
.862								-.5715
.865	-.2739							
.879		-.3340						
.900	-.2367			-.3911			-.4858	
.905			-.4020					
.919		-.3364						
.950				-.4102	-.4153	-.4097		
.953			-.4236					
.955		-.3400						
.965	-.3343							
1.000			-.0976		-.2204		-.2055	

ALPHA (1) = -3.974 BETA (2) = .192 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0988	-.1274	-.0865	-.3984	-.5276	-.3928	-.3745	
.020	.0000	-.1405	-.1484	-.5472	-.5652	-.5889	-.5888	-.6545
.040		-.1317	-.2023					
.050	-.1142			-.5223	-.5841	-.6193	-.6184	
.069								-.6809
.080				-.4937				
.081			-.1876					
.086		-.0702						
.094	-.1154							
.150				-.2876	-.5043	-.5406	-.5668	
.157								-.4120
.163		-.0007						
.177			-.1679					
.229	-.0961							
.246		-.0965						
.259				-.1854	-.3931	-.4862	-.5235	
.274			-.1420					
.315								-.5916
.390		-.1098						
.400				-.1403	-.1675		-.4617	
.402			-.1162					
.503								-.4573
.550				-.1185	-.1340			
.565			-.4163					
.600							-.3186	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (1) = -3.974 BETA (2) = .192

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0909						
.650						-.1780		
.670								-.6120
.700					-.1968			
.725				-.1840				
.750						-.2291	-.2575	
.760			-.2127					
.775				-.2590	-.2639			
.798		-.1928						
.808			-.2874					
.834	-.2022							
.839		-.2824						
.850				-.3399	-.2534	-.3242		
.857			-.3169					
.862								-.5158
.865	-.2635							
.879		-.3237						
.900	-.2417			-.4000			-.3567	
.905			-.3966					
.919		-.3346						
.950				-.4211	-.4005	-.3978		
.953			-.4179					
.955		-.3482						
.955	-.3711							
1.000			-.1368		-.2482		-.1380	

ALPHA (1) = -3.984 BETA (3) = 4.283 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0905	-.0466	.0176	-.3868	-.5350	-.4262	-.4125	
.020	.0000	-.0575	.0048	-.5246	-.5695	-.6063	-.6099	-.6840
.040		-.0461	-.0914					
.050	-.1008			-.4453	-.5837	-.6289	-.6368	
.069								-.6823
.080				-.3633				
.081			-.1068					
.086		-.0096						
.094	-.0914							
.150				-.2061	-.4643	-.5395	-.5667	
.157								-.4119
.163		.0558						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (1) = -3.984 BETA (3) = 4.283

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1078					
.229	-.0632							
.245		-.0421						
.250				-.1392	-.1825	-.4002	-.5280	
.274			-.0867					
.345								-.6220
.390		-.0580						
.400				-.1068	-.1345		-.3549	
.402			-.0855					
.503								-.5461
.550				-.0997	-.1114			
.565			-.3443					
.600							-.1594	
.637		-.0779						
.650						-.1644		
.670								-.2825
.700					-.1858			
.725				-.1791				
.750						-.2244	-.2331	
.760			-.2102					
.775				-.2598	-.2545			
.798		-.1825						
.808			-.2806					
.834	-.2059							
.839		-.2733						
.850				-.3371	-.2699	-.3262		
.857			-.3112					
.862								-.3157
.865	-.2582							
.879		-.3161						
.900	-.2457			-.3995			-.3458	
.905			-.3887					
.919		-.3301						
.950				-.4373	-.3864	-.3971		
.953			-.4041					
.965		-.3399						
.965	-.3851							
1.000			-.1497		-.2716		-.1609	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (2) = -.051 BETA (1) = -3.861 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0014	.0122	.1990	-.1824	-.2957	-.2193	-.1329	
.020	.0000	-.0251	.1684	-.3309	-.3552	-.3635	-.3945	-.3341
.040		-.0220	-.0142					
.050	-.0322			-.2456	-.3377	-.3820	-.4040	
.069								-.3588
.080				-.2182				
.081			-.0540					
.086		.0205						
.094	-.0579							
.150				-.1440	-.2325	-.2786	-.3203	
.157								-.2416
.163		.0896						
.177			-.0633					
.229	-.0609							
.246		-.0332						
.250				-.0887	-.1031	-.1995	-.2697	
.274			-.0638					
.345								-.2174
.390		-.0460						
.400				-.0685	-.0760		-.1389	
.402			-.0557					
.503								-.1546
.550				-.0392	-.0500			
.565			-.4220					
.600							-.1106	
.637		-.0258						
.650						-.1011		
.670								-.2578
.700					-.1312			
.715				-.1195				
.750						-.1572	-.1631	
.760			-.1421					
.775				-.1984	-.1906			
.788		-.1351						
.808			-.2162					
.834	-.1501							
.839		-.2328						
.850				-.2877	-.2577	-.2810		
.857			-.2603					
.862								-.3451
.865	-.2020							
.879		-.2814						
.900	-.1728			-.3464			-.3355	
.905			-.3458					
.919		-.2917						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (2) = -.051 BETA (1) = -3.861

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3779	-.2896	-.3801		
.953			-.3840					
.955		-.2824						
.955	-.2729							
1.000			-.0574		-.1920		-.2354	

ALPHA (2) = -.007 BETA (2) = .182 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0381	.0045	.2576	-.1603	-.3097	-.2522	-.1793	
.020	.0000	-.0045	.2239	-.1954	-.2917	-.3769	-.4190	-.3349
.040		.0057	.0478					
.060	-.0507			-.1785	-.2851	-.3621	-.4193	
.069								-.3220
.080				-.1531				
.081			-.0014					
.085		.0487						
.094	-.0646							
.150				-.1034	-.1564	-.2404	-.3220	
.157								-.2226
.163		.1166						
.177			-.0360					
.229	-.0451							
.246		-.0005						
.250				-.0506	-.0805	-.0823	-.1175	
.274			-.0234					
.345								-.1102
.390		-.0135						
.400				-.0226	-.0283		-.0828	
.402			-.0151					
.503								-.1392
.550				-.0172	-.0283			
.565			-.4544					
.600							-.0926	
.637		-.0028						
.650						-.0825		
.670								-.2470
.700					-.1186			
.725				-.1105				
.750						-.1515	-.1805	
.760			-.1414					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (2) = -.007 BETA (2) = .182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1917	-.1912			
.798		-.1357						
.808			-.2097					
.834	-.1437							
.839		-.2198						
.850				-.2812	-.2696	-.2777		
.857			-.2529					
.862								
.865	-.1992						-.3359	
.879		-.2756						
.900	-.1795			-.3483				
.905			-.3398			-.3325		
.919		-.2806						
.950				-.3881	-.3084	-.3766		
.953			-.3716					
.955		-.2846						
.965	-.2969							
1.000			-.0991		-.2105		-.1280	

ALPHA (2) = -.013 BETA (3) = 4.263 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1205	-.0626	.2793	-.0531	-.2651	-.2704	-.1992	
.020	.0000	-.0372	.2525	-.0601	-.1869	-.3472	-.4252	-.1939
.040		-.0170	.1083					
.050	-.0825			-.1082	-.2304	-.2787	-.3467	
.069								-.1868
.080				-.0785				
.081			.0435					
.086		.0454						
.094	-.0903							
.150				-.0622	-.0901	-.0993	-.1322	
.157								-.1519
.163		.1228						
.177			-.0035					
.229	-.0581							
.246		.0316						
.250				-.0190	-.0463	-.0610	-.0932	
.274			.0072					
.345								-.1027
.390		.0226						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (2) = -.013 BETA (3) = 4.263

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0029	.0081		-.0628	
.402			.0053					
.503								-.1188
.550				-.0061	-.0097			
.565			-.4275					
.600							-.0887	
.637		-.0016						
.650						-.0746		
.670								-.2537
.700					-.1103			
.725				-.1075				
.750						-.1562	-.1908	
.760			-.1444					
.775				-.1921	-.1849			
.798		-.1288						
.808			-.2094					
.834	-.1458							
.839		-.2168						
.850				-.2732	-.2399	-.2803		
.857			-.2528					
.862								-.3560
.865	-.2055							
.879		-.2692						
.900	-.1308			-.3415			-.3447	
.905			-.3373					
.919		-.2764						
.950				-.3840	-.3005	-.3724		
.953			-.3534					
.955		-.2837						
.985	-.3074							
1.000			-.1314		-.2410		-.1322	

ALPHA (3) = 3.859 BETA (1) = -3.873 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0393	-.0405	.4271	.2387	.1271	.1336	.1614	
.020	.0000	-.0011	.3884	.1256	.1114	.0534	-.0039	.0743
.040		.0211	.2134					
.060	.0412			.0470	-.0024	.0327	.0094	
.069								.0325
.080				.0484				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (3) = 3.859 BETA (1) = -3.873

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.021			.1283					
.086		.0961						
.094	.0160							
.150				.0355	.0516	.0740	.0795	
.157								-.0894
.163		.2016						
.177			.0766					
.229	-.0027							
.246		.0742						
.250				.0670	.0635	.0766	.0439	
.274			.0721					
.345								.0061
.391		.0714						
.400				.0708	.0923		.0479	
.402			.0617					
.503								-.0290
.550				.0705	.0797			
.565			-.4624					
.600							-.0067	
.637		.0671						
.650						.0040		
.670								-.1849
.700					-.0473			
.725				-.0392				
.750						-.0711	-.1057	
.760			-.0718					
.775				-.1490	-.1210			
.788		-.0674						
.808			-.1321					
.834	-.0796							
.839		-.1593						
.850				-.2152	-.2829	-.2318		
.857			-.1961					
.862								-.2872
.865	-.1255							
.879		-.2198						
.900	-.1454			-.2909			-.2791	
.905			-.2800					
.919		-.2495						
.950				-.3571	-.2758	-.3489		
.953			-.3312					
.955		-.2210						
.965	-.1970							
1.000			-.0424		-.1103		-.2924	

AMES 11-073(OA148) -140A/B C/R ORB LEFT WING BOT (EBL19)

ALPHA (3) = [illegible].906 BETA (2) = .178 MACH = 3.0484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION (1)LEFT WING BOT SURF DEPEN[illegible]BLE CP

2Y/BW	.2990	.3640	.4270	.5340	.67[illegible]	[illegible]	.8870	.9720
X/CW								
.010	-.0821	-.2227	.3664	.2959	[illegible]	[illegible]	.1945	
.020	.0000	-.1042	.3702	.1785	[illegible]		.0492	.0286
.040		-.0654	.2484					
.050	-.0179			.1113		[illegible]	.0629	
.069								.0075
.080				.0951				
.081			.1536					
.086		.0640						
.094	-.0221							
.150				.0639	[illegible]	.343	.0853	
.157								-.0998
.163		.1983						
.177			.0879					
.229	-.0207							
.246		.0910						
.250				.0884	.0836	.0863	.0452	
.274			.0988					
.345								-.0054
.350		.0917						
.400				.0960	.1148		.0742	
.402			.0972					
.503								-.0432
.550				.0877	.0965			
.565			-.5205					
.600							-.0129	
.637		.0905						
.650						.0080		
.700								-.2062
.700					-.0419			
.725				-.0281				
.750						-.0741	-.1090	
.750			-.0685					
.775				-.1320	-.1077			
.798		-.0642						
.800			-.1180					
.824	-.0725							
.839		-.1513						
.850				-.2083	-.2795	-.2307		
.857			-.1882					
.862								-.3174
.865	-.1333							
.879		-.2170						
.900	-.1501			-.2809			-.2849	
.905			-.2769					
.919		-.2351						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (3) = 3.906 BETA (2) = .178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3506	-.2748	-.3465		
.953			-.3212					
.955		-.2251						
.955	-.1956							
1.000			-.0924		-.1103		-.2502	

ALPHA (3) = 3.928 BETA (3) = 4.253 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2414	-.3653	.2755	.3332	.2008	.2235	.2354	
.020	.0000	-.2089	.3134	.2325	.1777	.1590	.1210	-.0428
.040		-.1649	.2555					
.050	-.0943			.1597	.0854	.1053	.1142	
.059								-.0307
.060				.1307				
.081			.1719					
.086		.0124						
.094	-.0729							
.150				.0973	.1165	.1075	.1027	
.157								-.1133
.163		.1728						
.177			.1095					
.229	-.0575							
.246		.1019						
.250				.1094	.0963	.1030	.0681	
.274			.1188					
.345								-.0448
.390		.1074						
.400				.1187	.1360		.0866	
.402			.1128					
.503								-.0843
.550				.0892	.0968			
.565			-.4609					
.600							-.0243	
.637		.0910						
.650						.0033		
.670								-.2409
.700					-.0460			
.725				-.0330				
.750						-.1052	-.1245	
.760			-.0723					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (3) = 3.928 BETA (3) = 4.253

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1299	-.1111			
.798		-.0678						
.808			-.1193					
.834	-.0743							
.839		-.1482						
.850				-.2056	-.2827	-.2398		
.857			-.1864					
.882								-.3617
.855	-.1410							
.879		-.2134						
.900	-.1389			-.2834			-.3123	
.905			-.2753					
.919		-.2200						
.950				-.3510	-.2782	-.3506		
.953			-.2940					
.955		-.2236						
.965	-.2037							
1.000			-.1482		-.1430		-.2245	

ALPHA (4) = 7.851 BETA (1) = -3.877 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0275	-.2311	.4014	.5432	.4809	.5641	.5722	
.020	.0000	-.0572	.4542	.4120	.4236	.4407	.4557	.0874
.040		-.0118	.3727					
.060	.0727			.3123	.3102	.3417	.3832	
.080								.1263
.080				.2552				
.081			.2765					
.086		.1309						
.094	.0707							
.150				.2142	.2712	.2980	.2890	
.157								-.0544
.163		.2927						
.177			.2090					
.229	.0603							
.246		.1790						
.250				.2231	.2317	.2719	.2339	
.274			.2055					
.345								.0835
.390		.1899						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (4) = 7.851 BETA (1) = -3.877

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2184	.2857		.2232	
.402			.1991					
.503								.0408
.550				.1956	.1868			
.565			-.5113					
.600							.0712	
.637		.1761						
.650						.0997		
.670								-.1306
.700					.0310			
.725				.0408				
.750						-.0190	-.0486	
.760			.0046					
.775				-.0783	-.0532			
.798		.0018						
.808			-.0492					
.834	.0042							
.839		-.0909						
.850				-.1487	-.2530	-.1819		
.857			-.1207					
.862								-.2586
.865	-.0507							
.879		-.1610						
.900	-.0999			-.2385			-.2273	
.905			-.2159					
.919		-.1962						
.950				-.3186	-.2670	-.3120		
.953			-.2787					
.955		-.1793						
.965	-.1167							
1.000			-.0823		-.2349		-.4634	

ALPHA (4) = 7.971 BETA (2) = .132 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2182	-.4616	.2178	.5450	.4958	.5488	.5561	
.020	.0000	-.2037	.3342	.4427	.4369	.4474	.4601	-.0432
.040		-.1433	.3238					
.050	-.0216			.3466	.3374	.3479	.3809	
.060								.0206
.080				.2872				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (4) = 7.971 BETA (2) = .182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2489					
.086		.0359						
.094	.0003							
.150				.2440	.2792	.3025	.2935	
.157								-.0836
.163		.2374						
.177			.2062					
.229	.0254							
.246		.1504						
.260				.2253	.2457	.2826	.2325	
.274			.2152					
.345								.0287
.390		.1988						
.400				.2312	.2861		.2113	
.402			.2081					
.503								-.0013
.550				.2040	.1991			
.585			-.5439					
.600							.0615	
.637		.1886						
.650						.0931		
.670								-.1715
.700					.0329			
.725				.0467				
.750						-.0385	-.0632	
.780			.0049					
.775				-.0583	-.0434			
.799		.0153						
.809			-.0400					
.814	.0062							
.839		-.0840						
.850				-.1403	-.2547	-.1838		
.857			-.1234					
.882								-.3086
.885	-.0644							
.879		-.1609						
.900	-.0873			-.2257			-.2460	
.905			-.2204					
.913		-.1809						
.950				-.3137	-.2661	-.3090		
.953			-.2631					
.955		-.1854						
.965	-.1397							
1.000			-.1483		-.1648		-.4374	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (4) = 7.972 BETA (3) = 4.253 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3950	-.5236	.0618	.5031	.4744	.5225	.5260	
.020	.0000	-.3075	.1990	.4235	.4290	.4437	.4580	-.1948
.040		-.2423	.2580					
.050	-.1059			.3408	.3373	.3505	.3891	-.0892
.069								
.080				.2850				
.081			.2054					
.086		-.0361						
.094	-.0587							
.150				.2472	.2806	.3128	.2956	-.1251
.157								
.163		.1845						
.177			.1976					
.229	-.0184							
.246		.1281						
.260				.2263	.2680	.2917	.2283	
.274			.2201					-.0211
.345								
.390		.1943						
.400				.2433	.2797		.2000	
.402			.2260					-.0473
.503								
.550				.1964	.1949			
.565			-.4986					
.600							.0472	
.637		.1860						
.650						.0783		-.2099
.670								
.700					.0320			
.725				.0450				
.750						-.0548	-.0876	
.760			.0033					
.775				-.0497	-.0431			
.798		.0089						
.808			-.0384					
.834	-.0026							
.839		-.0791						
.850				-.1328	-.2549	-.1916		
.857			-.1211					
.872								-.3453
.885	-.0750							
.879		-.1512						
.902	-.0797			-.2228			-.2646	
.905			-.2164					
.919		-.1703						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (4) = 7.972 BETA (3) = 4.253

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3012	-.2449	-.3031		
.953			-.2368					
.955		-.1893						
.965	-.1652							
1.000			-.1901		-.1611		-.4421	

ALPHA (5) = 11.905 BETA (1) = -3.844 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.J0	.8870	.9720
X/CW								
.010	-.1712	-.4009	.2991	.6949	.6925	.7434	.7316	
.020	.0090	-.1089	.4464	.6032	.6386	.6707	.6719	-.0332
.040		-.0353	.4654					
.050	.0763			.5005	.5380	.5718	.5892	
.069								.0780
.080				.4393				
.081			.4042					
.086		.1574						
.094	.1067							
.150				.3962	.4579	.4944	.4480	
.157								-.0451
.163		.3760						
.177			.3479					
.229	.1258							
.246		.2827						
.270				.3768	.4265	.4396	.3773	
.274			.3417					
.345								.1253
.390		.3220						
.400				.3765	.4004		.3296	
.402			.3618					
.503								.0951
.550				.3013	.3007			
.565			-.5364					
.600							.1603	
.637		.2888						
.650						.1823		
.670								-.0925
.700					.1126			
.725				.1210				
.750						.0453	.0092	
.760			.0683					

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (5) = 11.935 BETA (1) = -3.844

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.0013	.0150			
.789		.0754						
.808			.0214					
.834	.0700							
.839		-.0349						
.850				-.0800	-.1965	-.1139		
.857			-.0589					
.862								-.2360
.865	.0007							
.879		-.1181						
.900	-.0291			-.1813			-.1677	
.905			-.1678					
.919		-.1231						
.950				-.2649	-.2103	-.2542		
.953			-.2240					
.955		-.1359						
.965	-.0754							
1.000			-.1771		-.3010		-.5362	

ALPHA (5) = 11.915 BETA (2) = .187 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3479	-.4907	.1050	.6182	.6386	.6612	.6422	
.020	.0000	-.2203	.2912	.5655	.6130	.6370	.6222	-.1953
.040		-.1481	.3702					
.050	-.0133			.4821	.5276	.5531	.5587	
.069								-.0408
.080				.4268				
.081			.3430					
.085		.0690						
.094	.0126							
.150				.3861	.4624	.4816	.4354	
.157								-.0915
.163		.3032						
.177			.3280					
.229	.0851							
.246		.2348						
.250				.3803	.4178	.4294	.3628	
.274			.3385					
.345								.0613
.390		.3157						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL19)

ALPHA (5) = 11.915 BETA (2) = .187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3671	.3922		.3076	
.402			.3664					
.503								.0412
.550				.2983	.2903			
.565			-.5809					
.600							.1353	
.637		.2840						
.650						.1595		
.670								-.1259
.700					.1183			
.716				.1226				
.750						.0282	-.0107	
.760			.0704					
.775				.0251	.0207			
.790		.0794						
.800			.0264					
.834	.0691							
.850		-.0268						
.862				-.0686	-.2047	-.1289		
.867			-.0643					
.882								-.2722
.895	-.0099							
.879		-.1103						
.900	-.0283			-.1739			-.1830	
.906			-.1732					
.919		-.1210						
.950				-.2650	-.2126	-.2422		
.953			-.1943					
.956		-.1447						
.965	-.1009							
1.000			-.2355		-.2403		-.5624	

ALPHA (5) = 11.907 BETA (3) = 4.269 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4631	-.5424	-.0889	.5223	.5643	.5597	.5451	
.020	.0000	-.3290	.1228	.5079	.5585	.5830	.5600	-.3150
.040		-.2540	.2775					
.060	-.0903			.4586	.5093	.5251	.5205	
.069								-.1392
.080				.4114				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L19)

ALPHA (5) = 11.907 BETA (3) = 4.269

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B=	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C=								
.081			.2522					
.086		-.0155						
.094	-.0270							
.150				.3776	.4441	.4696	.4087	
.157								-.1362
.163		.2348						
.177			.3039					
.229	.0363							
.240		.1945						
.250				.3688	.4046	.4173	.3457	
.274			.3364					
.345								.0032
.390		.3155						
.400				.3522	.3772		.2875	
.402			.3492					
.503								-.0034
.550				.2943	.2800			
.565			-.5046					
.600							.1208	
.637		.2718						
.650						.1505		
.670								-.1511
.700					.1201			
.725				.1162				
.750						.0194	-.0222	
.760			.0616					
.775				.0280	.0214			
.798		.0719						
.808			.0222					
.834	.0590							
.840		-.0276						
.850				-.0704	-.2261	-.1401		
.857			-.0689					
.892								-.2932
.865	-.0203							
.879		-.0955						
.900	-.0282			-.1702			-.2060	
.905			-.1567					
.919		-.1212						
.950				-.2532	-.1919	-.2377		
.953			-.1812					
.955		-.1524						
.965	-.1345							
1.000			-.2436		-.1936		-.5492	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20) (05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.	YO	
BREF =	935.0580 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	.000	SPDBRK =	.000
BDFLAP =	-11.700	L-ELVN =	.000
R-ELVN =	.000	MACH =	1.100

ALPHA (I) = -4.047 BETA (I) = -3.843 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION (I)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1818	-.3424	-.2941	-.6107	-.7300	-.5582	-.5448	
.020	.0000	-.3180	-.3856	-.7677	-.7811	-.7938	-.8062	-.8307
.040		-.3045	-.4098					
.050	-.1800			-.7209	-.7998	-.8286	-.8317	
.069								-.9215
.080				-.6987				
.081			-.3046					
.095		-.1595						
.094	-.1662							
.110				-.4729	-.6913	-.7296	-.7577	
.157								-.5338
.163		-.0759						
.177			-.2486					
.229	-.1564							
.246		-.1453						
.260				-.2796	-.5876	-.6647	-.6945	
.274			-.2035					
.345								-.8669
.390		-.1585						
.400				-.1661	-.1724		-.6165	
.402			-.1299					
.503								-.8601
.550				-.1307	-.1551			
.565			-.4565					
.630							-.3514	
.637		-.1157						
.650						-.1675		
.670								-.7920
.700					-.2368			
.725				-.2479				
.750						-.2646	-.2701	
.760			-.2707					
.775				-.3503	-.3073			
.738		-.2420						
.808			-.3766					
.834	-.2586							
.840		-.3748						
.850				-.4294	-.3528	-.3835		

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (1) = -4.047 BETA (1) = -3.843

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.857			-.4236					
.862								-.5677
.865	-.3489							
.879		-.4295						
.900	-.3147			-.4874			-.3976	
.905			-.5096					
.919		-.4435						
.930				-.2656	-.4924	-.4524		
.953			-.2069					
.955		-.2008						
.965	-.4033							
1.000			-.0986		-.1309		-.1028	

ALPHA (1) = -3.971 BETA (2) = .189 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1302	-.1570	-.1245	-.6039	-.7541	-.5960	-.6009	
.020	.0000	-.1617	-.1319	-.7583	-.7971	-.8251	-.8422	-.8958
.040		-.1477	-.2514					
.050	-.1271			-.6725	-.8070	-.8559	-.8677	
.069								-.9100
.090				-.6269				
.091			-.1816					
.096		-.0528						
.098	-.1343							
.140				-.2825	-.6700	-.7498	-.7711	
.147								-.5319
.163		.0211						
.177			-.1809					
.220	-.1078							
.246		-.0776						
.250				-.1782	-.2202	-.5782	-.7185	
.274			-.1333					
.345								-.8672
.390		-.0895						
.400				-.1242	-.1149		-.3837	
.402			-.1056					
.503								-.7414
.550				-.1152	-.1417			
.555			-.5502					
.600							-.1503	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XESL2D)

ALPHA (1) = -3.971 BETA (2) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.1127						
.650								
.670						-.1723		
.700								-.4221
.735					-.2434			
.745				-.2404				
.760						-.2771	-.2504	
.775			-.2701					
.788				-.3441	-.3161			
.800		-.2345						
.809			-.3661					
.824	-.2463							
.834		-.3587						
.850				-.4340	-.3920	-.3955		
.862			-.4088					
.875								-.4918
.888	-.3820							
.900		-.4156						
.910	-.3094			-.5014			-.4216	
.920			-.5027					
.930		-.4332						
.940				-.4627	-.4676	-.4788		
.950			-.3840					
.960		-.4377						
.968	-.4618							
.980			-.1319		-.2062		-.1654	

ALPHA (1) = -3.999 BETA (2) = 4.285 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637	-.1038	-.0590	.0515	-.6687	-.7635	-.6257	-.6444	
.650	.0000	-.0557	.0218	-.6904	-.7972	-.8432	-.8652	-.8167
.670		-.0377	-.0966					
.700	-.0991			-.7301	-.7362	-.8276	-.8544	
.735								-.7534
.745				-.2856				
.760			-.0798					
.775		.0324						
.788	-.0983							
.800				-.2114	-.2946	-.6117	-.7881	
.809								-.4168
.824		.1043						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (1) = -3.998 BETA (3) = 4.285

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1020					
.229	-.0629							
.246		.0044						
.250				-.1315	-.1864	-.2573	-.4567	
.274			-.0671					
.345								-.5836
.350		-.0316						
.400				-.1039	-.1104		-.2237	
.402			-.0756					
.503								-.4812
.550				-.1251	-.1483			
.565			-.4113					
.600							-.2032	
.637		-.1091						
.650						-.1982		
.670								-.3617
.700					-.2657			
.725				-.2485				
.750						-.2958	-.3065	
.760			-.2828					
.775				-.3549	-.3415			
.798		-.2400						
.808			-.3716					
.834	-.2562							
.839		-.3623						
.850				-.4479	-.4303	-.4268		
.867			-.4082					
.882								-.4136
.886	-.3537							
.879		-.4121						
.900	-.3294			-.5210			-.4518	
.905			-.5051					
.919		-.4280						
.950				-.5539	-.4651	-.5221		
.953			-.4376					
.956		-.4505						
.965	-.4792							
1.000			-.1767		-.2700		-.1857	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (2) = -.036 BETA (1) = -3.867 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION (11)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720
X/CW								
.010	-.0459	-.0096	.2038	-.3373	-.4696	-.3928	-.3145	
.020	.0000	-.0375	.1248	-.4879	-.5460	-.5638	-.5931	-.4464
.040		-.0266	-.0699					
.050	-.0903			-.3225	-.4701	-.5590	-.5974	
.069								-.4350
.080				-.2666				
.081			-.0685					
.086		.0235						
.094	-.1060							
.150				-.1829	-.2308	-.3785	-.4705	
.157								-.2525
.163		.0864						
.177			-.0905					
.229	-.0779							
.245		-.0307						
.250				-.0731	-.1034	-.1051	-.0896	
.274			-.0522					
.295								-.0931
.300		-.0136						
.348				-.0036	.0068		-.0226	
.402			.0022					
.503								-.1523
.550				-.0149	-.0445			
.565			-.5174					
.600							-.1261	
.637		-.0056						
.650						-.0949		
.670								-.3187
.700					-.1548			
.725				-.1627				
.750						-.2269	-.2698	
.760			-.1940					
.775				-.2467	-.2470			
.798		-.1788						
.808			-.2931					
.834	-.1860							
.839		-.3024						
.850				-.3702	-.2734	-.3702		
.857			-.3434					
.862								-.4081
.865	-.2658							
.879		-.3618						
.900	-.2448			-.4290			-.4286	
.905			-.4637					
.919		-.3739						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (2) = -.036 BETA (1) = -3.867

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3362	-.4657	-.4671		
.953			-.1482					
.955		-.2450						
.955	-.3331							
1.000			-.0321		-.1600		-.0745	

ALPHA (2) = -.059 BETA (2) = .183 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1908

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0966	-.0098	.2837	-.2769	-.4615	-.4200	-.3349	
.020	.0000	-.0157	.2098	-.2604	-.4146	-.5501	-.5987	-.2236
.040		.0001	.0477					
.050	-.1027			-.2401	-.3622	-.4619	-.4805	
.059								-.2155
.080				-.1624				
.081			.0025					
.086		.0548						
.094	-.1069							
.150				-.1194	-.0951	-.0888	-.1236	
.157								-.1696
.163		.1502						
.177			-.0354					
.229	-.0641							
.246		.0183						
.250				-.0287	-.0661	-.0850	-.1234	
.274			.0015					
.345								-.1026
.350		.0212						
.400				.0006	.0103		-.0231	
.402			.0070					
.503								-.1594
.550				-.0107	-.0403			
.565			-.6084					
.600							-.1471	
.637		-.0160						
.650						-.1101		
.670								-.3130
.700					-.1617			
.725				-.1625				
.750						-.2432	-.2864	
.760			-.1952					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (2) = -.059 BETA (2) = .183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2623	-.2519			
.799		-.1674						
.808			-.2896					
.834	-.1840							
.839		-.2901						
.850				-.3650	-.2955	-.3925		
.857			-.3374					
.882								-.4010
.885	-.2613							
.879		-.3569						
.900	-.2436			-.4445			-.4430	
.905			-.4363					
.919		-.3628						
.950				-.4237	-.4564	-.4920		
.953			-.3433					
.965		-.3654						
.975	-.3892							
1.000			-.0534		-.1653		-.1170	

ALPHA (2) = -.052 BETA (3) = 4.261 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1979	-.0335	.3510	-.0842	-.3280	-.3706	-.3038	
.020	.0000	-.0092	.2835	-.1072	-.2473	-.3626	-.4642	-.1761
.040		.0166	.1631					
.050	-.1505			-.0974	-.2329	-.2812	-.3517	
.069								-.1825
.080				-.0711				
.081			.0902					
.086		.0937						
.094	-.1209							
.150				-.0282	-.0430	-.0826	-.1218	
.157								-.1771
.163		.1978						
.177			.0469					
.229	-.0545							
.246		.0845						
.250				.0082	-.0413	-.0651	-.1115	
.274			.0493					
.345								-.1410
.350		.0635						

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (2) = -.052 BETA (3) = 4.761

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0224	.0209		-.0498	
.402			.0361					-.1948
.503				-.0322	-.0516			
.550			-.4825				-.1775	
.565								
.600		-.0144				-.1419		
.637								-.3444
.650					-.1973			
.670				-.1811				
.700						-.2696	-.3095	
.725			-.1998					
.750				-.2862	-.2816			
.760		-.1756						
.775			-.2916					
.798	-.1830							
.808		-.2911		-.3845	-.3786	-.4167		
.834			-.3392					-.3986
.839								
.850	-.2725							
.857		-.3322		-.4608			-.4733	
.862	-.2579		-.4373					
.865								
.879		-.3669		-.5100	-.4176	-.5216		
.900			-.4577					
.905								
.919		-.3700						
.950	-.3738							
.973			-.1258		-.2206		-.1671	
1.000								

ALPHA (3) = 3.856 BETA (1) = -3.869 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0328	-.0616	.4586	.1944	.0819	.1883	.2300	
.020	.0000	-.0137	.4035	.0564	.0829	.0925	.0878	.0661
.040		.0227	.2323					
.050	-.0191			.0488	.0310	.0620	.0930	
.069								.0377
.080				.0383				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (3) = 3.856 BETA (1) = -3.869

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1244					
.086		.1172						
.094	-.0474							
.150				.0960	.1207	.1341	.0960	
.157								-.0906
.163		.2269						
.177			.0740					
.229	-.0445							
.246		.0360						
.250				.1392	.1363	.1287	.0661	
.274			.1407					
.[illegible]								-.0313
.[illegible]		.1464						
.[illegible]				.1546	.1655		.0827	
.[illegible]			.1734					
.[illegible]								-.0740
.560				.0864	.0626			
.565			-.5848					
600							-.0726	
.637		.0907						
.[illegible]						-.0331		
.670								-.2542
.700					-.1057			
.725				-.0874				
.750						-.1616	-.2035	
.750			-.1331					
.775				-.1906	-.2026			
.788		-.1106						
.808			-.2193					
.834	-.1285							
839		-.2366						
.850				-.3164	-.2970	-.3180		
.857			-.2813					
.862								-.3826
.865	-.2036							
.879		-.3121						
.900	-.2018			-.3942			-.3811	
.905			-.3871					
.919		-.3193						
950				-.4092	-.3550	-.4550		
.953			-.3085					
.[illegible]		-.2884						
.966	-.3093							
1.000			.0004		-.1213		-.2071	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (3) = 3.924 BETA (2) = .189 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/CW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1656	-.2035	.4385	.2791	.1815	.2488	.2961	
.020	.0000	-.0865	.4207	.1635	.1556	.1695	.1568	.0062
.040		-.0481	.2929					
.050	-.0910			.1249	.0926	.1302	.1431	
.069								.0031
.080				.1148				
.081			.1826					
.086		.0963						
.094	-.0807							
.150				.1287	.1485	.1692	.1160	
.157								-.1027
.163		.2547						
.177			.1429					
.229	-.0556							
.246		.1366						
.250				.1469	.1518	.1512	.0784	
.274			.1497					
.345								-.0627
.390		.1567						
.400				.1580	.1743		.0822	
.402			.1698					
.503								-.1108
.550				.0940	.0693			
.565			-.6543					
.600							-.0776	
.647		.0890						
.650						-.0400		
.670								-.2824
.700					-.0988			
.725				-.0806				
.750						-.1465	-.2140	
.760			-.1282					
.775				-.1891	-.1821			
.798		-.1042						
.808			-.2015					
.834	-.1159							
.839		-.2226						
.850				-.2951	-.2798	-.3350		
.857			-.2676					
.862								-.4322
.865	-.2065							
.879		-.2963						
.900	-.1970			-.3824			-.3970	
.905			-.3791					
.919		-.2997						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (3) = 3.924 BETA (2) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.4142	-.3481	-.4367		
.953			-.3838					
.955		-.3039						
.965	-.2935							
1.000			-.0129		-.1071		-.2363	

ALPHA (3) = 3.921 BETA (3) = 4.251 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.3523	-.3296	.3762	.3643	.2573	.3029	.3214	
.020	.0000	-.1757	.4046	.2615	.2271	.2154	.2007	-.1328
.040		-.1270	.3298					
.050	-.1682			.2102	.1596	.1488	.1596	
.069								-.0939
.080				.1846				
.081			.2385					
.086		.0655						
.094	-.1417							
.150				.1724	.1654	.1623	.1093	
.157								-.1437
.163		.2700						
.177			.1939					
.229	-.0852							
.246		.1671						
.250				.1639	.1440	.1469	.0581	
.274			.1818					
.345								-.1302
.390		.1855						
.400				.1466	.1540		.0526	
.402			.1735					
.503								-.1658
.550				.0826	.0543			
.565			-.5657					
.600							-.1058	
.637		.0821						
.650						-.0703		
.670								-.3330
.700					-.1143			
.725				-.0973				
.750						-.1840	-.2429	
.760			-.1374					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (3) = 3.921 BETA (3) = 4.251

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2093	-.2004			
.798		-.1109						
.808			-.2084					
.834	-.1235							
.839		-.2264						
.850				-.3044	-.3213	-.3559		
.857			-.2731					
.862								-.4814
.865	-.2159							
.879		-.2970						
.900	-.2155			-.4001			-.4269	
.905			-.3777					
.919		-.3123						
.950				-.4515	-.3507	-.4508		
.953			-.3983					
.955		-.3239						
.965	-.3084							
1.000			-.0964		-.1589		-.3078	

ALPHA (4) = 7.863 BETA (1) = -3.864 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1218	-.3841	.4609	.6050	.5635	.6233	.6033	
.020	.0000	-.1529	.5315	.4890	.5054	.5179	.4998	-.0247
.040		-.0932	.4654					
.050	.0066			.3927	.3994	.4089	.4079	
.069								.0394
.080				.3471				
.081			.3662					
.086		.1001						
.094	.0123							
.150				.3160	.3432	.3471	.2890	
.157								-.0855
.163		.3556						
.177			.3036					
.229	.0109							
.246		.2644						
.250				.3007	.2978	.2899	.2215	
.274			.2937					
.345								.0114
.330		.2900						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (4) = 7.863 BETA (1) = -3.864

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2674	.2716		.1826	
.402			.2880					
.503								-.0350
.550				.1745	.1601			
.565			-.6336					
.600							.0035	
.637		.1740						
.650						.0339		
.670								-.2041
.700					-.0464			
.725				-.0234				
.750						-.1114	-.1641	
.760			-.0747					
.775				-.1400	-.1565			
.798		-.0602						
.809			-.1432					
.834	-.0699							
.939		-.1845						
.850				-.2502	-.3608	-.2764		
.857			-.2143					
.862								-.3513
.965	-.1508							
.873		-.2648						
.900	-.1290			-.3601			-.3320	
.905			-.3384					
.919		-.2415						
.950				-.4363	-.3660	-.4355		
.963			-.3543					
.965		-.2560						
.965	-.2421							
1.000			-.0162		-.1757		-.4188	

ALPHA (4) = 7.865 BETA (2) = .180 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3372	-.6379	.3285	.5985	.5530	.5885	.5735	
.020	.0000	-.3177	.4525	.5041	.4949	.5027	.4854	-.1528
.040		-.2431	.4487					
.050	-.0871			.4116	.3964	.4085	.3942	
.059								-.0677
.080				.3633				

REPRODUCIBILITY OF THE
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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (4) = 7.865 BETA (2) = .180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3660					
.085		.0083						
.094	-.0583							
.150				.3239	.3406	.3391	.2749	
.157								-.1101
.163		.3414						
.177			.3150					
.229	-.0356							
.246		.2039						
.250				.2945	.2998	.2936	.2111	
.274			.2902					
.345								-.0532
.390		.2839						
.400				.2628	.2615		.1623	
.402			.2753					
.503								-.0717
.540				.1729	.1571			
.565			-.7110					
.600							-.0106	
.637		.1614						
.650						.0126		
.670								-.2522
.700					-.0343			
.725				-.0214				
.750						-.1154	-.1772	
.760			-.0774					
.775				-.1342	-.1471			
.799		-.0508						
.808			-.1458					
.834	-.0704							
.839		-.1774						
.850				-.2367	-.3594	-.2972		
.857			-.2161					
.862								- 3931
.865	-.1619							
.879		-.2493						
.900	-.1385			-.3545			-.3401	
.905			-.3313					
.918		-.2422						
.950				-.4277	-.3378	-.4172		
.953			-.3443					
.955		-.2613						
.965	-.2442							
1.000			-.0396		-.0742		-.4480	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (4) = 7.863 BETA (3) = 4.247 MACH = 1.1008 Q = 500.53 P = 787.91 RN/L = 3.1857

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5438	-.4276	.1918	.5770	.5319	.5451	.5076	
.020	.0000	-.3389	.3528	.5096	.4962	.4820	.4570	-.3382
.040		-.2745	.4187					
.050	-.1962			.4347	.4066	.3992	.3835	
.069								-.1988
.080				.3805				
.081			.3791					
.086		-.0208						
.094	-.1328							
.150				.3312	.3322	.3286	.2527	
.157								-.1635
.163		.3663						
.177			.3371					
.229	-.0696							
.246		.2059						
.250				.2982	2895	.2745	.1889	
.274			.3075					
.295								-.1215
.320		.2990						
.400				.2517	.2462		.1336	
.402			.2774					
.503								-.1378
.550				.1569	.1355			
.565			-.6144					
.600							-.0439	
.637		.1598						
.650						-.0122		
.670								-.3072
.700					-.0388			
.775				-.0317				
.793						-.1384	-.2029	
.760			-.0820					
.775				-.1477	-.1476			
.798		-.0646						
.808			-.1441					
.834	-.0746							
.839		-.1790						
.850				-.2433	-.3528	-.3153		
.857			-.2185					
.862								-.4558
865	-.1668							
.879		-.2466						
.900	-.1687			-.3536			-.3761	
.905			-.3216					
.919		-.2873						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (4) = 7.863 BETA (3) = 4.247

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4289	-.3228	-.4170		
.953			-.3456					
.955		-.2866						
.955	-.2627							
1.000			-.1026		-.1347		-.5192	

ALPHA (5) = 11.903 BETA (1) = -3.846 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2957	-.5764	.2292	.7415	.7377	.7242	.6843	
.020	.0000	-.2147	.4524	.6945	.6934	.6987	.6545	-.1914
.040		-.1335	.5477					
.060	.0150			.5932	.6069	.6086	.5748	
.080				.5346				-.0398
.081			.5081					
.086		.1773						
.094	.0548							
.150				.4733	.4983	.5011	.4254	
.157								-.0954
.163		.4531						
.177			4460					
.229	.0775							
.246		.3912						
.250				.4218	.4338	.4206	.3449	
.274			.4104					
.345								.0450
.390		.3923						
.400				.3612	.3670		.2663	
.402			.3772					
.503								.0147
.550				.2544	.2355			
.565			-.6823					
.600							.0798	
.637		.2450						
.650						.1162		
.670								-.1645
.700					.0524			
.725				.0518				
.750						-.0478	-.0971	
.760			-.0202					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XCBL20)

ALPHA (B) = 11.903 BETA (B) = -3.846

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B∞	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0572	-.0863			
.799		.0017						
.808			-.0783					
.834	-.0161							
.839		-.1332						
.850				-.1792	-.3162	-.2224		
.857			-.1492					
.882								-.3228
.885	-.1019							
.879		-.2232						
.900	-.1033			-.3135			-.2693	
.905			-.2899					
.919		-.2023						
.930				-.3802	-.2994	-.3658		
.933			-.3083					
.955		-.2332						
.965	-.1893							
1.000			-.1210		-.2813		-.5535	

ALPHA (B) = 11.911 BETA (B) = .188 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B∞	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.000	-.4976	-.5415	-.0081	.6595	.6709	.6287	.5899	
.020	.0888	-.3342	.2857	.6519	.6564	.6480	.5927	-.3423
.040		-.2498	.4561					
.050	-.0926			.5939	.5994	.5783	.5393	
.069								-.1525
.080				.5343				
.081			.4744					
.086		.0607						
.094	-.0244							
.150				.4746	.4912	.4861	.4006	
.157								-.1245
.163		.3883						
.177			.4422					
.229	.0354							
.246		.3618						
.250				.4220	.4233	.4065	.3214	
.274			.4108					
.349								-.0132
.350		.3988						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL20)

ALPHA (5) = 11.911 BETA (2) = .188

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3522	.3550		.2399	
.402			.3722					
.503								-.0348
.550				.2525	.2265			
.565			-.7246					
.600							.0561	
.637		.2451						
.650						.1056		
.670								-.2121
.700					.0458			
.725				.0528				
.750						-.0636	-.1093	
.760			.0139					
.775				-.0567	-.0833			
.798		.0009						
.808			-.0727					
.834	-.0138							
.839		-.1240						
.850				-.1726	-.3208	-.2577		
.857			-.1548					
.862								-.3751
.865	-.1079							
.879		-.1887						
.900	-.0845			-.3033			-.2965	
.905			-.2589					
.919		-.1883						
.950				-.3862	-.3008	-.3508		
.953			-.2831					
.955		-.2256						
.965	-.1943							
1.000			-.1465		-.2073		-.5970	

ALPHA (5) = 11.905 BETA (3) = 4.263 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6378	-.6654	-.1595	.5714	.5778	.5185	.4708	
.020	.0000	-.4553	.1327	.5977	.5939	.5716	.5114	-.4774
.040		-.3663	.3942					
.050	-.1968			.5575	.5550	.5256	.4855	
.069								-.2725
.080				.5049				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L20)

ALPHA (5) = 11.905 BETA (3) = 4.263

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.4505					
.086		-.0646						
.094	-.1023							
.150				.4467	.4581	.4497	.3552	
.157								-.1842
.163		.3347						
.177			.4344					
.189	-.0161							
.245		.3415						
.250				.4005	.3939	.3786	.2852	
.274			.4018					
.345								-.0867
.358		.3860						
.400				.3354	.3310		.2029	
.402			.3554					
.503								-.1051
.510				.2321	.2067			
.545			-.6826					
.607							.0236	
.647		.2353						
.650						.0788		
.670								-.2666
.700					.0337			
.701				.0352				
.750						-.0844	-.1375	
.780			-.0289					
.775				-.0779	-.0923			
.798		-.0124						
.808			-.0767					
.834	-.0215							
.849		-.1307						
.850				-.1851	-.3396	-.2805		
.857			-.1609					
.869								-.4320
.885	-.1151							
.918		-.1820						
.900	-.1101			-.3119			-.3360	
.905			-.2518					
.919		-.2070						
.950				-.3867	-.3104	-.3633		
.953			-.2839					
.955		-.2386						
.985	-.2195							
1.000			-.2656		-.2206		-.6442	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
3DFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (1) = -4.037 BETA (1) = -3.849 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1321	-.2977	-.4840	-1.0809	-1.2477	-1.0129	-1.0352	
.020	.0000	-.2493	-.5261	-1.2583	-1.3018	-1.3205	-1.3298	-1.3490
.040		-.2204	-.6479					
.050	-.1339			-1.1563	-1.2987	-1.3580	-1.3572	
.069								-1.3115
.080				-1.0708				
.081			-.4747					
.086		-.1133						
.094	-.1206							
.150				-.6213	-1.1353	-1.2110	-1.2380	
.157								-.6631
.163		-.1672						
.177			-.4705					
.229	-.0554							
.246		-.3131						
.250				-.4011	-.4659	-.9740	-1.1806	
.274			-.3725					
.345								-.7802
.350		-.3316						
.400				-.2688	-.2741		-.4108	
.402			-.2538					
.503								-.6844
.550				-.3175	-.3102			
.565			-.7612					
.600							-.2394	
.637		-.2899						
.650						-.2680		
.670								-.4417
.700					-.3325			
.725				-.3541				
.750						-.4320	-.3871	
.760			-.3002					
.775				-.5080	-.4277			
.798		-.3051						
.808			-.5698					
.834	-.2993							
.839		-.5284						
.850				-.5527	-.4154	-.3505		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (1) = -4.037 BETA (1) = -3.849

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.5518					
.862								-.3391
.865	-.4677							
.879		-.4873						
.900	-.4167			-.2412			-.2107	
.905			-.2065					
.919		-.1983						
.950				-.0936	-.2502	-.0491		
.953			-.0762					
.965		-.1011						
.986	-.1128							
1.000			-.0074		-.0558		.0143	

ALPHA (1) = -4.030 BETA (2) = .192 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0494	-.1271	-.3241	-1.0744	-1.2758	-1.0652	-1.1022	
.030	.0000	-.0999	-.3700	-1.2398	-1.3278	-1.3607	-1.3567	-.7974
.040		-.0785	-.4691					
.050	-.0653			-1.1146	-1.2720	-1.3345	-1.2616	
.069								-.7895
.080				-.7061				
.081			-.3902					
.095		-.0301						
.096	-.0604							
.150				-.5211	-.6812	-1.0589	-.9932	
.157								-.4286
.163		-.0906						
.177			-.4087					
.229	-.0168							
.246		-.2519						
.250				-.3676	-.4070	-.6004	-.8303	
.274			-.3253					
.295								-.4965
.330		-.2911						
.400				-.2706	-.2884		-.5747	
.402			-.2443					
.503								-.4688
.550				-.3224	-.3548			
.595			-.7171					
.600							-.3502	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (1) = -4.030 BETA (2) = .192

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.2932						
.650						-.3560		
.670								-.3699
.700					-.4393			
.725				-.4503				
.750						-.4573	-.3943	
.760			-.4251					
.775				-.5833	-.4608			
.798		-.3880						
.808			-.6420					
.834	-.3652							
.839		-.5869						
.850				-.5015	-.4339	-.4268		
.857			-.5422					
.862								-.2693
.865	-.5488							
.879		-.4859						
.900	-.4889			-.2149			-.1999	
.905			-.2232					
.919		-.2291						
.950				-.1009	-.2237	-.0535		
.953			-.1046					
.955		-.1300						
.965	-.1539							
1.000			-.0479		-.0337		-.0308	

ALPHA (1) = -4.042 BETA (3) = 4.289 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0018	-.0110	-.1644	-1.0317	-1.2772	-1.0987	-.9761	
.020	.0000	-.0006	-.2234	-1.0903	-1.3104	-1.1565	-.9627	-.6953
.040		.0137	-.3167					
.050	-.0169			-.7011	-1.2406	-1.1278	-.9185	
.069								-.6429
.080				-.5381				
.081			-.3117					
.086		.0275						
.094	-.0239							
.150				-.4305	-.5044	-.9049	-.8283	
.157								-.4019
.163		-.0355						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (1) = -4.042 BETA (3) = 4.289

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3198					
.229	.0116							
.246		-.2144						
.250				-.3447	-.3514	-.5544	-.7110	
.274			-.2884					
.315								-.5540
.340		-.2536						
.400				-.2573	-.2648		-.5382	
.402			-.2292					
.503								-.5020
.550				-.3102	-.3681			
.565			-.7681					
.600							-.4439	
.637		-.2962						
.650						-.4169		
.679								-.3436
.700					-.4939			
.725				-.4715				
.750						-.4991	-.3962	
.760			-.4721					
.775				-.6234	-.4637			
.788		-.4114						
.808			-.6653					
.834	-.4089							
.839		-.6174						
.850				-.3547	-.3226	-.3056		
.857			-.4133					
.862								-.1954
.865	-.5778							
.879		-.3794						
.900	-.4607			-.2196			-.1448	
.905			-.2056					
.913		-.2157						
.950				-.1059	-.1428	-.0256		
.953			-.1240					
.955		-.1584						
.965	-.1882							
1.000			-.0826		-.0507		.0306	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (2) = .024 BETA (1) = -3.875 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0250	.0816	.0927	-.6620	-.8262	-.7640	-.6267	
.020	.0000	.0608	-.0195	-.6178	-.7640	-.7579	-.9152	-.3239
.040		.0706	-.1771					
.050	-.0015			-.5296	-.6120	-.6898	-.7818	
.069								-.3526
.080				-.3591				
.081			-.2095					
.086		.0825						
.094	-.0158							
.150				-.2208	-.2313	-.2693	-.2941	
.157								-.2377
.163		.0104						
.177			-.1921					
.229	.0206							
.246		-.1474						
.250				-.1653	-.2113	-.2469	-.2851	
.274			-.1392					
.345								-.3196
.390		-.1198						
.400				-.1401	-.1505		-.2175	
.402			-.1004					
.503								-.3715
.550				-.2140	-.2275			
.565			-.8535					
.600							-.3826	
.637		-.2034						
.650						-.3542		
.670								-.3931
.700					-.4065			
.725				-.3696				
.750						-.4749	-.5530	
.760			-.3266					
.775				-.5027	-.4508			
.798		-.2832						
.809			-.5997					
.84	-.2898							
.839		-.5642						
.850				-.5612	-.4463	-.2893		
.857			-.6264					
.862								-.1819
.865	-.4845							
.879		-.5470						
.900	-.4545			-.2100			-.1485	
.905			-.2242					
.919		-.2051						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (2) = .024 BETA (.) = -3.875

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1021	-.2678	-.0777		
.953			-.0871					
.955		-.1014						
.965	-.1292							
1.000			-.0264		-.0785		.0250	

ALPHA (2) = .031 BETA (2) = .186 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.0[illegible]	.0[illegible]	.1056	.1803	-.4668	-.6635	-.6897	-.6221	
.0[illegible]	.0[illegible]	.1069	.0383	-.4767	-.5786	-.6216	-.7814	-.3439
.0[illegible]		.1234	-.0640					
.0[illegible]	.0146			-.3686	-.4595	-.5455	-.6490	
.0[illegible]								-.3606
.0[illegible]				-.2910				
.0[illegible]			-.1295					
.0[illegible]		.1307						
.0[illegible]	.0078							
.1[illegible]				-.1902	-.2069	-.2309	-.3301	
.157								-.2639
.165		.0738						
.1[illegible]			-.1412					
.2[illegible]	.0382							
.245		-.0924						
.2[illegible]				-.1457	-.1959	-.2342	-.2754	
.2[illegible]			-.1167					
.3[illegible]								-.3366
.3[illegible]		-.0914						
.3[illegible]				-.1365	-.1592		-.2297	
.4[illegible]			-.0960					
.4[illegible]								-.3961
.5[illegible]				-.2205	-.2362			
.5[illegible]			-.8527					
600							-.4006	
.63[illegible]		-.2030						
.650						-.3705		
.670								-.3973
.7[illegible]					-.4228			
.7[illegible]				-.3798				
.7[illegible]						-.4870	-.5962	
760			-.3418					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL21)

ALPHA (2) = .031 BETA (2) = .186

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.5239	-.4650			
.798		-.3017						
.808			-.5773					
.834	-.3125							
.839		-.5567						
.850				-.5452	-.4268	-.2485		
.857			-.6150					
.882							-.1342	
.885	-.4769							
.879		-.5848						
.900	-.4622			-.2195		-.1271		
.905			-.2171					
.919		-.2396						
.950				-.1195	-.2312	-.1111		
.953			-.0889					
.968		-.1268						
.965	-.1613							
.980			-.0384		-.0613	.0155		

ALPHA (2) = .021 BETA (3) = 4.265 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0105	.0844	.2284	-.2993	-.5110	-.5683	-.5506	
.020	.0000	.0991	.1675	-.3579	-.4204	-.4931	-.6278	-.3058
.040		.1195	.0201					
.050	.0081			-.2529	-.3655	-.4204	-.4851	
.059								-.3402
.080				-.2190				
.081			-.0669					
.086		.1427						
.094	.0154							
.120				-.1575	-.1779	-.2086	-.3172	
.157								-.2512
.163		.1031						
.177			-.0996					
.229	.0497							
.245		-.0625						
.250				-.1240	-.1760	-.2107	-.2716	
.274			-.0944					
.315								-.3674
.340		-.0761						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (2) = .021 BETA (3) = 4.265

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1332	-.1543		-.2305	
.402			-.0911					
.503								-.4268
.550				-.2242	-.2462			
.565			-.8538					
.600							-.4151	
.637		-.2028						
.650						-.3782		
.670								-.4706
.700					-.4248			
.725				-.3910				
.750						-.5233	-.6092	
.760			-.3905					
.775				-.5366	-.4779			
.795		-.3430						
.808			-.5768					
.834	-.3337							
.850		-.5384						
.865				-.5379	-.4484	-.2487		
.875			-.6111					
.900								-.0880
.906	-.4907							
.917		-.5496						
.940	-.4704			-.1977			-.1048	
.948			-.2283					
.919		-.2375						
.950				-.0978	-.1517	-.0735		
.963			-.1086					
.975		-.1203						
.978	-.2255							
1.000			-.0622		-.0477		.0040	

ALPHA (3) = 3.922 BETA (1) = -3.878 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0158	.1126	.3912	.0974	.0113	.1191	.1260	
.020	.0003	.1604	.3320	-.0276	-.0077	-.0247	-.0212	-.1123
.040		.1875	.1591					
.050	.0505			-.0441	-.0575	-.0598	-.0622	
.069								-.1721
.080				-.0425				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (3) = 3.922 BETA (1) -3.878

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Bw	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.081			.0556					
.085		.2257						
.094	.0496							
.150				-.0089	-.0207	-.0245	-.0884	
.157								-.1833
.163		.1896						
.177			.0143					
.229	.0366							
.246		.0318						
.250				-.0013	-.0334	-.0593	-.1125	
.274			.0107					
.345								-.2578
.390		.0230						
.400				-.0321	-.0338		-.1313	
.402			.0088					
.503								-.3243
.[illegible]				-.1367	-.1568			
.545			-.9153					
.600							-.3198	
.637		-.1251						
.650						-.2958		
.670								-.4660
.700					-.3643			
.725				-.3034				
.750						-.4685	-.5222	
.763			-.2604					
.775				-.4461	-.4251			
.788		-.2244						
.808			-.5253					
.834	-.2241							
.839		-.5169						
.850				-.6387	-.4710	-.6331		
.857			-.5959					
.882								-.4311
.886	-.4366							
.[illegible]		-.5439						
.[illegible]	-.4150			-.2901			-.6628	
.[illegible]			-.2994					
.913		-.2701						
.950				-.1006	-.2578	-.1412		
.953			-.0844					
.[illegible]		-.1070						
.965	-.1669							
1.000			-.0107		-.0370		-.0691	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (3) = 3.975 BETA (2) = .188 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0853	-.0091	.3628	.1819	.0838	.1453	.1518	
.022	.0003	.0879	.3467	.0632	.0486	.0395	.0119	-.2108
.040		.1282	.2063					
.060	.0189			.0300	-.0165	-.0255	-.0480	
.069								-.2379
.080				.0111				
.091			.0991					
.096		.2038						
.094	.0372							
.150				.0161	-.0014	-.0181	-.0931	
.157								-.2091
.163		.2059						
.172			.0401					
.189	.0893							
.245		.0518						
.250				.0055	-.0292	-.0540	-.1289	
.274			.0239					
.345								-.3158
.390		.0293						
.400				-.0319	-.0451		-.1498	
.402			.0084					
.503								-.3717
.550				-.1360	-.1620			
.565			-.9309					
.600							-.3330	
.637		-.1269						
.650						-.3107		
.670								-.5251
.700					-.3455			
.725				-.3093				
.750						-.4856	-.5340	
.760			-.2875					
.775				-.4570	-.4363			
.798		-.2356						
.808			-.5189					
.834	-.2375							
.839		-.4958						
.850				-.6239	-.4816	-.6438		
.855			-.5849					
.862								-.3802
.865	-.4192							
.879		-.5249						
.900	-.4034			-.2689			-.6310	
.905			-.3446					
.919		-.3755						

DATE 10 FEB 76 TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL21)

ALPHA (3) = 3.975 BETA (2) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
.950				-.1079	-.2105	-.1185		
.953			-.1134					
.955		-.1514						
.965	-.2615							
1.000			-.0347		-.0380		-.0715	

ALPHA (3) = 3.972 BETA (3) = 4.250 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
.010	-.2131	-.1625	.2911	.2319	.1346	.1867	.1717	
.020	.0000	-.0154	.3137	.1198	.0871	.0716	.0454	-.3581
.040		.0385	.2243					
.060	-.0393			.0691	.0158	.0095	-.0224	
.069								-.3265
.080				.0365				
.087			.1197					
.096		.1673						
.099	-.0040							
.100				.0236	.0010	-.0129	-.1025	
.107								-.2677
.113		.2070						
.117			.0548					
.129	.0515							
.146		.0521						
.150				.0006	-.0255	-.0556	-.1370	
.154			.0258					
.165								-.3657
.190		.0316						
.200				-.0409	-.0524		-.1710	
.210			-.0016					
.213								-.3975
.250				-.1468	-.1744			
.254			-.9402					
.300							-.3645	
.337		-.1352						
.350						-.3398		
.370								-.5204
.400					-.3549			
.420				- 3217				
.450						-.4853	-.5395	
.460			-.3154					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL2:)

ALPHA (3) = 3.972 BETA (3) = 4.260

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4693	-.4388			
.798		-.2773						
.808			-.5082					
.834	-.2700							
.839		-.4348						
860				-.6196	-.4665	-.6562		
867			-.5505					
888							-.2517	
.895	-.4375							
899		-.5316						
900	-.4333			-.2681			-.3626	
.905			-.3779					
.913		-.4220						
93				-.0951	-.1716	-.1027		
941			-.1145					
.939		-.1681						
.951	-.3.87							
.955			- 0529		-.0407		-.0637	

ALPHA ( ) = 7.906 BETA ( ) = -3.870 MACH = .89943 Q = 599.41 P = 1058.5 PN/L = 3.5654

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	3540	4270	.5340	.6730	.7800	.8870	.9720
X/CW								
[illegible]	- 1741	-.1820	.4077	.4846	.4411	.4940	.4619	
[illegible]	.0000	.0441	.4590	.3672	.3760	.3738	3461	-.2834
[illegible]		1140	.3732					
[illegible]	0366			.2639	.2543	.2580	.2351	
[illegible]								-.2118
[illegible]				.2093				
[illegible]			.2570					
[illegible]		2767						
[illegible]	.0735							
[illegible]				.1753	.1781	.1692	.0892	
[illegible]								-.1925
[illegible]		.3209						
[illegible]			.1781					
[illegible]	1495							
[illegible]		.1765						
[illegible]				.1379	.1205	.0959	.0226	
[illegible]			.1452					
345								-.2339
.390		.1383						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (4) = 7.906 BETA (1) = -3.870

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0758	.0664		-.0455	
.402			.1119					
.503								-.2828
.550				-.0473	-.0715			
.585			-.6355					
.600							- 2487	
.637		-.0458						
.650						-.2095		
.670								-.4059
.700					-.2578			
.725				-.2211				
.750						-.3927	-.4590	
.760			-.2298					
.775				-.3812	-.3979			
.788		-.1842						
.808			-.4427					
.834	-.1973							
.839		-.4663						
.850				-.5889	-.5461	-.5726		
.857			-.5465					
.862								-.4427
.865	-.3963							
.879		-.5109						
.900	-.3725			-.6266			-.5756	
.905			-.6062					
.919		-.5331						
.950				-.1552	-.3903	-.6835		
.953			-.1351					
.955		-.1821						
.965	-.2954							
1.000			-.0413		-.1828		-.3574	

ALPHA (4) = 8.017 BETA (2) = .186 MACH = .89942 Q = 599.41 P = 1058.5 RN/L = 3.5684

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3659	-.3799	.2684	.4862	.4274	.4571	.4091	
.020	.0000	-.0033	.3816	.3833	.3690	.3566	.3193	-.4534
.040		-.0098	.3626					
.050	-.0377			.2815	.2591	.2513	.2158	
.069								-.3217
.080				.2253				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (4) = 8.017 BETA (2) = .186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2691					
.086		.2158						
.094	.0255							
.150				.1783	.1696	.1606	.0670	
.157								-.2158
.163		.3081						
177			.1898					
.229	.1262							
.246		.1778						
.250				.1372	.1176	.0861	-.0031	
.274			.1473					
.345								-.2420
.350		.1420						
.400				.0676	.0567		-.0686	
.402			.1039					
.503								-.2836
.550				-.0530	-.0836			
.560			-.6575					
.600							-.2609	
.637		-.0468						
.650						-.2181		
.670								-.4517
.700					-.2623			
.725				-.2344				
.750						-.3940	-.4579	
.760			-.2495					
.775				-.3803	-.4026			
.798		-.2026						
.809			-.4287					
.634	-.1995							
.839		-.4469						
.850				-.5799	-.5448	-.5670		
.857			-.5113					
.862								-.4955
.865	-.3824							
.879		-.4810						
.900	-.3720			-.6582			-.6196	
.905			-.6162					
.919		-.5320						
.950				-.1693	-.3781	-.6935		
.953			-.1814					
.955		-.2417						
.965	-.4284							
1.000			-.0634		-.1482		-.4190	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (4) = 8.014 BETA (3) = 4.257 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3040	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5321	-.3424	.0961	.4423	.3911	.3978	.3435	
.020	.0000	-.1730	.2546	.3711	.3476	.3357	.2915	-.5564
.040		-.0974	.3089					
.050	-.1212			.2831	.2484	.2333	.2039	
.069								-.4205
.080				.2226				
.081			.2482					
.086		.1415						
.094	-.0374							
.150				.1680	.1678	.1454	.0501	
.157								-.2596
.163		.2746						
.177			.1844					
.229	.0834							
.236		.1588						
.250				.1232	.0997	.0797	-.0259	
.274			.1393					
.345								-.2856
.390		.1358						
.400				.0588	.0394		-.0934	
.402			.0932					
.503								-.3318
.550				-.0625	-.0932			
.565			-.6821					
.600							-.2817	
.637		-.0511						
.650						-.2322		
.670								-.4904
.700					-.2746			
.725				-.2565				
.750						-.4006	-.4668	
.760			-.2665					
.775				-.3944	-.4111			
.798		-.2192						
.808			-.4315					
.834	-.2241							
.839		-.4352						
.850				-.5758	-.5430	-.5842		
.857			-.4917					
.862								-.5812
.865	-.3823							
.879		-.4893						
.900	-.3920			-.6621			-.6617	
.905			-.6042					
.919		-.5388						

AMES 11-073(GA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (4) = 8.014 BETA (3) = 4.257

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2051	-.3930	-.6906		
.953			-.2478					
.955		-.3704						
.965	-.5074							
1.000			-.0700		-.1522		-.4492	

ALPHA (5) = 11.899 BETA (1) = -3.861 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4752	-.5590	.2129	.6225	.5979	.5799	.5248	
.030	.0000	-.1403	.4159	.5651	.5599	.5455	.4950	-.3852
.040		-.0339	.4789					
.050	-.0215			.4060	.4508	.4428	.4093	
.069								-.2301
.080				.3961				
.094			.4011					
.096		.2720						
.099	.0760							
.150				.3261	.3276	.3183	.2345	
.157								-.1847
.163		.4104						
.177			.3160					
.239	.2018							
.246		.2950						
.260				.2601	.2506	.2287	.1463	
.274			.2627					
.345								-.1428
.380		.2471						
.400				.1751	.1669		.0544	
.422			.2044					
.503								-.2191
.550				.0422	.0167			
.565			-.5997					
.600							-.1753	
.637		.0419						
.650						-.1483		
.670								-.3921
.700					-.2187			
.725				-.1907				
.750						-.3172	-.3587	
.760			-.2524					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (5) = 11.899 BETA (1) = -3.861

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3290	-.3630			
.799		-.2085						
.808			-.3652					
.834	-.2126							
.839		-.4186						
.850				-.5057	-.5990	-.5311		
.857			-.4503					
.862							-.5168	
.865	-.3732							
.879		-.4488						
.900	-.3389			-.6239		-.5663		
.905			-.5546					
.919		-.4748						
.950				-.6646	-.5869	-.6404		
.953			-.5696					
.955		-.4833						
.965	-.4962							
1.000			-.1090		-.3332		-.5174	

ALPHA (5) = 11.956 BETA (2) = .190 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6764	-.4104	-.0093	.5399	.5195	.4723	.4153	
.070	.0000	-.2134	.2555	.5206	.5050	.4882	.4237	-.5322
.080		-.1162	.4014					
.050	-.1205			.4424	.4320	.4049	.3625	
.069								-.3740
.090				.3799				
.081			.3694					
.096		.1845						
.094	-.0013							
.150				.3077	.3155	.2946	.1981	
.157								-.2414
.163		.3637						
.177			.3022					
.229	.1521							
.246		.2687						
.250				.2458	.2296	.2037	.1087	
.274			.2514					
.345								-.2223
.390		.2405						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (5) = 11.956 BETA (2) = .190

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1626	.1474		.0145	
.402			.1947					
.503								-.2828
.550				.0324	-.0009			
.555			-.6191					
.600							-.2146	
.637		.0345						
.650						-.1685		
.670								-.4357
.700					-.2265			
.725				-.1981				
.750						-.3405	-.3785	
.760			-.2556					
.775				-.3362	-.3720			
.799		-.2057						
.806			-.3766					
.824	-.2206							
.839		-.4131						
.850				-.5197	-.6216	-.5305		
.857			-.4314					
.863								-.5843
.875	-.3691							
.879		-.4505						
.900	-.3553			-.6325			-.6022	
.905			-.5616					
.919		-.4989						
.950				-.6613	-.6045	-.6833		
.952			-.5877					
.955		-.5117						
.965	-.4841							
1.000			-.1424		-.3211		-.5614	

ALPHA (5) = 11.949 BETA (3) = 4.274 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8041	-.3929	-.2219	.4389	.4260	.3481	.2985	
.020	.0000	-.3119	.0985	.4548	.4412	.4155	.3358	-.6748
.040		-.2237	.3157					
.050	-.2083			.4056	.3938	.3644	.3069	
.069								-.4879
.080				.3495				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L21)

ALPHA (5) = 11.948 BETA (3) = 4.274

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.091			.3260					
.086		.0967						
.094	-.0724							
.150				.2839	.2877	.2712	.1646	
.157								-.2918
.163		.3032						
.177			.2801					
.229	.1018							
.246		.2295						
.250				.2173	.2110	.1850	.0851	
.274			.2287					
.345								-.3034
.390		.2169						
.400				.1350	.1300		-.0133	
.402			.1703					
.503								-.3348
.550				.0211	-.0141			
.565			-.5972					
.600							-.2398	
.637		.0201						
.650						-.1837		
.670								-.4742
.700					-.2342			
.725				-.2003				
.740						-.3456	-.3999	
.760			-.2645					
.775				-.3464	-.3800			
.798		-.2056						
.808			-.3819					
.834	-.2291							
.849		-.3949						
.850				-.5144	-.6358	-.5337		
.857			-.4316					
.862								-.6362
.865	-.3713							
.879		-.4591						
.900	-.3867			-.6288			-.6367	
.905			-.5597					
.919		-.5042						
.950				-.6652	-.5814	-.6894		
.953			-.6232					
.955		-.5130						
.965	-.4743							
1.000			-.1627		-.2689		-.5830	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000
BDFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (I) = -4.045 BETA (I) = -7.856 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (I)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.3104	-.6823	-1.1249	-2.1386	-1.9447	-1.6915	-1.6302	
.020	.0000	-.5906	-1.1831	-1.9703	-1.8439	-1.3836	-1.5190	-1.0421
.040		-.5459	-1.0146					
.060	-.2547			-.9624	-1.0952	-1.1771	-1.1470	
.078								-.9171
.080				-.7278				
.081			-.6418					
.098		-.3577						
.0[illegible]	-.2307							
.[illegible]				-.4704	-.5098	-.6041	-.5707	
.157								-.3260
.158		-.3913						
.1[illegible]			-.4031					
.220	-.1885							
.240		-.3896						
.260				-.3280	-.3700	-.4001	-.4020	
.274			-.2900					
.345								-.4022
.350		-.2645						
.400				-.2377	-.2462		-.2864	
.[illegible]			-.2086					
.[illegible]								-.3779
.[illegible]				-.2478	-.2507			
.565			-.2208					
.600							-.2891	
.637		-.2482						
.650						-.2585		
.670								-.3775
.700					-.2653			
.725				-.2452				
.750						-.3422	-.3357	
.760			-.2643					
.775				-.3926	-.2814			
.790		-.2343						
.[illegible]			-.3991					
.[illegible]	-.2152							
.[illegible]		-.3408						
.[illegible]				-.2828	-.2886	-.2325		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL22)

ALPHA (1) = -4.045 BETA (1) = -7.856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2797					
.862								-.2597
.865	-.3362							
.879		-.2737						
.900	-.2394			-.2076			-.1654	
.905			-.2143					
.919		-.2063						
.950				-.0954	-.1951	-.0647		
.953			-.1052					
.955		-.1231						
.965	-.1140							
1.000			.0037		-.0696		.0161	

ALPHA (1) = -3.970 BETA (2) = -3.843 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1948	-.4314	-.8164	-2.0390	-2.1079	-1.8482	-1.7595	
.020	.0000	-.3888	-.8891	-1.7973	-1.9560	-1.4876	-1.6529	-.9078
.040		-.3592	-.7755					
.050	-.1708			-.8904	-.9593	-1.1029	-1.1148	
.069								-.7969
.080				-.6701				
.081			-.5349					
.085		-.2402						
.094	-.1558							
.150				-.4182	-.4619	-.5146	-.5203	
.157								-.2962
.163		-.2944						
.177			-.3548					
.229	-.1290							
.246		-.3268						
.250				-.3017	-.3401	-.3683	-.3676	
.274			-.2671					
.345								-.3569
.390		-.2364						
.400				-.2294	-.2383		-.2625	
.402			-.1919					
.503								-.2289
.550				-.2453	-.2478			
.555			-.1781					
.600							-.2791	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (1) = -3.970 BETA (2) = -3.843

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.637		-.2399						
.650						-.2546		
.670								-.3437
.700					-.2624			
.725				-.2465				
.750						-.3441	-.3235	
.760			-.2659					
.775				-.4012	-.2841			
.798		-.2296						
.808			-.4019					
.834	-.2166							
.839		-.3440						
.850				-.2868	-.2603	-.2385		
.857			-.2839					
.872								-.2488
.885	-.3441							
.879		-.2795						
900	-.2507			-.2057			-.1637	
905			-.2176					
.919		-.2093						
950				-.0836	-.1850	-.0607		
.953			-.1017					
.965		-.1303						
985	-.1449							
1.000			.0134		-.0409		.0241	

ALPHA (1) = -3.957 BETA (3) = .183 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1013	-.2785	-.5539	-1.8028	-1.9502	-2.1884	-1.9787	
.023	0000	-.2058	-.6097	-1.3746	-1.5662	-1.6282	-1.8309	-.7954
.042		-.1656	-.5885					
.058	-.0977			-.7843	-.8676	-.9567	-1.0250	
.079								-.6258
.080				-.5925				
.081			-.4450					
.086		-.1330						
.094	-.1007							
150				-.3759	-.4235	-.4575	-.4527	
157								-.2699
.163		-.2001						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (1) = -3.957 BETA (3) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3132					
.229	-.0764							
.246		-.2807						
.250				-.2766	-.3203	-.3381	-.3345	
.274			-.2453					
.345								-.3124
.390		-.2122						
.400				-.2156	-.2254		-.2447	
.402			-.1874					
.503								-.3018
.550				-.2358	-.2375			
.555			-.1700					
.603							-.2577	
.637		-.2297						
.650						-.2436		
.677								-.3162
.700						-.2550		
.725				-.2460				
.750						-.3286	-.3112	
.760			-.2615					
.775				-.4185	-.2801			
.798		-.2326						
.808			-.3931					
.834	-.2164							
.839		-.3505						
.850				-.2802	-.2443	-.2270		
.857			-.2891					
.862								-.2530
.865	-.3440							
.879		-.2824						
.900	-.2627			-.1997			-.1455	
.905			-.2248					
.919		-.2239						
.950				-.0825	-.1606	-.0483		
.953			-.1078					
.955		-.1418						
.965	-.1827							
1.000			.0126		-.0127		.0407	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (1) = -3.965 BETA (4) = 4.271 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0466	-.0955	-.3527	-1.4480	-1.6121	-2.0075	-1.8532	
.020	.0000	-.0874	-.4115	-1.1439	-1.2607	-1.3587	-1.6741	-.6254
.040		-.0706	-.4318					
.050	-.0549			-.6521	-.7425	-.8252	-.8557	
.069								-.4734
.080				-.5018				
.081			-.3489					
.086		-.0535						
.094	-.0510							
.150				-.3333	-.3676	-.3962	-.4033	
.157								-.2401
.163		-.1267						
.177			-.2680					
.229	-.0455							
.246		-.2239						
.250				-.2486	-.2648	-.3070	-.2972	
.274			-.2152					
.345								-.2572
.390		-.1885						
.400				-.1944	-.2077		-.2213	
.402			-.1808					
.503								-.2575
.550				-.2191	-.2280			
.565			-.1954					
.600							-.2456	
.637		-.2186						
.650						-.2418		
.670								-.2614
.700						-.2564		
.725					-.2392			
.750						-.3189	-.2972	
.760			-.2644					
.775					-.4101	-.2782		
.798		-.2298						
.808			-.3699					
.824	-.2212							
.839		-.3303						
.850					-.2729	-.2332	-.2262	
.857			-.2797					
.882								-.1873
.895	-.3362							
.879		-.2785						
.900	-.2654				-.1975		-.1355	
.905			-.2161					
.919		-.2231						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (1) = -3.965 BETA (4) = 4.271

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0755	-.1424	-.0455		
.953			-.1092					
.955		-.1472						
.965	-.2062							
1.000			.0124		.0055		.0516	

ALPHA (1) = -4.005 BETA (5) = 8.350 MACH = .59680 Q = 534.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0193	.0080	-.1364	-1.0553	-1.2700	-1.6800	-1.5952	
.020	.0000	.0066	-.1924	-.8748	-.9665	-1.1385	-1.4245	-.5037
.040		.0161	-.2609					
.050	-.0296			-.5187	-.6264	-.7254	-.7570	
.069								-.3716
.080				-.4192				
.081			-.2609					
.086		.0137						
.094	-.0339							
.150				-.2825	-.3241	-.3521	-.3730	
.157								-.2178
.163		-.0554						
.177			-.2213					
.229	-.0211							
.246		-.1740						
.250				-.2189	-.2580	-.2757	-.2720	
.274			-.1852					
.345								-.2049
.390		-.1594						
.400				-.1862	-.1924		-.2025	
.402			-.1626					
.503								-.2094
.550				-.2118	-.2139			
.565			-.2323					
.600							-.2261	
.637		-.2047						
.650						-.2275		
.670								-.2141
.700					-.2452			
.725				-.2389				
.750						-.2942	-.2732	
.760			-.2538					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL22)

ALPHA (1) = -4.005 BETA (5) = 8.350

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.4081	-.2589			
.798		-.2307						
.808			-.3564					
.834	-.2256							
.839		-.3373						
.850				-.2610	-.2149	-.2215		
.957			-.2748					
.962								-.1289
.885	-.3355							
.879		-.2793						
.900	-.2661			-.1819			-.1130	
.905			-.2091					
.919		-.2284						
.950				-.0642	-.1092	-.0401		
.953			-.0[illegible]					
.[illegible]		-.1516						
.[illegible]5	-.2271							
1.000			.0173		.0289		.0666	

ALPHA (2) = -.025 BETA (1) = -7.896 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.0568

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0103	-.0374	-.1703	-.5612	-.9844	-.9694	-.7938	
.020	.0000	-.0870	-.2931	-.8526	-.7729	-.8234	-.0578	-.2538
.040		-.0684	-.3604					
.050	-.0488			-.5315	-.5171	-.5484	-.5366	
.069								-.2169
.080				-.4083				
.081			-.3036					
.095		-.0417						
.094	-.0833							
.150				-.2499	-.2510	-.2466	-.2595	
.157								-.1675
.163		-.1283						
.177			-.2122					
.229	-.0519							
.246		-.1972						
.250				-.1683	-.1941	-.2095	-.2039	
.274			-.1557					
.345								-.1935
.390		-.1373						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = -.025 BETA (1) = -7.896

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720
X/CW								
.400				-.1388	-.1431		-.1662	
.402			-.1144					
.503								-.2205
.550				-.1872	-.1917			
.565			-.2583					
.600							-.2281	
.637		-.1893						
.650						-.2133		
.670								-.2574
.700					-.2245			
.725				-.2088				
.750						-.3205	-.2860	
.760			-.2318					
.775				-.3636	-.2583			
.798		-.2100						
.808			-.3761					
.834	-.1939							
.839		-.3270						
.850				-.2737	-.2546	-.2335		
.857			-.2628					
.862								-.1672
.865	-.3290							
.879		-.2560						
.900	-.2084			-.1896			-.1464	
.905			-.1994					
.919		-.1906						
.950				-.0714	-.1474	-.0463		
.953			-.0808					
.955		-.1075						
.965	-.0968							
1.000			.0342		-.0441		.0531	

ALPHA (2) = -.014 BETA (2) = -3.863 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0140	.0334	-.0349	-.7607	-.8360	-.7779	-.6862	
.020	.0000	.0021	-.1336	-.6955	-.6366	-.6783	-.7303	-.2158
.040		.0132	-.2591					
.050	-.0205			-.4277	-.4433	-.4726	-.4813	
.069								-.1856
.080				-.3446				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = -.014 BETA (2) = -3.863

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2317					
.096		.0113						
.094	-.0315							
.150				-.2219	-.2233	-.2271	-.2463	
.157								-.1622
.163		-.0710						
.177			-.1818					
.209	-.0210							
.246		-.1560						
.250				-.1539	-.1804	-.1981	-.1904	
.270			-.1403					
.295								-.1796
.330		-.1251						
.350				-.1360	-.1420		-.1658	
.372			-.1079					
.395								-.2117
.401				-.1827	-.1884			
.430			-.2302					
.450							-.2275	
.467		-.1635						
.490						-.2171		
.500								-.2412
.520					-.2339			
.550				-.2157				
.560						-.3226	-.2873	
.580			-.2343					
.595				-.3769	-.2645			
.610		-.2138						
.630			-.3792					
.634	-.1564							
.650		-.3312						
.667				-.2728	-.2455	-.2369		
.687			-.2727					
.692								-.1494
.695	-.3236							
.710		-.2695						
.731	-.2301			-.1931			-.1444	
.735			-.2073					
.752		-.2045						
.770				-.0759	-.1560	-.0506		
.793			-.0931					
.795		-.1190						
.815	-.1331							
1.000			.0365		-.0205		.0622	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = .070 BETA (3) = .189 MACH = .59678 Q = 594.66 P = 2385.3 RN/L - 4.8568

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2900	.3740	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	.0107	.0675	.0792	-.5432	-.6418	-.6557	-.5868	
.033	.0000	.0521	-.0018	-.5418	-.5194	-.5697	-.6462	-.1945
.040		.0649	-.1468					
.050	-.0071			-.3457	-.3662	-.4233	-.4270	
.069								-.1812
.080				-.2747				
.081			-.1704					
.085		.0599						
.094	-.0141							
.100				-.1852	-.2021	-.2102	-.2413	
.157								-.1664
.163		-.0136						
.177			-.1416					
.229	-.0053							
.246		-.1243						
.250				-.1375	-.1713	-.1864	-.1940	
.274			-.1220					
.345								-.1686
.330		-.1042						
.410				-.1282	-.1401		-.1631	
.422			-.1008					
.503								-.1995
.550				-.1857	-.1879			
.565			-.2310					
.600							-.2237	
.637		-.1822						
.650						-.2218		
.670								-.2367
.710					-.2404			
.725				-.2208				
.770						-.3210	-.2920	
.780			-.2424					
.775				-.3970	-.2662			
.794		-.2110						
.818			-.3786					
.834	-.2050							
.839		-.3380						
.850				-.2743	-.2331	-.2349		
.857			-.2837					
.882								-.1307
.915	-.3089							
.879		-.2810						
.900	-.2463			-.1995			-.1424	
.905			-.2214					
.919		-.2229						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = .070 BETA (3) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0782	-.1477	-.0516		
.953			-.1003					
.955		-.1367						
.955	-.1831							
1.000			.0265		.0057		.0709	

ALPHA (2) = .063 BETA (4) = 4.250 MACH = .59678 Q = 594.66 P = 2365.3 RN/L = 4.8568

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0309	.0496	.1488	-.3727	-.4830	-.4737	-.4215	
.020	.0000	.0525	.0797	-.3914	-.4009	-.4547	-.4965	-.1693
.040		.0707	-.0612					
[illegible]	-.0106			-.0603	-.2077	-.3390	-.3577	
[illegible]								-.1724
.080				-.2246				
.091			-.1193					
.096		.0826						
.084	-.0158							
.150				-.1574	-.1740	-.1745	-.2166	
.157								-.1672
.163		.0221						
[illegible]			-.1165					
.229	.0022							
.245		-.0992						
.251				-.1272	-.1535	-.1636	-.1762	
.271			-.1079					
.345								-.1666
.339		-.0930						
.400				-.1258	-.1313		-.1544	
.402			-.0993					
[illegible]								-.1950
.490				-.1791	-.1781			
.504			-.2238					
[illegible]							-.2195	
.637		-.1712						
.650						-.2153		
.670								-.2189
.709					-.2369			
.725				-.2216				
.731						-.2997	-.2812	
.760			-.2493					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = .063 BETA (4) = 4.250

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3955	-.2551			
.799		-.2216						
.808			-.3662					
.834	-.2069							
.838		-.3276						
.950				-.2629	-.2237	-.2302		
.957			-.2762					
.962							-.1125	
.965	-.3220							
.979		-.2742						
.980	-.2544			-.1938		-.1335		
.985			-.2203					
.919		-.2266						
.950				-.0712	-.1402	-.0520		
.953			-.1079					
.955		-.1440						
.985	-.2209							
1.000			.0242		.0226		.0784	

ALPHA (2) = .058 BETA (5) = 8.310 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1172	-.0313	.1914	-.1780	-.3288	-.3398	-.3087	
.020	.0000	.0108	.1510	-.2403	-.2605	-.3389	-.3659	-.1686
.040		.0342	.0216					
.043	-.0446			-.1639	-.2197	-.2703	-.2946	
.049								-.1912
.050				-.1565				
.041			-.0545					
.046		.0865						
.034	-.0300							
.150				-.1305	-.1442	-.1511	-.1950	
.157								-.1708
.163		.0581						
.177			-.0814					
.229	.0020							
.236		-.0718						
.250				-.1062	-.1402	-.1495	-.1710	
.274			-.0890					
.345								-.1633
.390		-.0768						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (2) = .058 BETA (5) = 8.310

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1121	-.1222		-.1509	
.402			-.0923					
.503								-.1876
.550				-.1694	-.1713			
.565			-.2605					
.600							-.2106	
.637		-.1693						
.650						-.2122		
.670								-.2118
.700					-.2329			
.715				-.2206				
.750						-.2855	-.2761	
.760			-.2477					
.775				-.3904	- 2478			
.783		-.2164						
.800			-.3414					
.814	-.2168							
.839		-.3232						
.850				-.2542	-.2053	-.2254		
.857			-.2705					
.882								-.0991
.886	-.3225							
.879		-.2716						
.900	-.2592			-.1888			-.1257	
.905			-.2191					
.919		-.2263						
.950				-.0670	-.0975	-.0466		
.953			-.1080					
.965		-.1557						
.969	-.2331							
1.000			.0226		.0392		.0796	

ALPHA (3) = 3.933 BETA (1) = -7.911 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0754	.1444	.3160	-.0166	-.0205	.1293	.1858	
.030	.0000	.1392	.2245	-.1306	-.0327	-.0139	.0271	.0106
.040		.1572	.0300					
.050	.0642			-.1128	-.0952	-.0489	-.0318	
.069								-.0112
.080				-.0914				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (3) = 3.933 BETA (1) = -7.911

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0261					
.086		.1572						
.094	.0417							
.150				-.0447	-.0328	-.0144	-.0432	
.157								-.0939
.163		.0816						
.177			-.0273					
.229	.0499							
.246		-.0328						
.250				-.0268	-.0415	-.0451	-.0524	
.274			-.0292					
.345								-.0918
.390		-.0208						
.400				-.0500	-.0425		-.0690	
.402			-.0247					
.503								-.1541
.550				-.1219	-.1208			
.565			-.3000					
.600							-.1831	
.637		-.1300						
.650						-.1771		
.670								-.2138
.700					-.2032			
.725				-.1822				
.750						-.2969	-.2526	
.760			-.1967					
.775				-.3400	-.2412			
.798		-.1803						
.808			-.3471					
.819	-.1717							
.839		-.3073						
.850				-.2581	-.2310	-.2382		
.857			-.2480					
.862								-.1776
.865	-.3067							
.879		-.2425						
.900	-.1899			-.1917			-.1686	
.905			-.1912					
.919		-.1816						
.950				-.0699	-.1454	-.0683		
.973			-.0765					
.985		-.1027						
.985	-.0937							
1.000			.0554		.0026		.0265	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (3) = 3.936 BETA (2) = -3.866 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0170	.0742	.3295	.0797	.0548	.1667	.2024	
.020	.0000	.1123	.2649	-.0437	.0322	.0363	.0665	-.0656
.040		.1362	.0976					
.050	.0485			-.0541	-.0422	-.0218	-.0015	
.069								-.0781
.080				-.0518				
.081			.0099					
.086		.1658						
.094	.0375							
.100				-.0306	-.0068	-.0114	-.0435	
.107								-.1234
.165		.1133						
.177			- 0122					
.209	.0557							
.[illegible]		-.0093						
.250				-.0173	-.0393	-.0490	-.0634	
.274			-.0134					
.345								-.1192
.390		-.0135						
.400				-.0474	-.0499		-.0827	
.402			-.0175					
.503								-.1740
.550				-.1180	-.1264			
.565			-.2532					
.600							-.1941	
.637		-.1257						
.650						-.1803		
.679								-.2265
.700					-.2021			
.725				-.1880				
.750						-.2920	-.2629	
.763			-.2173					
.775				-.3598	-.2373			
799		-.1793						
.809			-.3519					
.[illegible]	-.1774							
.[illegible]		-.[illegible]100						
.[illegible]				-.[illegible]625	-.2276	-.2409		
.857			-.2620					
.862								-.1829
.875	-.3088							
.879		-.2532						
.900	-.2103			-.1880			-.1673	
.905			-.1986					
.919		-.2047						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL22)

ALPHA (3) = 3.936 BETA (2) = -3.866

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0704	-.1530	-.0644		
.953			-.0864					
.955		-.1185						
.965	-.1378							
1.000			.0531		.0175		.0364	

ALPHA (3) = 3.935 BETA (3) = .172 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0787	-.0415	.3014	.1490	.1070	.1936	.2008	
.020	.0000	.0418	.2743	.0327	.0626	.0613	.0714	-.1497
.040		.0855	.1469					
.050	.0041			-.0008	-.0113	-.0016	-.0059	
.060								-.1414
.080				-.0202				
.081			.0456					
.086		.1530						
.090	.0199							
.150				-.0172	-.0169	-.0085	-.0484	
.157								-.1478
.163		.1276						
.177			.0035					
.209	.0491							
.246		.0025						
.250				-.0156	-.0301	-.0450	-.0742	
.274			-.0070					
.345								-.1542
.390		-.0075						
.400				-.0476	-.0561		-.0942	
.402			-.0215					
.503								-.2005
.550				-.1216	-.1263			
.595			-.2493					
.610							-.2003	
.650		-.1286						
.680						-.1861		
.690								-.2404
.700					-.2092			
.725				-.1896				
.750						-.2917	-.2706	
.760			-.2168					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (3 = 3.935 BETA (3) = .172

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3730	-.2380			
.798		-.1921						
.808			-.3478					
.834	-.1845							
.839		-.3098						
.850				-.2576	-.2288	-.2455		
.857			-.2693					
.862							-.1828	
.865	-.3080							
.879		-.2610						
.900	-.2295			-.1932		-.1682		
.905			-.2177					
.919		-.2157						
.950				-.0702	-.1494	-.0698		
.953			-.1028					
.955		-.1346						
.965	-.1892							
1.000			.0398		.0376		.0359	

ALPHA (3) = 4.026 BETA (4) = 4.240 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.3990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2060	-.2138	.2307	.2024	.1610	.2259	.2283	
.020	.0000	-.0587	.2576	.0963	.1016	.1138	.1129	-.2778
.040		-.0854	.1660					
.050	-.0544			.0478	.0260	.0253	.0284	
.060								-.2491
.080				.0115				
.081			.0694					
.088		.1167						
.094	-.0189							
.150				.0009	.0090	-.0029	-.0411	
.197								-.1904
.163		.1412						
.177			.0190					
.229	.0307							
.246		.0135						
.250				-.0088	-.0257	-.0387	-.0705	
.274			-.0012					
.345								-.1928
.390		-.0014						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (3) = 4.026 BETA (4) = 4.240

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0469	-.0503		-.0990	
.402			-.0207					
.503								-.2268
.550				-.1186	-.1231			
.565			-.2536					
.600							-.1992	
.637		-.1233						
.650						-.1835		
.670								-.2523
.700					-.2020			
.725				-.1949				
.750						-.2810	-.2681	
.760			-.2263					
.775				-.3687	-.2306			
.798		-.1920						
.808			-.3310					
.834	-.1897							
.839		-.3102						
.850				-.2503	-.2072	-.2389		
.857			-.2601					
.862								-.1861
.865	-.2992							
.879		-.2609						
.900	-.2340			-.1811			-.1665	
.905			-.2122					
.919		-.2203						
.950				-.0719	-.1103	-.0694		
.953			-.1078					
.955		-.1433						
.965	-.2157							
1.000			.0354		.0428		.0408	

ALPHA (3) = 4.030 BETA (5) = 8.292 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3802	-.3517	.1045	.2387	.1813	.2278	.2041	
.020	.0000	-.1897	.1634	.1428	.1291	.1311	.1164	-.4174
.040		-.1217	.1706					
.050	-.1284			.0850	.0669	.0459	.0286	
.065								-.3412
.080				.0379				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (3) = 4.030 BETA (5) = 8.292

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.0912					
.096		.0626						
.094	-.0734							
.150				.0046	.0142	.0125	-.0503	
.157								-.2489
.163		.1362						
.177			.0372					
.209	.0010							
.246		.0176						
.250				-.0076	-.0231	-.0382	-.0812	
.274			.0077					
.346								-.2412
.390		.0001						
.400				-.0454	-.0515		-.1054	
.402			-.0202					
.503								-.2583
.550				-.1191	-.1256			
.565			-.3094					
.590							-.2029	
.677		-.1180						
.690						-.1872		
670								-.2737
.700					-.2049			
.725				-.1949				
.750						-.2689	-.2734	
.760			-.2292					
.775				-.3556	-.2248			
.795		-.1905						
.815			-.3130					
.834	-.1887							
.841		-.3088						
.850				-.2481	-.1927	-.2296		
.867			-.2561					
.890								-.1891
.895	-.2978							
.899		-.2650						
.900	-.2421			-.1833			-.1559	
.905			-.2076					
.919		-.2256						
.930				-.0720	-.0817	-.0678		
.953			-.1127					
.955		-.1518						
.965	-.2347							
1.000			.0310		.0545		.0574	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (+, = 7.901 BETA (1) = -7.896 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0204	-.0638	.4084	.4658	.4814	.5610	.5387	
.020	.0000	.1092	.4334	.3316	.4069	4255	.4419	-.2231
.040		.1593	.3076					
.050	.1012			.2273	.2593	.2866	.3072	-.1144
.069								
.080				.1707				
.091			.1949					
.096		.2559						
.0?4	.1056							
.150				.1330	.1579	.1729	.1387	-.1201
.157								
.163		.2462						
.177			.1331					
.229	.1331							
.2?9		.1142						
.300				.1085	.1027	.1002	.0732	
.?7?			.0984					
.345								-.0888
.350		.0884						
.400				.0545	.0493		.0098	
.402			.0720					-.1665
.503								
.550				-.0469	-.0473			
.565			-.3037					
.600							-.1426	
637		-.0626						
.650						-.1282		-.2263
.670								
.700					-.1566			
.725				-.1416				
.750						-.2452	-.2205	
.750			-.1717					
.775				-.3054	-.1968			
.798		-.1443						
.808			-.3008					
.834	-.1458							
.839		-.2723						
.850				-.2256	-.2046	-.2241		
.857			-.2152					
.862								-.2337
.?45	-.2720							
.?7?		-.2185						
.??	-.1624			-.1717			-.1910	
.900			-.1795					
.919		-.1750						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL22)

ALPHA (1) = 7.901 BETA (1) = -7.896

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0675	-.1255	-.0771		
.903			-.0730					
.855		-.0956						
.808	-.0848							
.001			.0668		.0328		-.0507	

ALPHA (1) = 7.913 BETA (2) = -3.861 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8592

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1710	-.2128	.2884	.4689	.4680	.5069	.4708	
.031	-.0990	-.0746	.3797	.5254	.3980	.4151	.4073	-.4795
.054		.1393	.3162					
.101	.0697			.2432	.2678	.2820	.2882	
.148								-.2619
.196				.824				
.244			.2099					
.292		.2115						
.340	.0600							
.387				.1355	.1629	.1662	.1145	
.435								-.1748
.483		.2494						
.531			.1389					
.578	.1174							
.626		.1908						
.674				.1095	.0966	.0978	.0497	
.722			.1034					
.769								-.1464
.817		.0801						
.865				.0470	.0413		-.0108	
.913			.0692					
.960								-.2184
.008				-.0491	-.0550			
.056			-.2782					
.103							-.1565	
.151		-.0814						
.199						-.1339		
.246								-.2562
.294					-.1587			
.342				-.1516				
.390						-.2473	-.2339	
.437			-.1836					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (4) = 7.913 BETA (2) = -3.861

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3170	-.1938			
.798		-.1552						
.809			-.3013					
.834	-.1487							
.839		-.2767						
.850				-.2324	-.2004	-.2286		
.857			.2359					
.862							-.2571	
.865	-.2630							
.879		-.2303						
.900	-.1829			-.1763		-.1912		
.905			-.1893					
.919		-.1819						
.950				-.0680	-.1322	-.0879		
.953			-.0890					
.955		-.1135						
.965	-.1378							
1.000			.0558		.0449		-.0371	

ALPHA (4) = 8.049 BETA (3) = .175 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3733	-.5398	.1274	.4390	.4204	.4338	.3843	
.020	.0000	-.2098	.2869	.3563	.3684	.3739	.3567	-.6100
.040		-.1083	.3012					
.050	-.0625			.2486	.2560	.2640	.2518	
.069								-.4152
.090				.1896				
.041			.2100					
.085		.1445						
.094	-.0001							
.150				.1362	.1532	.1551	.0867	
.157								-.2313
.183		.2335						
.177			.1364					
.203	.0780							
.245		.1182						
.252				.0958	.0904	.0803	.0220	
.264			.1017					
.344								-.2293
.390		.0863						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (4) = 8.049 BETA (3) = .175

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0354	.0351		-.0336	
.402			.0571					
.503								-.2742
.550				-.0596	-.0669			
.565			-.2684					
.600							-.1755	
.637		-.0633						
.650						-.1501		
.670								-.2919
.700					-.1713			
.725				-.1586				
.750						-.2515	-.2514	
.750			-.1986					
.775				-.3163	-.1968			
.788		-.1628						
.800			-.2949					
9[illegible]	-.1617							
.8[illegible]		-.[illegible]788						
.9[illegible]				-.2384	-.1873	-.2320		
.850			-.2363					
.662								-.2715
.8[illegible]	-.2733							
.870		-.2422						
.900	-.2033			-.1854			-.1945	
.905			-.2032					
.919		-.2024						
.950				-.0746	-.1248	-.0859		
.953			-.1015					
.955		-.1322						
.988	-.1876							
1.000			.0378		.0516		-.0141	

ALPHA (4) = 8.049 BETA (4) = 4.238 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5654	-.6734	-.0641	.3755	.3623	.3369	.2778	
.020	.0000	-.3413	.1514	.3348	.3397	.3391	.2973	-.8869
.040		-.2352	.2521					
.050	-.1560			.2396	.2596	.2508	.2278	
.058								-.5858
.080				.1843				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (4) = 8.049 BETA (4) = 4.238

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1964					
.086		.0666						
.094	-.0685							
.150				.1254	.1468	.1474	.0699	
.157								-.3115
.163		.2033						
.177			.1326					
.229	.0382							
.246		.1026						
.250				.0906	.0839	.0726	.0113	
.274			.0915					
.345								-.3011
.390		.0827						
.400				.0319	.0291		.0521	
.402			.0522					
.503								-.3340
.550				-.0619	-.0677			
.565			-.2913					
.600							-.1833	
.637		-.0658						
.650						-.1551		
.670								-.3191
.700					-.1693			
.725				-.1621				
.750						-.2503	-.2538	
.760			-.2057					
.775				-.3141	-.1822			
.798		-.1649						
.808			-.2897					
.854	-.1693							
.849		-.2815						
.850				-.2288	-.1771	-.2292		
.857			-.2416					
.862								-.2802
.865	-.2729							
.879		-.2452						
.900	-.2091			-.1731			-.1968	
.905			-.2052					
.919		-.2113						
.950				-.0782	-.0977	-.0933		
.953			-.1096					
.955		-.1406						
.965	-.2070							
1.000			.0365		.0065		-.0091	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (41) = 8.046 BETA (51) = 8.297 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
.010	-.7548	-.6477	-.2739	.2899	.2835	.2097	.1554	
.020	.0000	-.4255	-.0030	.2871	.2824	.2768	.2145	-1.0942
.040		-.3315	.1814					
.050	.2565			.2275	.2353	.2184	.1759	
.060								-.7692
.080				.1695				
.081			.1715					
.085		-.0149						
.094	-.1476							
.150				.1138	.1356	.1246	.0413	
.157								-.3718
.183		.1647						
.187			.1253					
.224	-.0085							
.240		.0823						
.250				.0736	.0735	.0529	-.0152	
.274			.0853					
.284								-.3763
.340		.0714						
.400				.0148	.0137		-.0796	
.426			.0372					
.503								-.3811
.550				-.0667	-.0799			
.585			-.3077					
.600							.1976	
.637		-.0565						
.650						-.1706		
.670								-.3408
.700					-.1911			
.725				-.1770				
.750						-.2646	-.2728	
.760			-.2045					
.775				-.3224	-.2128			
.799		-.1719						
.809			-.2801					
.814	-.1763							
.839		-.2809						
.850				-.2376	-.1918	-.2461		
.857			-.2463					
.862								-.2718
.875	-.2763							
.879		-.2510						
.900	-.2276			-.1991			-.1976	
.905			-.2152					
.919		-.2252						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (4) = 8.046 BETA (5) = 8.297

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0996	-.0983	-.1005		
.953			-.1157					
.955		-.1481						
.965	-.2243							
1.000			.0344		.0267		.0130	

ALPHA (5) = 11.963 BETA (1) = -7.860 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3146	-.6546	.1389	.5991	.5986	.5276	.4649	
.020	.0000	-.1610	.3844	.5651	.5884	.5829	.5307	-.7439
.040		-.0413	.4517					
.050	.0593			.4459	.4807	.4885	.4719	
.069								-.4106
.080				.3733				
.081			.3621					
.086		.2642						
.094	.1218							
.150				.2924	.3217	.3347	.2735	
.157								-.1911
.183		.3612						
.177			.2737					
.229	.1951							
.246		.2412						
.290				.2333	.2366	.2340	.1773	
.304			.2164					
.345								-.1173
.390		.1941						
.400				.1462	.1521		.0924	
.402			.1639					
.503								-.1858
.550				.0338	.0344			
.565			-.3390					
.600							-.0922	
.637		.0100						
.650						-.0726		
.670								-.2215
.700					-.1042			
.725				-.0960				
.750						-.1883	-.1788	
.750			-.1461					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (5) = 11.963 BETA (1) = -7.860

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2248	-.1196			
.798		-.1059						
.808			-.2295					
.874	-.1156							
.879		-.2265						
.890				-.1849	-.1420	-.1982		
.895			-.1943					
.942							-.2971	
.954	-.2258							
.979		-.1902						
.979	-.1291			-.1610			-.2148	
.985			-.1731					
.919		-.1590						
.927				-.0782	-.0807	-.0941		
.936			-.0786					
.945		-.0957						
.960	-.0874							
1.000			.0512		-.0068		-.1344	

ALPHA (5) = 11.985 BETA (2) = -3.940 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.810	-.5327	-.8790	-.0749	.5024	.5027	.3911	.3203	
.820	.0000	-.3384	.2430	.5121	.5291	.5093	.4432	-.9888
.840		-.1973	.4007					
.850	-.0508			.4264	.4642	.4537	.4195	
.869								-.5714
.880				.3648				
.891			.3477					
.906		.1792						
.924	.0485							
.932				.2800	.3095	.3144	.2305	
.957								-.2583
.963		.3336						
.971			.2662					
.978	.1570							
.986		.2308						
.250				.2218	.2219	.2113	.1492	
.274			.2145					
.345								-.2125
.390		.1910						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (5) = 11.995 BETA (2) = -3.840

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1425	.1356		.0588	
.402			.1539					
.603								-.2628
.660				.0290	.0150			
.685			-.3024					
.800							-.1236	
.817		.0104						
.850						-.0911		
.870								-.2725
.900					-.1201			
.925				-.1046				
.950						-.2068	-.1971	
.960			-.1506					
.975				-.2486	-.1393			
.988		-.1117						
.998			-.2354					
.834	-.1185							
.832		-.2318						
.800				-.2011	-.1680	-.2176		
.867			-.2057					
.932								-.3170
.946	-.2230							
.878		-.1973						
.900	-.1444			-.1658			-.2182	
.924			-.1822					
.919		-.1663						
.940				-.0764	-.1074	-.1138		
.963			-.0889					
.955		-.1069						
.965	-.1429							
1.000			.0453		-.0237		-.0992	

ALPHA (5) = 12.000 BETA (3) = .191 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7804	-1.1008	-.3214	.3893	.3934	.2413	.1802	
.030	.0000	-.5157	.0706	.4427	.4566	.4220	.3375	-1.1975
.040		-.3734	.3212					
.050	-.1579			.3919	.4232	.3990	.3510	
.069								-.7576
.090				.3322				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (5) = 12.000 BETA (3) = .181

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3143					
.086		.0772						
.094	-.0384							
.150				.2555	.2798	.2818	.1857	
.157								-.3357
.163		.2911						
.177			.2481					
.179	.0974							
.196		.2083						
.200				.1996	.1999	.1854	.1117	
.214			.1967					
.346								-.2986
.392		.1771						
.470				.1233	.1149		.0208	
.480			.1447					
.[illegible]								-.3244
.560				.0083	-.0027			
.565			-.2770					
.600							-.1454	
.637		-.0019						
.650						-.1192		
.670								-.3097
.700						-.1496		
.728				-.1267				
.750						-.2239	-.2260	
.760			-.1741					
.775				-.2706	-.1798			
.799		-.1264						
.805			-.2513					
.834	-.1335							
.839		-.2502						
.870				-.2190	-.2022	-.2357		
.[illegible]			-.2204					
.[illegible]								-.3182
.865	-.2395							
.874		-.2206						
.900	-.1709			-.1866			-.2215	
.[illegible]			-.1981					
.910		-.1876						
.930				-.0883	-.1233	-.1313		
.943			-.1128					
.[illegible]		-.1322						
.955	-.1707							
1.000			.0198		-.0118		-.0635	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (5) = 12.027 BETA (4) = 4.252 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.9765	-.9653	-.5325	.2521	.2601	.0568	-.0030	
.020	.0000	-.6037	-.0942	.3579	.3587	.3116	.2200	-1.4030
.040		-.4670	.2294					
.050	-.2879			.3487	.3677	.3356	.2798	
.069								-.9010
.080				.2934				
.081			.2658					
.086		-.0117						
.094	-.1293							
.150				.2264	.2482	.2529	.1510	
.157								-.3702
.163		.2353						
.177			.2237					
.229	.0485							
.246		.1752						
.250				.1779	.1738	.1608	.0779	
.274			.1785					
.345								-.3420
.390		.1619						
.400				.1049	.0953		.0020	
.402			.1252					
.503								-.3623
.550				-.0080	-.0206			
.565			-.2777					
.600							-.1599	
.637		-.0084						
.650						-.1384		
.670								-.3346
.700					-.1743			
.715				-.1446				
.730						-.2492	-.2402	
.760			-.1822					
.775				-.2818	-.2056			
.798		-.1346						
.808			-.2441					
.834	-.1440							
.839		-.2488						
.850				-.2335	-.2304	-.2537		
.857			-.2289					
.862								-.3061
.866	-.2364							
.879		-.2222						
.900	-.1887			-.2052			-.2399	
.905			-.1991					
.919		-.2009						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L22)

ALPHA (5) = 12.027 BETA (4) = 4.252

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1209	-.1068	-.1562		
.953			-.1135					
.955		-.1402						
.965	-.1877							
1.000			.0386		.0056		-.0783	

ALPHA (5) = 12.070 BETA (5) = 8.324 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.910	-1.2476	-.7479	-.7705	.0757	.0953	-.1559	-.1909	
.940	.0030	-.6592	-.3110	.2468	.2434	.1938	.0863	-1.4640
.947		-.5226	.1165					
.953	-.4249			.2890	.3021	.2660	.1991	
.960								-1.0240
.970				.2535				
.981			.2092					
.985		-.1080						
.990	-.2343							
.990				.1999	.2261	.2123	.1092	
.987								-.4205
.983		.1743						
.977			.1963					
.968	-.0123							
.946		.1312						
.930				.1524	.1506	.1347	.0437	
.874			.1613					
.845								-.3965
.799		.1345						
.801				.0818	.0803		-.0331	
.792			.1013					
.503								-.4071
.500				-.0092	-.0311			
.565			-.3368					
.500							-.1777	
.637		-.0125						
.650						-.1457		
.670								-.3515
.700					-.1783			
.785				-.1553				
.750						-.2462	-.2446	
.701			-.1903					

AMES 11-073(OA148) -140A/B/C/R ORR LEFT WING BOT (XE8L22)

ALPHA (5) = 12.070 BETA (5) = 8.324

SECTION = 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720
X/CW								
.775				-.2664	-.1790			
.798		-.1493						
.808			-.2405					
.834	-.1572							
.838		-.2553						
.850				-.2324	-.1981	-.2337		
.857			-.2274					
.862								-.3079
.866	-.2438							
.879		-.2327						
.900	-.2080			-.2076			-.2341	
.905			-.2119					
.919		-.2147						
.950				-.1265	-.0948	-.1514		
.953			-.1267					
.955		-.1556						
.965	-.2075							
1.000			.0336		-.0093		-.0712	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOERK = .000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (I) = -3.999 BETA (I) = -3.856 MACH = 1.3924 Q = 598.36 P = 440.89 RN/L = 2.9021

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1744	-.2511	-.1432	-.2729	-.3570	-.2253	-.1896	
.020	.0000	-.2422	-.2479	-.4138	-.4030	-.4091	-.4061	-.4557
.040		-.2360	-.3101					
.060	-.1603			-.4454	-.4314	-.4420	-.4390	
.080								-.4858
.080				-.4405				
.091			-.1989					
.096		-.1304						
.094	-.1496							
.110				-.4022	-.3908	-.3924	-.3970	
.157								-.3097
.163		-.0391						
.172			-.1841					
.229	-.1113							
.245		-.1221						
.250				-.2156	-.3617	-.3547	-.3684	
.274			-.1675					
.345								-.4165
.390		-.1454						
.400				-.1772	-.3098		-.3295	
.402			-.1563					
.503								-.3487
.560				-.1411	-.1594			
.565			-.3070					
.600							-.3199	
.637		-.1013						
.650						-.3189		
.670								-.4563
.700					-.2058			
.725				-.1698				
.750						-.2731	-.3610	
.770			-.1922					
.775				-.2187	-.2416			
.798		-.1722						
.808			-.2527					
.824	-.1921							
.850		-.2485						
.860				-.2968	-.2500	-.3060		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23)

ALPHA (1) = -3.999 BETA (1) = -3.856

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.2741					
.882								-.4606
865	-.2350							
.879		-.2872						
.900	-.2036			-.3428			-.4254	
.905			-.3482					
.919		-.2903						
.950				-.3653	-.3031	-.3647		
.953			-.3698					
.955		-.2910						
.965	.2823							
1.000			-.1027		-.2015		-.4049	

ALPHA (1) = -3 926 BETA (2) = .190 MACH = 1.3924 Q = 598.36 P = 440.89 RN/L = 2.9021

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1044	-.1157	-.0561	-.2710	-.3696	-.2631	-.2374	
.020	.0000	-.1169	-.1228	-.4077	-.4158	-.4326	-.4353	-.4957
.040		-.1190	-.1751					
.050	-.1051			-.4259	-.4389	-.4630	-.4638	
.060								-.5098
.080				-.3863				
.081			-.1543					
.086		-.0569						
.094	-.0967							
.150				-.3055	-.3924	-.4078	-.4200	
.157								-.3268
.163		.0101						
.177			-.1345					
.223	-.0731							
.240		-.0803						
.250				-.1603	-.3527	-.3665	-.3911	
.274			-.1300					
345								-.4678
.427		-.1023						
.450				-.1463	-.1519		-.3445	
.472			-.1185					
503								-.3563
.540				-.1082	-.1342			
585			-.3252					
.630							-.3270	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23)

ALPHA (1) = -3.926 BETA (2) = .190

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720
X/CW								
.637		-.0799						
.650						-.1825		
.670								-.4388
.700					-.1711			
.725				-.1533				
.750						-.2109	-.3335	
.760			-.1832					
.775				-.2105	-.2161			
.799		-.1644						
.809			-.2378					
.834	-.1720							
.849		-.2331						
.860				-.2820	-.2103	-.2828		
.870			-.2642					
.890								-.4934
.895	-.2176							
.899		-.2690						
.920	-.1963			-.3269			-.3292	
.935			-.3300					
.939		-.2800						
.950				-.3508	-.3146	-.3447		
.963			-.3517					
.966		-.2874						
.975	-.3076							
.980			-.3171		-.2225		-.3039	

ALPHA (1) = -3.986 BETA (3) = 4.279 MACH = 1.3924 Q = 598.36 P = 440.99 P/Q = 2.9021

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720
X/CW								
.610	-.0732	-.0351	.0365	-.2699	-.3864	-.2963	-.2790	
.640	.0030	-.0491	.0036	-.3946	-.4262	-.4544	-.4596	-.5243
.640		-.0436	-.0787					
.660	-.0811			-.3562	-.4466	-.4810	-.4848	
.680								-.5233
.690				-.3429				
.691			-.0382					
.695		-.0066						
.704	-.0985							
.720				-.1889	-.3861	-.4192	-.4385	
.744								-.3401
.744		0450						

DATE 10 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8L23)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

ALPHA (1) = -3.986 BETA (3) = 4.279

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE Cp

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.0988					
.229	-.0556							
.246		-.0467						
.250				-.1356	-.1851	-.3653	-.4071	
.274			-.0900					
.345								-.4036
.390		-.0645						
.400				-.1080	-.1336		-.3553	
.402			-.0870					
.503								-.3498
.550				-.0920	-.1051			
.565			-.3045					
.600							-.1586	
.637		-.0648						
.650						-.1574		
.670								-.3930
.700					-.1591			
.725				-.1478				
.750						-.2016	-.2006	
.760			-.1704					
.775				-.2071	-.2049			
.798		-.1553						
.808			-.2268					
.834	-.1762							
.840		-.2246						
.860				-.2723	-.1965	-.2736		
.867			-.2576					
.882								-.3621
.885	-.2138							
.879		-.2627						
.900	-.2041			-.3233			-.2985	
.905			-.3164					
.919		-.2746						
.950				-.3524	-.3101	-.3258		
.953			-.3365					
.965		-.2819						
.985	-.3181							
1.000			-.1258		-.2272		-.1502	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (2) = .006 BETA (1) = -3.877 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9068

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0028	.0127	.2088	-.0846	-.1754	-.1038	-.0185	
.020	.0000	-.0187	.1477	-.2182	-.2311	-.2374	-.2?50	-.2172
.040		-.0187	.0117					
.050	-.0316			-.2240	-.2370	-.2684	-.2719	
.069								-.2401
.080				-.1768				
.081			-.0394					
.086		.0247						
.094	-.0485							
.150				-.1211	-.1832	-.1976	-.2196	
.157								-.1924
.163		.0961						
.177			-.0416					
.229	-.0399							
.246		-.0173						
.250				-.0614	-.1352	-.1573	-.1883	
.274			-.0463					
.345								-.1619
.390		-.0368						
.400				-.0602	-.0483		-.1440	
402			-.0461					
503								-.1659
950				-.0395	-.0461			
.9?5			-.3528					
600							-.1151	
.637		-.0270						
.650						-.0936		
.670								-.2381
.700					-.1175			
775				-.0981				
.700						-.1342	-.1444	
760			-.1267					
.775				-.1709	-.1703			
.730		-.1250						
.808			-.1795					
.834	-.1355							
.839		-.1951						
.850				-.2385	-.2769	-.2379		
.857			- 2 87					
.862								-.2719
.875	-.1693							
.879		-.2376						
.900	-.1617			-.2949			-.2785	
.905			-.2905					
.919		-.2653						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (2) = .006 BETA (1) = -3.877

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3450	-.2692	-.3119		
.953			-.3257					
.955		-.2459						
.965	-.2235							
1.000			-.0906		-.1527		-.3636	

ALPHA (2) = .011 BETA (2) = .183 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0153	-.0028	.2437	-.0778	-.1939	-.1421	-.0624	
.020	.0000	-.0092	.2198	-.1821	-.2295	-.2525	-.2852	-.2439
.040		.0013	.0672					
.060	-.0217			-.1075	-.1916	-.2630	-.2991	
.080								-.2527
.090				-.1025				
.091			.0060					
.085		.0425						
.094	-.0425							
.100				-.0761	-.1315	-.1758	-.2150	
.157								-.1843
.163		.1146						
.177			-.0159					
.229	-.0397							
.246		.0094						
.250				-.0399	-.0506	-.1115	-.1850	
.274			-.0173					
.345								-.1331
.390		-.0085						
.400				-.0388	-.0349		-.0670	
.402			-.0235					
.503								-.0868
.550				-.0179	-.0260			
.565			-.3734					
.600							-.0777	
.627		-.0063						
.650						-.0743		
.670								-.1960
.700					-.0966			
.704				-.0863				
.750						-.1312	-.1392	
.770			-.1176					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (2) = .011 BETA (2) = .183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1626	-.1510			
.799		-.1114						
.808			-.1653					
.834	-.1235							
.839		-.1824						
.850				-.2218	-.2579	-.2234		
.857			-.2102					
.862							-.2818	
.895	-.1620							
.979		-.2262						
.300	-.1534			-.2782		-.2756		
.905			-.2789					
.919		-.2425						
.950				-.3284	-.2450	-.3035		
.953			-.3121					
.955		-.2348						
.965	-.2375							
1.000			-.1076		-.1680		-.3175	

ALPHA (2) = .023 BETA (3) = 4.256 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0743	-.0656	.2681	-.0262	-.1730	-.1631	-.0945	
.020	.0000	-.0381	.2486	-.0177	-.1140	-.2462	-.2928	-.1952
.040		-.0212	.1161					
.050	-.0547			-.0824	-.1846	-.2315	-.2860	
.069								-.1861
.080				-.0626				
.081			.0426					
.101		.0412						
.094	-.0524							
.150				-.0443	-.0803	-.1335	-.2016	
.157								-.1697
.163		.1153						
.177			.0053					
.229	-.0486							
.246		.0232						
.250				-.0173	-.0438	-.0444	-.0728	
.274			.0105					
.345								-.0719
.350		.0120						

AMES 11-073(OA148) -140A/B/C/R ORE LEFT WING BOT (XE8L23)

ALPHA (2) = .023 BETA (3) = 4.256

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0102	-.0162		-.0564	
.402			-.0025					
.503								-.0962
.550				-.0086	-.0141			
.565			-.3532					
.600							-.0657	
.637		.0049						
.650						-.0636		
.670								-.2071
.700					-.0908			
.725				-.0837				
.750						-.1321	-.1315	
.760			-.1125					
.775				-.1603	-.1436			
.798		-.1083						
.809			-.1581					
.834	-.1173							
.839		-.1706						
.850				-.2172	-.2462	-.2203		
.857			-.2057					
.862								-.2891
.865	-.1578							
.879		-.2201						
.900	-.1581			-.2728			-.2762	
.905			-.2738					
.919		-.2253						
.950				-.3231	-.2260	-.3066		
.953			-.2951					
.955		-.2267						
.965	-.2439							
1.000			-.1223		-.1793		-.2168	

ALPHA (3) = 3.925 BETA (1) = -3.879 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0550	.0145	.3993	.2527	.1793	.1759	.2055	
.020	.0000	.0335	.3760	.1768	.1649	.0912	.0397	.0931
.040		.0503	.2084					
.050	.0469			.0472	.0229	.0255	.0305	
.063								.0574
.090				.0532				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23)

ALPHA (3) = 3.926 BETA (1) = -3.979

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1269					
.085		.1076						
.094	.0287							
.150				.0510	.0598	.0688	.0795	
.157								-.0719
.163		1991						
.177			.0859					
.229	.0242							
.246		.0748						
.250				.0731	.0732	.0855	.0648	
.274			.0709					
.345								.0293
.350		.0713						
.400				.0698	.0803		.0588	
.402			.0650					
.403								-.0025
.550				.0716	.0856			
.565			-.3950					
.600							.0067	
.637		.0601						
.650						.0227		
.670								-.1392
.700					-.0167			
.725				-.0179				
.750						-.0397	-.0492	
.760			-.0590					
.775				-.1351	-.0797			
.799		-.0635						
.808			-.1043					
.824	-.0764							
.829		-.1397						
.850				-.1728	-.2403	-.1649		
.857			-.1658					
.862								-.2346
.865	-.1101							
.870		-.1840						
.880	-.1535			-.2360			-.2223	
.905			-.2357					
.910		-.2309						
.950				-.2966	-.2649	-.2626		
.953			-.2737					
.955		-.2004						
.965	-.1535							
1.000			-.0941		-.1443		-.4025	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (3) = 3.959 BETA . ..) = .183 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0323	-.1449	.3466	.2986	.2009	.1865	.1980	
.020	.0000	-.0582	.3518	.2192	.1775	.1160	.0561	.0596
.040		-.0296	.2265					
.050	.0102			.1060	.0613	.0870	.0509	
.069								.0354
.080				.0935				
.081			.1468					
.085		.0640						
.09[illegible]	.0067							
150				.0722	.0832	.0922	.1093	
.157								-.0809
.163		.1788						
.177			.0967					
.229	.0079							
.246		.0839						
[illegible]				.0321	.0847	.0915	.0691	
.[illegible]			.0934					
.345								.0057
.390		.0918						
.400				0812	.0935		.0629	
.402			.0772					
.503								-.0222
.550				0789	0859			
.555			- 4193					
.600							.0128	
.637		.0744						
.650						0223		
.670								-.1537
.700					- 0170			
.725				- 0151				
.750						-.0590	-.0583	
.760			-.0464					
.775				- 1156	-.0739			
.798		-.0509						
.808			-.0993					
.8[illegible]	-.0565							
.[illegible]		-.1189						
.850				-.1618	-.2322	-.1705		
857			-.1530					
.882								-.2522
.8[illegible]	-.0366							
.[illegible]		-.1606						
.[illegible]	-.1277			-.2235			-.2241	
.[illegible]			-.2187					
.9[illegible]		-.2060						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8L23)

ALPHA (3) = 3.958 BETA (2) = .183

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2848	-.2589	-.2711		
.953			-.2633					
.955		-.1882						
.965	-.1509							
1.000			-.1233		-.1244		-.3675	

ALPHA (3) = 3.971 BETA (3) = 4.247 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1616	-.3767	.2624	.3403	.2369	.2180	.2416	
.020	.0000	-.1881	.2971	.2689	.2097	.1555	.1207	.0020
.040		-.1434	.2315					
.050	-.0525			.1568	.1058	.1131	.1146	
.069								.0013
.080				.1360				
.081			.1496					
.086		-.0103						
.094	-.0412							
.150				.0914	.1108	.1167	.1231	
.157								-.0982
.183		.1434						
.177			.1036					
.189	-.0201							
.246		.0840						
.250				.1002	.0970	.1038	.0796	
.274			.1071					
.345								-.0103
.390		.0909						
.402				.0966	.1180		.0784	
.403			.0862					
.503								-.0298
.550				.0810	.0941			
.555			-.4036					
.600							.0208	
.633		.0826						
.650						.0306		
.670								-.1721
.700					-.0100			
725				-.0102				
.750						-.0805	-.0646	
.760			-.0429					

REPRODUCIBILITY
ORIGINAL PAGE

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (3) = 3.971 BETA (3) = 4.247

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1003	-.0641			
.799		-.0435						
.809			-.0816					
.834	-.0500							
.839		-.1103						
.850				-.1505	-.2201	-.1673		
.857			-.1455					
.862								-.2744
.865	-.0979							
.879		-.1667						
.900	-.1154			-.2118			-.2338	
.905			-.2151					
.919		-.1837						
.950				-.2726	-.2354	-.2736		
.953			-.2440					
.956		-.1879						
.965	-.1591							
1.000			-.1462		-.1293		-.2326	

ALPHA (4) = 7.933 BETA (1) = -3.869 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0089	-.1276	.4286	.5141	.4577	.5132	.5336	
.020	.0000	.0024	.4516	.3849	.4062	.4051	.3991	.1402
.040		.0396	.3453					
.050	.0818			.2763	.2752	.3120	.3531	
.069								.1540
.080				.2428				
.081			.2600					
.088		.1474						
.094	.0782							
.150				.1956	.2515	.2841	.2908	
.157								-.0388
.163		.2827						
.177			.1992					
.223	.0844							
.246		.1686						
.250				.2042	.2219	.2467	.2212	
.274			.1920					
.345								.1208
.350		.1729						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (4) = 7.933 BETA (1) = -3.869

SECTION : 11LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1923	.2491		.2026	
.402			.1744					
.403								.0904
.550				.1797	.1980			
.565			-.4229					
.600							.1197	
.637		.1546						
.650						.1223		
.670								-.0738
.700					.0639			
.725				.0588				
.750						.0168	.0187	
.760			.0149					
.775				-.0789	-.0072			
.799		.0078						
.805			-.0294					
.834	-.0056							
.835		-.0751						
.850				-.1023	-.1871	-.1069		
.857			-.1012					
.862								- 1836
.865	-.0448							
.870		-.1181						
.880	-.1061			-.1732			-.1562	
.905			-.1725					
.919		-.1830						
.930				-.2488	-.2291	-.2210		
.953			-.2227					
.955		-.1667						
.965	-.0795							
1.000			-.1316		-.2604		-.3895	

ALPHA (4) = 7.909 BETA (21 = .178 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION : 11LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1304	-.3374	.2837	.5207	.4652	.5272	.5271	
.020	.0300	-.1228	.3587	.4167	.4167	.4340	.4146	.0262
.040		-.0717	.3227					
.050	.0210			.3142	.2923	.3286	.3680	
.067								.0672
.080				.2696				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (4) = 7.908 BETA (2) = .178

SECTION (11LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2448					
.086		.0723						
.094	.0359							
.150				.2035	.2616	.2829	.2913	
.157								-.0584
.163		.2394						
.177			.1935					
.229	.0580							
.246		.1624						
.250				.2057	.2292	.2470	.2197	
.274			.1964					
.345								.0872
.330		.1771						
.400				.1983	.2425		.2149	
.402			.1791					
.503								.0528
.550				.1808	.1968			
.585			-.4381					
.600							.1014	
.637		.1621						
.650						.1171		
.670								-.1057
.700					.0669			
.725				.0623				
.750						.0007	.0006	
.760			.0264					
.775				-.0482	.0016			
.788		.0257						
.800			-.0123					
.814	.0169							
.841		-.0499						
.850				-.0925	-.1910	-.1118		
.857			-.0877					
.875								-.2268
.855	-.0314							
.879		-.1103						
.900	-.0739			-.1613			-.1772	
.905			-.1563					
.913		-.1527						
.925				-.2347	-.2255	-.2324		
.933			-.2083					
.955		-.1479						
.958	-.0921							
1.000			-.1587		-.1960		-.4134	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (4) = 7.872 BETA (3) = 4.245 MACH = 1.3941 Q = 599.51 P = 440.65 P/L = 2.9093

SECTION ' 1:LEFT WING BOT SURF DEPENDENT VARIABLE CP

BV/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2625	-.4276	.1024	.4829	.4522	.5062	.5014	
.020	.0000	-.2190	.2200	.4168	.4142	.4312	.4225	-.0977
.040		-.1651	.2535					
.050	-.0544			.3173	.3080	.3302	.3674	
.060								-.0185
.080				.2613				
.081			.2001					
.090		.0055						
.094	-.0204							
.110				.2037	.2624	.2807	.2868	
.121								-.0872
.125		.1775						
.140			.1714					
.143	.0235							
.145		.1333						
.160				.1973	.2258	.2422	.2295	
.161			.1823					
.180								.0386
.181		.1549						
.200				.1935	.2405		.2217	
.201			.1726					
.215								.0108
.220				.1736	.1917			
.225			-.4396					
.240							.0977	
.247		.1675						
.260						.1190		
.270								-.1336
.280					.0731			
.285				.0676				
.300						-.0038	-.0112	
.310			.0274					
.320				-.0185	.0100			
.328		.0255						
.340			-.0058					
.354	.0183							
.360		-.0454						
.380				-.0843	-.1919	-.1136		
.400			-.0800					
.420								-.2518
.440	-.0355							
.460		-.1133						
.480	-.0884			-.1565			-.1804	
.500			-.1595					
.514		-.1376						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23)

ALPHA (4) = 7.872 BETA (3) = 4.245

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2220	-.2028	-.2297		
.953			-.1887					
.956		-.1469						
.955	-.1173							
1.000			-.1906		-.1562		-.3755	

ALPHA (5) = 11.931 BETA (1) = -3.857 MACH = 1.3942 Q = 599.92 P = 440.89 RN/L = 2.9149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1100	-.2817	.3694	.6788	.6573	.7242	.7251	
.030	.0000	-.0383	.4747	.5737	.5991	.6270	.6452	.0735
.040		.0211	.4527					
.050	.0992			.4706	.4901	.5192	.5577	
.069								.1492
.080				.4033				
.091			.3759					
.096		.1830						
.104	.1241							
.150				.3486	.4152	.4455	.4451	
.157								-.0083
.163		.3631						
.177			.3169					
.229	.1518							
.245		.2695						
.250				.3390	.3761	.4024	.3790	
.274			.3148					
.345								.1825
.370		.2923						
.400				.3194	.3792		.3519	
.402			.2998					
.503								.1559
.550				.2858	.3094			
.596			-.4461					
.620							.2041	
.637		.2548						
.650						.2210		
.670								-.0164
.700					.1527			
.725				.1502				
.751						.0992	.0916	
.760			.1026					

ATE 11 FEB 76 TABULATED PRESSURE DATA - OA149 (AMES 11-073-1)

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (B) = 11.931 BETA (B) = -3.857

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/ B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.778				.0116	.0777			
.798		.0939						
.808			.0618					
.824	.0890							
839		.0074						
850				-.0272	-.1257	-.0427		
.867			-.0249					
.880								-.1484
.894	.0479							
913		-.0478						
921	-.1034			-.1072			-.0913	
.934			-.0375					
.948		-.1033						
.961				-.1912	-.1543	-.1702		
.975			-.1579					
.988		-.1981						
1.000								
1.010			-.2453		-.3034		-.4655	

(B) = .889 BETA B) = .183 MACH = 1.392 Q = 599.92 P = 440.89 RN = 2.814E

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/ B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.770	-.1418	-.3783	.1943	.6234	.6106	.6937	.6626	
.790	.0000	-.1377	.3231	.5443	.5700	.5996	.6071	-.0708
.810		-.0776	.3735					
.840	.0267			.4548	.4735	.4996	.5345	
.870								.0467
.900				.3897				
.930			.3190					
.960		.1086						
.980	.0772							
1.000				.3412	.4038	.4253	.4342	
1.020								-.0499
1.040		.2990						
1.060			.2928					
1.080	.1163							
1.100		.2358						
1.120				.3188	.3593	.3918	.3681	
1.140			.3093					
1.160								.1212
1.180		.3743						

3 148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (5) = 11.869 BETA (2) = .103

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3126	.3688		.3303	
.402			.2861					
.503								.0966
.550				.2797	.3021			
.565			-.4635					
.600							.1811	
.637		.2608						
.650						.2073		
.670								-.0569
.700					.1463			
.725				.1508				
.750						.0714	.0684	
.760			.1057					
.775				.0415	.0738			
.799		.1077						
.808			.0770					
.834	.0983							
.839		.0326						
.950				-.0120	-.1323	-.0455		
.857			-.0056					
.852								-.1892
.865	.0404							
.879		-.0429						
.900	.0046			-.0920			-.1136	
.905			-.0896					
.919		-.0805						
.950				-.1715	-.1492	-.1741		
.953			-.1435					
.955		-.0950						
.965	-.0480							
1.000			-.1936		-.2609		-.4826	

ALPHA (5) = 11.865 BETA (3) = 4.258 MACH = 1.3942 Q = 599.92 P = 440.89 RN/L = 2.9149

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3470	-.4380	.0018	.5278	.5438	.5729	.5787	
.020	.0000	-.2841	.1763	.4953	.5277	.5470	.5519	-.1964
.040		-.1729	.2884					
.050	-.0455			.4185	.4451	.4600	.4965	
.069								-.0530
.080				.3607				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (5) = 11.865 BETA (3) = 4.258

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

ZY/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2532					
.085		.0253						
.094	.0188							
.150				.3125	.3741	.4091	.4205	
.157								-.0901
.163		.2267						
.177			.2523					
.229	.0721							
.246		.1918						
.250				.2984	.3377	.3784	.3563	
.274			.2808					
.345								.0719
.390		.2398						
.400				.3031	.3555		.3168	
.402			.2770					
.503								.0591
.550				.2702	.2941			
.555			-.4422					
.600							.1741	
.637		.2526						
.650						.1984		
.670								-.0838
.700					.1484			
.725				.1431				
.750						.0585	.0459	
.760			.0969					
.775				.0702	.0731			
.795		.0083						
.803			.0691					
.824	.0892							
.829		.0200						
.850				-.0025	-.1438	-.0501		
.857			-.0139					
.862								-.2078
.865	.0247							
.879		-.0422						
.900	.0107			-.0882			-.1262	
.905			-.0958					
.910		-.0662						
.940				-.1606	-.1490	-.1607		
.942			-.1192					
.950		-.0879						
.965	-.0661							
1.000			-.2429		-.1557		-.4692	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (6) = 15.857 BETA (1) = -3.836 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2040	-.3186	.2902	.7623	.7750	.8028	.7954	
.020	.0000	-.0465	.4564	.7004	.7391	.7690	.7706	-.0182
.040		.0243	.5191					
.050	.1188			.6095	.6468	.6807	.7043	
.069								.1347
.080				.5454				
.081			.4635					
.085		.2249						
.094	.1739							
.150				.4945	.5565	.6036	.5832	
.157								-.0106
.163		.4438						
.177			.4315					
.229	.2237							
.246		.3599						
.250				.4586	.5184	.5598	.5066	
.274			.4350					
.345								.2306
.390		.4099						
.400				.4569	.5117		.4602	
.402			.4158					
.503								.2071
.550				.4101	.4206			
.565			-.4816					
.600							.2901	
.637		.3685						
.650						.3118		
.670								.0317
.700					.2452			
.725				.2478				
.750						.1635	.1490	
.760			.1910					
.775				.1209	.1458			
.798		.2004						
.808			.1509					
.834	.1929							
.839		.0923						
.850				.0494	-.0664	.0224		
.857			.0621					
.862								-.1100
.865	.1244							
.870		.0160						
.900	.0421			-.0401			-.0315	
.905			-.0360					
.919		-.0390						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (6) = 15.857 BETA (1) = -3.836

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1280	-.0988	-.1116		
.953			-.1041					
.955		-.0569						
.965	-.0001							
1.000			-.2375		-.3698		-.5395	

ALPHA (6) = 15.871 BETA (2) = .184 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3955	-.3955	.1000	.6629	.6896	.6878	.6825	
.020	.0000	-.1547	.2933	.6371	.6769	.6953	.6909	-.1472
.040		-.0834	.4247					
.050	.0493			.5706	.6118	.6330	.6544	
.069								.0255
.080				.5159				
.081			.3860					
.096		.1367						
.094	.1075							
.150				.4660	.5316	.5733	.5406	
.157								-.0568
.163		.3669						
.177			.3919					
.209	.1753							
.246		.3200						
.250				.4366	.4931	.5345	.4799	
.274			.4124					
.315								.1650
.320		.3797						
.400				.4340	.4943		.4264	
.402			.4074					
.503								.1557
.550				.4053	.4050			
.585			-.5029					
.600							.2687	
.637		.3676						
.650						.2939		
.670								.0008
.700					.2511			
.725				.2497				
.750						.1488	.1259	
.760			.1936					

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL23)

ALPHA (6) = 15.871 BETA (2) = .184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				.1619	.1511			
.798		.2004						
.808			.1587					
.834	.1931							
.839		.1042						
.850				.0634	-.0818	.0119		
.857			.0587					
.862							-.1400	
.865	.1205							
.879		.0146						
.900	.0743			-.0318			-.0534	
.905			-.0404					
.919		-.0107						
.950				-.1203	-.0959	-.0992		
.953			-.0767					
.955		-.0386						
.965	-.0107							
1.000			-.3034		-.3052		-.5571	

ALPHA (6) = 15.861 BETA (3) = 4.289 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3768	-.4687	-.0847	.5365	.5819	.5668	.5590	
.020	.0000	-.2425	.1431	.5536	.5964	.6214	.6035	-.2407
.040		-.1731	.3195					
.050	-.0209			.5102	.5592	.5807	.5957	
.069								-.0547
.080				.4699				
.081			.3164					
.086		.0622						
.094	.0524							
.150				.4320	.4987	.5392	.5163	
.157								-.0900
.163		.2957						
.177			.3392					
.229	.1282							
.246		.2686						
.250				.4066	.4739	.5126	.4644	
.274			.3853					
.315								.1153
.390		.3466						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L23)

ALPHA (6) = 15.861 BETA (3) = 4.289

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.4163	.4672		.4108	
.402			.3851					
.503								.1075
.550				.3875	.3983			
.565			-.4556					
.600							.2556	
.637		.3545						
.650						.2799		
.670								-.0166
.700					.2470			
.725				.2433				
.750						.1393	.1186	
.760			.1887					
.775				.1670	.1488			
.788		.1987						
.808			.1585					
.824	.1821							
.839		.1020						
.850				.0650	-.0948	.0012		
.857			.0577					
.882								-.1530
.905	.1099							
.879		.0340						
.900	.0890			-.0310			-.0628	
.906			-.0248					
.919		.0006						
.940				-.1092	-.0943	-.0979		
.953			-.0514					
.955		-.0414						
.965	-.0167							
1.000			-.2668		-.2635		-.5236	

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL24) (05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.0680 IN.	ZMRP =	375.0000 IN.		
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	.000	SPDBRK =	.000
BDFLAP =	.000	L-ELVN =	.000
R-ELVN =	.000	MACH =	1.250

ALPHA (1) = -3.982 BETA (1) = -3.844 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z//B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1538	-.2867	-.2037	-.4029	-.5045	-.3543	-.3258	
.020	.0000	-.2691	-.3087	-.5517	-.5466	-.5629	-.5597	-.6032
.040		-.2633	-.3455					
.050	-.1499			-.5760	-.5744	-.5981	-.5883	
.069								-.6554
.080				-.5377				
.081			-.2372					
.086		-.1447						
.094	-.1493							
.150				-.4985	-.5126	-.5312	-.5394	
.157								-.3970
.163		-.0569						
.177			-.2198					
229	-.1313							
.246		-.1421						
.250				-.2385	-.4642	-.4788	-.4987	
.274			-.1970					
.345								-.5644
.390		-.1647						
.400				-.2032	-.2875		-.4447	
.402			-.1673					
.503								-.5635
.550				-.1407	-.1752			
.565			-.3883					
.600							-.4239	
.637		-.1078						
.650						-.2298		
.670								-.6046
.700					-.2219			
.725				-.1930				
.750						-.2506	-.4649	
.760			-.2155					
.775				-.2574	-.2667			
.798		-.1935						
.808			-.2923					
.834	-.2162							
.884		-.2920						
.800				-.3510	-.2543	-.3379		

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (1) = -3.982 BETA (1) = -3.844

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.3222					
.862								-.5734
.865	-.2756							
.879		-.3354						
.900	-.2364			-.3917			-.4758	
.905			-.4044					
.919		-.3383						
.950				-.4081	-.4258	-.4115		
.953			-.4244					
.955		-.3459						
.965	-.3361							
1.000			-.0982		-.2195		-.1994	

ALPHA (1) = -3.977 BETA (2) = .190 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0088

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0996	-.1340	-.0891	-.4002	-.5279	-.3984	-.3767	
.020	.0000	-.1466	-.1534	-.5469	-.5723	-.5883	-.5948	-.6565
.040		-.1387	-.2040					
.050	-.1118			-.5253	-.5896	-.6195	-.6248	
.069								-.6819
.080				- 4929				
.081			-.1907					
.086		-.0718						
.094	-.1202							
.150				-.2914	-.5074	-.5434	-.5663	
.157								-.4140
.163		-.0038						
.177			-.1698					
.229	-.0903							
.246		-.1017						
.250				-.1847	-.3944	-.4900	-.5252	
.274			-.1389					
.315								-.6085
.390		-.1048						
.400				-.1445	-.1674		-.4631	
.402			-.1175					
.503								-.4629
.550				-.1177	-.1346			
.565			-.4174					
.600							-.3261	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL24)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.0929						
.650						-.1771		
.670								-.6165
.700					-.1986			
.725				-.1832				
.750						-.2372	-.2638	
.760			-.2173					
.775				-.2572	-.2652			
.798		-.1910						
.808			-.2904					
.834	-.2045							
.839		-.2864						
.850				-.3411	-.2569	-.3249		
.857			-.3179					
.862								-.5172
.865	-.2648							
.879		-.3279						
.900	-.2429			-.4002			-.3574	
.905			-.3996					
.919		-.3395						
.950				-.4220	-.3882	-.3985		
.953			-.4193					
.955		-.3550						
.965	-.3733							
1.000			-.1370		-.2469		-.1379	

ALPHA (1) = -3.980 BETA (3) = 4.277 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0920	-.0480	.0154	-.3908	-.5395	-.4284	-.4173	
.020	.0000	-.0592	.0016	-.5273	-.5735	-.6092	-.6135	-.6887
.040		-.0511	-.0948					
.050	-.1035			-.4489	-.586.	-.6339	-.6393	
.069								-.6875
.080				-.3759				
.081			-.1076					
.086		-.0115						
.094	-.0934							
.150				-.2102	-.4684	-.5440	-.5717	
.157								-.4191
.163		.0562						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (1) = -3.980 BETA (3) = 4.277

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B=	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1073					
.239	-.0607							
.246		-.0471						
.250				-.1385	-.1876	-.4092	-.5337	
.274			-.0905					-.6258
.345								
.340		-.0606						
.400				-.1082	-.1335		-.3672	
.412			-.0876					-.5691
.513				-.0965	-.1107			
.615			-.3411					
.615							-.1558	
.640		-.0770						
.660						-.1622		-.2873
.712					-.1864			
.744				-.1803				
.744						-.2354	-.2307	
.771			-.2115					
.771				-.2579	-.2569			
.771		-.1669						
.771			-.2330					
.771	-.2077							
.817		-.2758						
.850				-.3379	-.2745	-.3282		
.857			-.3126					
.868								-.3200
.868	-.2608							
.879		-.3159						
.911	-.2486			-.4001			-.3482	
.935			-.3902					
.938		-.3322						
.938				-.4377	-.3922	-.4000		
.938			-.4059					
.971		-.3448						
.976	-.3857							
1.000			-.1489		-.2745		-.1613	

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING BOT (XEBL24)

ALPHA (2) = .039 BETA (1) = -3.875 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B=	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0018	.0101	.2012	-.1825	-.2959	-.2176	-.1363	
.060	.0000	-.0224	.1713	-.3331	-.3502	-.3631	-.3909	-.3321
.040		-.0200	-.0145					
.060	-.0338			-.2483	-.3339	-.3816	-.4023	
.069								-.3637
.080				-.2209				
.091			-.0525					
.088		.0196						
.094	-.0564							
.150				-.1445	-.2285	-.2751	-.3193	
.167								-.2424
.163		.0895						
.177			-.0658					
.229	-.0590							
.240		-.0352						
.250				-.0860	-.1008	-.2005	-.2693	
.274			-.0599					
.345								-.2133
.330		-.0473						
.400				-.0678	-.0706		-.1252	
.402			-.0558					
.503								-.1420
.550				-.0340	-.0508			
.545			-.4357					
.600							-.1114	
.637		-.0274						
.650						-.1016		
.670								-.2572
.710					-.1306			
.745				-.1166				
.750						-.1639	-.1877	
.763			-.1427					
.775				-.1943	-.2001			
.748		-.1308						
.809			-.2187					
.834	-.1486							
.833		-.2232						
.850				-.2871	-.2594	-.3818		
.857			-.2605					
.892								-.3438
.845	-.1993							
.879		-.2802						
.910	-.1759			-.3456			-.3364	
.905			-.3469					
.919		-.2919						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL24)

ALPHA (2) = .039 BETA (1) = -3.875

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8970	.9720
X/Cw								
.950				-.3775	-.2909	-.3814		
.953			-.3844					
.955		-.2857						
.965	-.2740							
1.000			-.0580		-.1944		-.2303	

ALPHA (2) = .042 BETA (2) = .180 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8970	.9720
X/Cw								
.010	-.0385	.0047	.2576	-.1624	-.3117	-.2541	-.1794	
.020	.0010	-.0146	.2218	-.1936	-.2917	-.3770	-.4193	-.3299
.040		.0069	.0455					
.060	-.0491			-.1740	-.2646	-.3651	-.4214	
.080								-.3216
.090				-.1466				
.081			-.0020					
.098		.0460						
.100	-.0883							
.120				-.1039	-.1669	-.2397	-.3233	
.140								-.2221
.161		.1136						
.180			-.0364					
.200	-.0445							
.240		-.0017						
.260				-.0547	-.0789	-.0813	-.1189	
.280			-.0290					
.300								-.1096
.320		-.0126						
.340				-.0233	-.0285		-.0842	
.360			-.0162					
.380								-.1380
.400				-.0179	-.0261			
.420			-.4622					
.440							-.0909	
.460		-.0074						
.480						-.0813		
.500								-.2466
.520					-.1198			
.540				-.1084				
.560						-.1573	-.1805	
.580			-.1419					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL24)

ALPHA (2) = .042 BETA (2) = .180

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1911	-.1874			
.798		-.1340						
.809			-.2126					
.834	-.1440							
.839		-.2215						
.850				-.2767	-.2692	-.2763		
.857			-.2546					
.862							-.3336	
.865	-.2006							
.879		-.2727						
.900	-.1807			-.3455			-.3299	
.905			-.3412					
.919		-.2768						
.950				-.3838	-.2873	-.3758		
.953			-.3702					
.955		-.2879						
.966	-.2975							
1.000			-.1009		-.2098		-.1273	

ALPHA (2) = .044 BETA (3) = 4.251 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	/20
X/CW								
.010	-.1200	-.0625	.2897	-.0477	-.2545	-.2640	-.1969	
.020	.0000	-.0383	.2583	-.0571	-.1732	-.3413	-.4193	-.[illegible]
.040		-.0174	.1167					
.[illegible]2	-.0840			-.1048	-.2250	-.2712	-.3453	
.[illegible]9								-.1[illegible]
.082				-.0746				
.091			.0519					
.[illegible]5		.0505						
.094	-.0891							
.[illegible]				-.0611	-.0866	-.0973	-.1172	
.[illegible]								-.151[illegible]
.[illegible]3		.1279						
.[illegible]7			.0004					
.229	-.0545							
.245		.0360						
.250				-.0160	-.0451	-.0578	-.0899	
.274			.0113					
.345								-.1023
.350		.0219						

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING BOT (XE8L24)

ALPHA (2) = .044 BETA (3) = 4.251

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.400				-.0023	.0056		-.0592	
.402			.0102					
.503								-.1192
.550				-.0065	-.0078			
.565			-.4278					
.600							-.0875	
.637		.0014						
.650						-.0757		
.700								-.2560
.705					-.1108			
.750				-.1062				
.751						-.1676	-.1892	
.775			-.1424					
.800				-.1934	-.1837			
.801		-.1301						
.850			-.2080					
.851	- .1.0							
.875		-.2114						
.900				-.2727	-.2463	-.2817		
.901			-.2468					
.950								-.3560
.951	-.2017							
.975		-.2661						
1.000	-.1892			-.3422			-.3445	
1.001			-.3343					
1.025		-.2723						
1.050				-.3862	-.3053	-.3753		
1.051			-.3519					
1.075		-.2811						
1.100	-.3033							
1.101			-.1284		-.2441		-.1364	

ALPHA (3) = 3.904 BETA (1) = -3.872 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6330	.7800	.8870	.9720
X/Cw								
.010	.0374	-.0420	.4838	.2319	.1289	.1288	.1598	
.040	.0000	-.0020	.3947	.1283	.1104	.0474	-.0096	.0740
.050		.0218	.2094					
.060	.0470			.0449	-.0039	.0296	.0107	
.080				.0480				.0328

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (3) = 3.904 BETA (1) = -3.872

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1254					
.086		.0955						
.094	.0140							
.150				.0370	.0486	.0720	.0775	
.157								-.0873
.163		.2001						
.177			.0744					
.229	-.0055							
.246		.0775						
.250				.0669	.0657	.0782	.0429	
.274			.0711					
.345								.0031
.390		.0708						
.400				.0735	.0921		.0493	
.402			.0616					
.603								-.0283
.550				.0709	.0814			
.565			-.4688					
.600							-.0087	
.637		.0649						
.650						.0054		
.670								-.1833
.700					-.0475			
.725				-.0387				
.750						-.0798	-.1041	
.760			-.0717					
.775				-.1461	-.1167			
.798		-.0662						
.800			-.1317					
.824	-.0812							
.829		-.1616						
.850				-.2125	-.2798	-.2284		
.857			-.1958					
.862								-.2863
.875	-.1244							
.879		-.2213						
.900	-.1447			-.2896			-.2782	
.905			-.2797					
.919		-.2528						
.950				-.3538	-.2791	-.3475		
.953			-.3333					
.955		-.2242						
.965	-.1995							
1.000			-.0451		-.1079		-.2891	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (3 = 3.905 BETA (2) = .182 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION (1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

ZY/BW	.1400	.3644	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
.010	-.0870	-.2205	.3634	.2802	.1579	.1461	.1830	
.020	.0000	.1067	.3648	.1718	.1305	.0817	.0374	.0229
.040		-.0702	.2437					
.050	-.0191			.1009	.0331	.0632	.0499	
.059								.0015
.080				.0892				
.081			.1465					
.095		.0606						
.094	-.0272							
.150				.0597	.0906	.0860	.0796	
.157								-.1006
.163		.1967						
.177			.0858					
.229	-.0235							
.246		.0351						
.250				.0863	.0782	.0803	.0395	
.274			0979					
.345								-.0122
.350		.0867						
.400				.0927	.1108		.0673	
.406			.0841					
.443								-.0454
.450				.0986	.0925			
.455			-.5226					
.500							-.0165	
.501		.0843						
.550						.0049		
.570								-.2088
.600					-.0468			
.650				-.0312				
.651						-.0969	-.1139	
.700			-.0745					
.701				-.1352	-.1126			
.751		-.0556						
.800			-.1240					
.801	-.0784							
.849		-.1567						
.850				-.2115	-.2854	-.2330		
.851			-.1911					
.902								-.3187
.905	-.1366							
.879		-.2207						
.900	-.1485			-.2847			-.2893	
.905			-.2791					
.919		-.2395						

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (3) = 3.905 BETA (2) = .182

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.3547	-.2790	-.3478		
.953			-.3234					
.955		-.2290						
.965	-.1989							
1.000			-.0984		-.1136		-.2503	

ALPHA (3) = 3.915 BETA (3) = 4.245 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2454	-.3693	.2819	.3361	.2025	.2269	.2374	
.020	.0000	-.2166	.3190	.2333	.1749	.1651	.1181	-.0436
.040		-.1682	.2587					
.060	-.0938			.1637	.0859	.1093	.1141	
.080								-.0343
.080				.1291				
.081			.1761					
.088		.0139						
.094	-.0721							
.150				.0969	.1208	.1116	.1083	
.157								-.1161
.163		.1728						
.177			.1110					
.229	-.0571							
.245		.1015						
.250				.1105	.1008	.1076	.0741	
274			.1186					
.345								-.0449
330		.1106						
.400				.1131	.1403		.0922	
.402			.1098					
.503								-.0833
.500				.0967	.1013			
.505			-.4551					
.600							-.0227	
.637		.0940						
.650						.0070		
.672								-.2379
.700					-.0451			
.705				-.0291				
.750						-.1216	-.1230	
.800			-.0715					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (3) = 3.915 BETA (3) = 4.245

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/LW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.1286	-.1128			
.798		-.0652						
.808			-.1176					
.834	-.0737							
.838		-.1445						
.850				-.2041	-.2873	-.2400		
.857			-.1855					
.862							-.3608	
.865	-.1389							
.879		-.2090						
.900	-.1401			-.2823			-.3144	
.906			-.2747					
.919		-.2183						
.938				-.3531	-.2823	-.3510		
.953			-.2928					
.972		-.2249						
.975	-.2051							
.988			-.1472		-.1399		-.2307	

ALPHA (3) = -.877 BETA (1) = -3.867 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/LW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.711	-.0318	-.2705	.3398	.5417	.4787	.5528	.5744	
.738	.0000	-.0960	.4518	.4072	.4150	.4366	.4490	.0904
.747		-.0174	.4071					
.771	-.1930			.3103	.3036	.3358	.3706	
.791								.1274
.797				.2647				
.807			.2674					
.817		.1234						
.838	.0628							
.851				.2139	.2719	.2964	.2871	
.867								-.0507
.872		.2850						
.877			.2024					
.889	.0536							
.905		.1701						
.920				.2152	.2303	.2691	.2320	
.934			.1938					
.946								.0783
.959		.1810						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (4) = 7.877 BETA (1) = -3.867

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2124	.2876		.2227	
.462			.1936					
.503								.0416
.550				.1956	.1846			
.565			-.5129					
.600							.0721	
.637		.1640						
.650						.1004		
.670								-.1303
.700					.0326			
.725				.0409				
.750						-.0279	-.0484	
.760			-.0041					
.775				-.0788	-.0515			
.788		.0034						
.808			-.0563					
.825	.0002							
.839		-.0993						
.850				-.1478	-.2551	-.1817		
.857			-.1298					
.862								-.2606
.865	-.0580							
.879		-.1676						
.900	-.1069			-.2379			-.2268	
.905			-.2226					
.918		-.2026						
.950				-.3179	-.2682	-.3140		
.953			-.2874					
.955		-.1862						
.965	-.1225							
1.000			-.0942		-.2304		-.4672	

ALPHA (4) = 7.882 BETA (2) = .178 MACH = 1.2474 Q = 600.25 P = 551.11 PN/L = 3.0132

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2137	-.4592	.2244	.5456	.4979	.5511	.5596	
.020	.0000	-.2012	.3391	.4370	.4403	.4535	.4608	-.0384
.040		-.1393	.3249					
.060	-.0161			.3430	.3430	.3526	.3833	
.080								.0252
.090				.2862				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (4) = 7.892 BETA (2) = .178

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B=	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.091			.2531					
.096		.0367						
.094	.0050							
.150				.2488	.2850	.3035	.3001	
.157								-.0783
.163		.2345						
.177			.2007					
.209	.0363							
.246		.1555						
.251				.2314	.2520	.2897	.2370	
.274			.2173					
.346								.0315
.390		.1986						
.401				.2359	.2921		.2168	
.411			.2080					
.533								.0040
.541				.2115	.2028			
.561			-.5449					
.611							.0654	
.637		.1908						
.686						.0974		
.711								-.1675
.736					.0366			
.761				.0534				
.786						-.0446	-.0600	
.811			.0063					
.836				-.0558	-.0397			
.861		.0184						
.886			-.0413					
.911	.0054							
.936		-.0942						
.961				-.1354	-.2543	-.1801		
.986			-.1233					
1.011								-.3039
1.036	-.0048							
1.061		-.1641						
1.086	-.0871			-.2229			-.2438	
1.111			-.2200					
1.136		-.1818						
1.161				-.3098	-.2660	-.3081		
1.186			-.2607					
1.211		-.1241						
1.236	-.1373							
1.261			-.1483		-.1690		-.4375	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (α) = 7.882 BETA (β) = 4.244 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3927	-.5244	.0654	.5058	.4751	.5257	.5244	
.020	.0000	-.3043	.2043	.4273	.4376	.4412	.4645	-.1976
.040		-.2403	.2617					
.050	-.1096			.3409	.3444	.3490	.3962	
.069								-.0909
.080				.2806				
.091			.2121					
.096		-.0333						
.094	-.0569							
.150				.2465	.2792	.3133	.2959	
.157								-.1244
.164		.1758						
.177			.2033					
.229	-.0149							
.248		.1331						
.300				.2334	.2689	.2917	.2282	
.304			.2270					
.345								-.0181
.350		.2024						
.400				.2544	.2775		.1991	
.402			.2273					
.503								-.0499
.550				.1979	.1918			
.555			-.4951					
.600							.0449	
.637		.1917						
.650						.0758		
.670								-.2118
.700					.0292			
.725				.0424				
.750						-.0688	-.0897	
.760			.0045					
.775				-.0522	-.0477			
.799		.0054						
.808			-.0364					
.824	.0031							
.839		-.0783						
.850				-.1344	-.2625	-.1929		
.867			-.1199					
.880								
.895	-.0716							-.3473
.897		-.1498						
.904	-.0758			-.2255			-.2675	
.905			-.2136					
.919		-.1664						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL24)

ALPHA (1) = 7.882 BETA (3) = 4.244

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.0950				-.3043	-.2513	-.3039		
.1403			-.2343					
.1855		-.1974						
.2308	-.1595							
.3000			-.1821		-.1620		-.4436	

ALPHA (5) = 11.916 BETA (1) = -3.950 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.0950	-.1101	-.1241	.0368	.6940	.6917	.7397	.7302	
.1403	-.0311	-.1077	-.4469	.6048	.6414	.6733	.6669	-.0317
.1855		-.0444	.4638					
.2308	.0736			.4992	.5334	.5760	.5833	
.3000								.0789
.4000				.4405				
.5000			.4001					
.6000		.1838						
.7000	.1031							
.8000				.3959	.4622	.4960	.4513	
.9000								-.0471
.9500		.3729						
.9750			.3434					
.9923	.3223							
.9975		.2766						
1.0000				.3748	.4265	.4384	.3797	
1.0050			.3405					
1.0100								.1235
1.0150		.3147						
1.0200				.3729	.4013		.3308	
1.0250			.3598					
1.0300								.0969
1.0350				.3024	.2936			
1.0400			-.5267					
1.0450							.1586	
1.0500		.2831						
1.0550						.1816		
1.0600								-.0924
1.0700					.1113			
1.0800				.1222				
1.0900						.0359	.0072	
1.0950			.0577					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA S = 11.918 BETA (1) = -3.850

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Cw	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				.0024	.0141			
.793		.0772						
.808			.0145					
.834	.0636							
.839		-.0413						
.850				-.0827	-.2013	-.1162		
.857			-.0655					
.882								-.2352
.886	-.0054							
.879		-.1235						
.900	-.0329			-.1814			-.1674	
.905			-.1750					
.919		-.1283						
.950				-.2655	-.2415	-.2542		
.953			-.2315					
.955		-.1394						
.965	-.0791							
1.000			-.1883		-.3021		-.5393	

ALPHA (5) = 11.922 BETA (2) = .186 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Cw	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X Cw								
.010	-.3484	-.4931	.1060	.6273	.6466	.6644	.6479	
.020	.0000	-.2194	.2820	.5726	.6152	.6332	.6237	-.1923
.040		-.1483	.3703					
.070	-.0165			.4904	.5315	.5572	.5632	
.094								-.0371
.096				.4375				
.091			.3382					
.100		.0725						
.104	.0428							
.150				.3974	.4592	.4817	.4352	
.167								-.0872
.178		.3052						
.179			.3302					
.219	.0846							
.240		.2328						
.270				.3805	.4176	.4328	.3631	
.274			.3439					
.345								
.390		.3321						.0622

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING BOT (XE8L24)

ALPHA S) = 11.988 BETA (2) = .186

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Zm	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cm								
.4000				.3670	.3912		.3080	
.4502			.3677					
.5003								.0419
.5501				.2977	.2914			
.6000			-.5715					
.6501							.1378	
.7000		.2934						
.7501						.1597		
.8000								-.1273
.8501					.1171			
.9000				.1230				
.9501						.0165	-.0112	
.9750			.0695					
.9900				.0227	.0196			
.9950		.1730						
.9975			.0263					
.9990	OPBL							
1.0000		-.0178						
1.0010				-.0883	-.2009	-.1294		
1.0025			-.0663					
1.0050								-.2732
1.0100		.2108						
1.0150			-.1017					
1.0200		-.2884		-.1744			-.1824	
1.0250			-.1732					
1.0300		.1317						
1.0350				-.2654	-.2.75	-.2431		
1.0400			-.1939					
1.0450		-.1459						
1.0500	-.1104							
1.0550			-.2384		-.2405		-.5652	

ALPHA (= 11.988 BETA (3 = -.285 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/Zm	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/Cm								
.4000	-.4981	-.5456	-.2923	.5196	.5628	.5601	.5420	
.4502	-.4000	-.3301	-.1086	.5127	.5608	.5800	.5585	-.3177
.5003		-.3574	-.2710					
.5501	-.3870			.4578	.5129	.5261	.5197	
.6000				.4733				-.1399

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AMES 11-073(OA1+8) -140A/B/C/R ORB LEFT WING BOT (XE8L24)

ALPHA (α) = 11.922 BETA (β) = 4.255

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/C	.4270	.5340	.6730	.7800	.8870	.9720
.081	.2591					
.065	-.0109					
.034	-.0320					
.160		.3770	.4416	.4654	.4087	
.104						-.1366
.123	.2382					
.177	.3042					
.119	.0330					
.245	.1683					
.314	.3438	.3727	.4031	.4139	.3441	
.388						.0027
.458	.3130					
.472		.3540	.3731		.2826	
.518	.3521					
.550						-.0051
.582		.2838	.2747			
.618	-.5209					
.652					.1162	
.686	.2715					
.720				.1485		
.755						-.1527
.789			.1168			
.825		.1156				
.859				.0089	-.0243	
.893	.0612					
.927		.0246	.0201			
.961	.0694					
.995	.0209					
1.000	.0605					
.995	-.0318					
.961		-.0734	-.2291	-.1396		
.927	-.0707					
.893						-.2950
.859	-.0204					
.825	-.0378					
.789	-.0306	-.1722			-.2040	
.755	-.1593					
.720	-.1211					
.686		-.2542	-.1960	-.2377		
.652	-.1839					
.618	-.1523					
.582	-.1383					
.550	-.2459		-.1984		-.5411	

AMES 11-073(OA148) -140A/B/C/P ORB LEFT WING BOT (XE8L25) (08 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 930.1680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .1000

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = .000 L-ELVN = .000
P-ELVN = .000 MACH = 1.100

ALPHA (I) = -3.988 BETA (I) = -3.8+2 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION I LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z+B=	.0990	.3840	.4270	.5340	.6730	.7800	.8870	.9720
* X=								
	- .855	-.33+1	- 0842	- 8167	- 7383	-.5639	-.5493	
	0000	- 2188	- 3767	-.77+3	- 7857	-.6012	-.5134	-.8398
		- 248	- +075					
	-.1409			-.7255	-.6072	-.63+0	-.8387	
				-.7041				-.9261
			- 2328					
	- 160							
				-.+838	-.6944	-.7336	-.7627	
		- 7702						-.5361
			- 2+10					
	- 1426							
		-.375						
			- .687	- 3628	-.5739	-.665.	-.6970	
		-.601						-.8765
				- 1550	- 1599		-.6179	
			-.1260					
				-.1246	-.1433			-.8618
			- 4419					
		-.1183					-.2803	
						-.1610		
					-.2347			-.7702
				- 2+57				
						-.2695	-.2590	
			-.2683					
				-.3+96	-.3051			
		- 2+23						
			-.3766					
	- 2+53							
		- 7810						
				-.+245	-.3580	-.3837		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL25)

ALPHA (1) = -3.988 BETA (1) = -3.842

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.4253					
.862								-.5734
.865	-.3491							
.879		-.4154						
.900	-.3148			-.4868			-.3982	
.905			-.5075					
.919		-.4311						
.950				-.2304	-.4782	-.4402		
.953			-.1885					
.956		-.1970						
.965	-.3446							
1.000			-.0823		-.1523		-.0981	

ALPHA (1) = -3.982 BETA (2) = .191 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1417	-.1691	-.1284	-.6186	-.7690	-.6077	-.6149	
.020	.0000	-.1776	-.1451	-.7687	-.8130	-.8398	-.8566	-.9109
.040		-.1603	-.2646					
.060	- .342			-.6841	-.8211	-.8707	-.8826	
.089								-.9185
.080				-.6352				
.081			-.1897					
.090		-.0598						
.094	-.1434							
.100				-.2891	-.6830	-.7659	-.7953	
.157								-.5386
.163		.0135						
.177			-.1907					
.229	-.1161							
.246		-.0859						
.260				-.1848	-.2296	-.5985	-.7350	
.274			-.1406					
.345								-.8836
.370		-.1031						
.400				-.1269	-.1200		-.3907	
.472			-.1139					
.503								-.7564
.540				-.1238	-.1490			
.585			-.5566					
.600							-.1575	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (1) = -3.982 BETA (2) = .191

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.637		-.1097						
.650						-.1788		
.670								-.4494
.700					-.2515			
.725				-.2475				
.750						-.2898	-.2567	
.767			-.2819					
.775				-.3467	-.3221			
.788		-.2401						
.800			-.3781					
.812	-.2530							
.838		-.3666						
.850				-.4418	-.3880	-.3914		
.862			-.4214					
.875								-.5001
.888	-.3303							
.913		-.4227						
.925	-.3316			-.5099			-.4211	
.938			-.5138					
.950		-.4439						
.963				-.4091	-.4758	-.4674		
.975			-.3922					
.988		-.4384						
.995	-.4732							
1.000			-.1225		-.1887		-.1390	

ALPHA (1) = -3.997 BETA (3) = 4.273 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1681

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1247	-.0824	.0472	-.5775	-.7714	-.6368	-.6532	
.020	.0000	-.0569	.0211	-.7043	-.8092	-.8528	-.8764	-.8224
.040		-.0375	-.0999					
.060	-.1003			-.5706	-.7504	-.8409	-.8584	
.080								-.7597
.090				-.2921				
.100			-.0764					
.120		.0741						
.140	-.1037							
.160				-.2175	-.3069	-.6470	-.7972	
.180								-.4238
.190		.1229						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (1) = -3.987 BETA (3) = 4.273

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.1075					
.229	-.0651							
.246		.0048						
.250				-.1408	-.1928	-.2610	-.4758	
.274			-.0730					
.345								-.6006
.390		-.0370						
.400				-.1089	-.1169		-.2216	
.402			-.0856					
.503								-.4876
.550				-.1286	-.1516			
.565			-.4109					
.600							-.2047	
.637		-.1150						
.650						-.2021		
.670								-.3583
.700					-.2705			
.725				-.2536				
.750						-.3084	-.3101	
.760			-.2883					
.775				-.3586	-.3485			
.798		-.2444						
.808			-.3730					
.834	-.2581							
.849		-.3539						
.850				-.4517	-.4362	-.4297		
.857			-.3998					
.887								-.4243
.865	-.3472							
.879		-.3960						
.910	-.3232			-.5259			-.4575	
.907			-.4966					
.919		-.4146						
.950				-.5552	-.4709	-.5267		
.963			-.5051					
.965		-.4394						
.965	-.4641							
1.000			-.1810		-.2672		-.1838	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (2) = .056 BETA (1) = -3.867 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3840	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0424	-.0041	.2116	-.3392	-.4746	-.3929	-.3152	
.020	.0000	-.0422	.1204	-.4919	-.5475	-.5641	-.5937	-.4244
.040		-.0196	-.0546					
.050	-.0876			-.3205	-.4488	-.5589	-.5845	
.069								-.4218
.080				-.2642				
.081			-.0577					
.083		.0298						
.091	-.1013							
.150				-.1772	-.2151	-.3633	-.4616	
.157								-.1753
.163		.0970						
.177			-.0774					
.189	-.0745							
.196		-.0186						
.250				-.0489	-.0904	-.0870	-.0733	
.274			-.0252					
.345								-.0832
.372		.0077						
.400				.0189	.0156		-.0045	
.408			.0161					
.503								-.1503
.540				- 0105	-.0372			
.565			-.0152					
.610							-.1234	
.671		.0065						
.700						-.0877		
.734								-.3132
.750					-.1506			
.769				-.1612				
.771						-.2328	-.2695	
.777			-.1777					
.795				-.2410	-.2380			
.794		-.1754						
.800			-.2701					
.814	-.1684							
.833		- 2901						
.850				-.3565	-.2683	-.3695		
.857			-.3211					
.882								-.4052
.918	-.2456							
.929		-.3421						
.933	-.2312			-.4166			-.4289	
905			-.4223					
919		-.3571						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (2) = .056 BETA (2) = -3.867

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.2932	-.4655	-.3962		
.953			-.1447					
.955		-.2327						
.965	-.3471							
1.000			-.0164		-.1348		-.0438	

ALPHA (2) = .058 BETA (2) = .181 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1004	-.0072	.2903	-.2792	-.4637	-.4168	-.3362	
.020	.0000	-.0119	.2174	-.2605	-.3895	-.5430	-.5894	-.2253
.040		.0066	.0625					
.060	-.1065			-.2293	-.3559	-.4490	-.4686	
.080				-.1650				-.2172
.081			.0069					
.086		.0648						
.094	-.1093							
.150				-.1204	-.0710	-.0721	-.1265	
.157								-.1660
.163		.1598						
.177			-.0304					
.229	-.0624							
.246		.0218						
.250				-.0243	-.0527	-.0690	-.1180	
.274			.0009					
.345								-.1067
.390		.0182						
.400				.0210	.0384		-.0254	
.422			.0171					
.503								-.1638
.550				-.0012	-.0384			
.565			-.6168					
.600							-.1537	
.637		-.0093						
.650						-.1151		
.670								-.3128
.700					-.1688			
.725				-.1652				
.750						-.2555	-.2884	
.780			-.1970					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (2) = .059 BETA (2) = .181

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2577	-.2589			
.798		-.1647						
.808			-.2892					
.834	-.1648							
.839		-.2745						
.850				-.3729	-.3247	-.3988		
.857			-.3167					
.862							-.4082	
.865	-.2488							
.879		-.3344						
.900	-.2192			-.4530		-.4472		
.906			-.4108					
.919		-.3348						
.950				-.4391	-.4374	-.5004		
.953			-.3538					
.956		-.3437						
.966	-.3570							
1.000			-.0540		-.1688		-.1327	

ALPHA (2) = .059 BETA (2) = -.249 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.018	-.6211	-.0391	.2519	-.0740	-.2987	-.3525	-.2957	
.040	.0000	.0062	.3057	-.0937	-.2435	-.3529	-.4493	-.1648
.043		.0254	.1706					
.060	-.1060			-.0889	-.2278	-.2660	-.3343	
.064				-.0639				-.1719
.081			.0894					
.087		.1408						
.094	-.1188							
.102				-.0253	-.0447	-.0817	-.1167	
.157								-.1757
.163		.2300						
.177			.0443					
.279	-.0570							
.296		.0896						
.250				.0045	-.0414	-.0609	-.1045	
.274			.0464					
.345								-.1434
.380		.0855						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (2) = .056 BETA (3) = 4.249

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0224	.0196		-.0486	
.402			.0339					
.503								-.1981
.550				-.0284	-.0538			
.565			-.5095					
.600							-.1764	
.637		-.0180						
.650						-.1274		
.670								-.3272
.700					-.1899			
.705				-.1785				
.750						-.2681	-.2922	
.760			-.1822					
.775				-.2899	-.2707			
.798		-.1794						
.808			-.2638					
.84.	-.1745							
.839		-.2717						
.850				-.3683	-.3694	-.4033		
.857			-.3187					
.862								-.4044
.865	-.2593							
.879		-.3320						
.900	-.2439			-.4466			-.4569	
.905			-.4200					
.919		-.3453						
.950				-.4926	-.4119	-.5100		
.953			-.4374					
.955		-.3684						
.965	-.3733							
1.000			-.1221		-.2159		-.1755	

ALPHA (3) = 3.948 BETA (1) = -3.771 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0372	-.0696	.4564	.1899	.1091	.1971	.2431	
.020	.0000	-.0129	.3990	.0542	.0805	.0926	.0883	.0693
.040		.0204	.2360					
.050	-.0217			.0482	.0402	.0641	.0914	
.060								.0394
.080				.0399				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (3) = 3.948 BETA (1) = -3.871

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.1316					
.086		.1139						
.094	-.0466							
.150				.1000	.1258	.1330	.0990	
.157								-.0831
.163		.2297						
.177			.0785					
.229	-.0457							
.246		.0865						
.250				.1338	.1346	.1306	.0672	
.274			.1344					
.346								-.0269
.350		.1494						
.400				.1495	.1641		.0838	
.426			.1725					
.446								-.0807
.450				.0885	.0672			
.550			- 5235					
.554							-.0683	
.650		0877						
.654						-.0304		
.750								-.2580
.754						-.1073		
.785				-.0859				
.850						-.1686	-.2021	
.854			-.1345					
.950				-.1903	-.1990			
.954		-.1126						
1.000			- 2225					
	-.1388							
		-.2372						
				-.3181	-.2997	-.3255		
			-.2846					
								-.3909
.655	-.2107							
.750		-.3153						
.754	-.2074			-.3953			-.3866	
.805			-.3331					
.850		-.3229						
.950				-.4050	-.3706	-.4572		
.953			-.2965					
.955		-.2947						
.965	-.3145							
1.000			.0009		-.1292		-.2095	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (3) = 3.948 BETA (2) = .177 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1697	-.2006	.4382	.2760	.1835	.2666	.2931	
.020	.0000	-.0810	.4211	.1631	.1669	.1726	.1539	.0030
.040		-.0382	.2881					
.050	-.0852			.1391	.1073	.1274	.1407	
.069								-.0017
.080				.1173				
.081			.1846					
.086		.1108						
.094	-.0845							
.100				.1391	.1574	.1619	.1100	
.157								-.1054
.163		.2659						
.177			.1402					
.229	-.0547							
.246		.1368						
.250				.1428	.1536	.1481	.0720	
.274			.1528					
.345								-.0658
.390		.1626						
.400				.1648	.1695		.0753	
.402			.1767					
.503								-.1184
.550				.0931	.0659			
.555			-.6596					
.600							-.0845	
.637		.0955						
.65						-.0488		
.670								-.2894
.700					-.1081			
.725				-.0866				
.750						-.1625	-.2224	
.760			-.1253					
.775				-.1965	-.1895			
.798		-.1086						
.808			-.2037					
.834	-.1177							
.839		-.2245						
.850				-.3019	-.2876	-.3425		
.857			-.2699					
.892								-.4399
.865	-.2088							
.879		-.2995						
.900	-.1988			-.3900			-.4045	
.905			-.3835					
.919		-.3048						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (3) = 3.948 BETA (2) = .177

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.4210	-.3619	-.4424		
.953			-.3922					
.956		-.3079						
.958	-.2996							
1.000			-.0204		-.1147		-.2329	

ALPHA (3) = 3.960 BETA (3) = 4.239 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION 1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

BY BW	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X CW								
[illegible]	[illegible]	[illegible]	.4034	.3755	.2618	.3111	.3160	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.1351
[illegible]	[illegible]	[illegible]	3497					
[illegible]	[illegible]			.2.49	.1639	.1569	.1689	
[illegible]								-.1025
[illegible]				1879				
[illegible]			1086					
		0742						
[illegible]								
				1099	.1669	.1656	.1135	
								-.1518
[illegible]		0749						
[illegible]			959					
[illegible]	[illegible]							
		1136						
				1701	.1503	.1522	.0823	
			.052					
[illegible]								- 1283
[illegible]		.1693						
[illegible]				.1547	.1557		.0561	
[illegible]			.1776					
[illegible]								-.1650
				.0844	.0558			
.5[illegible]			-.5818					
[illegible]							-.1037	
[illegible]		0842						
[illegible]						-.0735		
.8[illegible]								-.3342
[illegible]					-.1175			
[illegible]				-.0977				
[illegible]						-.1978	-.2473	
[illegible]			-.1390					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (3) = 3.880 BETA (3) = 4.239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				-.2111	-.2036			
.798		-.1119						
.808			-.2111					
.834	-.1235							
.833		-.2324						
950				-.3073	-.3205	-.3582		
.857			-.2768					
.892								-.4851
.885	-.2183							
.873		-.3005						
.900	-.2178			-.4029			-.4304	
.905			-.3817					
.913		-.3179						
.951				-.4550	-.3627	-.4527		
.953			-.4031					
.955		-.3301						
.965	-.3155							
1.000			-.1007		-.1619		-.3142	

ALPHA (4) = 7.932 BETA (1) = -3.857 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1239	-.3841	.4722	.6056	.5673	.6244	.6063	
.000	.0000	-.1539	.3425	.4854	.5013	.5196	.5004	-.0260
.007		-.0874	.4727					
.011	.0775			.3301	.4081	.4078	.4087	
.019								.0377
.040				.3434				
.031			.3668					
.050		.0972						
.074	.0105							
.110				.3182	.3445	.3457	.2876	
.152								-.0808
.163		.3580						
.171			.3072					
.219	.0128							
.246		.2708						
.250				.3065	.2925	.2879	.2207	
.274			.3024					
.345								.0056
.310		.2979						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (1) = 7.932 BETA (1) = -3.857

SECTION 1 : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.2695	.2687		.1789	
.462			.2898					
.503								-.0359
.550				.1722	.1550			
.585			-.6392					
.610							.0006	
.637		.1696						
.650						.0313		
.675								-.2160
.700					-.0502			
.725				-.0274				
.750						-.1222	-.1674	
.775			-.0788					
.800				-.1460	-.1577			
.825		-.0008						
.850			-.1432					
.875	-.1273							
.900		-.1?						
.925				-.2177	-.2081	-.2603		
.950			-.6.31					
.975								-.3561
1.000	-.1524							
1.025		-.2737						
1.050				-.2454			3344	
1.075			-.1146					
1.100		-.1.??						
1.125				-.481	-.353	-.4334		
1.150		-.0819						
1.175		-.2681						
1.200	-.1?74							
1.225			-.0.??		-.1484		-.4501	

ALPHA (2) = -7.809 BETA (2) = .185 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 2.9.2

SECTION 2 : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400	-.3.13	-.5.12	.3164	.5095	.5569	.6034	.5775	
.425	-.1.??	-.3.??	.4?54	.5?88	.5130	.5203	.4947	-.1626
.450		-.?.??	.4537					
.475	-.?.??			.4306	.4204	.4246	.4066	
.500				.3.??				-.0724

VARIABLE PRESSURE DATA - DA148 (AMES 11-OT3-1)

AMES 11-OT3(DA148) -140A/B/C/R ORB LEFT WING BOT (XEBL25)

ALPHA = 7.378 BETA (PI = .185

DEPENDENT VARIABLE CP

			.4075	.5640	.6750	.7800	.6870	.9720
			3775					
		.3186						
	-.0575							
				.3364	.3532	.3498	.2828	
								-.1089
		.3495						
			.3295					
	-.0309							
		.2778						
				.3076	.3099	.2919	.2171	
			.3033					
								-.0519
		.2944						
				.2645	.2657		.1651	
			.2852					
								-.0727
				.1767	.1553			
			-.1165					
							-.0116	
		.1732						
						.0167		
								-.2559
					-.0314			
				-.0166				
						-.1284	-.1780	
			-.0729					
				-.1337	-.1515			
		-.0495						
			-.1418					
	-.0719							
		-.1708						
				-.2401	-.3051	.2906		
			-.2117					
								-.4015
	-.1646							
		-.2492						
	-.1383			-.3594			-.3423	
			-.3276					
		-.2339						
				-.4311	-.3506	-.4202		
			-.3405					
		-.2813						
	-.1451							
			-.0375		-.0709		-.1658	

TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)

AMES 11-073(OA148) [illegible] B/C,P [illegible] LEFT WING [illegible] (NEBL25)

[illegible] BETA (B) = [illegible] MACH = 1.[illegible] Q = [illegible] P = 7[illegible] RN/L = 3.1812

[illegible] WING [illegible] SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.3840	.4470	.5340	.6730	.7800	.8870	.9720
[illegible]	[illegible]	-.4434	.1974	.5402	.5361	.5451	.5068	-.3445
		-.2531	.3473	.5175	.5003	.4893	.4610	
		-.2921	.4261					
[illegible]	-.1979			.4375	.4158	.4032	.3978	-.2052
				.3826				
			.3093					
		-.0745						
	[illegible]			.3337	.3399	.3324	.2577	-.1646
		.3443						
			.3413					
	[illegible]							
		.2989						
				.3202	.2921	.2783	.1893	
			.3102					
								-.1187
		.3040						
				.2915	.2485		.1344	
			.2781					
								-.1399
				.1595	.1364			
			-.6337					
							-.0422	
		.1544						
						-.0095		
								-.3064
					-.0371			
				-.0315				
						-.1501	-.2019	
			-.0821					
				-.1494	-.1490			
		-.0650						
			-.1434					
	-.0741							
		-.1801						
				-.2445	-.3592	-.3181		
			-.2194					
								-.4576
	-.1693							
		-.2476						
	-.1631			-.3562			-.3765	
			-.[illegible]13					
		-.2700						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL25)

ALPHA (ALPHA) = 7.937 BETA (BETA) = 4.238

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.000				-.4305	-.3332	-.4179		
.053			-.3457					
.086		-.2877						
.080	-.2652							
1.000			-.1009		-.1399		-.5322	

ALPHA (ALPHA) = 11.870 BETA (BETA) = -3.845 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2732	-.5626	.2391	.7373	.7363	.7334	.6799	
.020	.0000	-.2003	.4646	.6932	.7101	.7008	.6634	-.1990
.040		-.1116	.5638					
.061	.0137			.5972	.6188	.6092	.5868	
.080								-.0444
.080				.5376				
.131			.5204					
.240		.2202						
.320	.0635							
.160				.4755	.5029	.5004	.4282	
.167								-.0980
.240		.4760						
.320			.4624					
.320	.0883							
.480		.4068						
.640				.4387	.4318	.4195	.3448	
.640			.4309					
.800								.0602
.800		.4078						
.960				.3718	.3663		.2646	
.960			.3909					
.960								.0125
1.120				.2541	.2345			
1.120			-.6755					
1.120							.0775	
.647		.2540						
.647						.1131		
.647								-.1614
.647					.0526			
.647				.4475				

DATE 10 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (5) = 11.970 BETA (1) = -3.845

SECTION 1 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.0579	-.0926			
.798		-.0028						
.809			-.0677					
.834	-.0057							
.839		-.1246						
[illegible]				-.1836	-.3245	-.2273		
[illegible]			-.1388					
[illegible]								-.3219
[illegible]	-.0917							
[illegible]		-.2111						
[illegible]	-.0915			-.3175			-.2742	
[illegible]			-.2789					
[illegible]		-.1918						
[illegible]				-.3848	-.3099	-.3715		
[illegible]			-.2992					
[illegible]		-.2[illegible]2						
[illegible]	-.[illegible]77							
[illegible]			-.[illegible]051		-.2880		-.5570	

ALPHA ([illegible] BETA (2) = .87 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3..617

SECT[illegible] LEFT [illegible] BOT SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.6730	.7800	.8870	.9720
[illegible]	+.[illegible]	-.[illegible]75	-.[illegible]18[illegible]	[illegible]583	.6692	6281	.5869	
[illegible]	[illegible]	-.[illegible]	[illegible]	[illegible]584	.6619	.8509	.5942	-.3431
[illegible]	-.[illegible]915	-.[illegible]75	[illegible]	[illegible]964	.6001	.5814	.5426	
[illegible]				[illegible]4[illegible]8				-.1532
[illegible]			+[illegible].8					
[illegible]		.[illegible]705						
[illegible]	-.[illegible]84[illegible]			.4751	.4969	.4903	.4045	
[illegible]								-.1247
[illegible]		3690						
[illegible]			.4572					
[illegible]	3382							
[illegible]		3581						
[illegible]				.4265	.4249	.4118	.3247	
[illegible]			+[illegible]17					
345								-.0131
.790		.3825						

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (5) = 11.981 BETA (2) = .187

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.3607	.3606		.2412	
.402			.3772					
.503								-.0329
.550				.2532	.2311			
.565			-.7425					
.600							.0582	
.637		.2466						
.650						.1058		
.670								-.2115
.700					.0487			
.725				.0524				
.750						-.0757	-.1091	
.760			-.0136					
.775				-.0554	-.0836			
.798		.0019						
.808			-.0703					
.834	-.0082							
.839		-.1248						
.850				-.1737	-.3249	-.2584		
.857			-.1538					
.862								-.3748
.865	-.1056							
.879		-.1874						
.900	-.0814			-.3049			-.2968	
.905			-.2601					
.919		-.1836						
.930				-.3881	-.2878	-.3511		
.953			-.2825					
.965		-.2220						
.965	-.1921							
1.000			-.1493		-.2094		-.6051	

ALPHA (5) = 11.975 BETA (3) = 4.250 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6538	-.6856	-.1534	.5664	.5677	.5063	.4633	
.020	.0000	-.4666	.1505	.5951	.5906	.5652	.5061	-.4873
.040		-.3720	.3991					
.050	-.2049			.5542	.5528	.5234	.4787	
.059								-.2822
.080				.5041				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L25)

ALPHA (5) = 11.975 BETA (3) = 4.250

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.4566					
.085		-.0264						
.094	-.1085							
.150				.4430	.4553	.4454	.3520	
.157								-.1894
.163		.3697						
.177			.4346					
.229	-.0226							
.246		.3525						
.260				.3956	.3896	.3698	.2802	
.274			.3974					
.345								-.0992
.360		.3792						
[illegible]				.3091	.3250		.1968	
[illegible]			.3505					
[illegible]								-.1134
[illegible]				.2245	.1974			
[illegible]			-.7012					
[illegible]							.0134	
[illegible]		2264						
[illegible]						.0714		
[illegible]								-.2759
[illegible]					.0254			
[illegible]				0287				
[illegible]						-..054	-.1467	
[illegible]			-.0364					
[illegible]				-.0868	-.1025			
[illegible]		-.1331						
[illegible]			- 0419					
[illegible]	-.0229							
[illegible]		-.1394						
[illegible]				-.1958	-.3484	-.2900		
[illegible]			-.1980					
[illegible]								-.4414
[illegible]	-.1251							
[illegible]		-.1918						
[illegible]	-.1836			-.3230			-.3451	
[illegible]			-.2612					
[illegible]		-.2152						
[illegible]				-.3971	-.3047	-.3764		
[illegible]			-.2974					
[illegible]		-.2513						
[illegible]	-.2303							
[illegible]			-.2729		-.2423		-.6647	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0300 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = .900

ALPHA (1) = -3.986 BETA (1) = -3.845 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1343	-.2899	-.4947	-1.0861	-1.2520	-1.0221	-1.0363	
.020	.0000	-.2518	-.5342	-1.2526	-1.3109	-1.3278	-1.3396	-1.3583
.040		-.2261	-.6594					
.050	-.1289			-1.1602	-1.3102	-1.3652	-1.3693	
.069								-1.3394
.080				-1.0758				
.081			-.4771					
.085		-.1204						
.094	-.1222							
.150				-.6214	-1.1415	-1.2169	-1.2429	
.157								-.6949
.163		-.1759						
.177			-.4749					
.229	-.0559							
.246		-.3184						
.250				-.3962	-.4601	-.8702	-1.1879	
.274			-.3771					
.345								-.7804
.390		-.3353						
.400				-.2628	-.2620		-.4015	
.402			-.2532					
.503								-.6258
.540				-.3180	-.2853			
.544			-.7656					
.610							-.2266	
.647		-.2946						
.650						-.2655		
.670								-.4497
.700					-.3285			
.725				-.3548				
.750						-.4420	-.3856	
.780			-.3194					
.775				-.5042	-.4260			
.798		-.3044						
.808			-.5782					
.834	-.2978							
.839		-.5320						
.850				-.4797	-.4070	-.3372		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (1) = -3.986 BETA (1) = -3.845

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857			-.4963					
.862								-.3404
.865	-.4781							
.879		-.3853						
.900	-.3755			-.2126			-.2047	
.906			-.1875					
.913		-.1702						
.950				-.0753	-.2259	-.0398		
.958			-.0642					
.961		-.0780						
.965	-.0915							
1.000			.0048		-.0416		.0200	

ALPHA (1) = -3.977 BETA (2) = .190 MACH = .89940 Q = 599.79 P = 1059.2 PN/L = 3.5659

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0513	-.1258	-.3257	-1.0636	-1.2643	-1.0716	-1.0936	
.020	.0000	-.1048	-.2742	-1.2291	-1.3330	-1.3497	-1.1400	-.6968
.030		-.0888	-.2757					
.040	-.1077			-1.1052	-1.2743	-1.2607	-1.1726	
.060								-.6479
.080				-.6849				
.100			-.3397					
.140		-.0363						
.160	-.0656							
.180				-.5073	-.6564	-.9977	-.9776	
.200								-.4179
.220		-.0965						
.240			-.4026					
.260	-.0120							
.280		-.2559						
.300				-.3714	-.3916	-.5937	-.8230	
.320			-.3311					
.340								-.4983
.360		-.2916						
.400				-.2721	-.2772		-.6036	
.420			-.2533					
.440								-.4252
.460				-.3181	-.3444			
.480			-.7227					
.500							-.3436	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.657		-.2978						
.650								
.670						-.3281		
.700								-.3501
.725					-.4078			
.750				-.4308				
.760						-.4566	-.3721	
.775			-.4159					
.798					-.5487	-.4493		
.808		-.3775						
.834			-.6360					
.839	-.3674							
.850		-.5732						
.857					-.4249	-.3938	-.3783	
.862			-.4571					
.865	-.5369							-.2479
.879		-.3973						
.900	-.4281				-.1788			
.905				-.1904			-.1876	
.919		-.1951						
.950					-.0798	-.1815	-.0411	
.953			-.0858					
.965		-.1164						
.965	-.1276							
1.000			-.0299		-.0172		-.0185	

ALPHA (1) = -3.985 BETA (3) = 4.276 MACH = .89940 Q = 599.79 P 1059.2 RN/L = .359

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0049	-.0026	-.1589	-1.0343	-1.2811	-1.0910	-.9872	
.020	.0000	.0007	-.2122	-1.0924	-1.3027	-1.1728	-.9612	-.7018
.040		.0171	-.3069					
.050	-.0162			-.6949	-1.2334	-1.1521	-.8876	
.079								-.6526
.080				-.5399				
.081			-.3092					
.086		.0337						
.094	-.0226							
.150				-.4356	-.5071	-.9062	-.8351	
.157								-.4101
.163		-.0313						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (1) = -3.985 BETA (3) = 4.276

SECTION : 1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3130					
.229	.0115							
.245		-.2096						
.250				-.3343	-.3744	-.5689	-.7381	
.274			-.2813					
.345								-.5377
.390		-.2454						
.400				-.2503	-.2694		-.5647	
.402			-.2279					
.503								-.4955
.550				-.3132	-.3701			
.565			-.7689					
.600							-.4619	
.637		-.2850						
.650						-.4334		
.670								-.3454
.700					-.5085			
.[illegible]				-.4805				
.[illegible]						-.6000	-.4512	
.750			-.4689					
.775				- 6209	-.5395			
.799		-.4071						
.808			-.6572					
.824	-.3948							
.839		-.6032						
.850				-.3527	-.4091	-.4904		
.857			- 3602					
.862								-.2037
.865	-.5537							
.879		-.3513						
.901	-.3984			-.2536			-.1794	
.906			-.1802					
.919		-.1777						
.950				-.1831	-.1612	-.0363		
.957			-.1057					
.966		-.1241						
.988	-.1595							
1.000			-.0505		-.0941		.0292	

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ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L2G)

ALPHA (2) = .061 BETA (1) = -3.869 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2300	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0244	.0760	.0943	-.6536	-.8199	-.7691	-.6307	
.020	.0000	.0524	-.0173	-.6211	-.7867	-.7540	-.9325	-.3294
.040		.0717	-.1773					
.050	.0034			-.5289	-.6247	-.6840	-.7334	
.069								-.3517
.080				-.3639				
.081			-.2148					
.086		.0829						
.094	-.0174							
.150				-.2218	-.2242	-.2645	-.2898	
.157								-.2532
.163		.0124						
.177			-.1943					
.229	.0200							
.246		-.1522						
.250				-.1688	-.2075	-.2446	-.2798	
.324			-.1415					
.345								
.390		-.1234						-.3282
.400				-.1434	-.1469		-.2132	
.402			-.1048					
.503								
.550				-.2084	-.2265			-.3627
.566			-.8592					
.610							-.3806	
.637		-.2094						
.650						-.3501		
.670								-.3860
.700					-.4042			
.705				-.3667				
.740						-.4703	-.5616	
.760			-.3309					
.775				-.4069	-.4427			
.798		-.2801						
.808			-.6019					
.934	-.3004							
.943		-.5597						
.850				-.5364	-.4261	-.2664		
.857			-.5923					
.862								
.865	-.4967							-.1703
.879		-.4685						
.900	-.4379			-.1947				
.905			-.2031				-.1304	
.919		-.1672						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (2) = .061 BETA (1) = -3.869

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.960				-.0836	-.2455	-.0669		
.953			-.0843					
.955		-.0785						
.966	-.0966							
[illegible]			-.0232		-.0707		.0345	

ALPHA (2) = .067 BETA (2) = .174 MACH = .89877 Q = 599.18 P = 1059.7 PN/L = 3.5651

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	-.4729	-.6634	-.6979	-.6316	
[illegible]	[illegible]	[illegible]	[illegible]	-.4796	-.6678	-.6292	-.7014	-.3446
[illegible]	[illegible]	[illegible]	-.1605					
[illegible]	[illegible]			-.3747	-.4701	-.5619	-.6705	
[illegible]								-.3597
[illegible]				-.2693				
[illegible]			-.1899					
[illegible]		[illegible]						
[illegible]	[illegible]			-.1937	-.2173	-.2372	-.3351	
[illegible]								-.2694
[illegible]		[illegible]						
[illegible]			-.1427					
[illegible]	[illegible]							
[illegible]		-.0948						
[illegible]				-.1440	-.2028	-.2343	-.2766	
[illegible]			-.1128					
[illegible]								-.3338
[illegible]		-.0817						
[illegible]				-.1338	-.1624		-.2332	
[illegible]			-.0023					
[illegible]								-.4041
[illegible]				-.2282	-.2393			
[illegible]			-.1651					
[illegible]							-.4007	
[illegible]		-.2049						
[illegible]						-.3738		
[illegible]								-.3945
[illegible]					-.4256			
[illegible]				-.3048				
[illegible]						-.4835	-.5980	
[illegible]			-.3426					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (2) = .057 BETA (2) = .174

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				-.5258	-.4562			
.798		-.3107						
.808			-.5797					
.824	-.3046							
.839		-.5470						
.850				-.4704	-.4178	-.2365		
.857			-.5640					
.862								
.885	-.4670							-.1283
.879		-.4664						
.900	-.4070							
.905			-.1785	-.1928			-.1179	
.919		-.1802						
.940				-.0892	-.2116	-.1063		
.953			-.0662					
.965		-.0910						
.985	-.1270							
1.000			-.0173		-.0437		.0174	

ALPHA (2) = .063 BETA (3) = 4.252 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.565;

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.0161	.0781	.2280	-.2964	-.4991	-.5561	-.5359	
.020	.0000	.0995	.1658	-.3555	-.4148	-.4819	-.6243	-.3079
.040		.1202	.0187					
.050	.0074							
.069				-.2557	-.3566	-.4039	-.4837	
.080								-.3383
.091				-.2158				
.086			-.0656					
.094		.1387						
.100	.0103							
.157				-.1567	-.1775	-.2117	-.3117	
.163		.0995						-.2622
.177			-.1019					
.189	.0451							
.246		-.0612						
.250								
.274				-.1278	-.1734	-.2136	-.2689	
.345			-.1000					
.340		-.0790						-.3649

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (2) = .053 BETA (3) = 4.252

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3040	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1353	-.1572		-.2323	
.402			-.0941					
.503								-.4204
.550				-.2219	-.2491			
.565			-.8670					
.600							-.4187	
.637		-.2071						
.650						-.3806		
.670								-.4069
.700					-.4244			
.725				-.3899				
.750						-.5140	-.6094	
.760			-.3784					
.775				-.5406	-.4613			
.799		-.3373						
.806			-.5772					
.834	-.3439							
.850		-.8377						
[illegible]				-.4470	-.3818	-.2212		
[illegible]			-.5641					
[illegible]								-.0838
.926	-.4870							
[illegible]		-.5006						
[illegible]	-.4038			-.1636			-.0977	
[illegible]			-.1801					
[illegible]		-.2033						
[illegible]				-.0659	-.1310	-.0688		
[illegible]			-.1843					
[illegible]		-.1110						
[illegible]	-.1801							
[illegible]			-.0447		-.0396		.0243	

[illegible] = 3.954 BETA [illegible] = -3.877 MACH = .89787 Q = 598.42 P = 1060.5 P0/L = 3.5652

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3040	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0141	.1093	.3877	.0978	.0148	.1082	.1249	
.020	.0000	.1578	.3208	-.0346	-.0173	-.0120	-.0413	-.1138
.030		.1442	.1536					
.050	.0574			-.0410	-.0627	-.0565	-.0745	
.080								-.1700
.090				-.0432				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL26)

ALPHA (3) = 3.954 BETA (1) = -3.877

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.081			.0517					
.086		.2177						
.094	.0483							
.150				-.0090	-.0129	-.0251	-.0801	
.157								-.1883
.163		.1844						
.177			.0060					
.226	.0872							
.246		.0244						
.250				-.0079	-.0317	-.0577	-.1088	
.274			.0038					
.296								-.2606
.298		.0178						
.[illegible]				-.0373	-.0382		-.1298	
.402			.0014					
.[illegible]								-.3169
.[illegible]				-.1314	-.1532			
.[illegible]			-.9198					
.[illegible]							-.3158	
.[illegible]		-.1294						
.[illegible]						-.2914		
.670								-.4248
.[illegible]					-.3577			
.726				-.2975				
.750						-.4704	-.5135	
.760			-.2718					
.775				-.4408	-.4199			
.796		-.2178						
.809			-.5328					
.824	-.2359							
.839		-.5241						
.850				-.6247	-.4632	-.6332		
.[illegible]			-.5995					
.[illegible]								-.3956
.[illegible]	-.4520							
.[illegible]		-.5447						
.[illegible]	-.4062			-.2345			-.6495	
.905			-.2453					
.[illegible]		-.2338						
.[illegible]				-.0845	-.2327	-.1109		
.[illegible]			-.0884					
.[illegible]		-.0384						
.[illegible]	-.1275							
.[illegible]			.0031		-.0203		-.0575	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT XEBL26

ALPHA = 3.956 BETA = 2. = 126 MACH = .99787 Q = 503.2 P = 980.5 T = 1 5811

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.4490	.4810	.4870	.5340	.6780	.7800	.8870	.9720
X/CW								
.010	-.0743	-.0009	.3608	.1624	.0768	.1461	.1302	
.020	.0000	.0904	.3366	.0417	.0377	.0175	.0031	-.2206
.040		.1317	.2017					
.060	.0184			.0112	-.0237	-.0397	-.0541	
.080				-.0085				-.2445
.091			.0930					
.100		.2114						
.094	.0365							
.140				.0052	-.0127	-.0283	-.1055	
.163		.2037						-.2196
.200	.0878		.0358					
.246		.0523						
.300				.0000	-.0409	-.0669	-.1380	
.350			.0197					
.400		.0312						-.3145
.450				-.0339	.0827		-.1804	
.500			.0146					
.550				-.1443	-.1740			-.3760
.600			-.0193					
.650							-.3457	
.700		-.1086						
.750						-.3.66		
.800					-.3502			-.5288
.850				-.3151				
.900						-.4987	-.5422	
.950			-.0065					
1.000				-.4666	-.4325			
		-.2323						
			-.5063					
	-.2319							
		-.4928						
				-.6269	-.4762	-.6541		
			-.5625					
	-.4134							-.3430
		-.5135						
	-.3947			-.2176			-.5348	
			-.2599					
		-.2846						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL26)

ALPHA (3) = 3.955 BETA (2) = .186

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0844	-.1900	-.1082		
.953			-.0712					
.955		-.1110						
.955	-.1870							
1.000			-.0103		-.0282		-.0530	

ALPHA (3) = 3.953 BETA (3) = 4.243 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.2074	-.1635	.2939	.2405	.1379	.1982	.1757	
.020	.0000	-.0203	.3168	.1303	.0939	.0870	.0555	-.3683
.040		.0390	.2268					
.060	-.0350			.0745	.0160	.0100	-.0145	
.080								-.3297
.091			.1244	.0424				
.096		.1712						
.094	.0075							
.150				.0246	.0088	-.0079	-.0936	
.157								-.2663
.163		.2105						
.177			.0552					
.223	.0691							
.246		.0551						
.250				.0085	-.0251	-.0510	-.1389	
.274			.0306					
.345								-.3703
.390		.0413						
.400				-.0353	-.0492		-.1661	
.402			.0021					
.500								-.3987
.506				-.1421	-.1734			
.510			-.9511					
.537							-.3617	
.537		-.1307						
.550						-.3366		
.550								-.5083
.575					-.3507			
.575				-.3158				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (3) = 3.963 BETA (1) = 4.243

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2290	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				-.4542	-.4189			
.798		-.2536						
.808			-.4897					
.834	-.2708							
.839		-.4641						
.850				-.5961	-.4411	-.6377		
.857			-.5364					
.862							-.2221	
.865	-.4109							
.879		-.4968						
.900	-.4089			-.2209			-.3197	
.905			-.2848					
.919		-.3324						
.950				-.0619	-.1269	-.0670		
.957			-.0679					
.965		-.1291						
.978	-.2498							
1.000			-.0191		-.0110		-.0303	

ALPHA (4) = 7.926 BETA (1) = -3.870 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2290	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1703	-.1781	.4100	.4865	.4381	.4958	.4617	
.019	.0000	.0000	.4611	.3654	.3756	.3671	.3481	-.2716
.040		.1266	.3745					
.060	.0490			.2683	.2555	.2534	.2311	
.078								-.2043
.080				.2103				
.081			.2559					
.095		.2808						
.094	.0726							
.100				.1765	.1754	.1683	.0872	
.107								-.1958
.102		.3203						
.122			.1768					
.249	.1488							
.246		.1727						
.250				.1387	.1173	.0946	.0192	
.274			.1453					
.345								-.2259
.390		.1394						

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (4) = 7.926 BETA (1) = -3.870

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0745	.0652		-.0438	
.402			.1129					-.2810
.503				-.0512	-.0704			
.550			-.6660				-.2464	
.565								
.600		-.0430				-.2108		-.4099
.637					-.2572			
.650				-.2278				
.673						-.4045	-.4597	
.700			-.2167					
.725				-.3807	-.3948			
.750		-.1909						
.760			-.4441					
.775	-.1955							
.798		-.4695						
.808				-.5878	-.5335	-.5691		
.834			-.[illegible]75					-.4414
.839								
.850								
.857	-.3952							
.862		-.5089						
.865	-.3712			-.5866			-.5693	
.879			-.5718					
.900		-.4807						
.905				-.1338	-.3572	-.6435		
.919			-.1042					
.950		-.1321						
.953								
.955	-.2269							
.965			-.0046		-.1754		-.3399	
1.000								

ALPHA (4) = 7.938 BETA (2) = .179 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3632	-.3728	.2665	.4858	.4238	.4536	.4066	
.020	.0000	-.0875	.3781	.3879	.3751	.3605	.3210	-.4439
.040		-.0086	.3615					
.050	-.0442			.2861	.2593	.2504	.2149	
.069								-.3122
.080				.2330				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (4) = 7.938 BETA (2) = .179

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2681					
.086		.2150						
.094	.0287							
.150				.1777	.1725	.1592	.0697	
.157								-.2177
.163		.3086						
.177			.1901					
.229	.1208							
.246		.1763						
.650				.1369	.1146	.0908	-.0030	
.674			.1477					
.345								-.2322
.340		.1436						
.400				.0734	.0567		-.0672	
.402			.1089					
.403								-.2956
.510				-.0521	-.0780			
.514			-.6453					
.530							-.2560	
.540		-.0461						
.560						-.2161		
.570								-.4459
.590					-.2599			
.595				-.2406				
.610						-.4060	-.4524	
.620			-.3467					
.638				-.3812	-.4034			
.638		-.2088						
.808			-.4315					
.834	-.2042							
.839		-.4431						
.880				-.5779	-.5572	-.5701		
.887			-.5123					
.860								-.4896
.885	-.3836							
.878		-.4876						
.910	-.3608			-.6081			-.6211	
.915			-.6112					
.918		-.5352						
.951				-.1486	-.3408	-.6738		
.953			-.1310					
.955		-.2017						
.96	-.3064							
1.000			-.0343		-.1494		-.4297	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (α) = 7.933 BETA (β) = 4.243 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.5356	-.3463	.0970	.4444	.3938	.3967	.3452	
.020	.0000	-.1700	.2613	.3737	.3519	.3345	.2902	-.5378
.040		-.0955	.3094					
.050	-.1258			.2857	.2568	.2347	.2011	
.069								-.4080
.080				.2302				
.081			.2480					
.096		.1390						
.094	-.0374							
.150				.1721	.1670	.1493	.0523	
.157								-.2482
.163		.2744						
.177			.1852					
.229	.0840							
.246		.1583						
.260				.1223	.1012	.0752	-.0253	
.274			.1441					
.345								-.2914
.390		.1328						
.400				.0619	.0438		-.0875	
.402			.0953					
.503								-.3330
.550				-.0645	-.0967			
.565			-.7138					
.600							-.2849	
.637		-.0508						
.650						-.2340		
.670								-.4921
.700					-.2716			
.725				-.2481				
.750						-.4090	-.4670	
.770			-.2505					
.775				-.3985	-.4083			
.784		-.2198						
.808			-.4358					
.814	-.2182							
.833		-.4355						
.850				-.5804	-.5477	-.5861		
.857			-.4947					
.878								-.5593
.885	-.3798							
.879		-.4832						
.900	-.3807			-.6238			-.6540	
.905			-.6020					
.919		-.5284						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (4) = 7.933 BETA (3) = 4.243

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.1534	-.3179	-.6811		
.953			-.1991					
.955		-.2658						
.965	-.3484							
1.000			-.0334		-.1095		-.4544	

ALPHA (5) = 11.953 BETA (1) = -3.854 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.4708	-.5019	.2071	.6229	.5905	.5841	.5245	
.040	.0000	-.1377	.4178	.5670	.5613	.5505	.5015	-.3883
.070		-.0286	.4813					
.100	-.3107			.4637	.4561	.4441	.4117	
.130								-.2279
.160				.3369				
.190			.4052					
.220		.2752						
.250	.0202							
.280				.3277	.3279	.3185	.2366	
.310								-.1805
.340		.4104						
.370			.3182					
.400	.2041							
.430		.2966						
.460				.2653	.2512	.2261	.1452	
.490			.2667					
.520								-.1401
.550		.2522						
.580				.1771	.1654		.0546	
.610			.2123					
.640								-.2170
.670				.0394	.0133			
.700			-.6117					
.730							-.1791	
.760		.0435						
.790						-.1488		
.820								-.3958
.850					-.2197			
.880				-.1940				
.910						-.3311	-.3562	
.940			-.2493					

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XC9L26)

ALPHA (5) = 11.953 BETA (1) = -3.854

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3320	-.3620			
.798		-.2078						
.808			-.3633					
.834	-.2123							
.839		-.4177						
.850				-.5138	-.6051	-.5360		
.857			-.4477					
.862							-.5249	
.865	-.3722							
.879		-.4462						
.900	-.3288			-.6275		-.5679		
.905			-.5550					
.919		-.4714						
.950				-.6465	-.5815	-.6417		
.953			-.5222					
.955		-.4700						
.965	-.4795							
1.000			-.0861		-.3222		-.5208	

ALPHA (5) = 11.965 BETA (2) = .189 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.6893	-.4170	-.0071	.5417	.5186	.4725	.4141	
.020	.0000	-.2076	.2574	.5218	.5111	.4881	.4276	-.5368
.040		-.1169	.4063					
.059	-.1261			.4448	.4387	.4092	.3654	
.079								-.3729
.090				.3844				
.091			.3736					
.096		.1893						
.094	.0039							
.150				.3091	.3158	.2993	.1986	
.157								-.2432
.163		.3679						
.177			.3067					
.229	.1575							
.248		.2724						
.250				.2467	.2324	.2099	.1124	
.274			.2538					
.345								-.2190
.350		.2438						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (5) = 11.965 BETA (2) = .189

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2980	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1619	.1493		.0180	
.402			.1966					
.503								-.2874
.560				.0308	.0010			
.615			-.6243					
.600							-.2138	
.637		.0385						
.640						-.1682		
.670								-.4390
[illegible]					-.2283			
[illegible]				-.1977				
[illegible]						-.3515	-.3784	
.760			-.2504					
[illegible]				-.3373	-.3755			
[illegible]		-.2125						
[illegible]			-.3767					
[illegible]	-.2157							
.879		-.4111						
[illegible]				-.5228	-.6174	-.5281		
[illegible]			-.4308					
[illegible]								-.5818
[illegible]	-.3699							
[illegible]		-.4460						
[illegible]	-.3560			-.6306			-.6024	
[illegible]			- 5583					
.910		-.4960						
[illegible]				-.6475	-.5938	-.6783		
[illegible]			-.5926					
[illegible]		-.4979						
[illegible]	- 4716							
1.000			-.1058		-.2914		-.5377	

ALPHA (5) = 11.949 BETA (3) = 4.257 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2980	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.8092	-.3916	-.2148	.4379	.4211	.3495	.2929	
.020	.8700	-.3154	.0969	.4555	.4423	.4182	.3377	-.7005
.040		-.2880	.3201					
.060	-.2140			.4068	.3979	.3693	.3116	
[illegible]								-.4942
[illegible]				.3516				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L26)

ALPHA (5) = 11.949 BETA (3) = 4.757

SECTION : 11LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3317					
.086		.0982						
.094	-.0721							
.150				.2801	.2915	.2741	.1663	
.157								-.2996
.163		.3077						
.177			.2866					
.229	.1060							
.246		.2338						
.252				.2239	.2138	.1920	.0878	
.274			.2366					
.345								
.390		.2240						-.2884
.400								
.422				.1453	.1316		-.0107	
.433			.1755					
.550								-.3392
.565				.0212	-.0089			
.600			-.6232					
.637							-.2372	
.650		.0307						
.670						-.1792		
.700								-.4765
.715					-.2305			
.780				-.2046				
.800						-.3619	-.3881	
.825			-.2607					
.838				-.3499	-.3811			
.848		-.2123						
.858			-.3793					
.884	-.2226							
.889		-.3972						
.900				-.5107	-.6387	-.5275		
.917			-.4292					
.942								
.955	-.3603							-.6339
.959		-.4538						
.900	-.3997			-.6287			-.6384	
.915			-.5567					
.930		-.5027						
.950				-.6790	-.5743	-.6910		
.963			-.6118					
.985		-.5115						
.995	-.4505							
1.000			-.1366		-.2968		-.5767	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27) , 05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.6000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBR = .000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -3.986 BETA (1) = -7.853 MACH = .59658 Q = 594.56 P = 2386.3 RN = 4.8484

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2* Bm	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
Xm/Cm								
.010	-.2940	-.6597	-1.0843	-2.1514	-1.9801	-1.7084	-1.6324	
.020	.0000	-.4736	-1.1484	-1.9896	-1.8915	-1.3888	-1.5329	-1.0095
.040		-.5307	-.9741					
.060	-.2443			-.9459	-1.0749	-1.1692	-1.1370	
.080								-.8803
.100				-.7136				
.120			-.6276					
.140		-.4429						
.160	-.3787							
.180				-.4613	-.5009	-.5733	-.5485	
.200								-.3355
.220		-.3738						
.240			-.3904					
.260	-.3817							
.280		-.3685						
.300				-.3155	-.3558	-.3907	-.3783	
.320			-.2617					
.340								-.3906
.360		-.2478						
.380				-.2327	-.2413		-.2762	
.400			-.1957					
.420								-.3731
.440				-.2416	-.2461			
.460			-.2304					
.480							-.2846	
.500		-.2331						
.520						-.2497		
.540								-.3688
.560					-.2532			
.580				-.2367				
.600						-.3392	-.3260	
.620			-.2509					
.640				-.3786	-.2697			
.660		-.2213						
.680			-.3640					
.700	-.2705							
.720		-.3246						
.740				-.2734	-.2591	-.2267		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (1) = -3.986 BETA (1) = -7.853

SECTION (1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.857			-.2545					
.862								-.2463
.865	-.3136							
.879		-.2469						
.900	-.2022			-.1894			-.1551	
.905			-.1918					
.913		-.1769						
.950				-.0784	-.1864	-.0589		
.963			-.0778					
.979		-.0958						
.995	-.0808							
1.000			.0251		-.0597		.0229	

ALPHA (1) = -3.969 BETA (2) = -3.841 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1894	-.4345	-.8115	-2.0489	-2.1161	-1.8509	-1.7278	
.020	.0000	-.3807	-.8914	-1.7446	-1.9624	-1.4968	-1.5920	-.9111
.030		-.3467	-.7646					
.050	-.1693			-.8877	-.9625	-1.1021	-1.1034	
.069								-.8002
.080				-.6639				
.081			-.5338					
.085		-.2371						
.094	-.1584							
.150				-.4249	-.4535	-.5113	-.5059	
.157								-.3066
.163		-.2889						
.177			-.3485					
.189	-.1250							
.206		-.3246						
.250				-.2913	-.3368	-.3664	-.3607	
.274			-.2649					
.295								-.3513
.321		-.2297						
.400				-.2225	-.2341		-.2608	
.422			-.1868					
.503								-.3277
.540				-.2364	-.2431			
.565			-.1918					
.600							-.2758	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (1) = -3.969 BETA (2) = -3.841

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.537		-.2269						
.650						-.2534		
.670								-.3367
.700					-.2578			
.725				-.2383				
.750						-.3448	-.3261	
.760			-.2487					
.775					-.3940	-.2787		
.798		-.2275						
.808			-.3775					
.824	-.2059							
.839		-.3296						
.850					-.2733	-.2493	-.2295	
.857			-.2718					
.870								-.2423
.879	-.3289							
.894		-.2505						
.900	-.2130				-.1953		-.1542	
.907			-.1942					
.917		-.1274						
.931					-.0778	-.1798	-.0536	
.938			-.0328					
.945		-.1038						
.956	-.1160							
.970			.0321		-.0284		.0332	

ALPHA (1) = -3.949 BETA (2) = .187 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.2+84

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.510	-.0956	-.2297	-.5639	-1.7895	-1.9340	-2.1930	-1.9714	
.620	.0000	-.2051	-.6219	-1.3663	-1.5615	-1.6315	-1.8188	-.8007
.640		-.1999	-.5691					
.660	-.0999			-.7819	-.8692	-.9545	-1.0177	
.663								-.6259
.680				-.5851				
.681			-.4417					
.696		-.1295						
.710	-.1013							
.720				-.3746	-.4227	-.4575	-.4567	
.737								-.2825
.763		-.1992						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL27)

ALPHA (1) = -3.949 BETA (3) = .187

SECTION (1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

BY/BW	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			-.3107					
.229	-.0807							
.246		-.2752						
.250				-.2632	-.3186	-.3387	-.3301	
.274			-.2405					
.345								-.3079
.330		-.2091						
.400				-.2072	-.2259		-.2462	
.432			-.1812					
.503								-.2984
.550				-.2313	-.2363			
.565			-.1919					
.600							-.2626	
.637		-.2198						
.650						-.2489		
.670								-.3177
.700					-.2564			
.735				-.2408				
.750						-.3280	-.3127	
.760			-.2536					
.775				-.4021	-.2716			
.799		-.2233						
.808			-.3726					
.834	-.2130							
.839		-.3257						
.850				-.2733	-.2422	-.2301		
.857			-.2707					
.862								-.2438
.865	-.3241							
.879		-.2633						
.900	-.2284			-.1905			-.1455	
.905			-.2022					
.919		-.2026						
.950				-.0712	-.1635	-.0533		
.953			-.0872					
.955		-.1229						
.965	-.1536							
1.000			.0319		-.0058		.0370	

AMES 11-073(0A148) -140A/S/C/R ORB LEFT WING BOT (KEBL27)

ALPHA (1) = -3.957 BETA (4) = 4.268 MACH = .59658 Q = 594.90 P = 2385.3 RN/L = 4.8+84

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0436	-.0996	-.3452	-1.4241	-1.5688	-1.9935	-1.8514	
.020	.0000	-.0811	-.4123	-1.1277	-1.2500	-1.3704	-1.6780	-.6210
.040		-.0719	-.4273					
.050	-.0586			-.6502	-.7365	-.8106	-.8575	
.069								-.4638
.080				-.4978				
.081			-.3468					
.086		-.0505						
.094	-.0541							
.150				-.3270	-.3692	-.3969	-.4060	
.157								-.2403
.163		-.1226						
.177			-.2842					
.229	-.0417							
.244		-.2231						
.291				-.2432	-.2776	-.3022	-.2969	
.314			-.2123					
.345								-.2529
.343		-.1837						
.410				-.1950	-.2069		-.2224	
.423			-.1723					
.441								-.2504
.441				-.2181	-.2218			
.444			-.2025					
.444							-.2410	
.459		-.2107						
.496						-.2356		
.496								-.2647
.496					-.2489			
.496				-.2312				
.496						-.3205	-.2969	
.496			-.2525					
.496				-.3959	-.2663			
.496		-.2179						
.496			-.3516					
.496	-.2153							
.496		-.3140						
.496				-.2580	-.2251	-.2254		
.497			-.2590					
.496								-.1826
.496	-.3165							
.879		-.2511						
.900	-.2348			-.1818			-.1337	
.900			-.1970					
.900		-.1939						

AMES 11-073.OA148) -140A/B/C/R ORB LEFT WING BOT (XE6L27)

ALPHA (1) = -3.957 BETA (4) = 4.268

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0662	-.1321	-.0378		
.953			-.0884					
.955		-.1168						
.965	-.1742							
1.000			.0314		.0101		.0525	

ALPHA (1) = -3.972 BETA (5) = 8.340 MACH = .69658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0234	.0137	-.1320	-1.0497	-1.2951	-1.6412	-1.5641	
.033	.0000	.0077	-.1956	-.8533	-.9602	-1.1312	-1.4096	-.4908
.041		.0158	-.2573					
.061	-.0315			-.5215	-.6163	-.7256	-.7505	
.073								-.3672
.090				-.4080				
.101			-.2575					
.105		.0141						
.109	-.0319							
.133				-.2793	-.3204	-.3479	-.3634	
.137								-.2181
.153		-.0557						
.177			-.2128					
.229	-.0172							
.245		-.1725						
.250				-.2070	-.2556	-.2741	-.2721	
.274			-.1816					
.345								-.2030
.389		-.1578						
.430				- 1731	-.1924		-.2039	
.442			-.1501					
.505								-.2073
.521				-.2040	-.2116			
.525			-.2344					
.600							-.2236	
.637		-.1957						
.650						-.2236		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (1) = -3.972 BETA (5) = 8.340

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3949	-.2528			
.798		-.2136						
.808			-.3357					
.834	-.2136							
.839		-.3131						
.850				-.2520	-.2050	-.2124		
.857			-.2580					
.862								-.1282
.865	-.3081							
.879		-.2588						
.900	-.2288			-.1719			-.1135	
.905			-.1935					
.919		-.2031						
.950				-.0570	-.1085	-.0339		
.958			-.0920					
.968		-.1243						
.985	-.0898							
1.000			.0349		0335		.0719	

ALPHA (2) = 056 BETA (1) = -7.986 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	2990	.3540	4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775	-.0373	-.0388	-.1609	-.9370	-.9527	-.9272	-.7593	
.798	.0888	-.0636	-.2987	-.8575	-.7393	-.7845	-.8302	-.2441
.808		-.0849	-.3736					
.834	-.0467			-.5136	-.5109	-.5426	-.5144	
.839								-.2081
.850				-.3936				
.857			-.2965					
.862		-.0401						
.865	-.0614							
.879				-.2400	-.2386	-.2492	-.2488	
.900								-.1817
.905		-.1223						
.919			-.2060					
.950	-.0483							
.958		-.1935						
.968				-.1652	-.1943	-.2015	-.2012	
.985			-.1512					
1.000								-.1871
.990		-.1308						

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R OPS LEFT WING BOT (XE8L27)

ALPHA (2) = .056 BETA (1) = -7.886

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1369	-.1474		-.1674	
.402			-.1085					
.503								-.2213
.550				-.1795	-.1867			
.565			-.2731					
.600							-.2250	
.637		-.1871						
.650						-.2131		
.670								-.2527
.700					-.2241			
.725				-.2066				
.750						-.3219	-.2834	
.760			-.2220					
.775				-.3579	-.2530			
.799		-.2015						
.808			-.3537					
.834	-.1884							
.839		-.3087						
.850				-.2634	-.2417	-.2229		
.857			-.2445					
.862								-.1684
.871	-.3107							
.875		-.2331						
.900	-.1820			-.1816			-.1455	
.905			-.1841					
.919		-.1668						
.950				-.0647	-.1412	-.0459		
.953			-.0619					
.955		-.0814						
.965	-.0709							
1.000			.0483		-.0350		.0572	

ALPHA (2) = .065 BETA (2) = -3.860 MACH = .59638 Q = 594.21 P = 2386.5 RN/ = 4.8456

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0160	.0368	-.0285	-.7250	-.7979	-.7562	-.6673	
.020	.0000	.0080	-.1425	-.6904	-.6390	-.6692	-.6916	-.2040
.040		.0170	-.2529					
.060	-.0176			-.4235	-.4391	-.4819	-.4743	
.069								-.1828
.080				-.3352				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (2) = .055 BETA (2) = -3.860

SECTION (11)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.2338					
.086		.0178						
.094	-.0308							
.150				-.2131	-.2171	-.2210	-.2408	
.157								-.1719
.163		-.0671						
.177			-.1736					
.229	-.0195							
.246		-.1520						
.[illegible]				-.1443	-.1773	-.1926	-.1950	
.[illegible]			-.1346					
.[illegible]								-.1767
.[illegible]		-.1164						
.[illegible]				-.1281	-.1395		-.1614	
.402			-.1041					
.[illegible]								-.2077
.[illegible]				-.1785	-.1875			
.[illegible]			-.2269					
.[illegible]							-.2284	
.[illegible]		-.1773						
.[illegible]						-.2126		
.[illegible]								-.2418
.[illegible]					-.2295			
.[illegible]				-.2087				
.[illegible]						-.3223	-.2853	
.[illegible]			-.2293					
.[illegible]				-.3699	-.2570			
.[illegible]		-.2008						
.[illegible]			-.3507					
.871	-.1841							
.[illegible]		-.3128						
.[illegible]				-.2642	-.2411	-.2312		
.[illegible]			-.2544					
.[illegible]								-.1508
.[illegible]	-.3089							
.[illegible]		-.2466						
.[illegible]	-.1969			-.1825			-.1413	
.[illegible]			-.1920					
.[illegible]		-.1814						
.[illegible]				-.0673	-.1500	-.0480		
.953			-.0759					
.[illegible]		-.0981						
.965	-.1085							
1.000			.0487		-.0093		.0606	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8LE7)

ALPHA (2) = .070 BETA (3) = .184 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0070	.0645	.0800	-.5331	-.6624	-.6615	-.5881	
.020	.0000	.0545	-.0047	-.5434	-.5188	-.5700	-.6396	-.1996
.040		.0659	-.1485					
.050	-.0017			-.3465	-.3701	-.4173	-.4343	
.069								-.1812
.080				-.2764				
.081			-.1679					
.086		.0657						
.094	-.0127							
.150				-.1861	-.1932	-.2039	-.2261	
.157								-.1767
.163		-.0117						
.177			-.1423					
.229	.0019							
.246		-.1229						
.250				-.1332	-.1680	-.1816	-.1879	
.274			-.1197					
.345								-.1696
.390		-.1055						
.400				-.1275	-.1353		-.1591	
.402			-.0972					
.503								-.2000
.550				-.1721	-.1794			
.555			-.2232					
.600							-.2223	
.637		-.1751						
.650						-.2130		
.670								-.2268
.700					-.2304			
.745				-.2133				
.750						-.3193	-.2821	
.760			-.2313					
.775				-.3778	-.2570			
.798		-.2014						
808			-.3580					
.834	-.1952							
.839		-.3190						
.850				-.2595	-.2323	-.2341		
.857			-.2643					
.882								-.1281
.895	-.3089							
.899		- 2555						
.900	-.2154			-.1833			-.1378	
.905			-.2008					
.919		-.1980						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (2) = .070 BETA (3) = .184

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0652	-.1455	-.0474		
.952			-.0879					
.955		-.1153						
.965	-.1576							
1.000			.0404		.0144		.0725	

ALPHA (2) = .065 BETA (4) = 4.247 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0269	.0462	.1500	-.3562	-.4722	-.4483	-.4119	
.020	.0000	.0542	.0851	-.3823	-.3818	-.4358	-.4706	-.1675
.040		.0718	-.0560					
.060	-.0004			-.2566	-.2885	-.3311	-.3422	
.080								-.1730
.100				-.2175				
.120			-.1105					
.140		.0879						
.160	-.0160							
.180				-.1505	-.1633	-.1735	-.2060	
.200								-.1654
.220		.0305						
.240			-.1093					
.260	.0061							
.280		-.0919						
.300				-.1207	-.1504	-.1619	-.1696	
.320			-.1000					
.340								-.1606
.360		-.0824						
.380				-.1172	-.1237		-.1533	
.400			-.0931					
.420								-.1894
.440				-.1695	-.1794			
.460			-.2302					
.480							-.2164	
.500		-.1639						
.550						-.2048		
.600								-.2166
.650						-.2250		
.700					-.2159			
.725								
.750						-.3069	-.2734	
.800			-.2364					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (2) = .066 BETA (4) = 4.247

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3804	-.2517			
.798		-.2011						
.808			-.3443					
.834	-.1971							
.839		-.3084						
.850				-.2617	-.2179	-.2285		
.857			-.2559					
.862								
.865	-.3002							-.1079
.879		-.2539						
.900	-.2199			-.1794			-.1333	
.905			-.1985					
.919		-.1993						
.950				-.0630	-.1182	-.0496		
.953			-.0872					
.955		-.1238						
.965	-.1840							
1.000			.0415		.0313		.0784	

ALPHA (2) = .060 BETA (5) = 8.305 MACH = .59639 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1163	-.0303	.1894	-.1623	-.3122	-.3262	-.3086	
.020	.0000	.0153	.1558	-.2346	-.2653	-.3297	-.3646	-.1700
.040		.0428	.0269					
.050	-.0471			-.1701	-.2144	-.2576	-.2831	
.069								
.080				-.1498				-.1880
.081			-.0515					
.086		.0864						
.094	-.0311							
.150				-.1184	-.1342	-.1451	-.1857	
.157								
.163		.0653						-.1603
.177			-.0751					
.229	.0001							
.246		-.0642						
.250				-.1056	-.1316	-.1460	-.1631	
.274			-.0810					
.345								
.390		-.0720						-.1634

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (2) = .060 BETA (5) = 8.305

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.1086	-.1196		-.1463	
.402			-.0867					
.503								-.1888
.550				-.1642	-.1713			
.565			-.2637					
.600							-.2096	
.64[illegible]		-.1583						
.65[illegible]						-.2029		
.69[illegible]								-.2084
.700					-.2209			
.705				-.2111				
.730						-.2887	-.2680	
.74[illegible]			-.2325					
.75[illegible]				-.3809	-.2428			
.76[illegible]		-.2042						
.77[illegible]			-.3243					
.79[illegible]	-.2009							
.80[illegible]		-.3053						
.81[illegible]				-.2504	-.2046	-.2256		
.82[illegible]			-.2502					
.84[illegible]								-.0948
.86[illegible]	-.3008							
.87[illegible]		-.2555						
.89[illegible]	-.2315			-.1736			-.1211	
.90[illegible]			-.1987					
.91[illegible]		-.2047						
.93[illegible]				-.0597	-.0892	-.0404		
.95[illegible]			-.0989					
.96[illegible]		-.1293						
.98[illegible]	-.1359							
1.00[illegible]			.0795		.0495		.0773	

ALPHA (2) = 3.957 BETA (5) = -7.887 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.6432

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.[illegible]10	.0810	.1436	.3251	.0055	.0161	.1400	.1994	
.[illegible]40	.0000	.1446	2314	-.1183	-.0135	.0070	.0433	.0142
.[illegible]50		.1604	0516					
.[illegible]60	.3674			-.1018	-.0693	-.0448	-.0102	
.[illegible]74								-.0158
.[illegible]10				-.0855				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (3) = 3.957 BETA (1) = -7.887

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			-.0204					
.086		.1602						
.094	.0480							
.150				-.0335	-.0242	-.0098	-.0258	
.157								-.1108
.163		.0860						
.177			-.0258					
.229	.0539							
.246		-.0250						
.250				-.0178	-.0349	-.0424	-.0465	
.274			-.0199					
.345								-.0893
.390		-.0172						
.400				-.0418	-.0391		-.0651	
.402			-.0156					
.503								-.1510
.550				-.1130	-.1142			
.565			-.3117					
.600							-.1813	
.637		-.1235						
.650						-.1682		
.670								-.2066
.700					-.1938			
.725				-.1729				
.750						-.2906	-.2464	
.760			-.1939					
.775				-.3265	-.2255			
.794		-.1669						
.810			-.3324					
.844	-.1628							
.859		-.2850						
.860				-.2436	-.2232	-.2324		
.867			-.2285					
.882								-.1750
.885	-.2878							
.899		-.2190						
.910	-.1645			-.1774			-.1577	
.925			-.1737					
.949		-.1572						
.960				-.0582	-.1346	-.0635		
.963			-.0595					
.965		-.0767						
.985	-.0644							
1.000			.0705		.0092		.0231	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEEL27)

ALPHA (3) = 3.961 BETA (2) = -3.863 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0175	.0695	.3315	.0866	.0780	.2040	.2164	
.020	.0000	.1116	.2717	-.0303	.0439	.0439	.0844	-.0693
.040		.1373	.1027					
.050	.0445			-.0280	-.0296	-.0142	.0076	
.059								-.0714
.060				-.0408				
.081			.0209					
.086		.1605						
.094	.0453							
.141				-.0180	-.0119	-.0049	-.0388	
.157								-.1258
.163		.1171						
.181			-.0059					
.191	.0581							
.211		-.0174						
.212				-.0153	-.0342	-.0382	-.0567	
.214			-.0104					
.241								-.1207
.262		-.0090						
.263				-.0396	-.0449		-.0788	
.265			-.0147					
.291								-.1714
.312				-.1130	-.1187			
.313			.2781					
.314							-.1893	
.315		-.1220						
.316						-.1784		
.317								-.2252
.318					-.1996			
.319				-.1804				
.320						-.2955	-.2616	
.321			-.2056					
.326				-.3447	-.2300			
.327		-.1729						
.328			-.3283					
.329	-.1662							
.330		-.2901						
.331				-.2497	-.2241	-.2337		
.332			-.2434					
.333								-.1826
.334		-.2404						
.335	-.1817			-.1797			-.1638	
.339			-.1889					
.339		-.1779						

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (3) = 3.961 BETA (2) = -3.863

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0609	-.1458	-.0644		
.963			-.0731					
.965		-.0996						
.965	-.1090							
1.000			.0625		.0285		.0335	

ALPHA (3) = 3.991 BETA (3) = .188 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.0879	-.0507	.2989	.1594	.1325	.2084	.2182	
.020	.0000	.0416	.2865	.0408	.0795	.0774	.0894	-.1534
.040		.0826	.1528					
.060	.0068			.0068	.0030	.0000	.0049	
.069								-.1415
.080				-.0092				
.081			.0517					
.096		.1556						
.120	.0187							
.150				-.0004	-.0041	-.0002	-.0437	
.157								-.1489
.163		.1378						
.177			.0103					
.229	.0527							
.246		.0062						
.250				-.0098	-.0273	-.0413	-.0696	
.274			-.0021					
.345								-.1523
.390		.0020						
.400				-.0326	-.0457		-.0891	
.402			-.0114					
.503								-.1996
.550				-.1138	-.1258			
.565			-.2443					
.615							-.1993	
.637		-.1175						
.650						-.1838		
.677								-.2454
.700					-.2053			
.725				-.1889				
.750						-.2947	-.2707	
.760			-.2092					

AMES 11-073(OA148) -140A/B/C/R OR9 LEFT WING BOT (XE8L27)

ALPHA (B) = 3.981 BETA (B) = .188

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.775				-.3528	-.2323			
.798		-.1765						
.808			-.3239					
.834	-.1742							
.839		-.2957						
.850				-.2492	-.2221	-.2430		
.857			-.2466					
.862							-.1833	
.869	-.2841							
.879		-.2423						
.900	-.1894			-.1820		-.1705		
.905			-.1966					
.919		-.1851						
.930				-.0659	-.1383	-.0710		
.943			-.0808					
.955		-.1086						
.965	-.1525							
.970			.0567		.0419		.0315	

ALPHA (B) = 3.978 BETA (B) = 4.237 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.770	-.2033	-.2118	.2933	.2034	.1561	.2337	.2271	
.790	.0000	-.0543	.2606	.0935	.1087	.1141	.1184	-.2793
.804		-.0039	.1695					
.820	-.1480			.0455	.0296	.0309	.0292	
.844								-.2371
.860				.0149				
.870			.0730					
.880		.1172						
.900	-.0188							
.920				.0014	.0070	.0002	-.0408	
.940								-.1908
.953		.1427						
.960			.0206					
.969	.0335							
.978		.0159						
.990				-.0061	-.0236	-.0359	-.0661	
.994			-.0002					
.995								-.1923
.999		.0035						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (3) = 3.978 BETA (4) = 4.237

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				-.0411	-.0475		-.0964	
.402			-.0152					
.503								-.2228
.550				-.1134	-.1204			
.565			-.2660					
.600							-.1972	
.637		-.1126						
.650						-.1736		
.675								-.2597
.700					-.2008			
.725				-.1848				
.750						-.2852	-.2688	
.760			-.2160					
.775				-.3569	-.2287			
.788		-.1740						
.808			-.3124					
.824	-.1829							
.838		-.2863						
.850				-.2397	-.2038	-.2374		
.857			-.2431					
.882								-.1866
.865	-.2789							
.879		-.2399						
.900	-.2074			-.1767			-.1627	
.905			-.1955					
.919		-.1901						
.950				-.0672	-.1185	-.0671		
.953			-.0917					
.955		-.1225						
.965	-.1781							
1.000			.0476		.0487		.0412	

ALPHA (3) = 3.980 BETA (5) = 8.292 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3731	-.3549	.1066	.2398	.1869	.2320	.2137	
.020	.0000	-.1931	.1903	.1469	.1307	.1309	.1146	-.4140
.040		-.1198	.1698					
.050	-.1291			.0834	.0713	.0511	.0327	
.069								-.3502
.090				.0400				

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING BOT (XESL27)

ALPHA (3) = 3.980 BETA (5) = 8.292

SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/SW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
.091			.0911					
.086		.0601						
.094	-.0709							
.150				.0119	.0177	.0094	-.0525	
.157								-.2449
.162		.1329						
.177			.0353					
.209	.0033							
.[illegible]		.0180						
.[illegible]				-.0085	-.0203	-.0344	-.0765	
.[illegible]			.0066					
.[illegible]								-.2424
.[illegible]		.0087						
.[illegible]				-.0406	-.0502		-.1091	
.[illegible]			-.0204					
.[illegible]								-.2612
.[illegible]				-.1134	-.1203			
.[illegible]			-.2047					
.[illegible]							-.2000	
.[illegible]		- 1.3						
.[illegible]						-.1842		
.[illegible]								-.2799
.[illegible]					-.2022			
.[illegible]				-.1802				
.[illegible]						-.2723	-.2736	
.[illegible]			- 3144					
.[illegible]				-.3503	-.2198			
.[illegible]		-.1739						
.[illegible]			-.2366					
.[illegible]	- .819							
.[illegible]		-.2859						
.[illegible]				-.2362	-.1894	-.2290		
.[illegible]			-.1933					
.[illegible]								-.1885
.[illegible]	- .8841							
.[illegible]		-.2406						
.[illegible]	-.3.85			-.1754			-.1547	
.[illegible]			-.1847					
.[illegible]		-.2001						
.[illegible]				-.0636	-.0808	-.0630		
.[illegible]			-.0979					
.[illegible]		-.1344						
.[illegible]	- .1878							
.[illegible]			.0330		.0593		.0533	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (W) = 7.935 BETA (B) = -7.885 MACH = .59590 Q = 593.13 P = 2395.0 PN/L = 4.8429

SECTION 1 : LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/SW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0265	-.0764	.4019	.4756	.4893	.5579	.5395	
.020	.0000	.0978	.4393	.3442	.4082	.4393	.4495	-.2302
.040		.1577	.3156					
.060	.1010			.2265	.2693	.2922	.3087	
.080								-.1189
.090				.1780				
.091			.2016					
.095		.2542						
.094	.1075							
.150				.1421	.1648	.1846	.1458	
.157								-.1280
.163		.2439						
.174			.1345					
.269	.1372							
.246		.1157						
.250				.1127	.1094	.1046	.0785	
.274			.1029					
.345								-.0898
.350		.0895						
.400				.0554	.0601		.0189	
.402			.0789					
.503								-.1633
.551				-.0427	-.0411			
.555			-.3071					
.600							-.1393	
.637		-.0581						
.650						-.1231		
.701								-.2241
.702					-.1493			
.705				-.1277				
.750						-.2468	-.2178	
.750			-.1595					
.775				-.2870	-.1838			
.798		-.1343						
.810			-.2822					
.834	-.1347							
.838		-.2555						
.850				-.2113	-.1940	-.2138		
.850			-.2053					
.900								-.2337
.915	-.2532							
.918		-.1933						
.930	-.1766			-.1611			-.1869	
.931			-.1631					
.938		-.1457						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (1) = 7.935 BETA (1) = -7.885

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.950				-.0525	-.1140	-.0768		
.953			-.0577					
.955		-.0711						
.965	-.0620							
1.000			.0822		.0372		-.0445	

ALPHA (1) = 7.944 BETA (2) = -3.857 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.1736	-.2894	.2810	.4730	.4694	.5114	.4758	
.020	.0000	-.0405	.3750	.3564	.4033	.4195	.4139	-.4328
.040		.0487	.3161					
.060	.0890			.2510	.2755	.2895	.2906	
.080								-.2612
.080				.1909				
.090			.2108					
.100		.2128						
.120	.0619							
.140				.1489	.1752	.1726	.1268	
.160								-.1783
.180		.2482						
.190			.1391					
.200	.1113							
.220		.1241						
.240				.1120	.1035	.0988	.0603	
.260			.1069					
.280								-.1496
.300		.0963						
.320				.0532	.0508		-.0086	
.340			.0744					
.360								-.2195
.380				-.0389	-.0501			
.400			-.2762					
.600							-.1545	
.647		-.0549						
.650						-.1379		
.670								-.2487
.700					-.1615			
.720				-.1397				
.740						-.2572	-.2369	
.760			-.1702					

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (4) = 7.944 BETA (2) = -3.857

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.3003	-.1915			
.799		-.1415						
.808			-.2801					
.834	-.1428							
.839		-.2584						
.850				-.2198	-.1956	-.2223		
.857			-.2154					
.862								-.2504
.865	-.2498							
.879		-.2105						
.900	-.1541			-.1700			-.1937	
.905			-.1752					
.919		-.1672						
.950				-.0603	-.1244	-.0838		
.954			-.0704					
.965		-.0889						
.985	-.1099							
1.000			.0674		.0547		-.0306	

ALPHA (4) = 8.045 BETA (3) = .182 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3619	-.5408	.1243	.4386	.4209	.4319	.3843	
.020	.0000	-.2074	.2807	.3585	.3805	.3845	.3567	-.6207
.040		-.1062	.2979					
.060	-.0624			.2556	.2646	.2666	.2567	
.069								-.4234
.080				.1897				
.081			.2145					
.086		.1471						
.094	-.0014							
.150				.1396	.1576	.1558	.0989	
.157								-.2317
.163		.2393						
.172			.1403					
.229	.0800							
.245		.1219						
.250				.1042	.0933	.0856	.0301	
.[illegible]			.1030					
.345								-.2269
.390		.0944						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (α) = 8.045 BETA (β) = .182

SECTION 1 :LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.0432	.0383		-.0291	
.402			.0665					
.503								-.2752
.550				-.0476	-.0580			
.565			-.2805					
.600							-.1733	
.637		-.0567						
.650						-.1429		
.670								-.2837
.700					-.1631			
.725				-.1501				
.750						-.2529	-.2450	
.760			-.1812					
.775				-.3051	-.1872			
.790		-.1494						
.800			-.2757					
.840	-.1514							
.850		-.2642						
.860				-.2224	-.1811	-.2280		
.870			-.2256					
.900								-.2706
.910	-.2509							
.920		-.2179						
.930	-.1718			-.1703			-.1900	
.935			-.1797					
.945		-.1786						
.950				-.0861	-.1125	-.0886		
.960			-.0821					
.965		-.1072						
.975	-.1457							
1.000			.0555		.0551		.0148	

ALPHA (α) = 9.043 BETA (β) = 4.239 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION 1 :LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.000	-.5823	-.6874	-.0612	.3748	.3708	.3331	.2796	
.050	.0000	-.3460	.1571	.3315	.3421	.3397	.2991	-.8833
.040		-.2286	.2487					
.050	-.1530			.2537	.2660	.2547	.2301	
.060								-.5854
.080				.1946				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (4) = 8.043 BETA (4) = 4.239

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2000	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.091			.1970					
.086		.0639						
.094	-.0695							
.150				.1323	.1502	.1531	.0713	
.157								-.3006
.163		.2078						
.177			.1359					
.229	.0404							
.246		.1031						
.250				.0955	.0844	.0762	.0137	
.274			.0975					
.345								-.3051
.390		.0855						
.400				.0401	.0302		-.0456	
.402			.0574					
.503								-.3347
.550				-.0554	-.0638			
.565			-.2874					
.600							-.1813	
.637		-.0605						
.650						-.1508		
.670								-.3214
.700					-.1673			
.725				-.1574				
.750						-.2541	-.2559	
.760			-.1951					
.775				-.3017	-.1775			
.798		-.1520						
.808			-.2707					
.834	-.1526							
.849		-.2692						
.860				-.2151	-.1768	-.2334		
.867			-.2194					
.892								-.2833
.895	-.2509							
.879		-.2200						
.900	-.1878			-.1695			-.1911	
.905			-.1889					
.919		-.1892						
.930				-.0673	-.1031	-.0886		
.953			-.0939					
.955		-.1171						
965	-.1650							
1.000			.0459		.0200		-.0133	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (A) = 8.041 BETA (S) = 8.297 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = [illegible]

SECTION 1 (LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/CW	.3990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
.010	-.7615	-.6396	-.2734	.2876	.2849	.2113	.1513	
.020	.0000	-.4333	.0027	.2865	.2884	.2731	.2177	-1.1093
.040		-.3350	.1820					
.050	-.2589			.2279	.2473	.2192	.1788	
.069								-.7576
.080				.1819				
.091			.1768					
.088		-.0086						
.094	-.1423							
.110				.1245	.1324	.1317	.0397	
.137								-.3756
.143		.1635						
.157			.1308					
.173	-.0044							
.190		.0850						
.210				.0828	.0722	.0607	-.0120	
.224			.0877					
.245								-.3815
.257		.0748						
.270				.0228	.0196		-.0746	
.290			.0499					
.303								-.3715
.317				-.0637	-.0696			
.330			-.2838					
.350							-.1937	
.357		- 0638						
.370						-.1630		
.384								-.3494
.397					-.1807			
.410				-.1671				
.424						-.2621	-.2670	
.437			-.2010					
.451				-.3088	-.1951			
.464		-.1591						
.477			-.2643					
.491	-.1861							
.504		-.2663						
.518				-.2241	-.1764	-.2278		
.531			-.2315					
.545								-.2743
.558	-.0556							
.572		-.2309						
.585	-.2000			-.1806			-.1847	
.605			-.2000					
.619		- 1937						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (4) = 8.041 BETA (5) = 8.297

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.950				-.0795	-.0936	-.0930		
.953			-.1005					
.955		-.1305						
.965	-.1886							
1.000			.0420		.0300		.0219	

ALPHA (5) = 11.909 BETA (1) = -7.850 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.3133	-.6427	.1421	.5970	.5983	.5279	.4619	
.020	.0000	-.1580	.3775	.5652	.5939	.5853	.5367	-.7489
.040		-.0326	.4522					
.060	.0637			.4525	.4901	.4957	.4741	
.080								-.4096
.081				.3766				
.086			.3649					
.094		.2658						
.100	.1252							
.150				.2928	.3247	.3366	.2731	
.157								-.1985
.163		.3628						
.177			.2758					
.209	.1973							
.246		.2492						
.250				.2406	.2396	.2365	.1845	
.274			.2245					
.345								
.400		.1991						-.1212
.408				.1542	.1557		.0949	
.427			.1677					
.464								-.1813
.550				.0390	.0343			
.575			-.3153					
.600								
.657		.0188					-.0903	
.660						-.0721		
.672								-.2204
.700					-.1020			
.725				-.0874				
.750								
.760						-.2043	-.1796	
			-.1307					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEB_27)

ALPHA (5) = 11.909 BETA (1) = -7.850

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2113	-.1170			
.798		-.0931						
.809			-.2112					
.834	-.1075							
.839		-.2045						
.850				-.1775	-.1393	-.1943		
.857			-.1723					
.868								-.2945
.885	-.2032							
.9		-.1650						
.906	-.0992			-.1490			-.2149	
.915			-.1513					
.919		-.1382						
.928				-.0674	-.0752	-.0928		
.937			-.0595					
.944		-.0571						
.955	-.0535							
.969			.0617		-.0037		-.1277	

ALPHA (5) = 11.909 BETA (2) = -3.836 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.6458

SECTION (2)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.211	-.5435	-.6815	-.0872	.5041	.5044	.3933	.3218	
.238	.0100	-.3426	.2403	.5143	.5299	.5091	.4428	-.9858
.264		-.1941	.3984					
.291	-.0503			.4317	.4643	.4562	.4169	
.317								-.5785
.344				.3619				
.369			.3458					
.396		.1789						
.423	.0536							
.449				.2834	.3077	.3168	.2349	
.475								-.2592
.502		.3345						
.527			.2659					
.553	.1518							
.580		.2303						
.606				.2233	.2223	.2113	.1535	
.633			.2114					
.659								-.2152
.686		.1903						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (5) = 11.929 BETA (2) = -3.836

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400				.1417	.1382		.0606	
.402			.1536					
.503								-.2628
.550				.0277	.0184			
.565			-.2822					
.600							-.1228	
.637		.0114						
.650						-.0935		
.670								-.2689
.700					-.1206			
.735				-.1007				
.750						-.2156	-.2003	
.760			-.1445					
.775				-.2354	-.1375			
.798		-.1077						
.808			-.2165					
.834	-.1126							
.839		-.2203						
.850				-.1883	-.1612	-.2125		
.857			-.1869					
.862								-.3173
.866	-.2104							
.879		-.1806						
.900	-.1250			-.1559			-.2111	
.905			-.1629					
.919		-.1506						
.930				-.0666	-.1081	-.1061		
.943			-.0714					
.956		-.0894						
.965	-.1115							
1.000			.0594		-.0148		-.1009	

ALPHA (5) = 11.930 BETA (3) = .181 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Bw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.7671	-1.0807	-.3211	.3912	.3982	.2428	.1757	
.020	.0000	-.5178	.0670	.4480	.4556	.4214	.3428	-1.1916
.040		-.3561	.3199					
.050	-.1673			.3959	.4247	.3988	.3511	
.069								-.7578
.090				.3330				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL27)

ALPHA (B) = 11.930 BETA (B) = .181

SECTION / 1)LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3122					
.086		.0833						
[illegible]	-.[illegible]							
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	-.3278
.163		.2913						
[illegible]			.2473					
[illegible]	.1034							
[illegible]		.2070						
[illegible]				.2052	.2002	.1859	.1084	
[illegible]			.2008					
[illegible]								-.2855
[illegible]		.1816						
[illegible]				.1233	.1172		.0233	
[illegible]			.1479					
[illegible]								-.3318
[illegible]				.0138	-.0005			
[illegible]			- 2849					
[illegible]							-.1473	
[illegible]		0.35						
[illegible]						-.1198		
[illegible]								-.3134
[illegible]					-.1468			
[illegible]				- 1225				
[illegible]						-.2386	-.2295	
[illegible]			- 1632					
[illegible]				- 2558	-.1754			
[illegible]		-.1207						
[illegible]			- 2245					
[illegible]	- 125-							
[illegible]		-.2293						
[illegible]				- 2103	-.1991	-.2388		
[illegible]			- 2014					
[illegible]								-.3292
[illegible]	-.1216							
[illegible]		-.1946						
[illegible]	-.1409			-.1787			-.2257	
[illegible]			-.1852					
[illegible]		-.1863						
[illegible]				-.0782	-.1213	-.1301		
[illegible]			-.0835					
[illegible]		[illegible]						
[illegible]	1439							
[illegible]			0405		-.0048		-.0686	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XEBL27)

ALPHA (S' = 11.840 BETA (4) = 4.251 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION ' ' LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/Sw	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/Cw								
.010	-.9761	-.9706	-.5313	.2555	.2592	.0552	.0107	
.020	.0000	-.6019	-.0983	.3597	.3570	.3202	.2268	-1.4097
.040		-.4641	.2297					
.050	-.2909			.3444	.3644	.3406	.2864	
.060								-.9085
.080				.2969				
.081			.2649					
.086		-.0094						
.090	-.1297							
.110				.2301	.2517	.2550	.1513	
.157								-.3652
.158		.2386						
.177			.2228					
.229	.0479							
.246		.1770						
.250				.1773	.1775	.1643	.0817	
.274			.1782					
.346								-.3409
.349		.1614						
.400				.1026	.1003		-.0012	
.402			.1226					
.503								-.3687
.504				.0014	-.0126			
.555			-.2980					
.600							-.1567	
.637		-.0007						
.651						-.1268		
.670								-.3330
.700					-.1596			
.735				-.1360				
.750						-.2607	-.2294	
.760			-.1761					
.775				-.2676	-.1936			
.788		-.1327						
.809			-.2321					
.834	-.1359							
.838		-.2368						
.850				-.2173	-.2236	-.2425		
.851			-.2066					
.892								-.3040
.898	-.2245							
.899		-.2012						
.901	-.1737			-.1858			-.2343	
.905			-.1838					
.919		-.1844						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA(B) = 11.930 BETA (4) = 4.251

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BM	.0345	.3043	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.000				-.1075	-.1095	-.1519		
.954			-.1009					
.965		-.1163						
.985	- 1514							
1.000			.0433		.0157		-.0743	

ALPHA(B) = 11.930 BETA (5) = 8.317 MACH = .59546 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

Z/BM	.0345	.3043	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.000	-1.8094	- 7827	-.7365	.0933	.1100	-.1355	-.1806	
.045	.0001	-.6373	- 3920	.2546	.2529	.2008	.0980	-1.5038
.085		-.0798	-.0478					
.154	- 4928			.2879	.3101	2716	.2075	
.254				.3830				-1.0267
.354			-.1762					
.454		- 091						
.554	- 2337			.2037	3004	.2175	.1039	
.654								-.4203
.754		.756						
.854			.986					
.954	- 0014							
1.000		.480		.1093	.1531	.1408	.0502	
.000			.1663					-.3953
.045		.1777						
.085				.0910	.0903		-.0311	
.154			.1174					-.3998
.254				-.0081	-.0233			
.354			-.3039				-.1703	
.454		-.0063				-.1375		
.554					-.1696			-.3471
.654				-.1444				
.754						-.2669	-.2349	
.854			-.1811					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT (XE8L27)

ALPHA (S) = 11.920 BETA (S) = 8.317

SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775				-.2589	-.1781			
.794		-.1397						
.808			-.2226					
.834	-.1499							
.839		-.2379						
.852				-.2160	-.2034	-.2408		
.864			-.2153					
.882								-.2958
.895	-.2176							
.879		-.1986						
.[illegible]	-.1735			-.1937			-.2338	
.[illegible]			-.1789					
.919		-.1865						
.[illegible]				-.1200	-.0929	-.1451		
.943			-.1030					
.955		-.1267						
.[illegible]	-.1572							
[illegible]			.0414		-.0020		-.0807	