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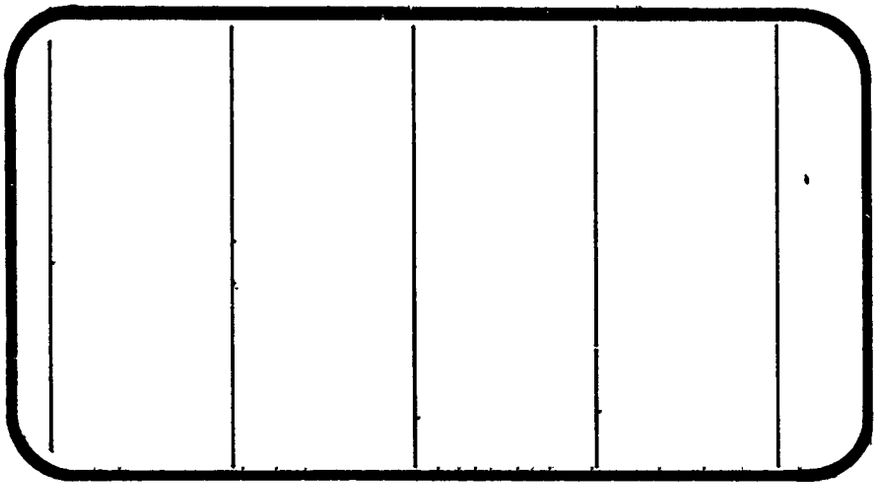

(NASA-CR-144627) TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/E/ IN THE AMES RESEARCH CENTER 11 X G3/16

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SPACE SHUTTLE

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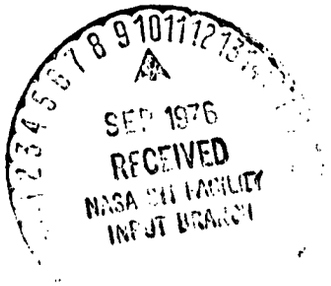

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DMS-DR-2254
NASA CR-144,627
VOLUME 9 OF 13

TERMINAL AREA ENERGY MANAGEMENT REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODEL (47-O) 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

P. J. Hawthorne
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
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-O) 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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P. J. Hawthorne, Rockwell International Space Division

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_o = 1532.0
$C_{h_{ei}}$	CHEI	inner elevon hinge moment coefficient, about hinge line X_o = 1387.0
$C_{h_{eo}}$	CHEO	outer elevon hinge moment coefficient, about hinge line X_o = 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 [Y]=	Definition
1,2,3	1,2,3	areas associated with pressure taps
4,5,6	4,5,6	1 through 6 see figure 2b
sc	SC	sting cavity area
bf	BF	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_o/L_o	X/LB	longitudinal location of body surface, fraction of body length

NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
x/c_w	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
z/b_v	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
η	2Y/BW	spanwise location on wing, fraction of semi span
X_{mrp}	XMRP	longitudinal location of moment reference point
X_T	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 on 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 $\equiv B_{70}\ C_9\ E_{44}\ F_9\ M_{16}\ N_{28}\ R_5\ V_8\ W_{116}$

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

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

$C_{A_u} = AF / (q\ S)$

$C_{N_u} = NF / (q\ S)$

$C_Y = SF / (q\ S)$

$C_{L_u} = C_{N_u} \cos \alpha - C_{A_u} \sin \alpha$

$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$

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

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

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

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

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

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

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

Lower base area

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

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

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

Total base area, A_2

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

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

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

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)

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

$$C_{m4} = C_{A4}\ \frac{7\Lambda}{c}$$

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

Upper surface of body flap

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

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

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

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).

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

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

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

These orbiter coefficients are part of datasets KE80$$.

Vertical tail "undercarriage" area, A_5

Top Segment:

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

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

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

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

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

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

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

DATA REDUCTION (Continued)

Rudder/Speed brake base:

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

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

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

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

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

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

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

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

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 GF8D$$.

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}	$\Delta 6_\ell$ ft
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
RE8O$$	source balance coefficients
RE8X$$	source hinge moment coefficients
RE8Y$$	source base pressure coefficients
KE8O$$	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 47-0 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 47-0 (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

TABLE II.

TEST: OA 148 | DATA SET PIN NUMBER [illegible] | DATE: Post TEST

DATA SET IDENTIFIER	[illegible]	α	β	δ_R	δ_{SB}	δ_{SX}	δ_{SEL}	δ_{RR}	-4	0	4	8	12	16	MACH NUMBER
ZERO01	-140 ABCR	B	D	C	55	165	0	0	32	33	34	35	58	59	14
002		A	D						38	39	40	41	42		1.25
003		C	D						43	44	45	46	47		11
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	C	55	225	0	0	60	61	62	63	64		0.6
007		A	D						68	66	67	69	70		0.9
008	-140 AZCR	B	D	C	85	225	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

COEFFICIENTS

α: A_α = -4, 0, 4, 8, 12

β: 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

RUN NUMBER	IDENTIFICATION	α	β	δ_R	δ_{SB}	δ_{BF}	δ_{EL}	δ_{EB}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
REB013	-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 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β

SCHEDULES

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE II. - Continued.

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

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_F	δ_{SB}	δ_{BF}	δ_{CL}	δ_{CR}	α -4	0	4	8	12	16	MACH NUMBERS			
RE8028	140 ABCR	B	D	-10	35	16.3	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	16.3	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	16.3	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		

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	[illegible]	α	β	δ_{E_L}	δ_{S_B}	δ_{BF}	δ_{E_R}	δ_{EB}	α = 4	0	4	8	12	16	MACH NUMBERS
258 043	40 ABCR	A	D	0	55	22.5	10	10	253	254	255	256	257		0.9
044		A	C						258	259	260	261	262		0.6
045	40 ABCR	A	D	0	55	22.5	4	4	263	264	265	266	267		0.9
046		A	C						268	269	270	271	272		0.6
047	40 ABCR	B	D	-10	55	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		[illegible]
050		A	D						289	290	291	292	293		0.9
051		A	C						294	295	296	297	298		[illegible]
[illegible]	[illegible]	B	[illegible]	-10	55	163	-4	+4	299	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]		A	[illegible]						[illegible]	[illegible]	312	[illegible]	[illegible]		[illegible]
[illegible]		[illegible]							[illegible]	316	317	318	[illegible]		[illegible]
[illegible]		A	C						[illegible]	321	322	323	324		[illegible]

COEFFICIENTS

NASA MSFC-MAF

TABLE II. - Continued.

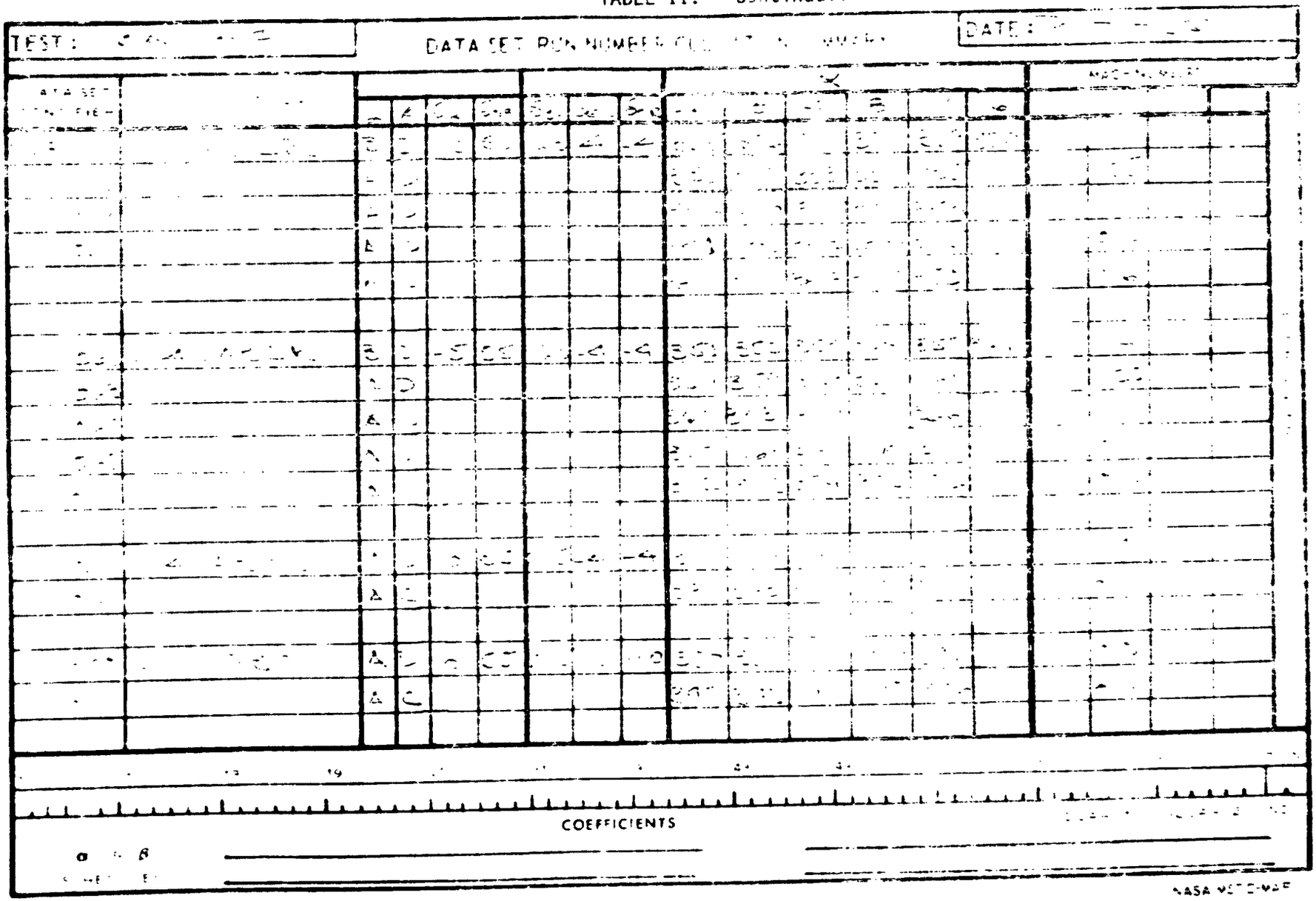

TABLE II. - Concluded.

TEST: 2A 48 | DATA SET RUN NUMBER COLLATION SUMMARY | DATE: POST TEST

CARD/COLUMN	CONFIGURATION								X						MACH NUMBERS				TEST RUN NUMBER
									-4	0	+4	8	12	16					
[illegible]	-40 ABC	B	D	-5	55	16.3	-10	-10	397	398	399	400	401	402		1.4			
[illegible]		A	D						403	404	405	406	407			1.25			
[illegible]		A	D						408	409	410	411	412			1.1			
[illegible]		A	D						413	414	415	416	417			0.9			
[illegible]		A	C						418	419	420	421	422			0.6			
[illegible]	0 ABC	B	D	0	0	-11.7	+10	-10	423	424	425	426	427	428		1.4			
[illegible]		A	D						429	430	431	432	433			1.25			
[illegible]		A	D						434	435	436	437	438			1.1			
[illegible]		A	D						439	440	441	442	443			[illegible]			
[illegible]		A	C						444	445	446	447	448			[illegible]			
[illegible]	-40 ABC	B	E	10	0	-11.7	-10	+10	449	450	451	452	453	454		1.4			
[illegible]		A	E						455	456	457	458	459			1.25			
283		A	E						460	461	462	463	464			1.1			
284		A	F						465	466	467	468	469			0.9			
285		A	O						470	471	472	473	474			0.6			

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

COEFFICIENTS

α - β VALUES

$C_{\beta} = 0 + 0\alpha + 0\alpha^2 + 0\alpha^3 + 0\alpha^4$ (CLASS (1)) $C_{\beta} = 0 + 0\alpha + 0\alpha^2 + 0\alpha^3 + 0\alpha^4$ (CLASS (2))

$-4.0 + 4.12\alpha$ $-4.0 + 4\alpha$

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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		

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TABLE III (Continued)

MODEL COMPONENT : BODY - B_{70}

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage with forward fuselage ROS 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$_4$

GENERAL DESCRIPTION Configuration 3A. Canopy used with fuselage No. 6.

MODEL SCALE: 0.030 MODEL DWG: 88-A00142, Release 12

DRAWING NUMBER VL70-000143A

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

TABLE III (Cont'd)

MODEL COMPONENT ELEVON - E_{44}

GENERAL DESCRIPTION 6.0 In. F.S. gaps machined into E_{96} 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 & $\bar{c}$), 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'

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TABLE III (Cont'd)

MODEL COMPONENT RUDDER - R_5

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_{114} 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 Planform	2690.00	2.421
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	1000.0	30.720

TABLE IV.

FUSELAGE PRESSURE TAP LOCATIONS -

ORBITER - IN.			Φ RADIAL LOCATION - DEGREES																					
FULL	Model	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	8.85	.036		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	9.90	.112	47	48	49	50	51	52			53			54							55	9	38
420	13.20	.159																		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		61
560	16.80	.251	87		90		91	92			93			94				95			96	5	70
625	18.75	.301	98		99		100	101			102			103				104			105	8	78
725	21.75	.376	107		108		109	110			111			112				113			114	8	86
880	26.40	.437	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

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

ORBITER-IN.			Φ RADIAL LOCATION ~ DEGREES																								
FULL	Model	X_o/L_o	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	TAPS	Σ 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
		X/C	0	.041	.113	.247	.429	.547	.633	.727	.793								
.235	.110	TOP	208	209	210	211	212	213	214	215	216							9	9
		BOT	—	—	—	—	—	—	—	—	—							0	
		X/C	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.362	.497		.70[illegible]	.834	.865	.900	.965			
.299	.140	TOP	[illegible]	[illegible]	[illegible]	220	221	222	223	224		225	226	227	228	229		13	34
		BOT		230	231	232	233	234	235	236		[illegible]	238	239	240	241		12	
		X/C	0	[illegible]	[illegible]	[illegible]	[illegible]	.163	.246	.390		.637	.798	.839	.879	.919	.955		
.364	.170	TOP	242	243	244	245	246	247	248	249		250	251	252	253	254	255	14	61
		BOT		256	257	258	259	260	261	262		263	264	265	266	267	268	13	
		X/C	0	[illegible]	[illegible]	[illegible]	.083	.177	.274	.402	.565	.760	.808	.857	.905	.953	1.00		
.427	.200	TOP	[illegible]	270	271	272	273	274	275	276	277	278	279	280	281	282		14	89
		BOT		283	284	285	286	287	288	289	290	291	292	293	294	295	296	14	
		X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950			
.534	.250	TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310		14	116
		BOT		311	312	313	314	315	316	317	318	319	320	321	322	323		13	

TABLE V. - Concluded.

η	y_o	LEFT WING PRESSURE TAP LOCATIONS															No TAPS	Σ No TAPS
.241	300	x/c	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00			
		TOP										333	334	335			3	103
		BOT										341	345	346	347		1	
.673	315	x/c	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00			
		TOP	324	325	326	327	328	329	330	331	332						1	120
		BOT		336	337	338	339	340	341	342	343						3	
.790	365	x/c	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850					
		TOP	349	350	351	352	353	354	355	356	357						10	159
		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					
		TOP	367	368	369	370	371	372	373	374	375	376					10	179
		BOT		377	378	379	380	381	382	383	384	385	386				10	
.972	455	x/c	0	.020	.069	.157	.345	.513	.690	.862								
		TOP	387	388	389	390	391	392	393	394							8	192
		BOT		395	396	397	398	399	400	401							7	
.0	46.34	x/c	.418	.723														
		TOP	402	403													2	196
		BOT																

TABLE VI.

ORBITER VERTICAL TAIL & SPEED BRAKE

PRESSURE TAP LOCATIONS

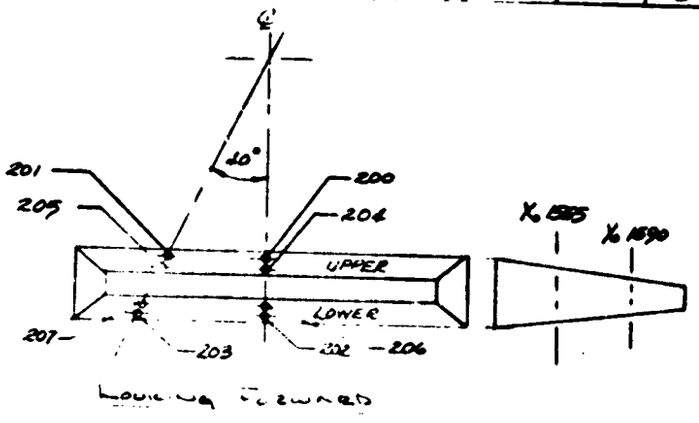
VERTICAL (LH ONLY)		X/C_V											
Z_o FULL SCALE	Z_o MODEL SCALE	X_V	0	.025	.05	.15	.30	.52	.665	.775	90	NO TAPS	Σ NO TAPS
550	10.5	.152	430	431	432	433	434	435	436	437		8	8
630	18.0	.216	438	439	440	441	442	443	444	445	446	9	17
665	19.35	.452							451	452	453	3	20
690	20.70	.567	454	455	456	457	458	459	460	461	462	9	29
720	21.6	.706							468	469	470	3	32
765	22.25	.776	463	464	465	466	467	468	469	470	471	9	41
792	23.76	.925	472	473	474	475	476	477	478	479	480	9	50

SPEED BRAKE (RH INSIDE)		X/C_V								
Z_o FULL SCALE	Z_o MODEL SCALE	X_V/58	.10	.25	.40	.65	.90	NO TAPS	Σ NO TAPS
600	19.0	.110	801	802	803	804	805	5	5
630	19.9	.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.

BODY FLAP PRESSURE TAP LOCATIONS

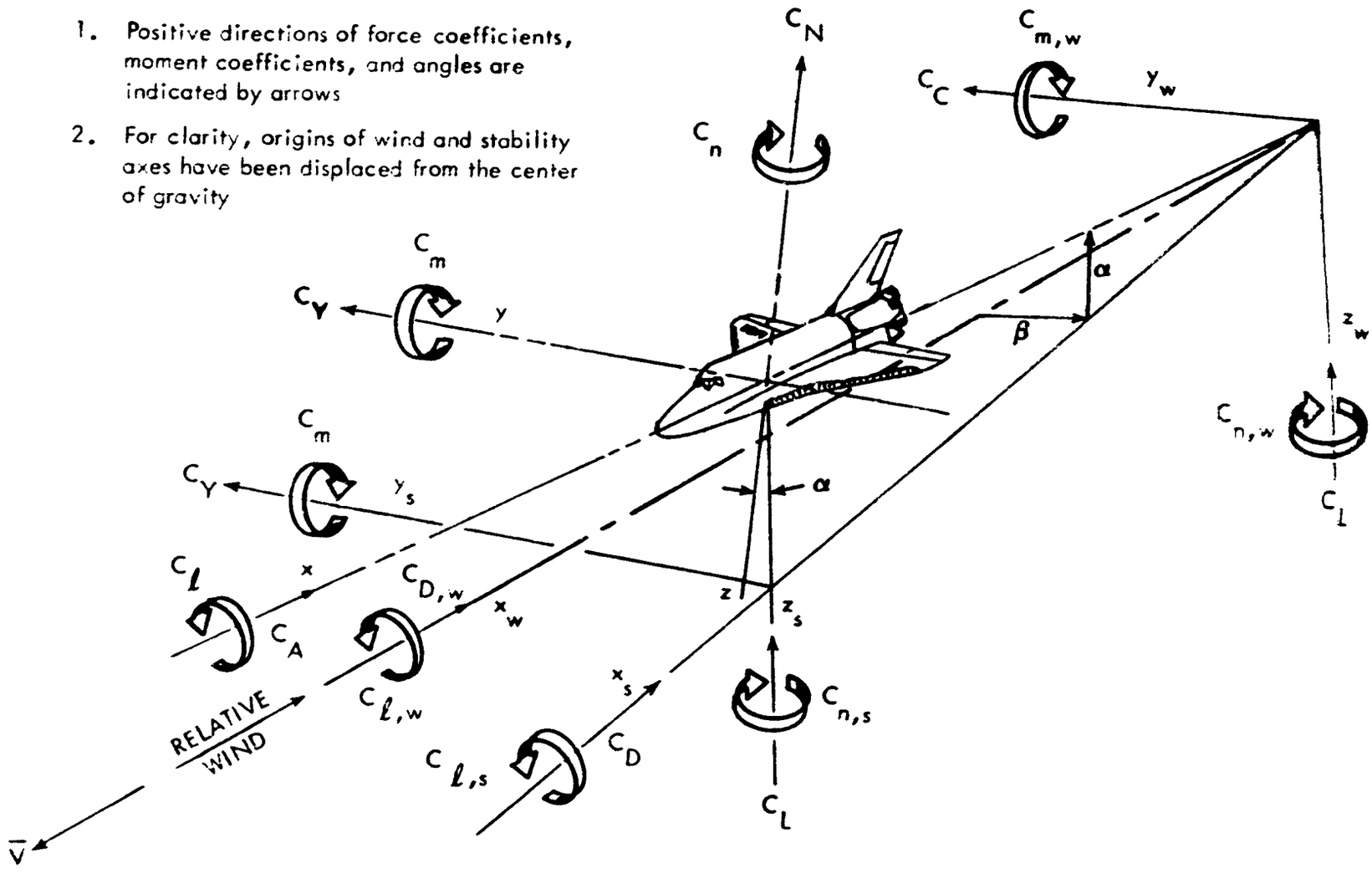
ORBITER - X_o			ϕ - DEGREES			
FULL SCALE	MODEL SCALE	X_o/L_o	0	40	No. TAPS	Σ No TAPS
1555 U	46.65	1.018	200	201	2	2
1555 L	46.65	1.018	202	203	2	4
1590 U	47.70	1.046	204	205	2	6
1590 L	47.70	1.046	206	207	2	8



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

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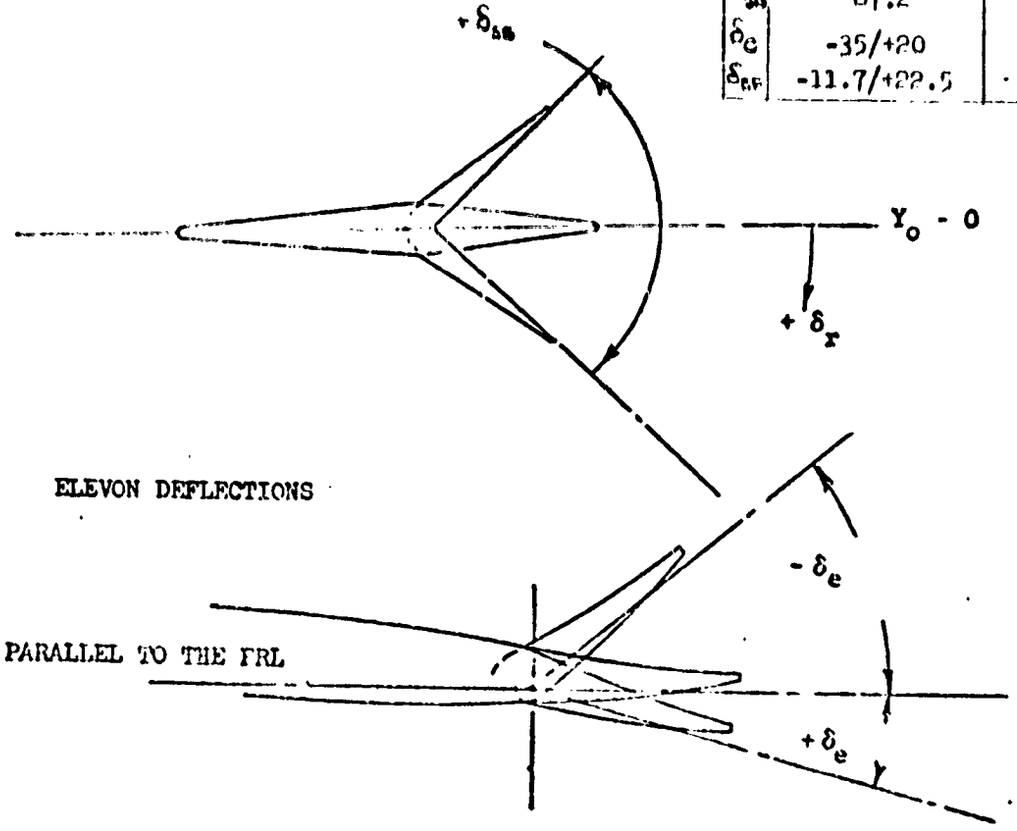
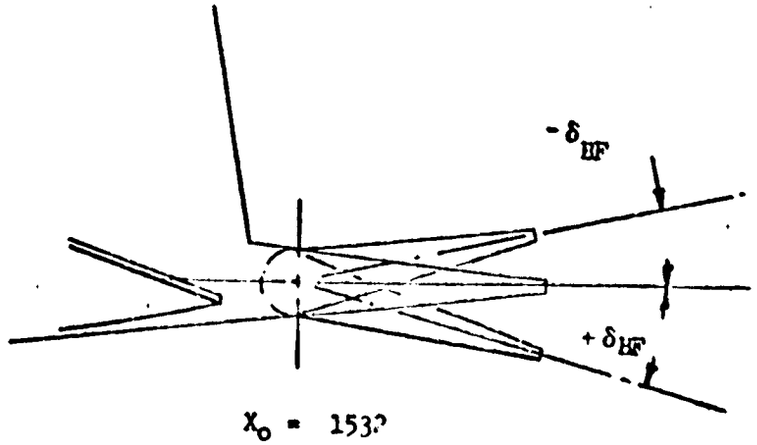
RUDDER AND SPEED BRAKE DEFLECTIONS
(PARALLEL TO THE FRL)

	Maximum Deflections	
	Vehicle [illegible]	Test CA14B
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

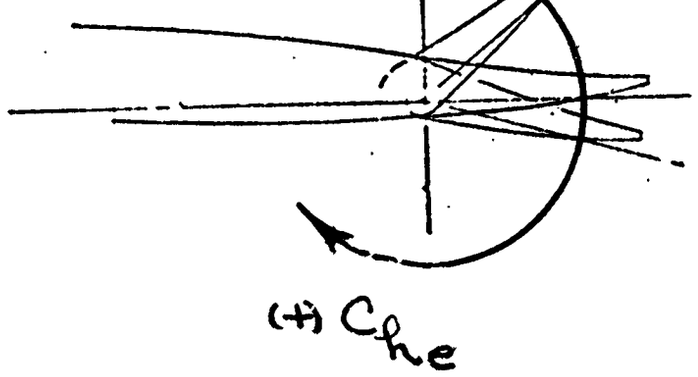


Z_o = 287.0

X_o = 1537

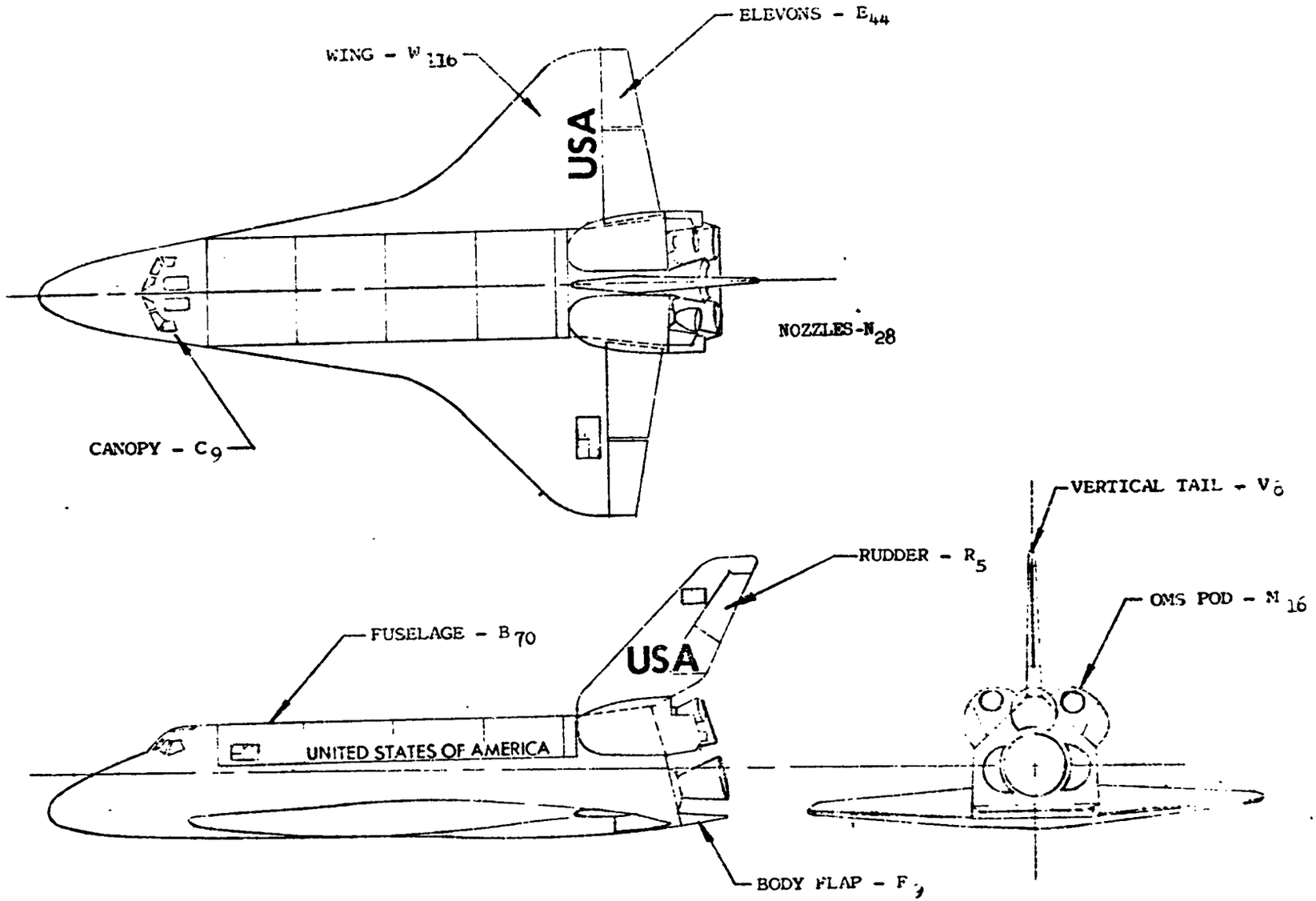
b. Definition of Angular Measurements

Figure 1. - Continued.



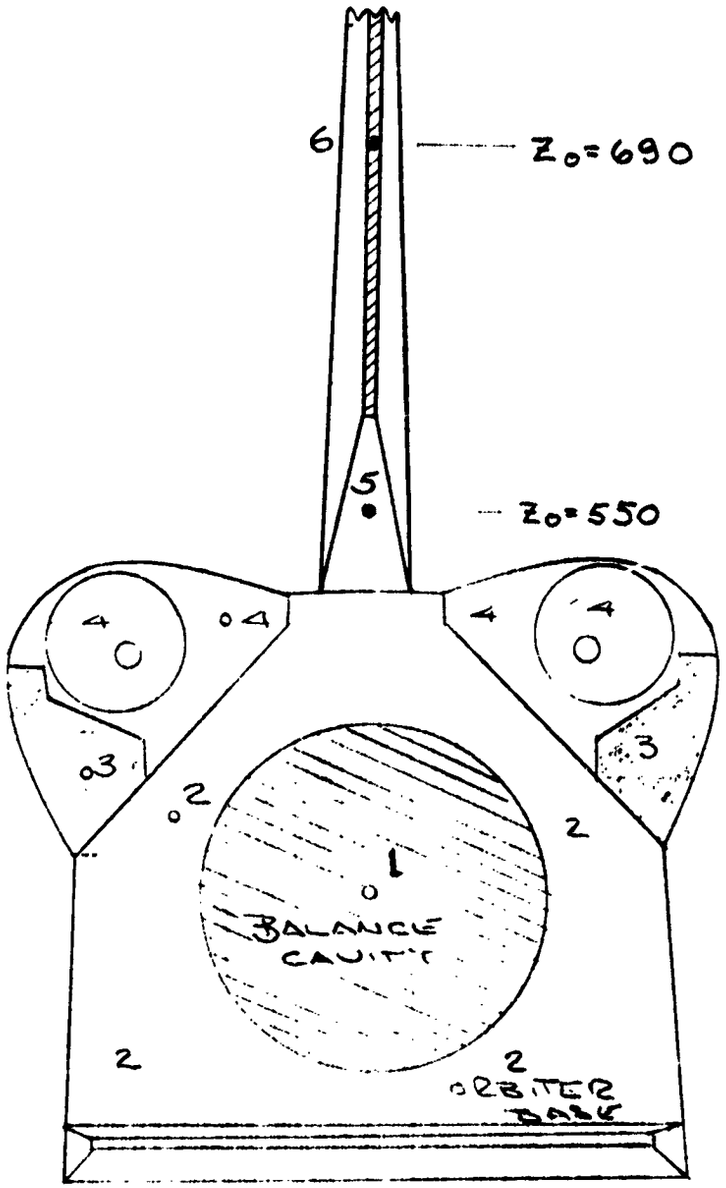
c. Elevon Hinge Moment Sign Convention

Figure 1. - Concluded.



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

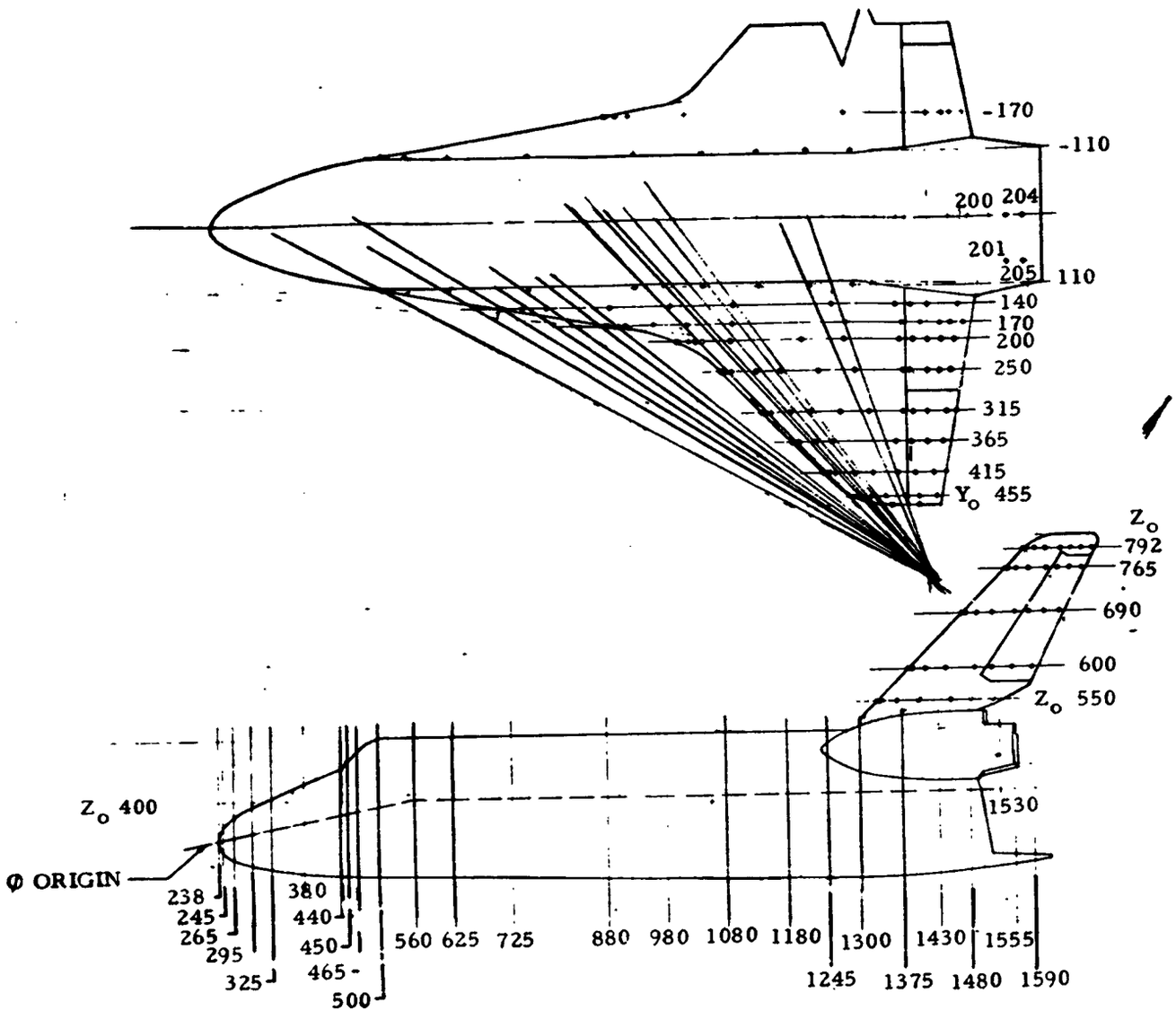
Figure 2. - Model sketches.



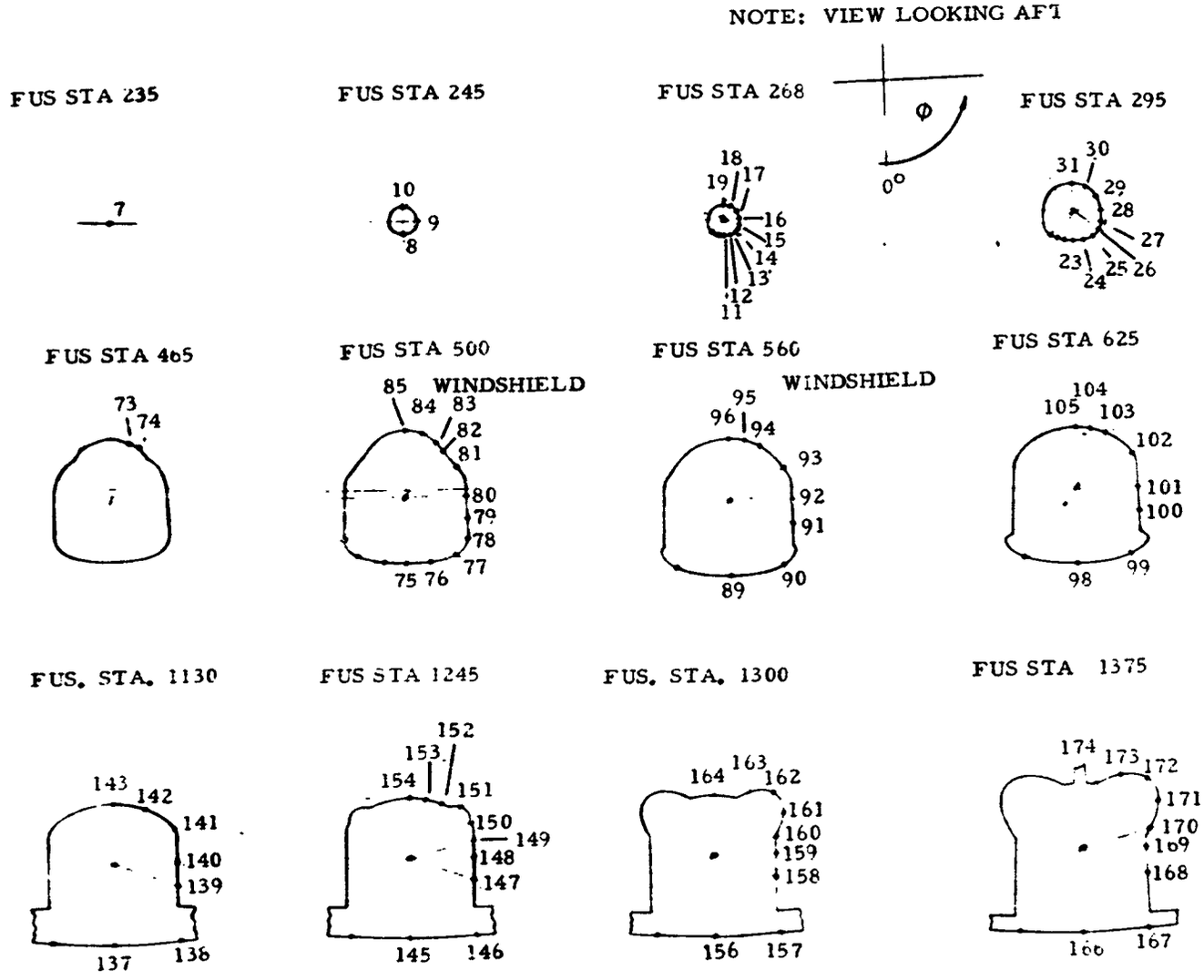
AREA NO.	PROJECTED AXIAL VALUE
A1	0.076699 ft²
A2	0.215695 ft²
A3	0.034072 ft²
A4	0.074167 ft²

b. Base Pressure Taps and Areas

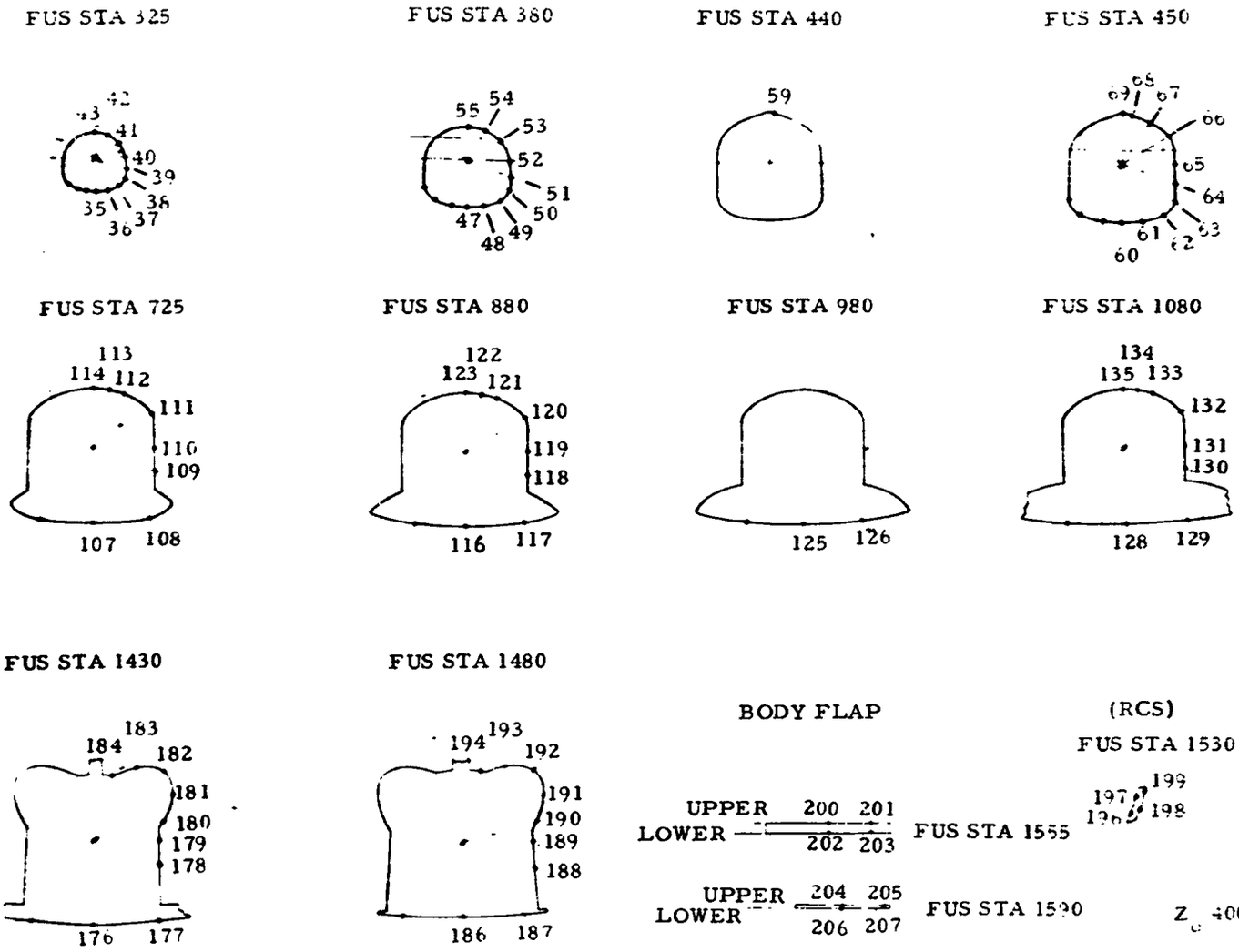
Figure 2. - Continued.



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

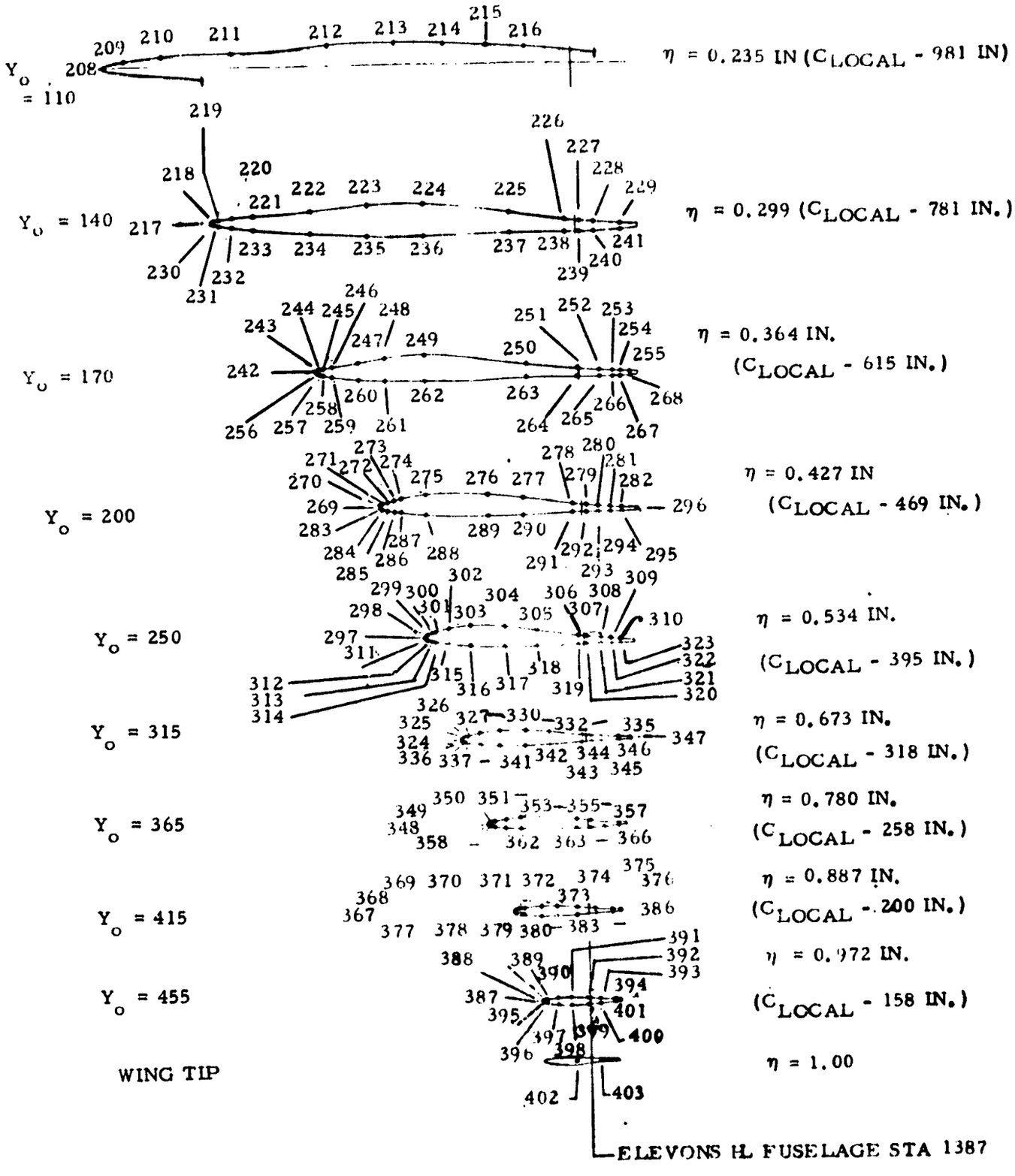


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.



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 7. - Continued.

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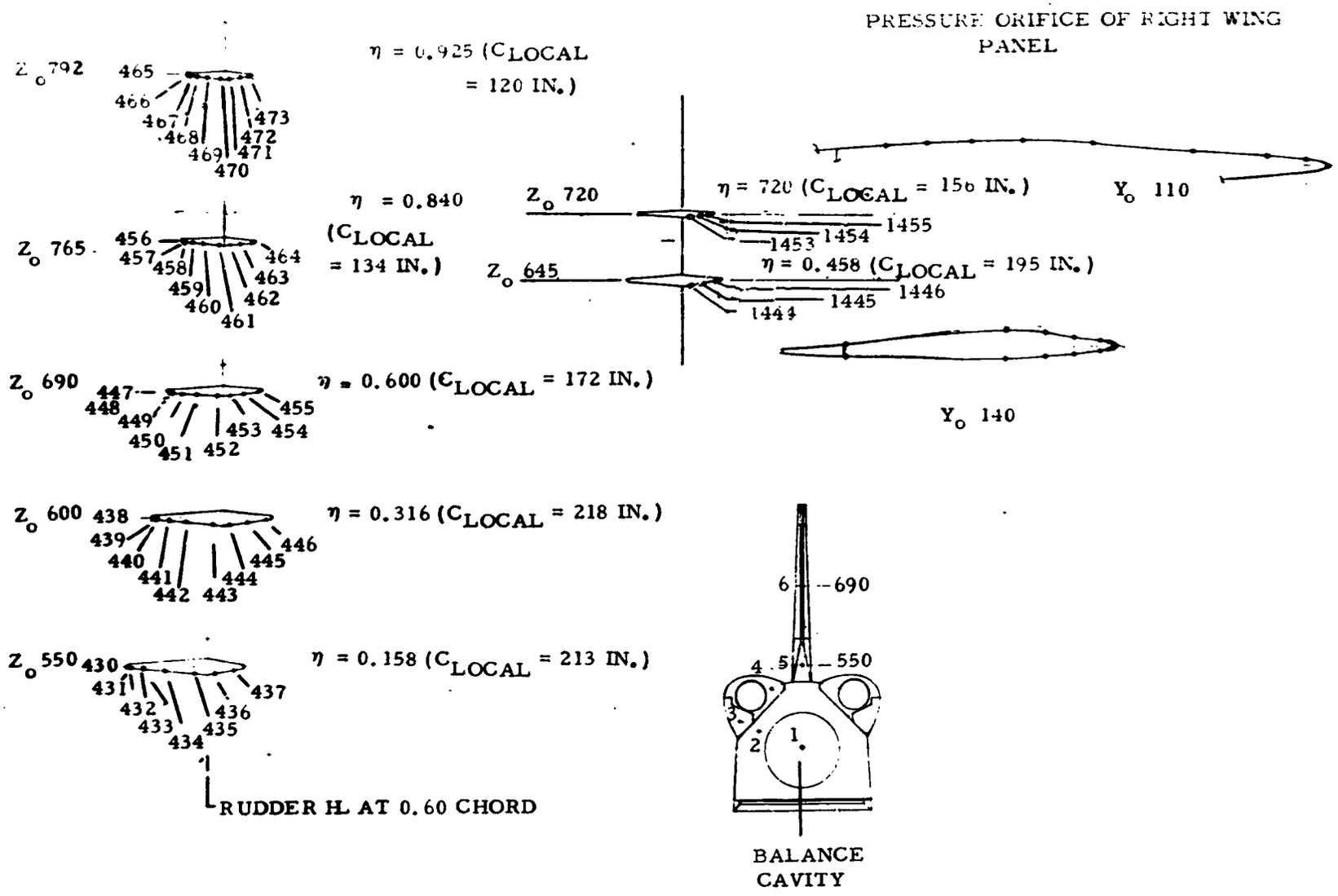
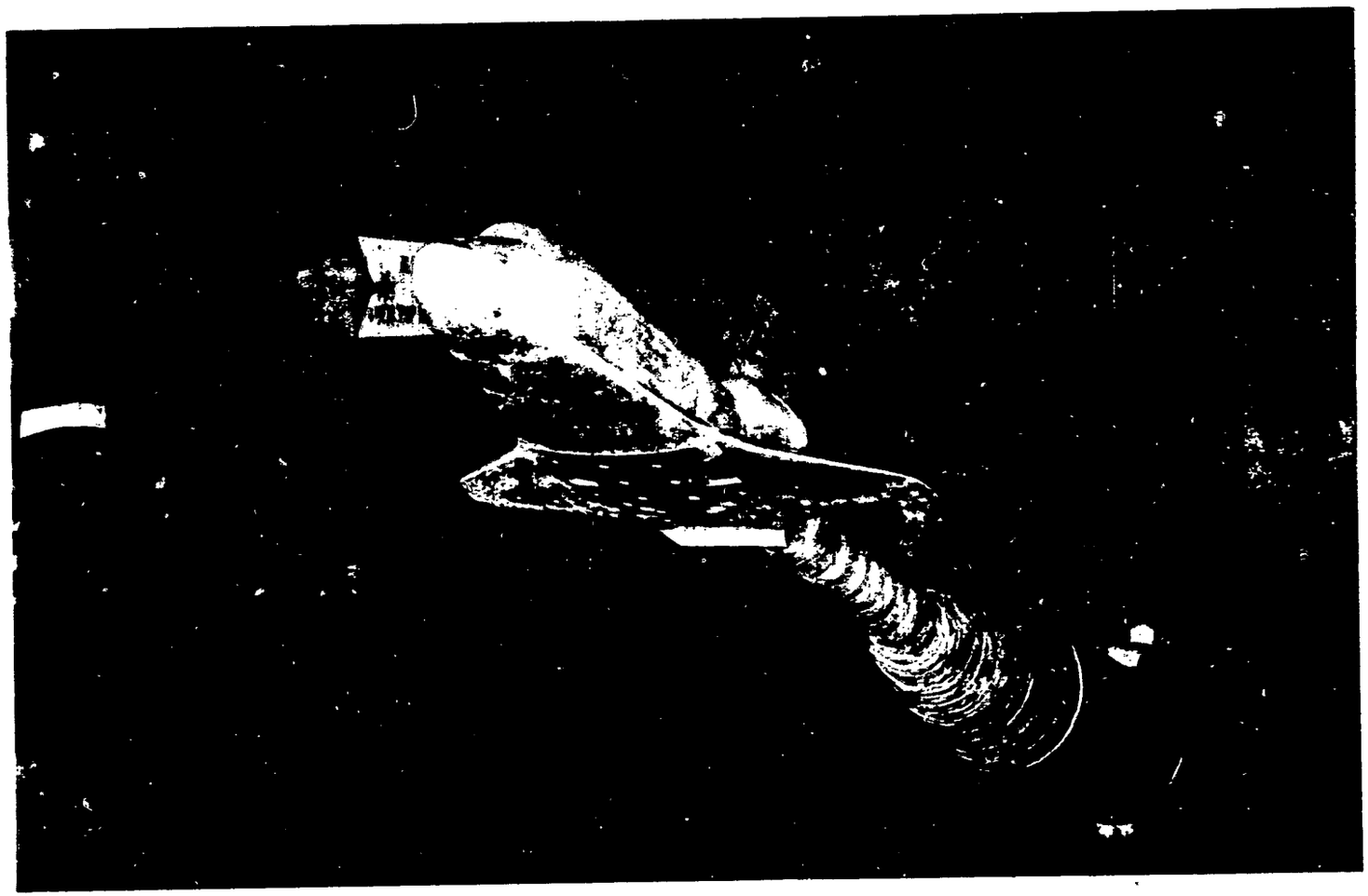


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations

Figure 2. - Concluded.



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

Figure 3. - Model installation photographs.

b. Three Quarter Rear View of Model 47-0 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 ORD LEFT WING TOP (XEBU01) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
RREF = 936.0000 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 TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1396	-.0865	-.1035	.2901	.7031	.6501	.6066	.6307	-.3253	
.010		-.0169	.0037		.7557	.7369	.6956	.6247		
.020		-.0129		.0000	.6734	.6360	.6102	.5853	.0138	
.040			.0516	.3979						
.041	-.0510									
.050					.4645	.4263	.4093	.4056		
.069									-.0394	
.080					.2827					
.081				.3076						
.086			.1656							
.094		-.0051								
.113	-.0290									
.150					.0527	.0532	.0905	.1184		
.157									-.1759	
.163			1.6362							
.177				.1106						
.179		.0750								
.196			.0978							
.197	-.0309									
.200					-.0835	-.1005	-.0896	-.0886		
.224				-.0209						
.245									-.2129	
.247		.1642								
.250			-.0136							
.300					-.2086	-.2646		-.2869		
.318				-.1813						
.318										-.3908
.323	.0515									
.327		.0195								
.503									-.2513	
.547	.0704									
.550					-.2532	-.3091				
.565				-.1787						
.600								-.3600		
.633	-.0333									
.637			-.1481							
.650							-.3633			
.670									-.3329	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8UD1)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.1054				-.3234				
.723										-.3801
.725					-.0468					
.727	-.1087									
.750							-.3487	-.3543		
.760				.0047						
.775					.1052	-.1270				
.793	.2624									
.798			.0561							
.809				.2201						
.834		.1311								
.839			.2072							
.851					.1705	-.0367	-.3201			
.857				.1816						
.869									-.2787	
.875		.1099								
.878			.1652							
.891		.1781			.1467			-.2664		
.906				.1679						
.919			.1342							
.950					.1494	.1049	-.1856			
.953				.1385						
.966			.1339							
.985		.2198								

ALPHA (1) = -4.099 BETA (2) = .154 MACH = 1.3933 Q = 599.80 P = 441.36 PN/L = 2.9078

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1625	-.0740	-.0573	.2564	.6325	.5620	.5147	.5293	-.3873	
.013		-.0516	-.0006		.6657	.6443	.6069	.5434		
.030		-.0604		.0000	.5901	.5519	.5291	.5061	-.0695	
.040			.0268	.3165						
.041	-.1124									
.060					.3980	.3607	.3458	.3463		
.069									-.1099	
.080					.2287					
.091				.2428						
.100			.1311							
.097		-.0464								
.113	-.0914									
.150					.0325	.0269	.0615	.0894		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/CW	.2380	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2271	
.163			1.6377							
.177				.0837						
.229		.0318								
.245			.0658							
.247	-.0534									
.250					-.0920	-.1057	-.1098	-.1098		
.274				-.0268						
.345									-.2476	
.362		.1229								
.390			-.0215							
.400					-.2028	-.2593		-.2902		
.402				-.1847						
.418										-.4533
.439	.0290									
.497		-.0259								
.503									-.2748	
.547	.0477									
.550					-.2482	-.2920				
.565				-.1680						
.600								-.3660		
.633	-.0593									
.637			-.0489							
.650							-.3482			
.677									-.3362	
.700		-.0726				-.2839				
.705										-.4459
.711					-.0109					
.717	-.0396									
.757							-.3334	-.3672		
.761				.0368						
.778					.0984	-.0322				
.794	.2914									
.796			.0477							
.811				.1528						
.824		.0862								
.830			.1375							
.840					.1710	.0040	-.2830			
.861				.1235						
.880									-.2827	
.885		.0286								
.899			.1002							
.901		.1126			.1210			-.2711		
.905				.1082						
.919			.0861							

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.1072	.1074	-.0550			
.953				.0983						
.955			.0716							
.965		.1600								

ALPHA (1) = -4.099 BETA (3) = 4.236 MACH = 1.3933 Q = 599.80 P = 441.38 RN/L = 2.9078

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1725	-.0822	-.0322	.2446	.5570	.4749	.4244	.4300	-.4351	
.010		-.0881	-.0072		.5753	.5489	.5160	.4513		
.020		-.1048		.3271	.5067	.4601	.4441	.4219	-.1454	
.040			.0200	.2652						
.041	-. .51									
.050					.3329	.2896	.2800	.2778		
.069									-.1771	
.080					.1800					
.081				.2006						
.086			.0985							
.094		-.0698								
.113	-.1505									
.150					.0130	-.0045	.0254	.0462		
.157									-.2669	
.163			1.6337							
.177				.0619						
.229		.0154								
.246			.0409							
.247	-.0696									
.250					-.1019	-.1226	-.1218	-.1356		
.274				-.0329						
.345									-.2831	
.352		.1130								
.390			-.0307							
.400					-.2092	-.2591		-.3043		
.402				-.1874						
.418										-.4971
.429	.0200									
.497		-.0442								
.503									-.3029	
.547	.0317									
.550					-.2429	-.2946				
.555				-.1577						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

ALPHA (1) = -.099 BETA (3) = 4.236

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.0913							-.3795		
.637			.0345							
.650										
.670							-.3389			
.700		-.0135							-.3435	
.723						-.1412				
.725										-.4926
.727	-.0948				.0225					
.750										
.760							-.3235	-.3642		
.775				.0286						
.793	.2988				.1027	.0060				
.798			.0321							
.808				.1178						
.834		.0703								
.849			.1044							
.850										
.857					.1490	.0300	-.1168			
.862				.0837						
.865		-.0058							-.2836	
.879			.0569							
.900		.0643								
.905					.0869			-.2051		
.919				.0603						
.950			.0455							
.953					.0688	.0898	2.0399			
.955				.0568						
.965			.0283							
		.1021								

ALPHA (2) = -.075 BETA (1) = -3.908 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0383	.0157	.0159	.4036	.7552	.7104	.6711	.6846	-.1536	
.010		.0165	.0358		.6081	.6425	.5964	.5047		
.030		-.0025		.0000	5042	.5024	.4771	.4560	.0067	
.040			.0539	.2441						
.041	-.0380									
.050					.2882	.2655	.2513	.2558		
.069									-.0625	
.080					.1129					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.091				.1223						
.086			.1118							
.094		-.0561								
.113	-.0344									
.150					-.0842	-.0860	-.0509	-.0150		
.157									-.2207	
.163			1.6388							
.177				-.0238						
.229		-.0070								
.246			-.0009							
.247	-.0569									
.250					-.2300	-.2398	-.2230	-.2023		
.274				-.1500						
.345									-.2789	
.362		.0727								
.390			-.1221							
.400					-.3264	-.3817		-.3828		
.402				-.2751						
.418										-.1829
.429	.0078									
.497		-.0819								
.503									-.3293	
.547	.0030									
.550					-.3603	-.4160				
.565				-.2741						
.600								-.4223		
.633	-.1199									
.637			-.2331							
.650							-.4590			
.670									-.4173	
.700		-.1990				-.4153				
.703										-.2229
.725					-.1908					
.727	-.1753									
.750							-.4616	-.4337		
.760				-.1101						
.775					-.0772	-.2484				
.783	.0262									
.798			-.0755							
.808				.0647						
.834		.0207								
.839			.1255							
.850					-.0164	-.2017	-.4234			
.857				.1116						
.882									-.4006	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.265		.0181								
.879			.1179							
.900		.1027			.0274			-.3573		
.905				.1103						
.919			.0919							
.950					.0802	-.1679	-.2049			
.953				.1042						
.955			.0935							
.965		.1450								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0532	-.0242	-.0300	.3528	.6673	.6160	.5814	.5873	-.2857	
.010		-.0475	-.0134		.5000	.5417	.5068	.4201		
.020		-.0671		.0000	.4030	.4110	.3938	.3724	-.0630	
.040			.0116	.1754						
.041	-.0919									
.050					.2208	.1983	.1887	.1901		
.069									-.1257	
.080					.0660					
.081				.0656						
.086			.0709							
.094		-.1134								
.113	-.1012									
.150					-.1152	-.1193	-.0878	-.0513		
.157									-.2644	
.163			1.6393							
.177				-.0517						
.229		-.0242								
.246			-.0282							
.247	-.1050									
.250					-.2361	-.2586	-.2464	-.2269		
.274				-.1565						
.345									-.3088	
.369		.0474								
.392			-.1255							
.400					-.3096	-.3832		-.3955		
.403				-.2714						
.416										-.2021
.4 9	-.0143									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1038								
.503									-.3480	
.547	-.0155									
.550					-.3430	-.4034				
.565				-.2711						
.600								-.4346		
.633	-.1484									
.637			-.2257							
.650							-.4531			
.670									-.4129	
.700		-.1978				-.3903				
.723										-.2345
.725					-.1350					
.727	-.1767									
.750							-.4354	-.4428		
.760				-.1007						
.775					-.0723	-.1889				
.793	.1266									
.798			-.0535							
.808				.0421						
.834		.0145								
.839			.0549							
.850					.0063	-.1734	-.3807			
.857				.0652						
.862									-.3778	
.865		-.0304								
.879			.0496							
.900		.0317			.0397			-.3640		
.905				.0605						
.919			.0355							
.940					.0721	-.0767	-.1696			
.953				.0540						
.955			.0384							
.985		.0635								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

ALPHA (B) = -.059 BETA (B) = 4.215 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0719	-.1019	-.0878	.2525	.5808	.5309	.4844	.4960	-.2198	
.010		-.1365	-.0563		.3921	.4398	.4020	.3237		
.020		-.1451		.0000	.3195	.3201	.3018	.2836	-.1280	
.040			-.0189	.1196						
.041	-.1381									
.060					.1584	.1302	.1160	.1219		
.063									-.1835	
.080					.0175					
.091				.0363						
.095			.0346							
.094		-.1623								
.113	-.1612									
.150					-.1307	-.1536	-.1214	-.0937		
.157									-.3075	
.163			1.6394							
.177				-.0681						
.189		-.0353								
.196			-.0387							
.247	-.1378									
.250					-.2273	-.2803	-.2708	-.2566		
.274				-.1478						
.345									-.3319	
.352		.0454								
.354			-.1261							
.400					-.3048	-.3712		-.4142		
.402				-.2643						
.418										-.1606
.489	-.0174									
.497		-.1102							-.3575	
.503										
.547	-.0231									
.550					-.3399	-.3922				
.565				-.2620						
.601								-.4537		
.617	-.1682									
.620			-.1598							
.650							-.4421			
.654									-.4098	
.701		-.1752				-.3235				
.703										-.3073
.748					-.1307					
.750	-.1781									
.780							-.4258	-.4494		
.781				-.0865						
.775					-.0603	-.1768				

AMCS 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1645									
.798			-.0473							
.808				.0220						
.834		-.0009								
.839			.0165							
.850					.0214	-.1331	-.2595			
.857				.0255						
.862									-.3690	
.865		-.0611								
.879			.0022							
.900		-.0095			.0381			-.3422		
.905				.0161						
.919			-.0078							
.950					.0470	-.0256	-.1723			
.953				.0105						
.955			-.0081							
.965		.0019								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0458	.0245	-.0411	.3795	.7512	.7368	.7104	.7024	.0716	
.010		-.0201	-.0573		.3857	.4893	.4528	.3434		
.020		-.0377		.0000	.2858	.3264	.3168	.2814	-.0549	
.040			-.0478	.0407						
.041	-.0257									
.050					.0819	.0983	.0914	.0874		
.060									-.1028	
.080					-.0723					
.091				-.0666						
.096			-.0107							
.094		-.0853								
.113	-.0431									
.150					-.2813	-.2398	-.1952	-.1509		
.157									-.2765	
.183			1.6360							
.177				-.1876						
.223		-.0882								
.246			-.1234							
.247	-.0650									
.250					-.3436	-.3749	-.3458	-.3085		

AMES 11-073(OA148) -140A/B/C/R OR3 LEFT WING TOP (XEBU01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.3340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2835						
.345									-.3459	
.362		-.0215								
.390			-.2251							
.400					-.4336	-.4834		-.4590		
.402				-.3645						
.418										-.1351
.429	-.0610									
.497		-.1649								
.503									-.4207	
.547	-.0719									
.560					-.4449	-.5164				
.565				-.3590						
.600								-.4835		
.633	-.2169									
.637			-.3101							
.650							-.5066			
.670									-.5339	
.700		-.2801				-.5162				
.723										-.4219
.725					-.2473					
.727	-.2458									
.750							-.5365	-.4815		
.760				-.1709						
.775					-.2070	-.3590				
.793	-.1732									
.798			-.1650							
.808				-.1197						
.834		-.0706								
.839			-.0287							
.850					-.1843	-.2639	-.4958			
.857				-.0499						
.882									-.5894	
.885		-.0551								
.909			.0375							
.900		.0597			-.1705			.4261		
.905				.0055						
.919			.0490							
.950					-.1020	-.2013	-.2672			
.953				.0453						
.955			.0545							
.985		.0642								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	.0145	-.0797	-.1995	.2612	.6465	.6374	.6172	.5977	.0180	
.010		-.1326	-.1967		.2692	.3777	.3515	.2436		
.020		-.1369		.0000	.1823	.2302	.2265	.1911	-.1205	
.040			-.1517	-.0249						
.041	-.0775									
.060					.0110	.0242	.0221	.0160		
.069									-.1629	
.080					-.1241					
.091				-.1115						
.099			-.0761							
.094		-.1459								
.113	-.1026									
.150					-.3092	-.2820	-.2366	-.1961		
.157									-.3170	
.183			1.6367							
.177				-.2078						
.209		-.1250								
.246			-.1387							
.247	-.1185									
.250					-.3589	-.3943	-.3715	-.3387		
.274				-.2857						
.345									-.3761	
.352		-.0335								
.390			-.2235							
.400					-.4252	-.4928		-.4766		
.402				-.3538						
.418										-.2507
.429	-.0732									
.437		-.1783								
.503									-.4421	
.547	-.0859									
.550					-.4148	-.5097				
.555				-.3462						
.600								-.4988		
.603	-.2361									
.654			-.3069							
.656							-.5202			
.710									-.5425	
.713		-.2786				-.4947				
.763										-.5449
.765					-.1948					
.767	-.2474									
.820							-.5370	-.4914		
.823				-.1674						
.875					-.1970	-.2630				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0178									
.798			-.1375							
.808				-.1043						
.834		-.0297								
.839			-.0333							
.850					-.1786	-.2199	-.3695			
.857				-.0736						
.862									-.5794	
.865		-.0793								
.879			-.0309							
.900		-.0183			-.1429			-.4361		
.905				-.0280						
.919			.0027							
.950					-.0708	-.1647	-.2527			
.953				-.0014						
.955			.0074							
.965		-.0109								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0210	-.2163	-.4127	.1378	.5412	.5409	.5248	.5052	-.0608	
.010		-.2721	-.3579		.1579	.2681	.2407	.1461		
.020		-.2518		.0000	.0819	.1331	.1276	.0977	-.1968	
.040			-.2155	-.0795						
.041	-.1197									
[illegible]					-.0578	-.0474	-.0536	-.0604		
[illegible]									-.2264	
[illegible]					-.1693					
[illegible]				-.1446						
[illegible]			-.1132							
[illegible]		-.2103								
[illegible]	-.1588									
[illegible]					-.3088	-.3126	-.2761	-.2437		
[illegible]									-.3598	
[illegible]			1.6351							
[illegible]				-.1955						
.229		-.1264								
[illegible]			-.1324							
[illegible]	-.1617									
[illegible]					-.3494	-.4136	-.4005	-.3703		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.2630						
.345										
.362		-.0275							-.4131	
.380			-.2105							
.400					-.3911	-.4828		-.4961		
.402				-.3369						
.418										
.429	-.0716									-.4023
.497		-.1788								
.503										
.547	-.0799								-.4675	
.580										
.585					-.4024	-.4912				
.600				-.3341						
.633	-.2461							-.5094		
.637			-.2959							
.650							-.5261			
.670										
.683		-.2754							-.5534	
.733						-.3607				
.735										-.6486
.737	-.2435				-.1860					
.750										
.760							-.5115	-.4999		
.775				-.1620						
.793	.1041				-.2000	-.2397				
.798			-.0950							
.809				-.1036						
.824		-.0337								
.839			-.0478							
.850					-.1488	-.2166	-.3094			
.857				-.0846						
.862										
.865		-.1116							-.5692	
.879			-.0669							
.900		-.0549			-.1126					
.905				-.0498				-.2965		
.919			-.0297							
.950					-.0489	-.1659	-.2558			
.953				-.0312						
.956			-.0332							
.965		-.0708								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

ALPHA [illegible] = [illegible].859 BETA ([illegible]) = -3.903 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cw \ Z/Cw	.2350	.2930	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
.000	.0885	-.0696	-.2277	.2588	.6864	.7091	.6966	.6660	.0102	
.010		-.1547	-.2505		.1541	.2963	.2584	.1261		
.020		-.1456		.0000	.0458	.1257	.1222	.0672	-.2383	
.040			-.1875	-.1687						
.041	-.0260									
.050					-.1231	-.0875	-.0873	-.1101		
.069									-.2653	
.080					-.2509					
.081				-.2647						
.086			-.1306							
.094		-.1206								
.113	-.0408									
.150					-.4220	-.3782	-.3428	-.3018		
.157									-.4031	
.163			1.6359							
.177				-.3942						
.229		-.1266								
[illegible]			-.2737							
[illegible]	-.0652									
[illegible]					-.5122	-.4909	-.4584	-.4209		
[illegible]				-.4306						
[illegible]									-.4950	
[illegible]		-.1192								
[illegible]			-.3377							
[illegible]					-.5706	-.5774		-.4829		
[illegible]				-.4521						
[illegible]										-.3993
[illegible]	-.1172									
[illegible]		-.2660								
[illegible]									-.5234	
[illegible]	-.1746									
[illegible]					-.5622	-.5345				
[illegible]				-.4253						
[illegible]								-.4792		
[illegible]	-.3096									
[illegible]			-.3985							
[illegible]							-.4859			
[illegible]									-.6252	
[illegible]		-.3694				-.4783				
[illegible]										-.6325
[illegible]					-.3745					
[illegible]	-.3185									
[illegible]							-.4243	-.4392		
[illegible]				-.2355						
[illegible]					-.3407	-.4533				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESL01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BA	.2350	.3930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2884									
.798			-.2141							
.808				-.2319						
.834		-.1471								
.839			.1614							
.850					-.2741	-.4163	-.4258			
.857				-.1930						
.882									-.6142	
.885		-.1271								
.879			-.0648							
.900		.0083			-.2128			-.4225		
.905				-.1006						
.919			.0228							
.942					-.1805	-.3325	-.4029			
.963				-.0415						
.935			.0655							
.905		.0486								

ALPHA (4) = 7.859 BETA (2) = .143 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.8058

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BA	.2350	.3930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0324	-.2221	-.4437	.0665	.5383	.5802	.5792	.5443	-.1429	
.010		-.3011	-.4023		.0004	.1438	.1211	.0074		
.020		-.2765		.0000	-.1014	-.0020	.0070	-.0461	-.3476	
.040			-.3221	-.2825						
.041	-.0704									
.050					-.2464	-.1915	-.1801	-.1993		
.069									-.3552	
.080					-.3457					
.091				-.3493						
.095			-.2303							
.099		-.1881								
.113	-.1007									
.130					-.4781	-.4300	-.3950	-.3583		
.150									-.4549	
.163			1.6394							
.177				-.4292						
.188		-.1859								
.246			-.2736							
.247	-.1205									
.250					-.5307	-.5215	-.4941	-.4584		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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

ALPHA (A) = 7.988 BETA (B) = .143

DEPENDENT VARIABLE CP

Y/CW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.3686						
.345										
.362		-.1470							-.5239	
.390			-.3043							
.402					-.5387	-.5930		-.5102		
.418				-.4093						
.439	-.1698									-.5393
.497		-.2648								
.503										
.547	-.1579								-.5485	
.550										
.585					-.4690	-.5763				
.610				-.3998						
.633	-.3072							-.5036		
.637			-.3914							
.650							-.5248			
.670										
.700		-.3552							-.5535	
.703						-.4991				
.735										-.5443
.737	-.3053				-.2324					
.760							-.4500	-.4636		
.770				-.2090						
.793	-.1189				-.2292	-.4212				
.798			-.1858							
.813				-.2176						
.824		-.0471								
.839			-.1176							
.850					-.2037	-.4054	-.4408			
.874				-.1875						
.900										
.902		-.1022							-.5523	
.919			-.1114							
.924		-.0493			-.2269			-.4357		
.941				-.1365						
.947			-.0372							
.962					-.1767	-.3256	-.4024			
.965				-.0735						
.985			.0004							
1.000		-.0509								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0281	-.4051	-.4202	-.1429	.3692	.4443	.4495	.4070	-.3110	
.010		-.3860	-.4131		-.1662	.0120	-.0167	-.1149		
.020		-.3862		.0000	-.2587	-.1150	-.1125	-.1596	-.4585	
.040			-.4009	-.3261						
.041	-.1173									
.050					-.3736	-.2776	-.2679	-.2950		
.069									-.4828	
.080					-.4323					
.081				-.3057						
.086			-.3754							
.094		-.3702								
.113	-.1598									
.150					-.4963	-.4752	-.4463	-.4172		
.157									-.5060	
.163			1.6409							
.177				-.3187						
.229		-.2088								
.246			-.4261							
.247	-.1816									
.250					-.4784	-.5516	-.5276	-.4990		
.274				-.3409						
.345									-.5309	
.362		-.1102								
.390			-.2826							
.400					-.4487	-.6063		-.5248		
.402				-.3918						
.418										-.5391
.429	-.1636									
.497		-.2427								
.502									-.5412	
.547	-.1452									
.550					-.4410	-.5755				
.555				-.4122						
.600								-.5184		
.633	-.3025									
.637			-.3769							
.650							-.5420			
.670									-.5094	
.700		-.3306				-.4712				
.703										-.4833
.745					-.2519					
.747	-.3024									
.750							-.4748	-.4485		
.760				-.1985						
.775					-.2529	-.3635				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

ALPHA (4) = 7.969 BETA (3) = 4.207

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0251									
.799			-.1545							
.808				-.1909						
.834		-.1119								
.839			-.1271							
.850					-.2041	-.2731	-.4463			
.857				-.1142						
.862									-.4936	
.865		-.1573								
.873			-.1149							
.901		-.0945			-.1671			-.4148		
.915				-.1527						
.919			-.0698							
.950					-.1184	-.1883	-.3846			
.953				-.1005						
.965			-.0891							
.965		-.0914								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0101	-.2506	-.3743	.1081	.5959	.6395	.6328	.5703	-.1888	
.010		-.3114	-.3407		-.0330	.1112	.0462	-.0850		
.022		-.3012		.0000	-.1403	-.0422	-.0713	-.1389	-.4972	
.040			-.2781	-.3272						
.041	-.0242									
.060					-.2881	-.2316	-.2426	-.2865		
.069									-.4970	
.080					-.3070					
.081				-.3940						
.086			-.2082							
.094		-.994								
.113	-.0531									
.150					-.5146	-.4735	-.4511	-.4273		
.197									-.5311	
.203			1.6440							
.217				-.4794						
.229		-.1665								
.246			-.2964							
.247	-.0629									
.250					-.5777	-.5183	-.5163	-.5037		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

ALPHA (S' = 11.904 BETA (I) = -3.884

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.4731						
.345									-.5373	
.362		-.1469								
.390			-.3832							
.400					-.5403	-.5040		-.4994		
.402				-.4942						
.418										-.5491
.429	-.1397									
.497		-.3596								
.503									-.5514	
.547	-.2186									
.550					-.4942	-.5016				
.565				-.4736						
.600								-.4911		
.633	-.4044									
.637			-.4714							
.650							-.4842			
.670									-.5094	
.700		-.4723				-.5018				
.723										-.4832
.725					-.4796					
.727	-.4120									
.750							-.4509	-.4765		
.760				-.3480						
.775					-.4678	-.4581				
.793	-.3839									
.799			-.2280							
.808				-.3971						
.834		-.1727								
.840			-.2902							
.848					-.4268	-.4490	-.4564			
.867				-.3810						
.882									-.5108	
.895		-.1379								
.879			-.2401							
.900		.0500			-.4054			-.4949		
.905				-.3189						
.919			-.2122							
.930					-.3754	-.3724	-.4191			
.953				-.2589						
.955			-.1703							
.965		-.0324								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

ALPHA (1) = 11.913 BETA (2) = .151 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.0689	-.3684	-.3706	-.0923	.4210	.4770	.4714	.4073	-.3616	
.010		-.3198	-.3704		-.1819	-.0438	-.1012	-.2141		
.020		-.3131		.0000	-.2803	-.1827	-.2082	-.2674	-.5643	
.040			-.3509	-.3794						
.041	-.0930									
.050					-.4018	-.3403	-.3521	-.3856		
.069									-.5387	
.080					-.4815					
.081				-.4122						
.086			-.3249							
.094		-.3592								
.113	-.1304									
.150					-.5782	-.5368	-.5157	-.4957		
.167									-.5368	
.183			1.6430							
.197				-.4323						
.209		-.4266								
.246			-.3998							
.247	-.1140									
.250					-.6154	-.6056	-.5712	-.5527		
.274				-.4651						
.345									-.5557	
.362		-.3059								
.390			-.4151							
.420					-.5775	-.5797		-.5420		
.422				-.5032						
.478										-.5637
.489	-.2020									
.497		-.4151								
.603									-.5695	
.647	-.2819									
.650					-.5701	-.5792				
.665				-.4776						
.800								-.5392		
.833	-.4169									
.837			-.5010							
.850							-.5345			
.877									-.5297	
.910		-.4345				-.5532				
.923										-.5084
.935					-.4942					
.937	-.4037									
.950							-.5016	-.5105		
.967				-.2525						
.974					-.4935	-.5037				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1934									
.798			-.2151							
.808				-.2966						
.834		-.1562								
.839			-.2327							
.850					-.4279	-.4161	-.4879			
.857				-.2928						
.862									-.5318	
.865		-.1662								
.879			-.2024							
.900		-.0970			-.3490			-.5162		
.905				-.2713						
.919			-.0949							
.930					-.2656	-.3358	-.4194			
.953				-.3200						
.955			-.1514							
.965		-.0517								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1550	-.3955	-.4151	-.3098	.2397	.3008	.3009	.2337	-.4786	
.010		-.3883	-.4146		-.3205	-.1878	-.2365	-.3473		
.020		-.3879		.0000	-.3982	-.3133	-.3348	-.3860	-.5607	
.040			-.4213	-.4012						
.041	-.1814									
.060					-.4935	-.4393	-.4487	-.4803		
.069									-.5595	
.080					-.5528					
.081				-.4208						
.096			-.3918							
.099		-.4444								
.113	-.1681									
.120					-.5917	-.5937	-.5719	-.5604		
.137									-.5614	
.163			1.6410							
.177				-.4256						
.200		-.5411								
.218			-.4276							
.247	-.2022									
.250					-.5898	-.6451	-.6247	-.6005		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.4134						
.345									-.5739	
.362		-.3957								
.380			-.4103							
.400					-.6152	-.6328		-.5928		
.402				-.4629						
.418										-.5692
.429	-.2783									
.497		-.3724								
.513									-.5827	
.547	-.2418									
.580					-.5310	-.6304				
.605				-.4785						
.620								-.5750		
.633	-.3876									
.637			-.4723							
.660							-.6024			
.670									-.5560	
.700		-.3707				-.5444				
.703										-.5430
.735					-.2729					
.737	-.3747									
.750							-.5412	-.5577		
.760				-.2627						
.775					-.3104	-.5332				
.793	-.0582									
.799			-.2336							
.809				-.3031						
.834		-.1797								
.839			-.2458							
.850					-.2945	-.5175	-.5146			
.857				-.3008						
.882									-.5500	
.885		-.2231								
.893			-.1633							
.900		-.1654			-.2890			-.5303		
.915				-.2453						
.919			-.1645							
.930					-.2770	-.3252	-.4230			
.943				-.1950						
.955			-.1597							
.965		-.1669								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.000	-.0466	-.3315	-.3119	-.0137	.4860	.5221	.5052	.4125	-.3335	
.010		-.2925	-.3045		-.1815	-.0602	-.1405	-.2873		
.020		-.2844		.0000	-.2824	-.2098	-.2562	-.3342	-.6083	
.040			-.2812	-.3430						
.041	-.1706									
.050					-.4062	-.3631	-.3915	-.4389		
.069									-.5801	
.080					-.4853					
.081				-.3691						
.086			-.2585							
.094		-.3009								
.113	-.0486									
.150					-.5823	-.5528	-.5410	-.5376		
.167									-.5784	
.183			1.6414							
.197				-.3948						
.229		-.3689								
.248			-.3705							
.249	-.0934									
.250					-.5636	-.5713	-.5602	-.5754		
.274				-.4427						
.345									-.5894	
.365		-.3859								
.390			-.4140							
.400					-.5557	-.5625		-.5658		
.402				-.5076						
.418										-.6100
.469	-.1703									
.497		-.4895								
.504									-.5987	
.547	-.2644									
.570					-.5641	-.5747				
.595				-.5366						
.603								-.5755		
.633	-.4834									
.637			-.5258							
.650							-.5631			
.670									-.5634	
.700		-.5260				-.5725				
.723										-.5363
.735					-.5333					
.737	-.5405									
.750							-.5209	-.5601		
.760				-.3191						
.775					-.5477	-.5201				

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING TOP (XEBU01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.3921									
.798			-.3159							
.808				-.3900						
.834		-.2465								
.839			-.3513							
.850					-.4655	-.4922	-.5223			
.857				-.4323						
.862									-.5589	
.865		-.2145								
.879			-.2594							
.900		-.2016			-.4612			-.5785		
.905				-.4562						
.919			-.2536							
.950					-.4168	-.4310	-.4922			
.953				-.4161						
.955			-.2732							
.965		-.2028								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1532	-.3910	-.3744	-.2577	.3013	.3420	.3218	.2313	-.4682	
.010		-.3745	-.3713		-.3224	-.2071	-.2743	-.3911		
.020		-.3750		.0000	-.4024	-.3368	-.3726	-.4356	-.5842	
.040			-.3709	-.3769						
.041	-.3297									
.050					-.4383	-.4580	-.4821	-.5208		
.069									-.5845	
.080					-.5589					
.081				-.4047						
.095			-.3399							
.094		-.4003								
.113	-.1415									
.150					-.6189	-.6053	-.5960	-.5934		
.157									-.5876	
.163			1.6377							
.169				-.4601						
.189		-.4404								
.190			-.4489							
.197	-.1986									
.200					-.6040	-.6151	-.5936	-.6011		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.276				-.5018						
.345										
.362		-.4862							-.5990	
.390			-.4720							
.400					-.5936	-.6060		-.5987		
.402				-.5511						
.418										
.429	-.2731									-.6055
.497		-.5413								
.503										
.547	-.3507								-.6114	
.550					-.5936	-.6124				
.589				-.5271						
.603										
.633	-.5128							-.5900		
.637			-.5283							
.650							-.5936			
.670										
.700		-.5086							-.5756	
.713						-.6101				
.726										-.5576
.734					-.5547					
.734	-.5325									
.750							-.5562	-.5750		
.760				-.3570						
.776					-.5797	-.5453				
.793	-.3211									
.798			-.2630							
.808				-.3817						
.834		-.2003								
.839			-.2425							
.850					-.5432	-.4744	-.5414			
.857				-.3912						
.862										
.865		-.2273							-.5721	
.879			-.2432							
.880		-.1815								
.905					-.5170			-.5817		
.918				-.3844						
.918			-.2940							
.950					-.4930	-.41.3	-.4936			
.953				-.4120						
.956			-.3186							
.965		-.1954								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

ALPHA (B) = 15.501 BETA (B) = 4.249 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.2601	-.4246	-.4492	-.4251	.1222	.1681	.1513	.0580	-.5441	
.010		-.4263	-.4473		-.4337	-.3335	-.3912	-.4997		
.020		-.4308		.0000	-.5023	-.4470	-.4724	-.5327	-.5691	
.040			-.4473	-.4017						
.041	-.4407									
.050					-.5705	-.5411	-.5565	-.5909		
.069									-.5670	
.080					-.6125					
.081				-.4340						
.086			-.4066							
.094		-.4599								
.113	-.2300									
.150					-.6169	-.6466	-.6384	-.6019		
.157									-.5667	
.163			1.6415							
.177				-.5014						
.229		-.4944								
.246			-.5166							
.247	-.2770									
.250					-.6272	-.6351	-.6185	-.5988		
.274				-.5093						
.345									-.5644	
.362		-.5357								
.390			-.4813							
.400					-.6337	-.6287		-.5895		
.402				-.5071						
.418										-.5656
.429	-.3524									
.497		-.5144								
.503									-.5768	
.547	-.3849									
.590					-.6293	-.6256				
.595				-.5222						
.600								-.5665		
.633	-.4674									
.637			-.4679							
.650							-.5939			
.670									-.5539	
.700		-.4353				-.5997				
.723										-.5466
.725					-.4793					
.727	-.4455									
.750							-.5663	-.5532		
.760				-.3728						
.775					-.4983	-.5682				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U01)

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2251									
.798			-.2784							
.808				-.3850						
.834		-.2216								
.839			-.3189							
.850					-.4762	-.4923	-.5500			
.957				-.3451						
.862									-.5474	
.865		-.2733								
.879			-.2386							
.900		-.2127			-.4827			-.5499		
.915				-.3709						
.919			-.2677							
.950					-.4999	-.4135	-.5281			
.953				-.3858						
.955			-.2834							
.965		-.2243								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8UD2) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 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 = 55.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = .000 MACH = 1.250

ALPHA (1) = -4.081 BETA (1) = -3.888 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2033	-.0854	-.1207	.2631	.6587	.5967	.5525	.5755	-.4406	
.010		-.0384	-.0159		.7295	.7022	.6647	.5910		
.020		-.0401		.0000	.6512	.6063	.5782	.5480	-.0544	
.040			.0429	.4159						
.041	-.1040									
.050					.4435	.3943	.3725	.3674		
.069									-.1137	
.080					.2591					
.081				.2956						
.085			.1660							
.094		-.0070								
.113	-.0599									
.150					.0164	.0080	.0191	.0443		
.157									-.2555	
.163			1.4453							
.177				.0985						
.229		.0520								
.245			.0933							
.247	-.0069									
.250					-.1220	-.1470	-.1372	-.1572		
.274				-.0431						
.345									-.3002	
.362		.1593								
.390			-.0194							
.400					-.2530	-.3187		-.3866		
.402				-.1986						
.418										
.419	.0459									-.5139
.450		.0164								
.503									-.3436	
.547	.0650									
.550					-.1392	-.3671				
.565				-.0065						
.611								-.4592		
.637	-.0506									
.637			.1410							
.661							-.4350			
.670									-.4318	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.700		.1092				-.1277				-.4860
.723										
.725					.0609					
.727	-.0635						-.3237	-.4348		
.750										
.760				.0474						
.775					.1563	.0185				
.793	.3365									
.798			.0491							
.808				.1648						
.814		.0844								
.826			.1624							
.850					.1327	.0197	-.0663			
.867				.1273					-.3635	
.874										
.885		.0631								
.898			.1433							
.910		.1176			.0645			-.1421		
.926				.1049						
.939			.0596							
.950					.0972	.1523	.1590			
.962				.0598						
.966			.1092							
.975		.1694								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.700	-.2245	-.0805	-.0761	.2294	.5905	.5085	.4587	.4775	-.5165	
.710		-.0869	-.0192		.6499	.6204	.5804	.5157		
.730		-.0907		.0000	.5780	.5280	.5013	.4787	-.1365	
.740			.0257	.3496						
.741	-.1751									
.750					.3913	.3386	.3164	.3125		
.763									-.1761	
.780					.2268					
.791				.2413						
.800			.1261							
.814		-.0278								
.813	-.1203									
.850					.0130	-.0104	.0013	.0305		

REPRODUCIBILITY OF
ORIGINAL PAGE IS

DATE [illegible] FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 3177

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING TOP YEBU021

ALPHA (1) = -4.075 BETA (2) = .15[illegible]

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
.157										
.163			1.4455						-.3097	
.177				.0883						
.229		.0270								
.246			.0692							
.247	-.0273									
.250					-.1196	-.1590	-.1556	-.1747		
.274				-.0437						
.345										
.352		.1404							-.3324	
.390			-.0322							
[illegible]					-.2447	-.3060		-.3908		
[illegible]				-.1945						
.418										
.429	.0302									-.5352
.497		-.0126								
.503										
.547	.0474								-.3636	
.550					.0099	-.3408				
.555				.1099						
.600										
.633	-.0590							-.4484		
[illegible]			.1911							
[illegible]							-.3664			
.670										
[illegible]		.1798				-.0444			-.4204	
[illegible]										
[illegible]					.0816					-.5598
[illegible]	.0973									
[illegible]							-.0593	-.3362		
[illegible]				.0296						
[illegible]					.1132	.0375				
[illegible]	.3330									
[illegible]			.0246							
[illegible]				.1082						
[illegible]		.0535								
[illegible]			.1052							
[illegible]					.0938	-.0261	.0360			
[illegible]				.0718						
[illegible]		.0141							-.1644	
[illegible]			.0929							
[illegible]		.0779			.0166			-.0518		
[illegible]				.0552						
.919			.0136							

AM[illegible] [illegible]148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

ALPHA (1) = -4.075 BETA (2) = [illegible]

SECTION (1)LEFT WING TOP SURF VARIABLE CP

2Y/BW	.2350	.2990	.3640	.42[illegible]		.6730	.7800	.8870	.9720	1.0000
X/CW										
.930					.0370	.0832	.1601			
.953				.0143						
.955			.0499							
.965		.1190								

ALPHA (1) = -4.083 BETA (3) = 4.234 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2101	-.1009	-.0444	.2486	.5315	.4321	.3737	.3851	-.5673	
.010		-.1119	-.0056		.5739	.5309	4940	.4326		
.020		-.1281		.0000	.5073	.4515	.4221	.3984	-.2155	
.040			.0218	.3061						
.041	-.2201									
.050					.3407	.2750	.2496	.2475		
.069									-.2465	
.080					.1870					
.081				.2045						
.085			.1110							
.094		-.0415								
.113	-.1712									
.150					-.0057	-.0400	-.0183	-.0058		
.157									-.3616	
.163			1.4463							
.177				.0693						
.229		.0093								
.246			.0673							
.247	-.0247									
.250					-.1280	-.1773	-.1896	-.2039		
.274				-.0520						
.345									-.3717	
.362		.1364								
.390			-.0422							
.400					-.2440	-.3047		-.4002		
.402				-.1960						
.418										-.6350
.429	.0338									
.497		-.0336								
.503									-.3798	
.547	.0421									
.550					.0729	-.0922				
.565				.1542						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.0746							-.4446		
.637			.2026							
.650							-.1268			
.670									-.2668	
.700		.1970				.0115				
.723										-.5355
.725					.0751					
.727	.1260									
.750							-.0022	-.1566		
.760				.0111						
.775						.0744	.0206			
.796	.3315									
.799			.0053							
.809				.0693						
.824		.0358								
.833			.0616							
.850						.0624	-.0698	.0181		
.857				.0240						
.862									-.1047	
.865		-.0241								
.879			.0378							
.900		.0396			-.0174					
.905				.0185				.1265		
.919			-.0240							
.950						-.0222	.0153	.1175		
.953				-.0183						
.955			-.0112							
.965		.0626								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0918	.0110	.0019	.4159	.7166	.6675	.6302	.6433	-.2515	
.010		-.0319	.0333		.5753	.6015	.5621	.4681		
.020		-.0293		.0000	.4707	.4542	.4388	.4127	-.0594	
.040			.0509	.2489						
.041	-.0868									
.050					.2386	.2023	.1962	.2017		
.080									-.1353	
.090					.0489					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1217						
.086			.1117							
.094		-.0869								
.113	-.0575									
.150					-.1579	-.1532	-.1436	-.1100		
.157									-.3159	
.163			1.4489							
.177				-.0734						
.229		-.0071								
.245			-.0319							
.247	-.0766									
.250					-.2689	-.3248	-.3175	-.3003		
.274				-.1909						
.345									-.3774	
.362		.0879								
.390			-.1577							
.400					-.3735	-.4540		-.4984		
.402				-.3285						
.418										-.2589
.429	.0044									
.497		-.0964								
.503									-.4352	
.547	-.0082									
.550					-.3953	-.4928				
.565				-.3044						
.600								-.5280		
.633	-.1504									
.637			-.1827							
.650							-.5349			
.670									-.5308	
.700		-.1955				-.3532				
.723										-.2658
.725					-.0996					
.727	-.2086									
.750							-.5533	-.5256		
.760				-.0533						
.775					.0011	-.2021				
.793	.1530									
.798			-.0316							
.808				.1320						
.834		.0291								
.839			.1269							
.850					.0750	-.1320	-.2873			
.957				.1033						
.862									-.5067	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.855		.0417								
.879			.1021							
.900		.0748			.0508			-.4268		
.905				.0748						
.919			.0461							
.950					.0774	.0329	-.1510			
.953				.0427						
.955			.0668							
.905		.1126								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1065	-.0593	-.0280	.3679	.6591	.5787	.5407	.5477	-.3084	
.010		-.0943	-.0051		.4894	.5101	.4755	.3873		
.020		-.1165		.0000	.3895	.3752	.3578	.3357	-.1312	
.040			.0132	.1782						
.041	-.1532									
.050					.1828	.1478	.1365	.1378		
.069									-.1999	
.080					.0124					
.081				.0717						
.086			.0648							
.094		-.1403								
.113	-.1372									
.150					-.1706	-.1828	-.1751	-.1419		
.157									-.3600	
.163			1.4473							
.177				-.0832						
.229		-.0240								
.246			-.0460							
.247	-.1198									
.250					-.2681	-.3285	-.3341	-.3257		
.274				-.1837						
.345									-.4027	
.362		.0676								
.370			-.1515							
.400					-.3643	-.4553		-.5055		
.403				-.3245						
.418										-.1793
.469	-.0096									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1141								
.503									-.4384	
.547	-.0256									
.550					-.3758	-.4748				
.565				-.2433						
.600								-.5330		
.633	-.1668									
.637			-.0480							
.650							-.5424			
.670									-.5167	
.700		-.0934				-.2314				
.723										-.3214
.725					-.0929					
.727	-.1854									
.750							-.4556	-.5212		
.760				-.0734						
.775					.0373	-.1618				
.793	.1972									
.798			-.0499							
.808				.0727						
.834		-.0105								
.833			.0565							
.850					.0658	-.0848	-.2612			
.857				.0409						
.862									-.4671	
.865		-.0216								
.879			.0348							
.900		.0049			.0092			-.2293		
.905				.0207						
.919			-.0103							
.950					.0160	.0179	-.1448			
.953				-.0052						
.955			.0092							
.965		.0385								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

ALPHA (2 = -.038 BETA (3) = 4.211 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.1205	-.1533	-.0857	.3204	.5762	.5019	.4560	.4594	-.2232	
.010		-.1943	-.0567		.4039	.4229	.3821	.2979		
.020		-.2007		.0000	.3172	.2931	.2742	.2513	-.1800	
.040			-.0145	.1398						
.041	-.1998									
.050					.1307	.0905	.0759	.0718		
.069									-.2418	
.080					-.0232					
.081				.0437						
.086			.0433							
.094		-.1556								
.113	-.1946									
.150					-.1795	-.2195	-.2145	-.1789		
.157									-.3865	
.163			1.4489							
.177				-.0722						
.229		-.0401								
.246			-.0435							
.247	-.1272									
.250					-.2717	-.3367	-.3493	-.3507		
.274				-.1753						
.345									-.4106	
.362		.0621								
.390			-.1520							
.400					-.3583	-.4453		-.5183		
.402				-.3189						
.418										-.2179
.429	-.0025									
.497		-.1215								
.503									-.4426	
.547	-.0250									
.550					-.2551	-.4560				
.565				-.0969						
.600								-.5400		
.633	-.1769									
.637			.0048							
.650							-.5253			
.670									-.5112	
.700		-.0133				-.2097				
.723										-.4281
.725					-.0687					
.727	-.1239									
.750							-.3383	-.4004		
.761				-.0586						
.775					.0327	-.0842				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2080									
.798			-.0615							
.808				.0252						
.834		-.0298								
.839			.0101							
.850					.0390	-.0	-.1383			
.857				-.0113						
.862									-.3134	
.865		-.0561								
.879			-.0217							
.900		-.0372			-.0306			-.1744		
.905				-.0275						
.919			-.0594							
.950					-.0357	-.0174	.0064			
.953				-.0469						
.955			-.0494							
.965		-.0333								

ALPHA (3) = 3.858 BETA (1) = -3.910 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0062	-.0022	-.1065	.3987	.7290	.7066	.6809	.6647	.0404	
.010		-.0564	-.1260		.3507	.4409	.4029	.2732		
.020		-.0803		.0000	.2370	.2646	.2517	.2085	-.1348	
.040			-.0886	.0326						
.041	-.0797									
.060					.0247	.0176	.0088	-.0063		
.069									-.1876	
.080					-.1453					
.081				-.0877						
.086			-.0187							
.094		-.1384								
.113	-.0709									
.150					-.3441	-.3413	-.3035	-.2584		
.157									-.3860	
.163			1.4487							
.177				-.2381						
.229		-.1043								
.246			-.1433							
.247	-.0997									
.250					-.4444	-.4844	-.4619	-.4253		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XECU02)

ALPHA (3) = 3.858 BETA (1) = -3.910

SECTION ' 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BX	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3330						
.345										
.382		-.0003							-.4658	
.390			-.2615							
.400										
.402					-.4991	-.5925		-.5905		
.418				-.4281						
.429	-.0518									-.2290
.497		-.1896								
.503										
.547	-.0819								-.5596	
.560										
.585					-.5063	-.6244				
.600				-.4032						
.633	-.2520							-.5987		
.637			-.3524							
.650										
.670							-.6129			
.700		-.3305							-.6864	
.723						-.5846				
.725										
.727	-.3045				-.1710					-.5888
.750										
.760							-.4708	-.5019		
.775				-.1361						
.793	-.0056				-.1729	-.2352				
.98			-.1130							
.808										
.834		-.0330		-.0240						
.839			.0569							
.850										
.857					-.1451	-.1904	-.4010			
.862				.0165						
.865		-.0189							-.7454	
.879			.0543							
.900		.0674								
.905					-.0870			-.3448		
.919				.0317						
.930			.0271							
.943					.0094	-.1556	-.3103			
.955				.0366						
.958			.0324							
		.0420								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0333	-.1402	-.2842	.2841	.6326	.6190	.5932	.5726	-.0333	
.010		-.2005	-.2393		.2357	.3433	.3047	.1801		
.030		-.1965		.0000	.1511	.1805	.1673	.1150	-.2060	
.040			-.1391	-.0316						
.041	-.1348									
.050					-.0335	-.0396	-.0540	-.0729		
.069									-.2501	
.080					-.1838					
.081				-.1307						
.086			-.0585							
.094		-.2107								
.113	-.1465									
.150					-.3488	-.3641	-.3363	-.2957		
.157									-.4249	
.163			1.4477							
.177				-.2288						
.220		-.1059								
.246			-.1481							
.247	-.1608									
.250					-.4291	-.4925	-.4788	-.4519		
.274				-.3116						
.345									-.4916	
.362		-.0133								
.390			-.2529							
.400					-.4742	-.5847		-.6042		
.402				-.4153						
.418										
.429	-.0543									-.3646
.437		-.2017								
.503									-.5738	
.547	-.0917									
.550					-.4881	-.6011				
.565				-.3889						
.600								-.6122		
.633	-.2652									
.637			-.2872							
.650							-.6155			
.670									-.6808	
.700		-.3263				-.3463				
.723										-.7129
.765					-.2004					
.767	-.2980									
.780							-.4574	-.4623		
.790				-.1484						
.795					-.2042	-.2446				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Sw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.183	.1032									
.708			-.1095							
.808				-.0519						
.834		-.0449								
.839			-.0195							
.850					-.1138	-.2327	-.3851			
.857				-.0245						
.862									-.7425	
.865		-.1069								
.879			-.0178							
.900		-.0097			-.0692			-.3255		
.905				-.0259						
.919			-.0283							
.950					-.0136	-.1524	-.3159			
.953				-.0249						
.955			-.0276							
.965		-.0345								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/Sw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0723	-.3107	-.3801	.1546	.5444	.5261	.5071	.4799	-.1275	
.010		-.3656	-.2723		.1432	.2354	.1971	.0695		
.020		-.3215		.0000	.0799	.0936	.0720	.0137	-.2917	
.040			-.2033	-.0744						
.041	-.1863									
.060					-.0794	-.1035	-.1249	-.1531		
.080									-.3227	
.080					-.2035					
.081				-.1415						
.086			-.1560							
.094		-.2733								
.113	-.2054									
.150					-.3419	-.3965	-.3731	-.3445		
.167									-.4656	
.183			1.4470							
.187				-.2232						
.203		-.1159								
.245			-.1284							
.247	-.2073									
.250					-.4062	-.5011	-.5004	-.4829		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.274				-.2878						
.345									-.5326	
.352		-.0079								
.390			-.2304							
.400					-.4614	-.5752		-.6180		
.402				-.4002						
.418										-.5757
.429	-.0475									
.497		-.2011								
.503									-.5975	
.547	-.0883									
.550					-.4506	-.5664				
565				-.3185						
.600								-.6156		
.633	-.2734									
.637			-.2037							
.660							-.6108			
.670									-.6796	
.700		-.2876				-.2817				
.723										-.7369
.725					-.1905					
.727	-.2875									
.750							-.4601	-.4235		
.760				-.1357						
.775					-.1406	-.2402				
.793	.1375									
.798			-.1047							
.808				-.0562						
.834		-.0671								
.839			-.0425							
.850					-.0533	-.2312	-.3406			
.857				-.0684						
.882									-.6841	
.886		-.1245								
.913			-.0618							
.918		-.0644			-.0653			-.2791		
.926				-.0761						
.939			-.0737							
.950					-.0449	-.0963	-.1872			
.953				-.0834						
.956			-.0806							
.965		-.1009								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU02)

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

SECTION 11 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/CW \ Z/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
.000	.0475	-.1239	-.3505	.2069	.6338	.6575	.6530	.6084	-.0902	
.010		-.2161	-.3740		.0363	.1886	.1423	-.0023		
.020		-.1953		.0000	-.0752	.0112	.0040	-.0744	-.3920	
.040			-.2725	-.2538						
.041	-.0781									
.050					-.2452	-.2067	-.2143	-.2527		
.069									-.4115	
.080					-.3797					
.081				-.3691						
.085			-.1976							
.094		-.1839								
.113	-.0745									
.150					-.5444	-.5040	-.4796	-.4440		
.157									-.5519	
.163			1.4463							
.177				-.4663						
.229		-.1772								
.246			-.3033							
.247	-.1114									
.260					-.6226	-.6186	-.5939	-.5592		
.274				-.4452						
.345									-.5851	
.352		-.1329								
.390			-.3525							
.400					-.6130	-.6928		-.5685		
.402				-.5036						
.418										-.5799
.429	-.1569									
.447		-.2887								
.503									-.5991	
.547	-.1579									
.550					-.5562	-.6407				
.555				-.4696						
.600								-.5585		
.634	-.3388									
.637			-.4478							
.650							-.5554			
.670									-.5429	
.700		-.4278				-.5526				
.723										-.5300
.735					-.3076					
.737	-.3810									
.750							-.5110	-.5108		
.760				-.2016						
.775					-.3008	-.4293				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUD2)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2280									
.798			-.352							
.802				-.1786						
.834		-.0543								
.839			-.0587							
.850					-.2164	-.3647	-.4863			
.857				-.0973						
.878									-.5324	
.886		-.0712								
.891			-.0182							
.902		.0948			-.1980			-.4917		
.910				-.0602						
.919			.0288							
.950					-.1392	-.3202	-.4209			
.963				-.0411						
.975			.0535							
.986		.0176								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0143	-.3214	-.5570	-.0107	.5043	.5472	.5438	.4946	-.2600	
.010		-.3990	-.5206		-.0829	.0727	.0271	-.1105		
.020		-.3578		.0000	-.1795	-.0809	-.0883	-.1663	-.5067	
.040			-.4114	-.3635						
.041	-.1340									
.050					-.3068	-.2755	-.2820	-.3271		
.069									-.5071	
.080					-.4041					
.081				-.3259						
.098			-.3089							
.099		-.2559								
.118	-.1528									
.121					-.5378	-.5311	-.5109	-.4840		
.137									-.5789	
.143			1.4463							
.161				-.3661						
.199		-.2394								
.201			-.2650							
.221	-.1726									
.250					-.5860	-.6237	-.6112	-.5856		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.274				-.3937						
.345										
.362		-.1131							-.6030	
.390			-.3421							
.400					-.5645	-.7061		-.5990		
.402				-.4626						
.418										-.6122
.429	-.1478									
.497		-.2799								
.503									-.6032	
.547	-.1442									
.553					-.5333	-.6552				
.565				-.4650						
.600								-.5814		
.633	-.3381									
.637			-.4659							
.650							-.5859			
.670									-.5548	
.700		-.4086				-.5168				
.723										-.5399
.725					-.2241					
.737	-.3566									
.750							-.5231	-.4960		
.751				-.1823						
.775					-.2399	-.3855				
.783	-.0197									
.798			-.1668							
.808				-.1684						
.824		-.0069								
.829			-.0953							
.850					-.2099	-.3913	-.4930			
.867				-.1357						
.875									-.5355	
.885		-.1352								
.879			-.0578							
.900		-.0290			-.1903			-.4576		
.908				-.1117						
.919			-.0199							
.930					-.1270	-.2286	-.4186			
.942				-.0971						
.955			-.0169							
.965		-.0587								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0618	-.5294	-.5041	-.1636	.3688	.4236	.4202	.3633	-.4600	
.010		-.4779	-.4858		-.1921	-.0557	-.1049	-.2394		
.020		-.4736		.0000	-.2777	-.1872	-.2048	-.2859	-.6100	
.040			-.4568	-.2242						
.041	-.1739									
.050					-.3832	-.3528	-.3676	-.4212		
.069									-.6111	
.080					-.4481					
.081				-.2603						
.086			-.4026							
.094		-.4903								
.113	-.2104									
.150					-.5366	-.5651	-.5554	-.5408		
.157									-.6066	
.163			1.4482							
.177				-.2924						
.229		-.2359								
.246			-.3249							
.247	-.2321									
.250					-.4927	-.6392	-.6400	-.6243		
.274				-.3523						
.345									-.6288	
.362		-.0223								
.390			-.2552							
.400					-.5035	-.6919		-.6517		
.402				-.4589						
.418										-.6242
.429	-.1336									
.497		-.2365								
.503									-.6331	
.547	-.1276									
.550					-.5083	-.6661				
.565				-.4783						
.600								-.6331		
.633	-.3523									
.637			-.4038							
.650							-.6223			
[illegible]									-.5987	
[illegible]		-.3044				-.4000				
[illegible]										-.5844
.725					-.2429					
.727	-.3568									
.750							-.5458	-.5095		
.760				-.1866						
.775					-.2199	-.2990				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0492									
.798			-.1523							
.808				-.1696						
.834		-.1277								
.839			-.1087							
.850					-.1173	-.2363	-.4872			
.857				-.1576						
.962									-.5887	
.805		-.1842								
.879			-.1108							
.900		-.0814			-.1177			-.4575		
.905				-.1459						
.919			-.1075							
.950					-.1048	-.1350	-.3945			
.953				-.0956						
.955			-.1194							
.985		-.1194								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0436	-.3323	-.4885	-.0008	.5037	.5465	.5261	.4357	-.3776	
.010		-.4070	-.4535		-.1918	-.0554	-.1424	-.2964		
.020		-.3953		.0000	-.3040	-.2144	-.2644	-.3586	-.5859	
.040			-.3625	-.4549						
.041	-.0592									
.050					-.4483	-.3997	-.4259	-.4896		
.069									-.5828	
.080					-.5492					
.081				-.5242						
.086			-.3042							
.094		-.2643								
.113	-.0940									
.150					-.6791	-.6432	-.6235	-.6183		
.157									-.5873	
.163			1.4494							
.177				-.6000						
.229		-.2292								
.245			-.3851							
.247	-.1150									
.250					-.7036	-.6453	-.6014	-.5855		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5780						
.345									-.6041	
.362		-.1851								
.390			-.4772							
.400					-.6836	-.6465		-.6140		
.402				-.5808						
.418										-.5978
.429	-.1934									
.497		-.4533								
.503									-.5990	
.547	-.2970									
.550					-.6368	-.6174				
.565				-.5576						
.600								-.5084		
.633	-.4678									
.637			-.5386							
.650							-.5839			
.670									-.5508	
.700		-.5259				-.5868				
.723										-.5343
.725					-.5674					
.727	-.4518									
.750							-.5450	-.5824		
.760				-.3216						
.775					-.5595	-.5608				
.793	-.1958									
.798			-.2306							
.808				-.3451						
.834		-.0827								
.839			-.2094							
.860					-.4750	-.4655	-.5279			
.867				-.3032						
.882									-.5498	
.885		-.1025								
.879			-.1781							
.900		.0342			-.4603			-.5864		
.905				-.2184						
.919			-.1772							
.950					-.3871	-.3844	-.4392			
.953				-.1348						
.955			-.1944							
.965		-.0589								

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

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0416	-.4826	-.4778	-.2036	.3266	.3767	.3581	.2613	-.5369	
.010		-.4256	-.4656		-.3430	-.2115	-.2948	-.4399		
.020		-.4036		.0000	-.4422	-.3562	-.4063	-.4867	-.6449	
.040			-.4520	-.4900						
.041	-.1471									
.050					-.5611	-.5119	-.5415	-.5951	-.6241	
.069					-.6413					
.080				-.5461						
.081			-.4258							
.086		-.4671								
.094										
.111	-.1858				-.7410	-.7075	-.6889	-.6891	-.6196	
.150										
.157										
.163			1.4483							
.177				-.4883						
.229		-.5402								
.246			-.4691							
.247	-.1743				-.7211	-.7245	-.6647	-.6807		
.250										
.274				-.5149					-.6170	
.345										
.362		-.3921								
.390			-.4539		-.7052	-.7230		-.6747		
.400										
.402				-.5178						-.6138
.418										
.429	-.2623									
.497		-.4179							-.6189	
.503										
.547	-.2647				-.6761	-.6796				
.550				-.5221						
.565								-.6294		
.600										
.633	-.4499									
.637			-.5684				-.6159			
.660									-.5983	
.670						-.6278				
.700		-.4810								-.5828
.723					-.3860					
.725										
.727	-.4408						-.5564	-.5956		
.750				-.2365						
.760					-.3908	-.5609				
.775										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U02)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.733	-.1534									
.799			-.2318							
.909				-.2838						
.834		-.1353								
.839			-.2230							
.850					-.2983	-.4716	-.5030			
.857				-.2368						
.862									-.5873	
.855		-.1637								
.879			-.1400							
.900		-.0839			-.2424			-.5865		
.905				-.2998						
.919			-.0913							
.950					-.2054	-.3627	-.4530			
.953				-.2659						
.955			-.1121							
.965		-.0671								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.030	-.1049	-.5162	-.5250	-.4497	.1489	.1899	.1840	.0847	-.6464	
.010		-.5023	-.5257		-.4858	-.3663	-.4234	-.5468		
.020		-.4978		.0000	-.5612	-.4946	-.5223	-.5927	-.6256	
.040			-.5307	-.4029						
.041	-.2119									
.053					-.6543	-.6121	-.6257	-.6751		
.060									-.6112	
.080					-.6659					
.091				-.4096						
.085			-.4980							
.094		-.5719								
.113	-.2310									
.150					-.6692	-.7268	-.7082	-.7028		
.157									-.6074	
.163			1.4475							
.177				-.4471						
.223		-.6735								
.245			-.4871							
.247	-.2695									
.250					-.6306	-.7036	-.6804	-.7038		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEROX02)

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

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.374				-.4668						
.385										
.392		-.3526							-.6007	
.398			-.5658							
.400										
.402					-.6284	-.6883		-.6267		
.416				-.5275						
.429	-.2920									-.5947
.497		-.3722								
.503										
.547	-.2288								-.6041	
.560										
.595					-.5537	-.6551				
.600				-.5415						
.633	-.4190							-.6097		
.637			-.5110							
.660										
.670							-.6360			
.700		-.4026							-.5933	
.723						-.5997				
.725										-.5654
.727	-.4121				-.2276					
.750										
.760							-.5979	-.5925		
.775				-.2525						
.794	-.0303				-.2567	-.5450				
.798			-.1961							
.808				-.3097						
.834		-.2018								
.838			-.1754							
.850										
.857					-.2432	-.5120	-.5731			
.862				-.2759						
.866		-.2166							-.5806	
.873			-.1797							
.900		-.1409								
.908					-.2840			-.5793		
.913				-.2357						
.918			-.1261							
.950					-.3119	-.1737	-.4704			
.957				-.1936						
.962			-.1032							
.968		-.0993								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0960 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 = 1.100

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XCW										
.000	-.2315	-.1163	-.1601	.2612	.5995	.5188	.4656	.4857	-.6253	
.010		-.0551	-.0469		.7136	.6774	.6409	.5592		
.020		-.0499		.0000	.6362	.5783	.5571	.5186	-.1458	
.040			.0436	.4757						
.041	-.1533									
.060					.4227	.3660	.3520	.3291		
.069									-.2102	
.080					.2330					
.081				.3644						
.085			.2539							
.094		-.0146								
.113	-.1150									
.160					.0172	-.0151	-.0111	-.0168		
.167									-.3666	
.183			1.1739							
.200				.0906						
.223		.0296								
.246			.1644							
.247	.0039									
.280					-.1463	-.2179	-.2370	-.2713		
.294				-.0329						
.345									-.3792	
.350		.2068								
.370			-.0211							
.400					-.1255	-.3035		-.4866		
.401				-.1363						
.418										-.7170
.419	.1297									
.440		.0363								
.500									-.4148	
.501	.1350									
.550					.0822	-.0606				
.555				.1835						
.600								-.2453		
.622	-.0199									
.650			.2293							
.680							-.1812			
.700									-.1916	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZU BA	.2350	.2890	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.720		.2563				-.0687				
.723										
.725										-.6711
.727	.2164				-.0126					
.730							-.1031	-.1206		
.735				-.0566						
.738	.3496				.0119	-.0999				
.739			-.0447							
.809				.0544						
.814		-.0123								
.823			.0771							
.840					.0001	-.1290	.0018			
.857				.0287						
.862										
.885		-.0089							.0068	
.919			.0339							
.920		.0015			-.0397			.1097		
.926				-.0133						
.939			-.0275							
.950					.0630	.1243	.1596			
.952				.0254						
.955			.0454							
.965		.0766								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZU BA	.2350	.2890	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.720	-.2869	-.1165	-.0981	.2797	.5358	.4407	.3900	.4008	-.7042	
.723		-.0941	-.0266		.6551	.6200	.5941	.5295		
.725		-.0855		.0000	.5895	.5467	.5273	.4919	-.2145	
.727	-.2452		.0389	.4208						
.730					.3979	.3608	.3499	.3302		
.735									-.2551	
.738				3842	.2327					
.739			.2173							
.809		-.0488								
.814	-.1871									
.823					.0414	.0254	.0226	.0087		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

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

SECTION (1)LEFT WING TOP SURF JEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.157									-.3658	
.163			1.1792							
.177				.1136						
.229		.0197								
.246			.1673							
.247	-.0231									
.250					-.0967	-.1621	-.1788	-.2344		
.274				-.0114						
.345									-.2960	
.353		.1882								
.399			.0080							
.401					.0440	-.0494		-.3042		
.402				-.0448						
.408										-.7931
.489	.1105									
.497		.0360								
.503									-.3084	
.547	.1213									
.550					.0699	-.0718				
.566				.1617						
.600								-.3136		
.630	.0355									
.637			.2067							
.650							-.1985			
.670									-.2559	
.700		.2377				-.0921				
.723										-.6904
.745					-.0285					
.747	.2151									
.750							-.1440	-.1966		
.760				-.0823						
.775					-.0240	-.1258				
.794	.3240									
.796			-.0688							
.798				-.0085						
.804		-.0408								
.833			.0052							
.850					-.0422	-.1776	-.0909			
.851				-.0315						
.852									-.0350	
.886		-.0743								
.893			-.0216							
.900		-.0475			-.1032			.0295		
.905				-.0614						
.913			-.1049							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					-.0547	-.0197	.0642			
.953				-.0884						
.955			-.0394							
.965		-.0075								

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 TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2831	-.1398	-.0509	.3240	.4942	.3741	.2972	.3020	-.7733	
.010		-.0949	-.0011		.5997	.5464	.5053	.4486		
.020		-.0922		.0000	.5400	.4772	.4483	.4137	-.3078	
.040			.0609	.3999						
.041	-.3087									
.050					.3678	.3107	.2917	.2728		
.069									-.3193	
.080					.2245					
.081				.3173						
.095			.2329							
.094		-.0670								
.113	-.2459									
.150					.0423	.0166	-.0040	-.0114		
.157									-.3811	
.163			.1782							
.177				.1203						
.229		.0218								
.246			.1745							
.247	-.0400									
.250					-.0214	-.1669	-.1776	-.2074		
.274				.0007						
.345									-.3324	
[illegible]		.2123								
[illegible]			[illegible]							
[illegible]					.0332	-.0471		-.3080		
[illegible]				-.0457						
[illegible]										-.4101
[illegible]	.1217									
[illegible]		.0545								
[illegible]									-.3119	
[illegible]	.1403									
[illegible]					.0499	-.0786				
[illegible]				.1417						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/W	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.600								-.3292		
.633	.0467									
.637			.1626							
.650							-.2160			
.670									-.2298	
.700		.2097				-.1213				
.763										-.3670
.785					-.0577					
.807	.1956									
.750							-.1848	-.2325		
.761				-.1064						
.775					-.0670	-.1607				
.793	.3012									
.799			-.0935							
.809				-.0609						
.834		-.0574								
.849			-.0570							
.861					-.0986	-.2242	-.1635			
.897				-.1027						
.898									-.0281	
.905		-.1262								
.919			-.0940							
[illegible]		-.0918			-.1689			-.0200		
[illegible]				-.1132						
.939			-.1604							
.951					-.1371	-.1263	-.0166			
.953				-.1562						
.956			-.1229							
.965		-.0864								

ALPHA (1) = -.027 BETA (3) = -3.903 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/W	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.600	-.1577	-.0480	-.0134	.4486	.6727	.6083	.5708	.5796	-.3797	
.610		-.0073	.0220		.5627	.5722	.5234	.4086		
.620		-.1028		.0000	.4541	.4244	.3897	.3501	-.1583	
.640			.0493	.2881						
.647	-.1536									
.670					.2150	.1596	.1374	.1171		
.698									-.2354	
.730					.0171					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB.03)

ALPHA 2 = -.027 BETA 1 = -3.203

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4870	.5340	.6730	.7800	.8870	.9720	1.0000
.081				.1395						
.088			.1470							
.094		-.1040								
.113	-.1179									
.150					-.2201	-.2612	-.2467	-.2198		
.157									-.4420	
.163			1.1782							
.177				-.0828						
.229		-.0228								
.245			.0134							
.247	-.0978									
.270					-.3294	-.4125	-.4326	-.4409		
.274				-.2235						
.345									-.4828	
.352		.0976								
.370			-.1844							
.400					-.4585	-.5625		-.6534		
.402				-.3924						
.418										-.1460
.449	.0637									
.497		-.1064								
.503									-.5462	
.547	.0194									
.550					-.0838	-.4852				
.555				.0173						
.560								-.6355		
.573	-.2077									
.577			.1057							
.600							-.5462			
.601									-.3673	
.620		.0895				-.1343				
.623										-.3844
.625					-.0339					
.650	.0170									
.651							-.1103	-.2454		
.652				-.0802						
.653					.0147	-.1785				
.654	.2709									
.655			-.0705							
.656				.0397						
.657		-.0349								
.658			.0528							
.659					.0115	-.0155	.1165			
.660				.0063						
.661									-.2029	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.885		-.0085								
.879			.0056							
.900		-.0259			.0176			-.1224		
.905				-.0191						
.919			-.0435							
.960					.0784	.1279	.1901			
.982				.0280						
996			.0173							
996		.0311								

ALPHA 2) = -.023 BETA (2) = .144 MACH = 1.0988 Q = 599.62 P = 709.54 PNZ = 3.1658

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1786	-.1395	-.0382	.4173	.6119	.5316	.4940	.5086	-.2290	
.010		-.1748	-.0094		.4807	.4891	.4475	.3506		
.020		-.1953		.0300	.3818	.3453	.3262	.2959	-.1641	
.040			.0170	.2328						
.041	- 2335									
.060					.1723	.1012	.0808	.0807		
.0?9									-.2300	
.080					-.0179					
.081				.0941						
098			.1047							
.1?4		- 1185								
.1?4	-.1914									
.1?0					-.2259	-.2686	-.2571	-.2283		
.1?7									-.4393	
.1?8			1.1766							
.1??				-.1016						
123		-.0383								
.1?6			-.0120							
.1??	-.1031									
.1?0					-.3220	-.3688	-.4256	-.4421		
127				-.2239						
1?6									-.4555	
.132		.0953								
.1?0			-.1875							
.1?0					-.4375	-.5309		-.6227		
.1?1				-.3703						
.118										-.1785
.129	.0539									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

[illegible] 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY SW / X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7000	.8870	.9720	1.0000
.497		-.1161								
.503									-.5150	
.547	-.0099									
.550					-.0134	-.1608				
.565				.0601						
.600								-.6020		
.633	-.2101									
.637			.1269							
.650							-.1912			
.670									-.3529	
.700		.1331				-.1203				
.723										-.4434
.725					-.0483					
.727	.0927									
.750							-.0769	-.1405		
.760				-.0949						
.775					-.0383	-.1217				
.793	.2521									
.798			-.0908							
.808				-.0114						
.834		-.0607								
.839			.0013							
.850					-.0512	-.1234	.0519			
.857				-.0484						
.862									-.2104	
.865		-.0552								
.879			-.0400							
.900		-.0703			-.1025			.0970		
.905				-.0750						
.919			-.0920							
.950					-.0057	.0897	.1327			
.953				-.0837						
[illegible]			-.0795							
[illegible]		-.0488								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (2) = -.029 BETA (3) = 4.209 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1858

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1954	-.2374	-.0632	.4229	.5817	.4819	.4273	.4259	-.1998	
.010		-.2783	-.0342		.4222	.4048	.3567	.2532		
.020		-.2790		.0000	.3310	.2732	.2405	.2012	-.2237	
.040			.0255	.2192						
.041	-.2931									
.060					.1399	.0486	.0211	-.0002		
.069									-.2819	
.080					-.0335					
.081				.1077						
.085			.1236							
.094		-.1209								
.113	-.2500									
.150					-.2080	-.2730	-.2732	-.2664		
.157									-.4763	
.183			1.1805							
.177				-.0708						
.229		-.0176								
.246			.0182							
.247	-.0938									
.261					-.3062	-.3786	-.3982	-.4520		
.274				-.1872						
.296									-.4801	
.298		.1067								
.313			-.1586							
.330					-.3979	-.5075		-.6252		
.334				-.3233						
.350										-.2605
.351	.0641									
.367		-.0847								
.383									-.5188	
.387	.0274									
.400					-.0069	-.1134				
.405				.0684						
.431								-.5130		
.432	-.1726									
.447			.1106							
.450							-.1999			
.470									-.3060	
.486		.1177				-.1393				
.486										-.5418
.488					-.0792					
.504	.0802									
.521							-.1539	-.0355		
.540				-.1213						
.555					-.0861	-.1660				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.033	.2255									
.798			-.1098							
.909				-.0661						
.934		-.0912								
.939			-.0643							
.950					-.1012	-.1968	-.0098			
.957				-.1060						
.962									-.2328	
.965		-.1152								
.979			-.1008							
.984		-.1207			-.1733			.1198		
.985				-.1353						
.919			-.1522							
.950					-.1414	-.0757	.0840			
.953				-.1570						
.955			-.1439							
.965		-.1327								

ALPHA (2) = 3.893 BETA (1) = -3.903 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.0807	-.0793	-.1355	.4719	.7073	.6948	.6658	.6344	-.0006	
.010		-.1529	-.1221		.3253	.3922	.3252	.1382		
.020		-.1750		.0000	.2008	.2000	.1621	.0721	-.2578	
.040			-.0603	.0568						
.041	-.1491									
.050					-.0370	-.0690	-.1039	-.1590		
.080									-.3282	
.081					-.2170					
.100				-.1150						
.102			-.0016							
.104		-.2239								
.113	-.1226									
.150					-.3874	-.4571	-.4387	-.4067		
.163			1.1797						-.5529	
.177				-.2657						
.329		-.0835								
.346			-.1522							
.347	-.1734									
.350					-.5013	-.5876	-.6034	-.5820		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (3) = 3.893 BETA (1) = -3.903

SECTION (1)LEFT WING TOP SURF UEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3735						
.345									-.6507	
.362		.0346								
.390			-.3045							
.400					-.5800	-.7293		-.6832		
.402				-.5056						
.418										-.4436
.429	.0113									
.497		-.2012								
.503									-.7218	
.547	-.0769									
.550					-.3299	-.6838				
.565				-.1957						
.600								-.4980		
.643	-.3102									
.647			-.1251							
.650							-.5238			
.670									-.6958	
.700		-.1612				-.3484				
.723										-.7810
.725					-.1122					
.727	-.3170									
.750							-.4430	-.3881		
.760				-.0661						
.775					-.0432	-.1414				
.793	.1857									
.798			-.0850							
.808				.0839						
.834		-.0404								
.839			.0804							
.850					.0326	-.0814	-.3548			
.857				.0542						
.862									-.6407	
.855		-.0283								
.879			.0449							
.900		.0158			.0300			-.2757		
.905				.0226						
.918			.0196							
.950					.0613	.0361	-.2380			
.953				.0468						
.955			.0461							
.965		.0637								

DATE [illegible] FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 3209

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (3) = 3.894 BETA (2) = .147 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.1293	-.2383	-.2633	.3801	.6288	.6061	.5973	.5533	-.0962	
.010		-.3119	-.2028		.2235	.2905	.2262	.0510		
.020		-.3049		.0000	.1168	.1156	.0720	-.0147	-.3427	
.040			-.1175	-.0056						
.041	-.2301									
.050					-.0912	-.1266	-.1680	-.2179		
.069									-.3895	
.080					-.2599					
.091				-.1445						
.096			-.0269							
.094		-.2985								
.113	-.2095									
.150					-.4013	-.4741	-.4660	-.4415		
.157									-.5875	
.163			1.1778							
.177				-.2695						
.229		-.1008								
.246			-.1557							
.247	-.2310									
.250					-.4874	-.5869	-.6120	-.6015		
.274				-.3662						
.345									-.6783	
.352		.0197								
.390			-.3095							
.400					-.5516	-.7029		-.7720		
.402				-.4940						
.418										-.6097
.419	.0042									
.437		-.2250								
.503									-.7407	
.547	-.0954									
[illegible]					-.2264	-.5762				
[illegible]				-.1652						
[illegible]								-.5972		
[illegible]	-.3232									
[illegible]			-.1972							
[illegible]							-.5897			
[illegible]									-.6494	
.700		-.1316				-.1798				
[illegible]										-.6640
[illegible]					-.1231					
[illegible]	-.2304									
[illegible]							-.4571	-.3770		
[illegible]				-.1241						
[illegible]					-.0507	-.1187				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	.2011									
.798			-.0925							
.808				-.0160						
.834		-.0729								
.839			-.0285							
.850					-.0248	-.0519	-.2370			
.857				-.0457						
.862									-.5749	
.865		-.1030								
.879			-.0462							
.900		-.0588			-.0236			-.2588		
.905				-.0611						
.919			-.0865							
.930					.0159	.0125	-.0609			
.953				-.0395						
.965			-.0619							
.965		-.0782								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1690	-.4390	-.3175	.3119	.5669	.5232	.4931	.4363	-.2713	
.010		-.4851	-.1760		.1374	.1836	.1042	-.0723		
.020		-.4433		.0000	.0497	.0202	-.0335	-.1435	-.4711	
.040			-.1052	-.0136						
.041	-.2913									
.050					-.1257	-.1920	-.2454	-.3107		
.069									-.4919	
.080					-.2688					
.081				-.1278						
.086			.0111							
.094		-.3091								
.113	-.2848									
.130					-.3967	-.4891	-.5088	-.4994		
.157									-.6477	
.163			1.1793							
.177				-.2334						
.189		-.0820								
.206			-.1190							
.217	-.2449									
.250					-.4588	-.6027	-.6299	-.6392		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (3) = 3.895 BETA (3) = -.201

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3211						
.345									-.7036	
.362		.0405								
.390			-.2696							
.400					-.5362	-.6609		-.7892		
.402				-.4452						
.418										-.7348
.429	.0226									
.497		-.1807								
.503									-.6976	
.547	-.0567									
.550					-.2218	-.6132				
.565				-.1439						
.600								-.7014		
.633	-.2958									
.637			-.0524							
.650							-.6345			
.670									-.5951	
.700		-.0405				-.2471				
.723										-.5873
.725					-.1307					
.727	-.1576									
.750							-.2950	-.4194		
.760				-.1324						
.775					-.1025	-.1865				
.793	.1756									
.798			-.1234							
[illegible]				-.1139						
[illegible]		-.1095								
[illegible]			-.1093							
[illegible]					-.1111	-.1691	-.0182			
[illegible]				-.1444						
[illegible]									-.5342	
[illegible]		-.1395								
[illegible]			-.1226							
[illegible]		-.1343			-.1600			-.3432		
[illegible]				-.1641						
[illegible]			-.1657							
[illegible]					-.0943	-.0357	.1117			
[illegible]				-.1732						
[illegible]			-.1774							
[illegible]		-.1844								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (A) = 7.886 BETA (B) = -3.898 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0462	-.2396	-.5272	.2471	.6191	.6173	.5895	.4978	-.2842	
.010		-.3409	-.5353		-.0401	.0790	-.0208	-.2242		
.020		-.3111		.0000	-.1230	-.1136	-.1664	-.3043	-.6661	
.040			-.3874	-.2144						
.061	-.1633									
.080					-.2996	-.3308	-.3875	-.4816		
.099									-.6041	
.101					-.4528					
.120				-.3185						
.139			-.2912							
.164		-.2881								
.213	-.1341									
.250					-.6536	-.6559	-.6646	-.6536		
.257									-.5948	
.283			1.1766							
.277				-.4419						
.289		-.2523								
.296			-.2429							
.247	-.1948									
.250					-.6915	-.7825	-.6514	-.6302		
.274				-.4875						
.345									-.5574	
.362		-.0276								
.390			-.3922							
.400					-.6955	-.7818		-.6529		
.402				-.5911						
.418										
.429	-.0957									-.5722
.497		-.2991								
.503										
.547	-.1198								-.5469	
.550					-.4298	-.6312				
.565				-.4073						
.600								-.5578		
.633	-.4077									
.647			-.3958							
.650							-.5429			
.670									-.4996	
.700		-.5160				-.5682				
.723										-.4853
.746					-.2635					
.747	-.4461									
.750							-.4883	-.5040		
.771				-.1333						
.775					-.2728	-.4376				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT W[illegible] (XE8U03)

ALPHA (4) = 7.896 BETA (1) = -3.898

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0969									
.798			-.1016							
.808				-.0224						
.834		.0233								
.839			-.0084							
.850					-.1493	-.3839	-.4265			
.857				-.0204						
.862									-.4436	
.865		-.0018								
.879			-.0237							
.900		.0269			-.0806			-.4566		
.905				-.0359						
.919			-.0242							
.950					.0039	-.2266	-.3827			
.953				-.0166						
.955			.0040							
.965		-.0042								

ALPHA (4) = 7.896 BETA (2) = .144 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1107	-.4515	-.6900	.0552	.5005	.5024	.4749	.3802	-.4762	
.017		-.5292	-.5904		-.1395	-.0481	-.1470	-.3375		
[illegible]		-.4698		.0000	-.2184	-.2080	-.2667	-.3080	-.6404	
.049			-.4613	-.2309						
.041	-.2289									
[illegible]					-.3515	-.4042	-.4656	-.5509		
[illegible]									-.6272	
[illegible]					-.4838					
[illegible]				-.3155						
[illegible]			-.3441							
.094		-.3727								
[illegible]	-.2253									
[illegible]					-.6553	-.6830	-.7012	-.7002		
[illegible]									-.6036	
[illegible]			1.1791							
[illegible]				-.3879						
.229		-.2282								
.246			-.2751							
.247	-.2673									
.250					-.6634	-.7957	-.7137	-.6830		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U03)

ALPHA (4) = 7.895 BETA (2) = .144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

EY BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.4462						
.345									-.5947	
.362		-.0013								
.390			-.4140							
.400					-.6634	-.8084		-.7122		
.402				-.5592						
.418										-.5880
.429	-.0335									
.497		-.3099								
.503									-.5885	
.547	-.1209									
.550					-.3705	-.6725				
.555				-.4083						
.601								-.5913		
.633	-.4079									
.637			-.3273							
.650							-.5937			
.670									-.5524	
.700		-.4630				-.5584				
.747										-.5194
.775					-.1961					
.787	-.4355									
.790							-.5369	-.5583		
.791				-.1061						
.795					-.2066	-.3947				
.793	.0930									
.798			-.1100							
.809				-.0663						
.844		-.0625								
.849			-.0265							
.870					-.1340	-.2885	-.4673			
.867				-.0992						
.862									-.4970	
.875		-.0854								
.880			-.0419							
.900		-.0250			-.1103			-.4921		
.905				-.1127						
.914			-.0599							
.920					-.0306	-.1135	-.4273			
.923				-.0880						
.925			-.0660							
.935		-.0873								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

ALPHA [illegible] = [illegible] BETA (3) = 4.200 MACH = 1.0976 Q = 599.10 P = 710.46 RN/L = 3.1859

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BN	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.1718	-.6911	-.4632	-.0369	.3725	.3733	.3314	.2296	-.6791	
[illegible]		-.6121	-.4135		-.2558	-.1824	-.2994	-.4813		
[illegible]		-.5906		.0000	-.3196	-.3183	-.3955	-.5333	-.7383	
[illegible]			-.3973	-.1371						
.041	-.2943									
[illegible]					-.4012	-.4848	-.5498	-.6567		
[illegible]									-.6882	
[illegible]					-.4941					
[illegible]				-.1844						
[illegible]			-.2635							
[illegible]		-.6540								
[illegible]	-.3187									
[illegible]					-.5817	-.7150	-.7443	-.7615		
[illegible]									-.6798	
[illegible]			1.1778							
[illegible]				-.3017						
[illegible]		-.1546								
[illegible]			-.2389							
[illegible]	-.3318									
[illegible]					-.5766	-.8030	-.8296	-.8116		
[illegible]				-.3944						
[illegible]									-.6729	
[illegible]		.0394								
[illegible]			-.3474							
[illegible]					-.5965	-.6280		-.8035		
[illegible]				-.5255						
[illegible]	-.0228									-.6534
[illegible]		-.2675								
[illegible]	-.1115								-.6619	
[illegible]					-.4460	-.7178				
[illegible]				-.3108						
[illegible]	-.3945							-.6238		
[illegible]			-.1945							
[illegible]							-.6540			
[illegible]		-.2942				-.3934			-.5498	
[illegible]										-.6282
[illegible]	-.3783				-.1495					
[illegible]							-.5407	-.6429		
[illegible]				-.2024						
[illegible]					-.1152	-.2697				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

ALPHA (4) = 7.989 BETA (3) = 4.200

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	2350	2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
793	.1006									
799			-.1553							
808				-.1914						
834		-.1529								
839			-.1687							
850					-.1268	-.2101	-.4985			
857				-.2017						
872									-.6298	
880		-.1945								
879			-.1577							
910		-.1512			-.1797			-.5844		
915				-.1688						
919			-.1665							
920					-.1048	-.1251	-.4261			
925				-.1943						
928			-.1682							
930		-.1773								

ALPHA (5) = 11.990 BETA (1) = -3.881 MACH = 1.0978 Q = 599.38 P = 710.45 PN/L = 3.1856

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	2350	2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
700	-.2603	-.4773	-.6493	-.1634	.3596	.3658	.3572	.2431	-.6119	
[illegible]		-.5744	-.5028		-.4448	-.3093	-.4194	-.5883		
[illegible]		-.5048		.0000	-.5577	-.4776	-.5458	-.6436	-.6472	
49			-.5195	-.6216						
41	-.1586									
[illegible]					-.6914	-.6506	-.6979	-.7715		
[illegible]									-.5842	
[illegible]					-.7904					
[illegible]				-.7072						
[illegible]			-.4431							
[illegible]		-.3931								
[illegible]	-.1574									
[illegible]					-.8002	-.7555	-.7383	-.7858		
[illegible]									-.5702	
[illegible]			1.1784							
[illegible]				-.5688						
[illegible]		-.3449								
[illegible]			-.3776							
[illegible]	-.1973									
850					-.7849	-.7574	-.7549	-.7800		

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

AMES 11-073 OA148, +140A,B C/P ORB LEFT WING TOP XEBUC3.

[illegible] BETA [illegible]

[illegible] TOP [illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]				-.4591						
[illegible]		-.2301							-.5595	
[illegible]			-.4656							
[illegible]				-.5362	-.7094	-.7181		-.5990		
[illegible]	-.2748									-.5660
[illegible]		-.3949								
[illegible]	-.1567								-.5692	
[illegible]					-.6597	-.6995				
[illegible]				-.4533						
[illegible]	-.4559							-.5887		
[illegible]			-.4143							
[illegible]							-.6182			
[illegible]		-.5919							-.5387	
[illegible]						-.6463				
[illegible]					-.4893					-.5268
[illegible]	-.5103									
[illegible]							-.5942	-.5733		
[illegible]				-.2587						
[illegible]					-.5369	-.5795				
[illegible]	.0216									
[illegible]			-.2521							
[illegible]				-.4125						
[illegible]		-.0999								
[illegible]			-.1107							
[illegible]					-.2037	-.1357	-.5209			
[illegible]				-.4713						
[illegible]									-.5050	
[illegible]		-.3[illegible]								
[illegible]			[illegible]							
[illegible]		-.1[illegible]						-.5019		
[illegible]				-.2[illegible]						
[illegible]			-.9[illegible]							
[illegible]					-.1[illegible]	-.2396	-.5176			
[illegible]				-.7[illegible]2						
[illegible]			-.1177							
[illegible]		-.1[illegible]3								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUD3)

ALPHA 5 - 11.997 BETA (2) = .149 MACH = 1.0978 Q = 599.39 P = 710.45 RN/L = 3.1856

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/HW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1431	-.6397	-.6186	-.3296	.1916	.2367	.2067	.0969	-.7397	
.010		-.5517	-.6057		-.5826	-.4308	-.5250	-.6936		
.020		-.5297		.0000	-.6777	-.5917	-.6538	-.7435	-.6682	
.040			-.5876	-.3221						
.041	-.2459									
.050					-.7184	-.7241	-.7796	-.8451		
.060									-.6400	
.080					-.7114					
.081				-.3019						
.086			-.5480							
.094		-.6103								
.113	-.2876									
.120					-.6989	-.8361	-.8079	-.8779		
.130									-.6293	
.153			1.1801							
.157				-.3738						
.170		-.7057								
.175			-.4732							
.187	-.2691									
.200					-.6832	-.8225	-.8213	-.6745		
.210				-.5256						
.220									-.6235	
.230		-.1240								
.240			-.5969							
.250					-.7208	-.7694		-.6455		
.260				-.6311						
.270										-.6139
.280	-.2459									
.290		-.3423								
.300									-.6233	
.310	-.[illegible]08									
.320					-.5137	-.7307				
.330				-.5920						
.340								-.6392		
.350	-.5[illegible]00									
.360			-.6417							
.370							-.6750			
.380									-.5972	
.390		-.5441				-.6701				
.400										-.5777
.410					-.3665					
.420	-.5394									
.430							-.6543	-.6245		
.440				-.2284						
.450					-.3669	-.5722				

AMES 11-073 OA148) -140A/B/C/P ORB LEFT WING TOP (XE8003)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	-.0587									
.799			-.1591							
.808				-.3358						
.834		-.1233								
.879			-.1099							
.890					-.3243	-.4738	-.6231			
.857				-.3507						
.902									-.5576	
.805		-.1221								
.879			-.1338							
.900		-.0551			-.2666			-.6097		
.905				-.3453						
.919			-.1842							
.950					-.1753	-.2820	-.5617			
.953				-.3110						
.955			-.1768							
.965		-.1517								

ALPHA (5) = 11.992 BETA (3) = 4.212 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1858

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2238	-.6819	-.6716	-.4174	.0758	.0830	.0437	-.0776	-.8053	
.010		-.6546	-.6602		-.6411	-.6302	-.6504	-.7941		
.020		-.6496		.0000	-.7120	-.6947	-.7475	-.8366	-.7253	
.040			-.6359	-.1566						
.041	-.3371									
.050					-.7402	-.7393	-.8558	-.7736		
.060									-.7036	
.080					-.7857					
.100				-.2693						
.110			-.5444							
.120		-.7228								
.130	-.3292									
.150					-.6780	-.6097	-.9045	-.7516		
.160									-.6909	
.170			1.1761							
.177				-.4275						
.180		-.6470								
.190			-.4600							
.197	-.3854									
.250					-.6225	-.8907	-.8927	-.7464		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU03)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4480						
.345									-.6842	
.362		-.0525								
.390			-.4592							
.400					-.6435	-.8191		-.7401		
.402				-.5867						
.418										-.6752
.429	-.2078									
.497		-.3233								
.503									-.6831	
.547	-.1169									
.550					-.5193	-.7599				
.585				-.6602						
.600								-.7225		
.633	-.4766									
.637			-.4936							
.650							-.7532			
.670									-.6489	
.700		-.4350				-.6043				
.723										-.6224
.725					-.2976					
.737	-.4981									
.750							-.7276	-.6924		
.770				-.2787						
.775					-.3952	-.4755				
.793	-.0343									
.799			-.1965							
.808				-.3590						
.834		-.1729								
.839			-.2362							
.850					-.3045	-.3893	-.6753			
.857				-.3332						
.882									-.6873	
.886		-.2106								
.879			-.2233							
.900		-.1592			-.3454			-.6709		
.905				-.2765						
.919			-.1939							
.933					-.2760	-.2011	-.5856			
.953				-.3025						
.955			-.1812							
965		-.1569								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J04) (05 AUG 75)

REFERENCE DATA

SREF = 2990.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 636.0690 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) = -3.830 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4486	-.0442	-.0987	.1488	.4103	.3179	.2509	.2657	-1.0738	
.010		.0318	.0569		.6182	.5794	.5439	.4452		
.020		.0456		.0000	.5479	.4947	.4657	.4008	-.3959	
.040			.1637	.3921						
.041	-.0381									
.050					.3276	.2731	.2502	.1993		
.069									-.4654	
.080					.1404					
.081				.2619						
.086			.2888							
.094		.0525								
.113	.0450									
.150					-.0918	-.1337	-.1491	-.1876		
.157									-.5561	
.163			.5884							
.177				-.0100						
.229		.1620								
.245			.0754							
.247	.0730									
.250					-.2901	-.3382	-.3908	-.4959		
.274				-.1597						
.345									-.4436	
.362		.1517								
.390			-.1336							
.400					-.2081	-.3301		-.6298		
.402				-.1950						
.418										-.5271
.440	.1640									
.447		-.0994								
.503									-.0958	
.547	.0259									
.550					-.1478	-.2869				
.566				-.0362						
.600								-.1406		
.633	-.1089									
.637			.0236							
.650							-.1534			
.670									-.0505	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0607				-.1151				
.723										-.5263
.725					-.1071					
.727	.0285									
.750							.0612	.0493		
.760				-.1604						
.775					.0414	-.0326				
.793	.1749									
.798			-.1551							
.808				.0736						
.834		-.1338								
.839			.0846							
.850					.0940	.0622	.1082			
.857				.0682						
.862									.0457	
.865		.0076								
.879			.0597							
.900		.0017			.0789			.1214		
.905				.0629						
.913			.0473							
.950					.0997	.1383	.1465			
.953				.0725						
.955			.0576							
.965		.0792								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4674	-.0031	-.0254	.1589	.3541	.2291	.1499	.1557	-.7940	
.010		.0343	.0728		.5526	.5016	.4624	.3800		
.020		.0317		.0000	.4892	.4282	.3958	.3394	-.4612	
.043			.1494	.3349						
.041	-.0939									
.060					.2876	.2347	.2088	.1576		
.069									-.5028	
.080					.1105					
.081				.2283						
.086			.2526							
.094		.0324								
.113	.0310									
.160					-.0868	-.1305	-.1653	-.2042		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

ALPHA (1) = -- 036 BETA (2) = .153

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA/	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
X/C										
.157									-.5758	
.163			.5904							
.177				-.0122						
.229		.1352								
.246			.0592							
.247	.0582									
.250					-.2690	-.3180	-.3740	-.5101		
.274				-.1488						
.345									-.4696	
.362		.1271								
.390			-.1266							
.400					-.2147	-.3382		-.6143		
.402				-.1931						
.418										-.3915
.429	.1416									
.497		-.0894								
.503									-.1272	
.547	.0148									
.550					-.2011	-.3576				
.565				-.0788						
.600								-.3625		
.623	-.1130									
.637			-.0312							
.650							-.3150			
.670									-.0561	
.700		.0138				-.2056				
.723										-.4213
.725					-.2131					
.727	-.0069									
.750							.0643	.0535		
.760				-.2410						
.775					-.0146	-.0816				
.783	.1135									
.790			-.2303							
.810				.0091						
.834		-.2024								
.838			.0026							
.850					.0451	.0182	.0955			
.857				.0105						
.862									.0363	
.865		-.0727								
.879			-.0084							
.901		-.0622			.0359			.1084		
.905				.0222						
.919			.0010							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0617	.1114	.1342			
.953				.0353						
.955			.0146							
.965		.0327								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5009	.0159	.0203	.1762	.3052	.1584	.0711	.0731	-.7535	
.010		.0298	.0754		.4798	.4281	.3863	.3135		
.020		.0223		.0000	.4254	.3550	.3346	.2766	-.5043	
.040			.1325	.2779						
.041	-.1113									
.060					.2458	.1925	.1682	.1212		
.080									-.5594	
.081					.0850					
.086				.1868						
.094			.2127							
.113	.0009	.0159								
.150										
.157					-.0889	-.1352	-.1573	-.2189		
.163			.5860						-.6063	
.177				-.0187						
.229		.1133								
.246			.0434							
.247	.0423									
.260										
.274					-.2497	-.3024	-.3575	-.4898		
.345				-.1478						
.362		.1063							-.4748	
.390			-.1249							
.400					-.2134	-.3229		-.6037		
.402				-.2080						
.418										
.429	.1160									-.4320
.437		-.0390								
.505										
.517	-.0048								-.4500	
.533					-.2270	-.3745				
.565				-.1231						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.6043		
.633	-.1271									
.637			-.0734							
.650							-.5055			
.670									-.0367	
.700		-.0296				-.3645				
.723										-.3441
.725					-.3258					
.727	-.0386									
.750							-.0502	.0500		
.760				-.3220						
.775					-.1943	-.2152				
.793	.0668									
.798			-.2840							
.808				-.1697						
.834		-.2976								
.839			-.1352							
.850					-.0223	-.0528	.0809			
.857				-.0502						
.862									.0469	
.865		-.2531								
.879			-.1002							
[illegible]		-.1688			.0068			.1153		
.905				-.0310						
.919			-.0662							
[illegible]					.0371	.0823	.1225			
[illegible]				-.0018						
[illegible]			-.0332							
[illegible]		-.0207								

ALPHA (2) = -.025 BETA (1) = -3.907 MACH = .69827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3702	.0445	.1045	.3782	.5506	.4853	.4482	.4552	-.3711	
.010		.0426	.1481		.4587	.4684	.4176	.2645		
.020		.0266		.0000	.3344	.3022	.2632	.1955	-.3000	
.040			.1894	.1935						
.041	-.1280									
.050					.0719	.0085	-.0222	-.0677		
.069									-.3857	
.080					-.1511					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

ALPHA (2) = -.025 BETA (1) = -3.907

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.0383						
.085			.2220							
.094		.0087								
.113	-.0286									
.150					-.3760	-.4419	-.4480	-.4507		
.157									-.6923	
.163			.5883							
.177				-.2629						
.[illegible]		.1009								
.[illegible]			-.0972							
.247	.0264									
.250					-.5314	-.6367	-.6695	-.6765		
.274				-.4020						
.345									-.7388	
.352		.0293								
.330			-.3444							
.400					-.3134	-.4941		-.9436		
.402				-.4154						
.418										-.3282
.429	.0381									
.437		-.2505								
.503									-.4807	
.547	-.1119									
.550					-.1879	-.3360				
.565				-.0821						
.600								-.1507		
.633	-.2388									
.637			-.0219							
.650							-.1024			
.670									-.1201	
.700		.0066				-.0917				
.723										-.2402
.725					-.0784					
.737	-.0298									
.750							.0698	.0708		
.750				-.1222						
.770					.0543	-.0142				
.783	.1377									
.[illegible]			-.1280							
.[illegible]				.0783						
.[illegible]		-.1205								
.[illegible]			.0861							
.[illegible]					.0973	.0755	.1119			
.[illegible]				.0780						
.852									.0078	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

ALPHA (1) = -.025 BETA (1) = -3.907

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.985		.0132								
.979			.0718							
.969		.0130			.0789			.1209		
.959				.0739						
.949			.0584							
.939					.0889	.1341	.1331			
.929				.0680						
.909			.0517							
.885		.0905								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.985	-.4087	.0129	.0877	.3513	.4916	.4160	.3747	.3703	-.3938	
.979		.0012	.1113		.3648	.3783	.3322	.1846		
.969		-.0134		.0000	.2538	.2143	.1892	.1267	-.3728	
.959			.1491	.1424						
.949	-.2215									
.939					.0152	-.0471	-.0754	-.1169		
.929									-.4489	
.919					-.1949					
.909				.0025						
.895			.1712							
.885		-.0159								
.875	-.0397									
.865					-.3333	-.4783	-.4522	-.4804		
.855									-.7332	
.845			.1811							
.835				-.2835						
.825		.0788								
.815			-.2417							
.805	.0405									
.795					-.4983	-.6307	-.6752	-.7090		
.785				-.3811						
.775									-.7461	
.765		.0115								
.755			-.3279							
.745					-.3259	-.4399		-.9203		
.735				-.3867						
.725										-.3979
.715	.0743									

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

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

(XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.2584								
.503										
.547	-.1273								-.6097	
.550										
.565					-.2584	-.4387				
.600				-.1358						
.633	-.2995							-.1255		
.637			-.0766							
.650										
.670							-.1407			
.700		-.0468							-.0911	
.723						-.1488				
.725										-.2268
.737	-.0808				-.1660					
.750										
.760							.0832	.0647		
.775				-.2061						
.793	.0726				-.0025	-.0476				
.798			-.1896							
.808				.0070						
.834		-.1893								
.839			.0105							
.850										
.867					.0497	.0406	.1022			
.870				.0228						
.885		-.0721							.0283	
.879			.0062							
.900		-.0597								
.905					.0432			.1229		
.913				.0191						
.9			.0157							
.9					.0574	.1162	.1147			
.9				.0421						
.9			.0310							
.9		.0484								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

ALP [illegible] = -.027 BETA (3) = [illegible].215 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.4555	-.0381	.0528	.3060	.4438	.3591	.3143	.3006	-.3490	
[illegible]		-.0496	.0760		.2863	.2939	.2394	.1000		
[illegible]		-.0524		.0000	.1848	.1465	.1052	.0406	-.4174	
[illegible]	-.2720		.1169	.0908						
[illegible]					-.0307	-.0956	-.1326	-.1835		
[illegible]					-.2011				-.4937	
[illegible]				-.0277						
[illegible]			.1437							
[illegible]		-.0338								
.113	-.0512									
[illegible]					-.3746	-.4330	-.4650	-.5051		
.157									-.7608	
[illegible]			.5878							
[illegible]				-.2469						
[illegible]		.0608								
[illegible]			-.1248							
.247	-.0031									
[illegible]					-.4859	-.6072	-.6686	-.7276		
[illegible]				-.3371						
.345									-.6725	
.362		-.0027								
[illegible]			-.2769							
[illegible]					-.3138	-.4463		-.7845		
[illegible]				-.3816						
[illegible]	.0603									-.4884
.497		-.2473								
[illegible]										
.547	-.1345								-.6125	
[illegible]					-.2825	-.4603				
[illegible]				-.1666						
[illegible]	-.2759							-.5797		
[illegible]			-.1150							
[illegible]							-.5500			
[illegible]		-.0776							-.0931	
[illegible]						-.3676				
[illegible]					-.3334					-.2200
[illegible]	-.0995									
[illegible]							.0603	.0777		
[illegible]				-.2912						
[illegible]					-.1826	-.1852				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0253									
.798			-.2749							
.808				-.1640						
.834		-.2844								
.839			-.2036							
.850					-.0141	-.0287	.0872			
.857				-.0753						
.862									.0348	
.865		-.2845								
.879			-.1208							
.900		-.1714			-.0005			.1267		
.905				-.0263						
.919			-.0646							
.950					.0361	.0927	.1055			
.953				.0116						
.955			-.0273							
.965		-.0219								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3095	-.0393	.0575	.4093	.6104	.5736	.6512	.4911	-.2025	
.010		-.0949	.0664		.1693	.2080	.1084	-.1370		
.020		-.0947		.0000	.0303	-.0130	-.0856	-.2133	-.5444	
.040			.0378	-.0485						
.041	-.1872									
.060					-.2455	-.3273	-.3922	-.4865		
.080					-.4649				-.6427	
.081				-.2262						
.085			.0964							
.094		-.0615								
.113	-.0367									
.140					-.6991	-.7392	-.7541	-.7364		
.157									-.8942	
.183			.5900							
.211				-.4744						
.283		.0464								
.344			-.2726							
.347	-.0129									
.850					-.7548	-.9294	-.9730	-.7958		

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AMES 11-073 [illegible] LEFT WING TOP

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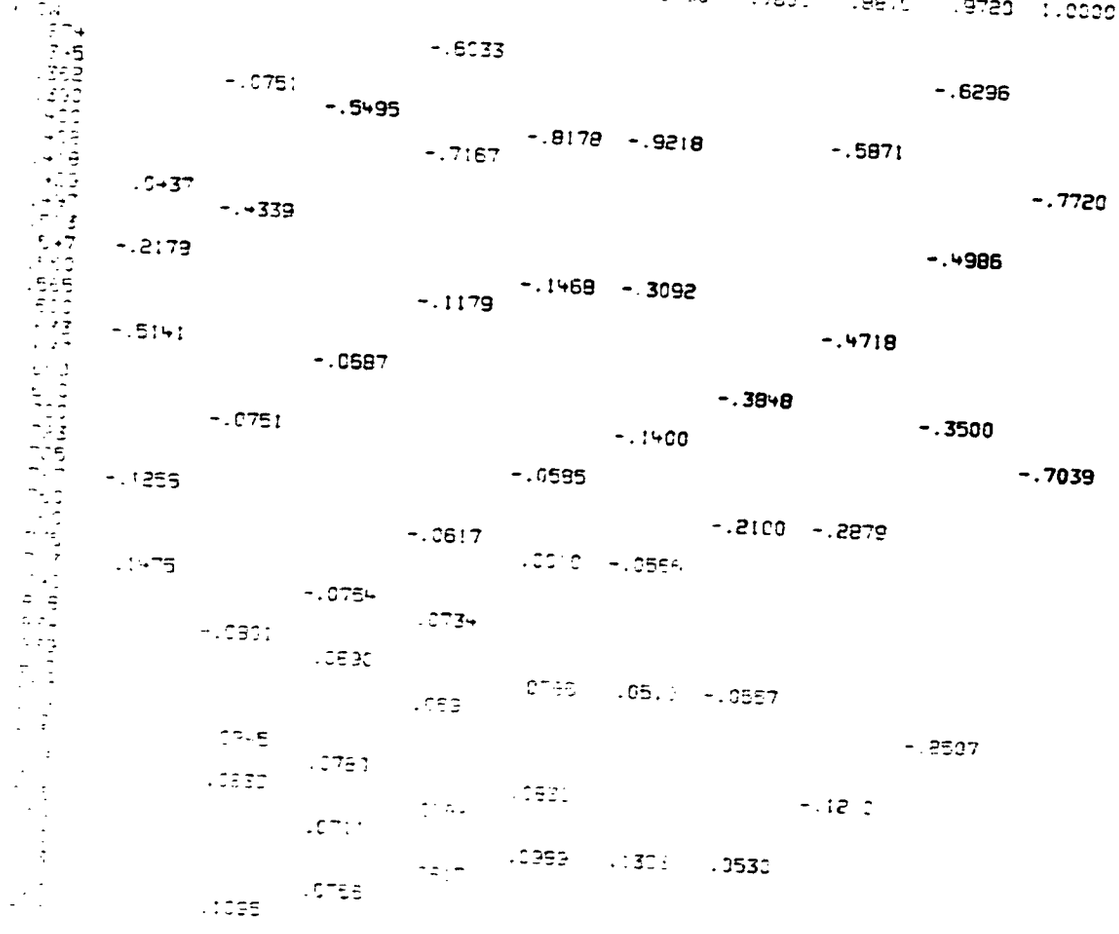
[illegible] = [illegible] BETA [illegible] = -3.912

[illegible] LEFT WING TOP SURF

DEPENDENT VARIABLE CP

	.750	.2930	.3640	.4270	[illegible]	[illegible]	.7600	.8870	.9720	1.0000
[illegible]				-.6033						
[illegible]		-.0751							-.6296	
[illegible]			-.5495							
[illegible]				-.7167	-.8178	-.9218		-.5871		
[illegible]	.0437									-.7720
[illegible]		-.4339								
[illegible]	-.2179								-.4986	
[illegible]				-.1179	-.1468	-.3092				
[illegible]	-.5141							-.4718		
[illegible]			-.0587							
[illegible]							-.3848			
[illegible]		-.0751				-.1400			-.3500	
[illegible]	-.1255				-.0585					-.7039
[illegible]				-.0617			-.2100	-.2879		
[illegible]	.1475				[illegible]	-.0564				
[illegible]			-.0754							
[illegible]		-.0801		.0734						
[illegible]			.0830							
[illegible]				[illegible]	[illegible]	[illegible]	-.0557			
[illegible]		[illegible]							-.2507	
[illegible]		.0830	.0781							
[illegible]				[illegible]	[illegible]			-.12[illegible]		
[illegible]			.0711							
[illegible]				[illegible]	.0999	[illegible]	.0530			
[illegible]		.1095	.0755							



AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUD4)

ALPHA (3) = 3.896 BETA (2) = .152 MACH = .89833 Q = 598.89 P = 1050.2 RN/L = 3.5704

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Y RW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.3666	-.1521	-.0572	.3121	.5214	.4795	.4463	.3776	-.3457	
[illegible]		-.1849	-.0166		.0523	.0845	-.0176	-.2530		
[illegible]		-.1629		.0000	-.0652	-.1234	-.1963	-.3244	-.6586	
[illegible]			.0400	-.1124						
[illegible]	-.3807									
[illegible]					-.3117	-.4132	-.4791	-.5697		
[illegible]									-.7317	
[illegible]					-.5172					
[illegible]				-.2634						
[illegible]			.0497							
[illegible]		-.0828								
[illegible]	-.1092									
[illegible]					-.7229	-.7834	-.7976	-.7955		
[illegible]									-.9449	
[illegible]			.5927							
[illegible]				-.4909						
[illegible]		.0252								
[illegible]			-.2315							
[illegible]	-.0348									
[illegible]					-.7567	-.9319	-.9958	-.8545		
[illegible]				-.5933						
[illegible]									-.6322	
[illegible]		-.0901								
[illegible]			-.5442							
[illegible]					-.7791	-.9769		-.6428		
[illegible]				-.6857						
[illegible]										-.9321
[illegible]	.0213									
[illegible]		-.4309								
[illegible]									-.5204	
[illegible]	-.2416									
[illegible]					-.2397	-.1763				
[illegible]				-.1701						
[illegible]								-.4747		
[illegible]	-.5220									
[illegible]			-.1311							
[illegible]							-.3583			
[illegible]									-.2844	
[illegible]		-.1143				-.1681				
[illegible]										-.5652
[illegible]					-.1307					
[illegible]	-.1535									
[illegible]							-.1970	-.2864		
[illegible]				-.1258						
[illegible]					-.0430	-.0924				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

ALPHA (3) = 3.899 BETA (2) = .152

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.733	.0960									
.788			-.1495							
.808				.0043						
.834		-.1552								
.839			.0193							
.850					.0294	.0167	-.0004			
.867				.0151						
.876		-.0753							-.2065	
.879			.0225							
.900		-.0430			.0427			-.1310		
.919				.0335						
.930			.0265							
.943					.0641	.0987	.1058			
.955				.0440						
.965		.0539	.0425							

ALPHA (3) = 3.899 BETA (3) = 4.208 MACH = .89933 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	-.4278	-.2703	-.1630	.1958	.4278	.3814	.3494	.2617	-.5277	
.010		-.2609	-.0702		-.0607	-.0265	-.1405	-.3731		
.020		-.2065		.0009	-.1569	-.2184	-.3030	-.4552	-.7843	
.040			.0065	-.1620						
.041	-.4395									
.080					-.3636	-.4782	-.5481	-.6466		
.111					-.5483				-.8020	
.120				-.2922						
.136			.0223							
.160		-.0944								
.163	-.1129									
.200					-.7130	-.7925	-.8106	-.8272		
.232			.5903						-1.0096	
.240		-.0003		-.4854						
.280			-.2725							
.287	-.0392									
200					-.7195	-.8368	-.9843	-.9615		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

ALPHA (3) = 3.839 BETA (3) = 4.208

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.274				-.5707						
.345									-.7643	
.392		-.0966								
.330			-.5091							
.400					-.6084	-.9111		-.7635		
.412				-.6147						
.418										-1.0609
.429	.0165									
.497		-.4304								
.503									-.5919	
.547	- 2264									
.550					-.3211	-.4111				
.606				-.2321						
.609								-.5296		
.633	-.4737									
.637			-.1911							
.640							-.2824			
.670									-.3232	
.700		-.1284				-.2179				
.703										-.4340
.706					-.2081					
.737	-.1680									
.750							-.0765	-.2436		
.770				-.2069						
.774					-.0987	-.1029				
.793	.0150									
.799			-.2425							
.808				-.0856						
.814		-.2385								
.819			-.1240							
.830					-.0053	.0035	.0560			
.857				-.0448						
.862									-.1773	
.873		-.1989								
.879			-.0623							
.911		-.1186			.0277			-.0444		
.915				-.0192						
.919			-.0200							
.942					.0566	.0958	.1353			
.953				.0176						
.975			.0137							
.986		.0011								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/CW	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2740	-.3042	-.2766	.2073	.4843	.4640	.4176	.2911	-.5954	
.010		-.3784	-.2043		-.2743	-.1940	-.3332	-.5887		
.020		-.3157		.0000	-.3745	-.4051	-.4972	-.6948	-1.0679	
.040			-.1016	-.3822						
.041	-.2170									
.050					-.5980	-.6601	-.7613	-.8925		
.059									-1.0639	
.080					-.7719					
.081				-.5430						
.086			-.0785							
.094		-.1442								
.113	-.1738									
.150					-.9876	-1.0527	-.9601	-.8684		
.157									-1.0049	
.163			.5916							
.177				-.6715						
.229		.0082								
.246			-.4324							
.247	-.0669									
.250					-1.0101	-1.0405	-.8217	-.6671		
.274				-.7681						
.345									-.5718	
.362		-.1652								
.390			-.6615							
.400					-.8223	-.7561		-.5651		
.402				-.9042						
.418										-.8694
.479	.0004									
.497		-.5391								
.503									-.4937	
.547	-.3399									
.550					-.4051	-.5997				
.565				-.2984						
.600								-.4890		
.637	-.6971									
.637			-.1124							
.650							-.5576			
.670									-.4416	
.700		-.1461				-.4536				
.723										-.4421
.765					-.1994					
.727	-.1795									
.750							-.4634	-.4343		
.760				-.1311						
.775					-.1507	-.3616				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1647									
.799			-.1386							
.809				-.0084						
.834		-.1239								
.839			-.0057							
.850					-.0167	-.2649	-.3874			
.857				.0022						
.872									-.3912	
.895		-.0533								
.899			-.0186							
.900		-.0216			.0043			-.3631		
.905				.0119						
.919			-.0253							
.950					.0552	-.1092	-.3293			
.973				.0492						
.985			.0122							
.995		.0811								

ALPHA (4) = 7.900 BETA (2) = .140 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3637	-.4772	-.3913	.0392	.3480	.3294	.2821	.1517	-.8406	
.010		-.4839	-.1944		-.4103	-.3229	-.4826	-.7201		
.020		-.3599		.0000	-.4761	-.5169	-.6097	-.8017	-1.1138	
.040			-.0761	-.4334						
.041	-.4016									
.050					-.6571	-.7422	-.8441	-.9855		
.069									-1.0491	
.080					-.8158					
.081				-.5741						
.096			-.0699							
.104		-.1877								
.113	-.2012									
.160					-.9587	-1.0875	-1.0103	-.9812		
.164									-.5752	
.163			.5908							
.179				-.6585						
.219		-.1187								
.240			-.4247							
.247	-.0644									
.260					-.9828	-1.0925	-.8829	-.7758		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BA	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.7357						
.345										
.392		-.1877							-.5463	
.390			-.6610							
.400										
.402					-.9675	-.8347		-.6568		
.418				-.8640						
.429	-.0038									-.5953
.497		-.5660								
.503										
.547	-.3522								-.5140	
.550										
.585					-.3950	-.6216				
.600				-.2368						
.633	-.7042							-.5567		
.637			-.1659							
.650										
.670							-.5886			
.700		-.1479							-.4533	
.723						-.4596				
.725										
.727	-.2464				-.2303					-.4343
.750										
.760							-.4903	-.4903		
.775				-.1819						
.733	.0660				-.1877	-.3270				
.790			-.1945							
.804		-.1619		-.0781						
.820			-.0945							
.850					-.0486	-.2191	-.3924			
.850				-.0547						
.864		-.1247							-.4098	
.879			-.0585							
.900		-.0831			-.0239			-.4444		
.914				-.0430						
.930			-.0280							
.943					.0347	-.0718	-.3012			
.958				.0059						
.965		.0334	.0125							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4474	-.5845	-.2454	-.1213	.2083	.1820	.1317	-.0078	-.7658	
.010		-.3892	-.1723		-.5168	-.4828	-.6364	-.8779		
.020		-.3368		.0000	-.5954	-.6359	-.7479	-.9445	-.6862	
.040			-.1489	-.4075						
.041	-.5139									
.050					-.6949	-.8288	-.9374	-1.0822		
.069									-.5959	
.080					-.8222					
.081				-.4792						
.086			-.1590							
.094		-.3189								
.113	-.2054									
.150					-.9033	-1.1074	-1.0544	-1.0346		
.157									-.5661	
.163			.5887							
.177				-.6040						
.229		-.2268								
.246			-.5055							
.247	-.0860									
.250					-.9026	-1.0946	-.9505	-.8362		
.274				-.6980						
.345									-.5394	
.362		-.1284								
.390			-.7116							
.400					-.9040	-.8474		-.6202		
.402				-.8318						
.418										-.5388
.429	-.0256									
.497		-.5448								
.503									-.5304	
.547	-.3487									
.550					-.3804	-.6116				
.565				-.2442						
.600								-.5797		
.633	-.6766									
.637			-.2035							
[illegible]							-.5393			
[illegible]									-.4908	
[illegible]		-.1873				-.4120				
[illegible]										-.4710
[illegible]					-.2244					
[illegible]	-.2517									
[illegible]							-.4814	-.5261		
[illegible]				-.2709						
[illegible]					-.2328	-.2908				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8UC4)

ALPHA (S) = 7.897 BETA (3) = 4.209

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.793	-.0037									
.796			-.2129							
.808				-.2749						
.834		-.2114								
.873			-.1610							
.900					-.0697	-.1896	-.3967			
.907				-.1708						
.932									-.4277	
.955		-.2236								
.979			-.1040							
.990		-.1528			-.0356			-.4591		
.995				-.1159						
.919			-.0652							
.950					.0250	-.0296	-.2934			
.963				-.0376						
.985			-.0226							
.986		-.0312								

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.2844	-.6085	-.5327	-.1854	.2217	.2036	.1488	.0019	-.8094	
.010		-.6089	-.2682		-.7123	-.6181	-.7831	-.8473		
.020		-.5084		.0000	-.8348	-.8023	-.9877	-.7116	-.7042	
.040			-.1977	-.0573						
.060	-.2805									
.081					-.9660	-1.0135	-1.0669	-.6980		
.101									-.5626	
.121					-1.0807					
.141				-.7487						
.161			-.1815							
.181		-.3814								
.202	-.2845									
.222					-1.1620	-.9895	-1.0313	-.6716		
.242									-.5514	
.263			.5900							
.283				-.7972						
.303		-.2854								
.323			-.5609							
.343	-.1200									
.350					-1.0426	-.9035	-.8793	-.6518		

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

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

ALPHA (S) = 11.985 BETA (I) = -3.890

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.8591						
.345										
.362		-.3927							-.5397	
.390			-.7760							
.402					-.7909	-.8227		-.6107		
.418				-.8860						
.434	-.0326									-.5236
.442		-.7677								
.458	-.4900								-.5354	
.465					-.7037	-.6791				
.474				-.4843						
.477	-.8323							-.5827		
.494			-.3230							
.521							-.6417			
.537		-.2222							-.5072	
.553						-.6107				
.581	-.2418				-.4190					-.5690
.585							-.6070	-.5552		
.602				-.2787						
.609	.0571				-.4350	-.5433				
.625			-.2924							
.634				-.2626						
.638		-.2598								
.650			-.3151							
.661					-.2676	-.5049	-.5683			
.666				-.2051						
.678		-.2022							-.4562	
.686			-.3177							
.698		-.1291								
.710					-.2528			-.5342		
.714				-.1847						
.722			-.1509							
.734					-.1556	-.3864	-.5431			
.738				-.1484						
.746			-.0745							
.758		.0188								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

[illegible] BETA (2) = .152 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.4056	-.7921	-.3374	-.3689	.0422	.0258	-.0272	-.1736	-.8005	
[illegible]		-.5527	-.2873		-.8613	-.7683	-.9229	-.9194		
[illegible]		-.5022		.0000	-.9712	-.9540	-1.0713	-.6917	-.6969	
[illegible]			-.2682	-.5402						
[illegible]	-.4625									
[illegible]					-1.0727	-1.1234	-1.0824	-.6675		
[illegible]									-.6190	
[illegible]					-1.1220					
[illegible]				-.6264						
[illegible]			-.2622							
[illegible]		-.4829								
[illegible]	-.2740									
[illegible]					-1.2113	-1.0240	-1.0091	-.6683		
[illegible]									-.5998	
[illegible]			.5887							
[illegible]				-.7394						
[illegible]		-.5936								
[illegible]			-.5996							
[illegible]	-.1719									
[illegible]					-.9882	-.9319	-.9352	-.6628		
[illegible]				-.8424						
[illegible]									-.5793	
[illegible]		-.3111								
[illegible]			-.7870							
[illegible]					-.8124	-.8242		-.6613		
[illegible]				-.9422						
[illegible]										-.5819
[illegible]	-.0688									
[illegible]		-.7390								
[illegible]									-.5716	
[illegible]	-.5006									
[illegible]					[illegible]	-.7163				
[illegible]				.3375						
[illegible]								-.6.82		
[illegible]	-.8493									
[illegible]			-.3503							
[illegible]							-.6600			
[illegible]									-.5441	
[illegible]		-.2413				-.6232				
[illegible]										-.5394
[illegible]					-.4011					
[illegible]	-.2935									
[illegible]							-.6220	-.5838		
[illegible]				-.3158						
[illegible]					-.4292	-.5571				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU04)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0344									
.798			-.3177							
.808				-.4531						
.834		-.2748								
.839			-.3827							
.850					-.2582	-.4956	-.5956			
.857				-.3420						
.862									-.5121	
.865		-.2872								
.879			-.2734							
.900		-.2114			-.2374			-.5506		
.905				-.3110						
.918			-.1921							
.950					-.1428	-.3556	-.5493			
.953				-.2123						
.956			-.0995							
.985		-.0597								

ALPHA (5) = 11.992 BETA (3) = 4.222 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5222	-.7467	-.3696	-.5293	-.1230	- 1551	-.2048	-.3510	-.7731	
.010		-.6469	-.3413		-.9937	-.9145	-1.0385	-.7779		
.020		-.6282		.0000	-1.0819	-1.0803	-.3562	-.7736	-.6950	
.040			-.3411	-.4543						
.041	-.6270									
.060					-1.1293	-1.1690	-.8394	-.7165		
.069									-.6396	
.080					-1.1054					
.081				-.5662						
.095			-.3117							
.099		- 6057								
.113	-.2454									
.120					-1.0774	-.9927	-.7677	-.6716		
.157									-.6081	
.193			.5871							
.197				-.6801						
.233		-.6733								
.246			-.6061							
.247	-.2288									
.260					-.7958	-.8300	-.7409	-.6656		

DATE [illegible] FEB 75 TABULATED PRESSURE DATA - [illegible] (AMES 11-073-1)

AMES 11-073(CA1[illegible]) -140A/B C/R ORB LEFT WING TOP (XEBUC4)

[illegible] BETA [illegible] 3 = [illegible].222

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2360	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.8195						
[illegible]		-.3208							-.5926	
[illegible]			-.8256							
[illegible]					-.6610	-.7541		-.6618		
[illegible]				-.8684						
[illegible]	-.1093									-.6290
[illegible]		-.7352								
[illegible]	-.4935								-.5959	
[illegible]					-.5673	-.7221				
[illegible]				-.3817						
[illegible]	-.8494							-.6614		
[illegible]			-.3395							
[illegible]							-.6943			
[illegible]		-.1891							-.5749	
[illegible]						-.6573				
[illegible]										-.5842
[illegible]	-.2660				-.4397					
[illegible]							-.6655	-.6246		
[illegible]				-.4411						
[illegible]					-.6101	-.6224				
[illegible]	.0111									
[illegible]			-.3970							
[illegible]				-.5665						
[illegible]		-.3342								
[illegible]			-.5134							
[illegible]					-.4353	-.51[illegible]	-.6224			
[illegible]				-.5575						
[illegible]		-.3947							-.5[illegible]43	
[illegible]			-.4054							
[illegible]		-.3[illegible]			-.[illegible]			-.5970		
[illegible]				-.5[illegible]						
[illegible]			-.3[illegible]							
[illegible]					-.2[illegible]	-.3[illegible]	-.5[illegible]			
[illegible]				-.2093						
[illegible]			-.1913							
[illegible]		-.1509								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0680 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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1438	-.1265	-.2786	-.0958	.1260	.0433	.0039	.0967	-.9125	
.010		.0032	-.0401		.6126	.6107	.5883	.5274		
.020		.0354		.0000	.5601	.5490	.5247	.4896	-.1140	
.040			.1173	.3749						
.041	.0391									
.050					.3452	.3247	.3066	.2718		
.069									-.1133	
.080					.1522					
.091				.2458						
.096			.2709							
.094		.0626								
.113	.0568									
.150					-.0732	-.0973	-.1427	-.1087		
.157									-.1534	
.163			.1430							
.177				-.0112						
.220		.1564								
.246			.0467							
.247	.0857									
.250					-.2152	-.2673	-.3019	-.3405		
.274				-.1345						
.300									-.1385	
.362		.1124								
.390			-.1015							
.400					-.1579	-.2332		-.2960		
.402				-.1331						
.408										-.5915
.499	.1353									
.507		-.0653								
.573									-.1885	
.547	.0143									
.550					-.0740	-.1383				
.565				-.0017						
.600								-.1850		
.603	-.0586									
.637			.0470							
.650							-.1179			
.670									-.0844	

DEPENDENT VARIABLE CP

DEPENDENT VARIABLE CP

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8UD5)

ALPHA (1) = -3.991 BETA (2) = -3.877

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y DW / X DW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.157									-.1863	
.163			.1435							
.177				-.0312						
.229		.1295								
.246			.0241							
.247	.0564									
.250					-.2306	-.2744	-.3131	-.3439		
.274				-.1481						
.345									-.1442	
.362		.0886								
.390			-.1251							
[illegible]					-.1865	-.2487		-.3078		
[illegible]				-.1604						
[illegible]										-.5643
[illegible]	.1047									
[illegible]		-.0942								
[illegible]									-.1875	
[illegible]	-.0153									
[illegible]					-.1083	-.1684				
[illegible]				-.0448						
[illegible]								-.1871		
[illegible]	-.0049									
[illegible]			.0019							
[illegible]							-.1366			
[illegible]									-.0777	
[illegible]		.0294				-.0934				
[illegible]										-.4905
[illegible]					-.0493					
[illegible]	.0027									
[illegible]							.0022	-.0007		
[illegible]				-.0864						
[illegible]					.0101	-.0287				
[illegible]	.1490									
[illegible]			-.0821							
[illegible]				.0515						
[illegible]		-.0669								
[illegible]			.0705							
[illegible]					.0780	.0468	.0662			
[illegible]				.0513						
[illegible]									.0041	
[illegible]		.0054								
[illegible]			.0489							
[illegible]		.0072			.0530			.0833		
[illegible]				.0457						
[illegible]			.0301							

AMES 11-073 (OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA (1) = -3.991 BETA (2) = -3.877

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0744	.0951	.1014			
.953				.0558						
.955			.0390							
.965		.0426								

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1483	-.0437	-.1078	.0126	.0952	-.0515	-.1388	-.0769	-.8126	
.010		.0047	.0089		.4841	.4561	.4365	.3908		
.020		.0040		.0000	.4374	.4175	.3964	.3596	-.2598	
.040			.0881	.2707						
.041	-.0546									
.050					.2505	.2231	.2159	.1887		
.059									-.2334	
.080					.0815					
.081				.1709						
.085			.1976							
.094		.0052								
.113	-.0100									
.151					-.1104	-.1322	-.1480	-.1477		
.157									-.2233	
.163			.1424							
.172				-.0479						
.229		.1027								
.246			.0019							
.247	.0329									
[illegible]					-.2[illegible]	-.259[illegible]	-.3123	-.3423		
[illegible]				-.1612						
[illegible]									-.1609	
[illegible]		.0894								
[illegible]			-.142							
[illegible]					-.2173	-.2563		-.3090		
[illegible]				-.1891						
[illegible]										-.5176
[illegible]	.0953									
[illegible]		-.1118								
[illegible]									-.1804	
[illegible]	-.0724									
[illegible]					-.1439	-.1906				
[illegible]				-.0779						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.1230							-.1922		
.637			-.0428							
.650							-.1466			
.670									-.0687	
.700		-.0143				-.1071				
.723										-.5028
.725					-.0825					
.727	-.0324									
.750							-.0091	-.0042		
.760				-.1172						
.775					-.0271	-.0518				
.793	.1069									
.799			-.1098							
.808				.0196						
.834		-.1039								
.839			.0297							
.850					.0497	.0250	.0574			
.857				.0239						
.862									.0076	
.865		-.0379								
.879			.0196							
.900		-.0240			.0341			.0812		
.905				.0245						
.919			.0034							
.950					.0668	.0844	.0994			
.953				.0398						
.965			.0140							
.965		.0145								

ALPHA (1) = -3.981 BETA (4) = 4.231 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1614	-.0245	-.0410	.0595	.1105	-.0427	-.1237	-.0744	-.6424	
.010		-.0045	.0223		.4245	.3911	.3712	.3233		
.020		-.0079		.0000	.3763	.3470	.3281	.2917	-.2690	
.040			.0864	.2274						
.041	-.0873									
.050					.2023	.1744	.1620	.1309		
.059									-.2507	
.060					.0459					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

ALPHA (3) = -3.981 BETA (4) = 4.231

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.086				.1342						
.094			.1700							
.113	-.0366	-.0147								
.150					-.1275	-.1494	-.1802	-.1781		
.167									-.2394	
.183			.1405							
.197				-.0621						
.229		.0957								
.246			-.0131							
.263	.0177									
.280					-.2511	-.2960	-.3236	-.3544		
.297				-.1844						
.314									-.1616	
.330		.0541								
.347			-.1615							
.363					-.2269	-.2785		-.3116		
.380				-.2150						
.397										-.3799
.413	.0717									
.430		-.1348								
.447	-.0489								-.1703	
.463					-.1688	-.2000				
.480				-.1160						
.497								-.1991		
.513	-.1479									
.530			-.0824							
.547							-.1565			
.563		-.0542							-.0605	
.580						-.1163				
.597										-.3916
.613	-.0853				-.0974					
.630							-.0230	-.0052		
.647				-.1419						
.663	.0340				-.0427	-.0635				
.680			-.1353							
.697				-.0063						
.713		-.1373								
.730			-.0013							
.747					.0365	.0062	.0580			
.763				.0000						
.780									.0159	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0776								
.879			-.0059							
.900		-.0484			.0267			.0793		
.905				.0125						
.919			-.0189							
.950					.0668	.0719	.0964			
.963				.0249						
.985			-.0006							
.965		-.0072								

ALPHA (1) = -3.995 BETA (5) = 8.308 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.002	-.1693	-.0161	.0192	.1223	.1407	-.0354	-.1199	-.0904	-.5475	
.010		-.0132	.0545		.3514	.3200	.2950	.2472		
.020		-.0206		.0000	.3026	.2700	.2571	.2171	-.3001	
.040			.0903	.1783						
.041	-.1104									
.060					.1436	.1147	.1040	.0755		
.069									-.2861	
.080					.0080					
.081				.1003						
.086			.1505							
.094		-.0194								
.113	-.0495									
.150					-.1501	-.1720	-.2022	-.1995		
.157									-.2639	
.163			.1431							
.177				-.0750						
.223		.0723								
.246			-.0400							
.247	.0107									
.250					-.2725	-.3137	-.3321	-.3606		
.274				-.1883						
.345									-.1671	
.352		.0381								
.360			-.1692							
.400					-.2532	-.2971		-.3153		
.428				-.2304						
.498										-.2779
.499	.0598									

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA (A) = -3.995 BETA (B) = 8.308

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2930	.3640	.4270	.5340	.6730	.7800	.9870	.9720	1.0000
.497	-.1437								
.547	-.0635							-.1625	
.565			-.1430	-.2045	-.2209				
.633	-.1706						-.1890		
.650		-.1126							
.700						-.1645			
.723	-.0851				-.1295			-.0551	
.767	-.1073			-.1197					-.3091
.780			-.1597			-.0269	-.0090		
.793	.0391			-.0655	-.0799				
.799		-.1533							
.833	-.1524		-.0283						
.850		-.0239							
.867			-.0108	.0207	-.0101	.0506			
.883									
.900	-.0941							.0285	
.917		-.0204							
.933	-.0580			.0135			.0841		
.950			-.0039						
.967		-.0240							
.983				.0610	.0738	.1039			
1.000		-.0023	.0248						
1.017	-.0144								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0655	.0507	.0649	.3011	.4923	.4714	.4466	.4954	-.1546	
.010		.0765	.1404		.4660	.5050	.4559	.2926		
.020		.0628		.0000	.3378	.3176	.2884	.2211	-.0886	
.040			.1818	.1847						
.041	.0039									
.050					0559	.0076	-.0243	-.0455		
.069									-.1978	
.080					-.1584					
.081				.0129						
.086			.2083							
.094		.0295								
.113	.0169									
.150					-.3251	-.3790	-.4450	-.3796		
.157									-.3161	
.163			.1435							
.177				-.2269						
.189		.0960								
.246			-.1275							
.247	.0418									
.250					-.4064	-.4824	-.5410	-.5770		
.274				-.2880						
.345									-.3050	
.360		-.0076								
.390			-.2312							
.400					-.2464	-.3325		-.4158		
.402				-.2250						
.418										-.0621
.429	.0578									
.497		-.1869								
.513									-.3320	
.547	-.1012									
.550					-.1164	-.1892				
.565				-.0406						
.600								-.2227		
.633	-.1458									
.637			.0129							
.650							-.1370			
.670									-.1737	
.700		.0396				-.0805				
[illegible]										-.1364
[illegible]					-.0228					
[illegible]	.0085									
[illegible]							.0038	-.0137		
[illegible]				-.0481						
[illegible]					.0417	-.0027				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA (2 = -.00' BETA (1) = -7.930

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	.1643									
.798			-.0401							
.808				.0888						
.834		-.0310								
.839			.1059							
.850					.1008	.0845	.0758			
.857				.0839						
.862									-.0124	
.866		.0531								
.879			.0857							
.900		.0539			.0805			.0871		
.905				.0749						
.919			.0625							
.950					.1006	.1211	.1187			
.953				.0820						
.965			.0666							
.985		.0789								

ALPHA (2) = .008 BETA (2) = -3.896 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0958	.0343	.0639	.2944	.4656	.429-	.4002	.4379	-.1724	
.010		.0343	.1130		.3873	.4166	.3666	.2092		
.020		.0215		.0000	.2671	.2420	.2025	.1347	-.1514	
.040			.1445	.1265						
.041	-.0508									
.060					.0042	-.0522	-.0770	-.1059		
.080									-.2446	
.100					-.1877					
.121				-.0278						
.140			.1698							
.160		-.0103								
.18	-.0177									
.180					-.3437	-.3991	-.4539	-.3949		
.200									-.3304	
.220			.1435							
.241				-.2476						
.259		.0678								
.245			-.1471							
.247	.0124									
.250					-.4226	-.4857	-.5414	-.5777		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3147						
.345									-.2950	
.362		-.0334								
.390			-.2556							
.400					-.2788	-.3577		-.4134		
.402				-.2600						
.418										-.0854
.479	.0365									
.497		-.2157								
.503									-.3080	
.547	-.1293									
.550					-.1523	-.2134				
.565				-.0872						
.600								-.2242		
.673	-.1908									
.637			-.0329							
.650							-.1529			
.670									-.1493	
.700		-.0091				-.0996				
.703										-.1536
.725					-.0577					
.727	-.0363									
.750							-.0069	-.0178		
.760				-.0849						
.775					.0093	-.0277				
.783	.1165									
.798			-.0727							
.808				.0468						
.834		-.0619								
.839			.0652							
.850					.0754	.0570	.0711			
.851				.0548						
.852									.0003	
.855		.0114								
.879			.0498							
.901		.0148			.0602			.0882		
.915				.0557						
.919			.0363							
.927					.0891	.1085	.1151			
.933				.0637						
.935			.0476							
.945		.0490								

DATE [illegible] FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 3255

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA 2 = .009 BETA (3) = .144 MACH = .59552 C = 592.56 P = 2397.2 RN/L = 4.8092

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1357	.0034	.0609	.2785	.4286	.3759	.3495	.3635	-.1874	
.010		-.0075	.0897		.3113	.3366	.2892	.1491		
.020		-.0224		.0000	.1936	.1790	.1400	.0786	-.2019	
.040			.1108	.0767						
.041	-.0996									
.050					-.0456	-.0896	-.1196	-.1451		
.069									-.2786	
.080					-.2238					
.081				-.0571						
.085			.1233							
.094		-.0443								
.113	-.0580									
.150					-.3572	-.4057	-.4637	-.4071		
.157									-.3270	
.163			.1428							
.177				-.2592						
.229		.0438								
.248			-.1653							
.247	-.0093									
.250					-.4283	-.4877	-.5318	-.5582		
.274				-.3213						
.305		-.0465							-.2709	
.302			-.2689							
.390					-.3033	-.3694		-.4110		
.410				-.2838						
.402										-.1161
[illegible]	.0150									
[illegible]		-.2355								
[illegible]	-.[illegible]32								-.2784	
[illegible]					-.1849	-.2338				
[illegible]				-.1222						
[illegible]	-.2200							-.2225		
[illegible]			-.0751							
[illegible]							-.1588			
[illegible]		-.0510				-.1175			-.1220	
[illegible]					-.0854					-.1557
[illegible]	-.0705									
[illegible]							-.0201	-.0205		
[illegible]				-.1169						
[illegible]					-.0273	-.0535				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U05)

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

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

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2550	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.7[illegible]	.0756									
.[illegible]			-.1074							
.[illegible]				.0109						
.[illegible]		-.0999								
.[illegible]			.0248							
.[illegible]					.0471	.0311	.0615			
.[illegible]				.0228					.0110	
.[illegible]										
.[illegible]		-.0356								
.[illegible]			.0193							
.[illegible]		-.0218			.0418			.0886		
.[illegible]				.0309						
.[illegible]			.0062							
.[illegible]					.0752	.0910	.1096			
.[illegible]				.0469						
.[illegible]			.0221							
.[illegible]		.0334								

ALPHA (2) = .008 BETA (4) = 4.214 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2550	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.[illegible]	-.1707	-.0455	.0283	.2543	.3964	.3429	.3217	.3238	-.1880	
.[illegible]		-.0570	.0595		.2241	.2424	.1968	.0447		
.[illegible]		-.0547		.0003	.1225	.0884	.0516	-.0139	-.2555	
.[illegible]			.0323	.0265						
.[illegible]	-.1359				-.1025	-.1451	-.1882	-.2228		
.[illegible]									-.3122	
.[illegible]					-.2542					
.[illegible]				-.0892						
.[illegible]			.0934							
.[illegible]		-.0563								
.[illegible]	-.0781				-.3705	-.4179	-.4744	-.4383		
.[illegible]									-.3416	
.[illegible]			.1438							
.[illegible]				-.2608						
.[illegible]		.0295								
.[illegible]			-.1772							
.[illegible]	-.0275				-.4390	-.4973	-.5424	-.5684		
.[illegible]										

DATE .. FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 3257

AMES 11-073(OA148) -140A/B/C/R ORB LEF: WING TOP (XESUD5)

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

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/R	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.3309						
.345										
.362		-.0551							-.2661	
.390			-.2773							
.410					-.3285	-.3861		-.4132		
.402				-.3070						
.418										
.429	.0052									-.1640
.497		-.2478								
.503										
.547	-.1548								-.2640	
.560					-.2229	-.2595				
.565				-.1567						
.600								-.2141		
.633	-.2394									
.637			-.1186							
.650							-.1795			
.670									-.1034	
.700		-.0929				-.1299				
.723										
.725										-.1777
.727	-.1093				-.1090					
.750							-.0273	-.0160		
.760				-.1381						
.775					-.0490	-.0739				
.793	.0399									
.794			-.1270							
.805				-.0159						
.834		-.1285								
.839			-.0099							
.850					.0323	.0087	.0533			
.857				.0005						
.860										
.865		-.0790							.0203	
.870			-.0076							
[illegible]		-.0472			.0271			.0999		
[illegible]				.0054						
[illegible]			-.0148							
[illegible]					.0525	.0804	.1080			
[illegible]				.0294						
[illegible]			.0030							
[illegible]		-.0118								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.010	-.2178	-.1380	-.0330	.1966	.3578	.2956	.2698	.2601	-.2031	
.010		-.1219	.0048		.1278	.1542	.0966	-.0356		
.020		-.1123		.0000	.0332	.0170	-.0217	-.0902	-.2916	
.040			.0411	-.0351						
.041	-.1647									
.060					-.1514	-.1957	-.2240	-.2709		
.080					-.2730				-.3385	
.081				-.1331						
.100			.0551							
.121		-.0704								
.121	-.0959									
.161					-.3761	-.4283	-.4668	-.4396		
.161									-.3328	
.182			.1420							
.202				-.2726						
.202		.0143								
.242			-.1861							
.242	-.0354									
.282					-.4461	-.5040	-.5287	-.5457		
.282				-.3330						
.345									-.2399	
.363		-.0668								
.383			-.2832							
.383					-.3367	-.3949		-.3973		
.403				-.3266						
.403										-.2091
.423	-.0045									
.423		-.2550								
.443									-.2298	
.443	-.1690									
.463					-.2408	-.2675				
.463				-.1889						
.483								-.2090		
.483	-.2824									
.503			-.1639							
.503							-.1788			
.523									-.0717	
.523		-.1263				-.1329				
.543										-.1710
.543					-.1247					
.563	-.1444									
.563							-.0333	-.0074		
.583				-.1520						
.583					-.0749	-.0839				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

[illegible] TABULATED PRESSURE DATA - OA146 (AMES 11-073-1) PAGE 3255

AMES 11 073.OA146 -140A/B/C/R ORB LEFT WING TOP (KEBJ03)

[illegible] BETA [illegible] = 8.239

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0120									
[illegible]			-.1528							
[illegible]				-.0414						
[illegible]		-.1515								
[illegible]			-.0392							
[illegible]					.0127	-.0075	.0515			
[illegible]				-.0231						
[illegible]		-.1054							.0450	
[illegible]			-.0343							
[illegible]		-.0697			.0142			.0941		
[illegible]				-.0039						
[illegible]			-.0329							
[illegible]					.0618	.0774	.1025			
[illegible]				.0256						
[illegible]			-.0102							
[illegible]		-.0243								

ALPHA [illegible] = 3.907 BETA (I) = -7.936 MACH = .59500 Q = 591.74 P = 2387.9 PN/L = 4.8063

SECTION (I) LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.0435	.0553	.1089	.4076	.6120	.5926	.5797	.5155	-.0527	
[illegible]		.0073	.1029		.0925	.1299	.0018	-.2781		
[illegible]		-.0146		.0000	-.0594	-.1334	-.2093	-.3602	-.4417	
[illegible]			.1050	-.1053						
[illegible]	-.0379									
[illegible]					-.3522	-.4593	-.3408	-.5835		
[illegible]									-.5535	
[illegible]					-.5555					
[illegible]				.2971						
[illegible]			.0651							
[illegible]		-.041								
[illegible]	-.0223									
[illegible]					-.6167	-.7548	-.8245	-.7018		
[illegible]									-.6791	
[illegible]			.1430							
[illegible]				-.4728						
[illegible]		.0341								
[illegible]			-.3145							
[illegible]	-.0002									
[illegible]					-.6003	-.7144	-.7880	-.8407		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA 3 = 3.907 BETA (1) = -7.936

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY/CW	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]				-.4585						
[illegible]									-.6139	
.362		-.1352								
[illegible]			-.3590							
[illegible]					-.3320	-.4287		-.5199		
[illegible]				-.3120						
[illegible]										-.3692
[illegible]	-.0088									
[illegible]		-.3080								
[illegible]									-.6033	
[illegible]	-.2313									
[illegible]					-.1413	-.2292				
[illegible]				-.0660						
[illegible]								-.2810		
[illegible]	-.2363									
[illegible]			-.0159							
[illegible]							-.1597			
[illegible]									-.4420	
[illegible]		-.0016				-.0800				
[illegible]										-.6409
[illegible]					-.0141					
[illegible]	-.0295									
[illegible]							-.0082	-.0469		
[illegible]				-.0256						
[illegible]					.0515	.0004				
[illegible]	.1691									
[illegible]			-.0230							
[illegible]				.0885						
[illegible]		-.0175								
[illegible]			.1071							
[illegible]					.0997	.0950	.0704			
[illegible]				.0869						
[illegible]									-.2323	
[illegible]		.0449								
[illegible]			.0890							
[illegible]		.0884			.0930			.0759		
[illegible]				.0887						
[illegible]			.0734							
[illegible]					.1113	.1335	.1225			
[illegible]				.0895						
[illegible]			.0777							
[illegible]		.0895								

[illegible] PRESSURE DATA - [illegible] (AMES 11-073-1)

AMES 11-073(OA143) -140A/B/C/R ORB LEFT WING TOP (XE6J05)

[illegible] BETA (2) = -3.897 MACH = 50500 Q = 591.74 P = 2387.9 RN/L = 4.6053

[illegible] WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
-.0945	-.0269	.0247	.3244	.5259	.5094	.4638	.4062	-.1856	
	-.0769	.0204		-.0215	.0126	-.1165	-.4063		
	-.0937		.0000	-.1547	-.2312	-.3301	-.4488	-.5414	
		.0396	-.1802						
-.0955									
				-.4136	-.5118	-.5987	-.6501		
								-.6184	
				-.5995					
			-.3267						
		.0199							
	-.0825								
-.0651									
				-.6421	-.7437	-.8411	-.7409		
								-.6842	
		.1448							
			-.4828						
	-.0074								
		-.3480							
-.0307									
				-.6215	-.7292	-.8018	-.8408		
			-.4777						
								-.5829	
	-.1600								
		-.3834							
				-.3728	-.4580		-.5232		
			-.3504						
									-.5352
-.0351									
	-.3358								
								-.5708	
-.2697									
				-.19[illegible]	-.2550				
			-.1110						
							-.2770		
-.2707									
		-.0551							
						-.1785			
								-.4772	
	-.0517				-.1074				
									-.7376
				-.0551					
-.0843									
						-.0288	-.0515		
			-.0554						
				.0085	-.0326				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1239									
.798			-.0564							
.808				.0538						
.834		-.0567								
.839			.0603							
.850					.0684	.0632	.0634			
.857				.0557						
.862									-.3075	
.865		-.0066								
.879			.0504							
.900		.0280								
.905					.0672			.0700		
.913				.0518						
.919			.0480							
.930					.0940	.1129	.1162			
.953				.0723						
.966			.0584							
.985		.0632								

ALPHA 3) = 3.909 BETA (3) = .143 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.1683	-.1452	-.0953	.2287	.4381	.4168	.3902	.3057	-.2980	
.010		-.1815	-.0671		-.1107	-.0876	-.2174	-.4555		
.020		-.1636		.0000	-.2334	-.2949	-.3879	-.5273	-.5692	
.040			-.0266	-.2333						
.060	-.1511									
.080					-.4497	-.5485	-.6257	-.6587		
.100									-.6223	
.120					-.6050					
.140				-.3597						
.160			-.0314							
.180		-.1162								
.200	-.1066									
.220					-.6376	-.7384	-.8122	-.7244		
.240									-.6652	
.260			.1406							
.280				-.4919						
.300		-.0330								
.320			-.3580							
.347	-.0612									
.250					-.6157	-.7201	-.7771	-.8042		

[illegible] C/R ORB LEFT WING TOP (XE6U05)

[illegible] SURF [illegible] DEPENDENT VARIABLE OP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.8670	.9720	1.0000
[illegible]				[illegible]					
[illegible]								-.5328	
[illegible]		-.1742							
[illegible]			-.3964						
[illegible]					-.3943	-.4652		-.5088	
[illegible]				-.3774					
[illegible]									-.6521
[illegible]	-.0589								
[illegible]		-.3611							
[illegible]								-.5097	
[illegible]	-.2855								
[illegible]					-.2221	-.2781			
[illegible]				-.1582					
[illegible]							-.2758		
[illegible]	-.3058								
[illegible]			-.1176						
[illegible]							-.1840		
[illegible]								-.3967	
[illegible]		-.1046				-.1146			
[illegible]									-.7584
[illegible]					-.0812				
[illegible]	-.1242								
[illegible]							-.0338	-.0415	
[illegible]				-.0836					
[illegible]					-.025[illegible]	-.[illegible]484			
[illegible]	.0767								
[illegible]			-.0918						
[illegible]				.0097					
[illegible]		-.1012							
[illegible]			.0132						
[illegible]					.0419	.0417	.0581		
[illegible]				.0189					
[illegible]								- 2787	
[illegible]		-.0[illegible]							
[illegible]			[illegible]						
[illegible]					[illegible]			.0727	
[illegible]				[illegible]					
[illegible]					.0731	.031	.1092		
[illegible]				.0595					
[illegible]			.0278						
[illegible]		.0[illegible]							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2390	-.2629	-.2240	.1018	.3370	.3044	.2726	.1607	-.5022	
.010		-.2682	-.1492		-.2355	-.2221	-.3471	-.6218		
.020		-.2229		.0000	-.3293	-.4039	-.5098	-.6575	-.6862	
.040			-.0792	-.2974						
.041	-.1935									
.050					-.5157	-.6100	-.6994	-.7341		
.069									-.6806	
.080					-.6326					
.081				-.3945						
.086			-.0688							
.094		-.1396								
.113	-.1366									
.150					-.6358	-.7451	-.8283	-.7490		
.167									-.6567	
.183			.1407							
.197				-.4925						
.229		-.0515								
.246			-.3481							
.247	-.0780									
.250					-.6160	-.7090	-.7799	-.8141		
.274				-.4899						
.295									-.5104	
.312		-.1810								
.330			-.3938							
.401					-.4043	-.4742		-.5088		
.412				-.3901						
.418										-.9527
.429	-.0754									
.437		-.3786								
.502									-.4911	
.547	-.2930									
.550					-.2452	-.2917				
.565				-.1948						
.600								-.2723		
.633	-.3293									
.637			-.1714							
.650							-.1919			
.670									-.3792	
.701		-.1350				-.1325				
.733										-.8820
.735					-.1041					
.767	-.1444									
.783							-.0434	-.0420		
.750				-.1252						
.775					-.0443	-.0713				

[illegible] FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESJ05)

[illegible] 3) = 3.918 BETA (4) = 4.207

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0369									
[illegible]			-.1383							
[illegible]				-.0437						
[illegible]		-.1360								
[illegible]			-.0170							
[illegible]					0232	.0132	.0470			
[illegible]				-.0273						
[illegible]									-.1962	
[illegible]		-.0958								
[illegible]			-.0069							
[illegible]		-.0430			.0321			.0698		
[illegible]				-.0026						
[illegible]			-.0151							
[illegible]					.0659	.0867	.0999			
[illegible]				.0223						
[illegible]			.0045							
[illegible]		-.0091								

ALPHA 3) = 3.922 BETA (5) = 8.252 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
[illegible]	-.3065	-.4095	-.2466	-.0522	.2080	.1860	.1473	.0287	-.7030	
[illegible]		-.3846	-.1302		-.3732	-.3486	-.4860	-.7173		
[illegible]		-.2480		.0000	-.4172	-.4945	-.5931	-.7661	-.7441	
[illegible]			-.1116	-.3202						
[illegible]	-.2320									
[illegible]					-.5642	-.6397	-.7400	-.7710		
[illegible]									-.7015	
[illegible]					-.8541					
[illegible]				-.3893						
[illegible]			-.2[illegible]							
[illegible]		-.0[illegible]								
[illegible]	-.1[illegible]									
[illegible]					-.6418	-.7337	-.8184	-.7379		
[illegible]									-.8244	
[illegible]			.1457							
[illegible]				-.4542						
[illegible]		-.134								
[illegible]			-.4[illegible]							
[illegible]	-.0759									
[illegible]					-.3005	-.7047	-.7517	-.7749		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

ALPHA (3) = 3.922 BETA (5) = 8.252

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4593						
.345									-.4714	
.362		-.1636								
.390			-.3980							
.400					-.4215	-.4851		-.4949		
.402				-.3934						
.418										-1.1500
.429	-.0674									
.437		-.3644								
.503									-.4559	
.547	-.2891									
.550					-.2731	-.3049				
.565				-.2626						
.600								-.2582		
.633	-.3349									
.637			-.1701							
.650							-.2059			
.670									-.2980	
.710		-.1643				-.1438				
.713										-.7626
.725					-.1309					
.727	-.1790									
.740							-.0506	-.0429		
.760				-.1785						
.775					-.1126	-.0814				
.793	-.0079									
.800			-.1523							
.818				-.0602						
.824		-.1501								
.873			-.0422							
.880					-.0050	-.0138	.0346			
.887				-.0274						
.892									-.0835	
.911		-.1214								
.919			-.0285							
.922		-.0667			.0081			.0649		
.925				-.0156						
.919			-.0253							
.920					.0543	.0681	.0949			
.923				.0292						
.955			-.0027							
.960		-.0255								

[illegible] PRESSURE DATA - OA149 (AMES 11-073-1)

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

[illegible] BETA [illegible] MACH = .59482 Q = 590.57 P = 2338.9 RN/L = 4.8012

[illegible] DEPENDENT VARIABLE OP

	2750	2990	3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.0663	-.1346	-.1863	.1929	.3890	.3397	.2455	.0305	-.7335	
[illegible]		-.2282	-.1781		-.5773	-.5910	-.8704	-1.3084		
[illegible]		-.2102		.0000	-.6815	-.8651	-1.0474	-1.3706	-1.3348	
[illegible]			-.1353	-.5408						
[illegible]	-.0695									
[illegible]					-.9290	-1.1195	-1.2735	-1.3866		
[illegible]									-1.2564	
[illegible]					-1.0774					
[illegible]				-.6865						
[illegible]			-.1661							
[illegible]		-.1396								
[illegible]	-.0678									
[illegible]					-.9805	-1.1458	-1.2783	-1.1466		
[illegible]									-1.3126	
[illegible]			.1470							
[illegible]				-.7460						
[illegible]		-.0669								
[illegible]			-.5358							
[illegible]	-.0455									
[illegible]					-.7997	-.9266	-1.0496	-1.1591		
[illegible]				-.6187						
[illegible]									-1.0723	
[illegible]		-.2692								
[illegible]			-.4715							
[illegible]					-.3980	-.5211		-.6900		
[illegible]				-.3637						
[illegible]										-1.5521
[illegible]	-.1000									
[illegible]		-.4352								
[illegible]									-1.0091	
[illegible]	-.3622									
[illegible]					-.1491	-.3523				
[illegible]				-.1137						
[illegible]								-.3748		
[illegible]	-.1[illegible]									
[illegible]			-.1[illegible]							
[illegible]							-.1875			
[illegible]									-.8537	
[illegible]		-.0[illegible]				-.1815				
[illegible]										-1.8374
[illegible]					-.0035					
[illegible]	.0419									
[illegible]							-.0333	-.1243		
[illegible]				-.0400						
[illegible]					.0622	.0108				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2039									
.798			-.0300							
.808				.0374						
.834		-.0165								
.839			.1128							
.850					.1002	.1029	.0481			
.857				.0649						
.862										
.865		.0261							-.5197	
.879			.1032							
.900		.0935			.1040			.0120		
.905				.0758						
.919			.0805							
.950					.1118	.1376	.1008			
.953				.0863						
.955			.0866							
.965		.1034								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.1616	-.3031	-.3754	.0026	.2504	.1848	.0977	-.1422	-1.0214	
[illegible]		[illegible]	-.3221		-.7154	-.7325	-1.0385	-1.4892		
[illegible]		-.3111		.0000	-.8020	-.9743	-1.1821	-1.5281	-1.4626	
[illegible]			-.2313	-.6140						
[illegible]	-.1543									
[illegible]					-.9836	-1.1835	-1.3550	-1.4759		
[illegible]									-1.3158	
[illegible]					-1.1015					
[illegible]				-.7271						
[illegible]			-.2311							
[illegible]		-.1807								
[illegible]	-.1251									
[illegible]					-.9795	-1.1413	-1.2558	-1.1563		
[illegible]									-1.3018	
[illegible]			.1417							
[illegible]				-.7644						
[illegible]		-.0962								
[illegible]			-.5453							
[illegible]	-.0943									
[illegible]					-.8187	-.9545	-1.0307	-1.1512		

BULLETIN PRESSURE DATA - OA.48 (AMES 11-073-1) (NEBUCT)

AMES 11-073 OA140 -140A/B/C/P OPB LEFT WING TOP

[illegible]

LEFT [illegible] TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2990	.3840	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
			-.6425					-1.0304	
	-.3053								
		-.932							
				-.4295	-.5434		-.6895		
			-.4061						-1.9832
-.1280									
	-.4919							-.9433	
-.3991				-.1831	-.2836				
			-.1691				-.3699		
-.0814		-.1355				-.2043			
								-.8225	
					-.1041				
	.1272								-1.7677
				-.1358					
-.1019						-.0440	-.1239		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AMES 11-073(OA148) -140A/B/C/R ORG LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XCW										
.000	-.2605	-.4897	-.5684	-.1904	.0870	.0224	-.0777	-.3135	-1.2889	
.010		-.4960	-.3976		-.8485	-.8797	-1.1686	-1.5837		
.020		-.3970		.0000	-.8878	-1.0593	-1.2742	-1.6321	-1.5942	
.040			-.2562	-.6743						
.041	-.2171									
.050					-1.0092	-1.2357	-1.3706	-1.5062		
.069									-1.3117	
.080					-1.1160					
.081				-.7341						
.086			-.2253							
.094		-.2181								
.113	-.1806									
.150					-.9495	-1.1262	-1.2220	-1.0866		
.167									-1.1685	
.183			.1414							
.177				-.7312						
.229		-.1755								
.246			-.5374							
.247	-.1070									
.250					-.7970	-.9256	-1.0195	-1.1104		
.274				-.6201						
.345									-.9447	
.347		-.3549								
.350			-.5230							
.450					-.4361	-.5448		-.6662		
.402				-.4496						
.418										-2.1268
.439	-.1354									
.447		-.5217								
.513									-.8534	
.547	-.4160									
.550					-.2219	-.2853				
.565				-.2318						
.600								-.3656		
.630	-.4039									
.651			-.2251							
.700							-.2084			
.713									-.8190	
.750		-.1026				-.1106				
.800										-1.6543
.850					-.0911					
.900	-.1453									
.925							-.0504	-.1154		
.950				-.1153						
.975					-.0821	-.0378				

TABULATED PRESSURE DATA [illegible] AMES 11-073-1) PAGE 3[illegible]

[illegible] -1404/B/O/R ORB LEFT WING TOP [illegible]

[illegible] BETA [illegible]

[illegible] LEFT WING TOP SURF [illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7800	.8870	.9720	1.0000
[illegible]	[illegible]									
[illegible]			-.1148							
[illegible]				-.0365						
[illegible]		-.0977								
[illegible]			.0275							
[illegible]					.0070	.0260	.0298			
[illegible]				-.0229						
[illegible]									-.7858	
[illegible]		-.0440								
[illegible]			.0350							
[illegible]		.0001			.0058			.0187		
[illegible]				-.0249						
[illegible]			[illegible]							
[illegible]					.0586	.0981	.0812			
[illegible]				-.0069						
[illegible]			.0423							
[illegible]		.0289								

ALPHA [illegible] = 7.969 BETA [illegible] = -.201 MACH = .59428 Q = 590.57 P = 2398.9 RN/L = 4.8012

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.3[illegible]	-.[illegible]	-.5440	-.3079	-.[illegible]	-.1583	-.2909	-.5668	-1.7556	
[illegible]		-.[illegible]	-.[illegible]		-.[illegible]	-1.0[illegible]	-1.3761	-1.7912		
[illegible]		-.[illegible]		[illegible]	-.[illegible]	-1.1[illegible]	-1.4077	-1.8[illegible]	-1.7781	
[illegible]			-.[illegible]	-.[illegible]						
[illegible]	-.[illegible]									
[illegible]					-1.[illegible]	-1.[illegible]	-1.[illegible]	-1.6044		
[illegible]									-1.3590	
[illegible]					-1.[illegible]					
[illegible]				-.8553						
[illegible]			-.[illegible]							
[illegible]		-.[illegible]								
[illegible]	-.[illegible]									
[illegible]					-.[illegible]	-1.[illegible]	-1.2355	-1.[illegible]		
[illegible]									-1.1718	
[illegible]				.5[illegible]						
[illegible]		-.[illegible]								
[illegible]			-.[illegible]							
[illegible]	-.[illegible]									
[illegible]					-.7731	-.9[illegible]	-1.0084	-1.0756		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.6305						
.345									-.9283	
.352		-.2578								
.390			-.6717							
.400					-.4537	-.5501		-.6490		
.402				-.4544						
.418										.0000
.480	-.1461									
.497		-.1384								
.503									-.8424	
.547	-.4270									
550					-.3091	-.2999				
.565				-.2668						
.600								-.3561		
.636	-.1139									
.637			-.1920							
.650							-.2191			
.670									-.9873	
7		-.1460				-.1378				
.720										-1.5585
.728					-.1393					
.737	-.1743									
.740							-.0651	-.1228		
.750				-.1966						
.765					-.1218	-.0898				
.783	.0156									
.786			-.1308							
.808				-.1109						
.814		-.1299								
.830			-.0 96							
.850					.0320	-.0299	.0113			
.857				-.0618						
.870									-.8258	
.885		-.0932								
.900			-.0102							
.910		-.0371			.0276			.0067		
.920				-.0280						
.930			-.0194							
.940					.0721	.0464	.0696			
.950				.0119						
.960			.0123							
.970		-.0120								

				DEPENDENT VARIABLE CP					
	.0791	.2090	.3840	.4870	.6340	.6730	.7600	.8970	.9720	1.0000
.100	-.4778	-.7410	-.3933	-.5277	-.8884	-.3718	-.6281	-.7834	-2.1405	
.110		-.4147	-.3243		-1.0822	-1.2084	-1.5297	-1.9297		
.120		-.4086		.0000	-1.0535	-1.2717	-1.5048	-1.9302	-1.6241	
.130			-.3386	-.5182						
.141	-.4031									
.150					-1.0416	-1.2695	-1.4403	-1.6310		
.160									-1.3090	
.180					-1.0379					
.191				-.5950						
.196			-.3604							
.197		-.4317								
.113	-.2214									
.150					-.8569	-1.0554	-1.1934	-1.0753		
.157									-1.0986	
.163			.1405							
.177				-.6387						
.209		-.3256								
.216			-.8071							
.234	-.1472									
.251					-.7049	-.8806	-.9497	-1.0190		
.274				-.6803						
.278									-.8457	
.287		-.2384								
.291			-.5573							
.311					-.5159	-.5199		-.6097		
.318				-.6092						
.328										-1.9882
.338	-.1989									
.347		-.4239								
.360									-.7018	
.370	-.4810									
.380					-.3751	-.3 .4				
.391				-.3111						
.401								-.3118		
.411		-.3		-.3						
.421							-.3			
.431									-.7-26	
.441		-.394				-.3 .8				
.451										-1.1585
.461					-.1302					
.471	-.6140									
.481							-.0820	-.1074		
.491				-.6027						
.501					-.1326	-.1749				

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (REBUS)

ALPHA (A) = 7.957 BETA (B) = 8.254

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.793	-.0384									
.798			-.1535							
.808				-.0881						
.874		-.1603								
.939			-.0490							
.980					-.0531	-.0643	-.0004			
.987				-.0444						
.992										
.995		-.1169							-.6067	
.999			-.0351							
1.000		-.0709			-.0621			.0025		
.995				-.0187						
.979			-.0368							
.950					-.0285	.0591	.0475			
.913				.0199						
.865			-.0092							
.805		-.0335								

ALPHA (A) = 12.002 BETA (B) = -1.081 MACH = .59502 Q = 591.96 P = 2388.2 RN/L = 4.9047

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.793	-.1833	-.5241	-.8144	-.3832	-.1826	-.2651	-.4207	-.7191	-1.9453	
.798		-.6225	-.6758		-1.5433	-1.5452	-2.0660	.0000		
.808		-.4950		.0000	-1.5283	-1.8220	-2.2184	.0000	.0000	
.874			-.5032	-1.0941						
.939	-.1626									
.980					-1.6322	-1.9500	.0000	.0000		
.987									.0000	
.992					-1.7354					
.995				-1.1349						
.999			-.4453							
1.000		-.2276								
.995	-.1584									
.979					-1.2610	-1.4124	-1.5648	-1.4267		
.950									-2.0158	
.913			.1432							
.865				-.9702						
.805		-.2066								
.729			-.6903							
.647	-.0922									
.563					-.9360	-1.1328	-1.2332	-1.4098		

AM[illegible] [illegible] OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

[illegible] = [illegible].002 BETA [illegible] = [illegible].68.

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.274				-.7088						
.345									-1.8787	
.362		-.4980								
.390			-.6364							
.400					-.3913	-.5534		-.8200		
.402				-.4773						
.418										.0000
.429	-.1899									
.497		-.7359								
.503									-1.8574	
.547	-.5051									
.550					-.1828	-.2326				
.555				-.2243						
.600								-.4847		
.633	-.4306									
.637			-.1427							
.650							-.2078			
.670									-1.2775	
.700		-.1075				-.0804				
.723										-1.6740
.725					-.0646					
.727	-.0579									
[illegible]							-.0869	-.3024		
[illegible]				-.0686						
[illegible]					-.1057	-.0191				
.733	.1869									
.758			-.1243							
.808				-.0076						
[illegible]		-.0018								
[illegible]			.0[illegible]							
[illegible]					.0223	.0320	-.0082			
[illegible]				-.0120						
[illegible]									-1.0339	
[illegible]		.0743								
[illegible]			.051[illegible]							
[illegible]		.1237			-.0[illegible]70			-.1238		
[illegible]				-.0209						
[illegible]			.0722							
[illegible]					.0301	.1097	.0458			
[illegible]				-.0096						
[illegible]			.0[illegible]							
[illegible]		.1174								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U05)

ALPHA (5) = 12.020 BETA (2) = -3.874 MACH = .59502 Q = 55.26 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2773	-.7313	-.8962	-.5974	-.3226	-.4668	-.6273	-.9319	.0000	
.010		-.7306	-.5692		-1.7030	-1.8209	-2.2225	.0000		
.020		-.5248		.0000	-1.6383	-1.9727	.0000	.0000	.0000	
.040			-.3411	-1.0485						
.041	-.2320									
.050					-1.6499	-2.0373	.0000	.0000		
.069									.0000	
.080					-1.7124					
.081				-1.0446						
.086			-.3696							
.094		-.3800								
.113	-.2248									
.150					-1.2393	-1.4437	-1.4622	-1.5599		
.157									-2.0426	
.163			.1487							
.177				-.8836						
.229		-.4707								
.246			-.7472							
.247	-.1111									
.250					-.8978	-1.1149	-1.2227	-1.3145		
.274				-.7765						
.345									-2.0503	
.362		-.6295								
.390			-.6334							
.400					-.4525	-.5847		-.8192		
.402				-.5479						
.418										-2.1416
.429	-.1960									
.497		-.6988								
.503									-2.0445	
.547	-.5378									
.550					-.2896	-.2798				
.565				-.1602						
.600								-.4854		
.633	-.4714									
.637			-.2733							
.650							-.2285			
.670									-1.5322	
.700		-.1126				-.1236				
.723										-1.5285
.725					-.1792					
.747	-.1429									
.750							-.1103	-.3393		
.760				-.0729						
.775					-.1884	-.0614				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.792	.1006									
.798			-.1267							
.808				-.0236						
.834		-.0616								
.839			-.0134							
.850					.0202	.0058	-.0280			
.857				-.0149						
.862									-1.0839	
.865		.0097								
.879			.0152							
.900		.0559			.0572			-.1437		
.905				-.0307						
.919			.0143							
.950					.1243	.0769	.0302			
.953				-.0202						
.955			.0407							
.965		.0628								

ALPHA (5) = 12.028 BETA (3) = .150 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4157	-.9219	-.9123	-.8371	-.5354	-.6737	-.8407	-1.1192	.0000	
.010		-.6177	-.4548		-1.8126	-1.9813	.0000	.0000		
.020		-.4859		.0000	-1.7027	-2.1189	.0000	.0000	-2.0389	
.040			-.4204	-.9209						
.041	-.3698									
.050					-1.6213	-2.0602	.0000	.0000		
.059									-1.8320	
.080					-1.5753					
.081				-.8823						
.085			-.4805							
.094		-.5356								
.113	-.2254									
.140					-1.1519	-1.3196	-1.5179	-1.6804		
.147									-1.6787	
.163			.1426							
.177				-.8905						
.279		-.6999								
.246			-.8244							
.247	-.1571									
.250					-.8128	-1.0502	-1.1553	-1.1799		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA (5) = 12.028 BETA (3) = .150

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7920						
.345									-1.7231	
.362		-.5921								
.390			-.7389							
.400					-.5359	-.5147		-.7617		
.402				-.5240						
.419										-1.8296
.429	-.2534									
.497		-.7135								
.503									-1.6467	
.547	-.5587									
.550					-.3829	-.2946				
.565				-.2938						
.600								-.4468		
.633	-.5082									
.637			-.3303							
.650							-.2019			
.670									-1.1591	
.700		-.1464				-.1623				
.723										-1.2913
.725					-.1041					
.727	-.1723									
.750							-.1275	-.2609		
.775				-.2030						
.775					-.0740	-.1556				
.793	.0528									
.798			-.1270							
.803				-.2322						
.834		-.1024								
.839			-.0008							
.850					.0210	-.0974	-.0629			
.857				-.1635						
.892									-.8080	
.905		-.0392								
.879			.0087							
.900		.0139			.0289			-.1297		
.905				-.1240						
.919			.0101							
.940					.0641	-.0084	-.0102			
.953				-.0707						
.955			.0408							
.965		.0267								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU05)

ALPHA 5 = [illegible] BETA [illegible] = 4.211 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* Cw										
.000	-.5537	-1.0201	-.6225	-.9525	-.7143	-.9049	-1.0815	-1.3667	.0000	
.010		-.5572	-.4827		-1.8708	-2.1457	.0000	.0000		
.020		-.5449		.0000	-1.6914	.0000	.0000	.0000	-1.7381	
.040			-.5008	-.7775						
.041	-.5136									
.050					-1.5548	-2.0488	.0000	.0000		
.069									-1.6668	
.080					-1.4765					
.081				-.8487						
.086			-.5249							
.094		-.5938								
.113	-.2579									
.150					-1.0723	-1.3671	-1.5106	-1.9273		
.157									-1.5799	
.163			.1399							
.177				-.8366						
.189		-.7252								
.246			-.8814							
.247	-.2141									
.250					-.8355	-1.0132	-1.1463	-1.3695		
.274				-.7366						
.345									-1.4385	
.362		-.5207								
.390			-.8659							
.400					-.6117	-.5412		-.7066		
.402				-.5740						
.419										-1.3440
.429	-.2613									
.497		-.6538								
.503									-1.3696	
.547	-.5569									
.550					-.2793	-.3773				
.565				-.4663						
.600								-.3813		
.633	-.5160									
[illegible]			-.2845							
[illegible]							-.2443			
[illegible]									-1.0804	
[illegible]		-.1922				-.2329				
[illegible]										-1.0835
[illegible]					-.1215					
[illegible]	-.2057									
[illegible]							-.2004	-.1980		
[illegible]				-.2093						
[illegible]					-.0927	-.1456				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.0092									
.798			-.1407							
.808				-.2022						
.834		-.1380								
.839			-.0527							
.850					-.0278	-.0487	-.1279			
.857				-.1301						
.862									-.8116	
.865		-.0966								
.879			-.0408							
.900		-.0458			-.0314			-.1217		
.905				-.0924						
.919			-.0326							
.950					.0382	.0779	-.0558			
.963				-.0376						
.955			.0020							
.965		-.0175								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.6989	-1.1168	-.5656	-.9994	-.9434	-1.1550	-1.3466	-1.6049	-1.8178	
.010		-.6154	-.5300		-1.9500	.0000	.0000	.0000		
.020		-.6137		.0000	-1.6473	.0000	.0000	-2.2806	-1.4645	
.040			-.5440	-.7518						
.061	-.7212									
.080					-1.4275	-1.8774	.0000	-2.0884		
.089									-1.4036	
.080					-1.2689					
.101				-.7996						
.098			-.5869							
.094		-.6449								
.113	-.3510									
.130					-.9469	-1.2407	-1.4267	-1.9054		
.157									-1.2490	
.163			.1379							
.177				-.8142						
.189		-.8793								
.245			-1.0333							
.247	-.2683									
.250					-.8486	-.8864	-1.0324	-1.4749		

DATE [illegible] FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U05)

ALPHA (5) = 12.020 BETA (5) = 3.279

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.8004					-1.1618	
.345										
.362		-.4268								
.390			-.7644							
.400					-.5705	-.6064		-.7279		
.402				-.8276						-1.0948
.418										
.429	-.2511									
.497		-.6420							-1.1069	
.503										
.547	-.5352									
.550					-.4230	-.4538				
.555				-.5505						
.600								-.3525		
.623	-.5159									
.637			-.2881							
.650							-.3364			
.670									-.9128	
.700		-.2212				-.2690				
.723										-.8267
.725					-.2844					
.727	-.2328									
.750							-.3031	-.1908		
.760				-.2215						
.775					-.4025	-.1361				
.793	-.0534									
.798			-.1694							
.808				-.1668						
.834		-.1704								
.839			-.0740							
[illegible]					-.2612	-.0841	-.1895			
.857				-.0954						
[illegible]									-.6325	
[illegible]		-.1351								
[illegible]			-.0518							
[illegible]		-.0705			-.2625			-.1164		
[illegible]				-.0546						
[illegible]			-.0457							
[illegible]					-.1779	-.0229	-.0875			
[illegible]				-.0018						
[illegible]			-.0097							
[illegible]		-.0408								

AMES 11-073(OA14B) -140A/B/C/R ORB LEFT WING TOP (XEBU06) (05 AUG 75)

REFERENCE DATA

SREF = 2990.0000 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 = 55.000
BDFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -+.026 BETA (1) = -7.883 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
Y/CW										
.000	-.1550	-.1439	-.2885	-.1012	.1249	.0385	.0067	.1023	-.9130	
.010		-.0035	-.0367		.6075	.6035	.5860	.5281		
.020		.0322		.0000	.5576	.5498	.5274	.4847	-.1164	
.040			.1098	.3702						
.041	.0355									
.060					.3438	.3220	.3011	.2648		
.080									-.1140	
.080					.1453					
.101				.2376						
.120			.2662							
.124		.0597								
.143	.0591									
.160					-.0774	-.0967	-.1032	-.1183		
.181									-.1534	
.183			.1461							
.201				-.0212						
.223		.1552								
.240			.0434							
.247	.0908									
.260					-.2201	-.2695	-.3074	-.3421		
.281				-.1406						
.305									-.1419	
.312		.1066								
.320			-.1082							
.321					-.1594	-.2366		-.3010		
.342				-.1384						
.345										-.5869
.349	.1273									
.360		-.0769								
.365									-.1905	
.383	.0046									
.400					-.0728	-.1461				
.401				-.0098						
.421								-.1901		
.423	- 0560									
.427			.0372							
.440							-.1180			
.442									-.0873	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.700		.0661				-.0720				
.723										-.4706
.725					-.0192					
.727	.0469									
.750							.0127	.0034		
.760				-.0608						
.775					.0366	-.0060				
.793	.1825									
.798			-.0530							
.818				.0833						
.834		-.0348								
.839			.1013							
.850					.0968	.0705	.0750			
.857				.0748						
.870									-.0064	
.865		.0445								
.879			.0745							
.900		.0406			.0691			.0775		
.905				.0657						
.919			.0468							
.950					.0859	.1062	.1052			
.953				.0652						
.955			.0507							
.965		.0645								

ALPHA (1) = -4.010 BETA (2) = -3.877 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8395

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.700	-.1481	-.0865	-.1895	-.0461	.1040	-.0061	-.0647	.0089	-.8402	
.710		-.0077	-.0117		.5455	.5916	.5126	.4590		
.720		.0191		.0000	.4956	.4641	.4609	.4240	-.1945	
.730			.1024	.3195						
.741	-.0079									
.750					.2959	.2740	.2636	.2217		
.759									-.1799	
.770					.1174					
.781				.2050						
.790			.2287							
.800		.0320								
.810	.0224									
.820					-.0926	-.1181	-.1137	-.1310		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUM6)

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.157									-.1917	
.163			.1477							
.177				-.0309						
.229		.1285								
.246			.0167							
.247	.0571									
.250					-.2364	-.2812	-.3126	-.3536		
.274				-.1507						
.345									-.1462	
.352		.0890								
.394			-.1266							
.400					-.1881	-.2539		-.3040		
.402				-.1661						
.500										-.5552
.503	.1052									
.547		-.0928								
.548									-.1861	
.597	-.0169									
.600					-.1117	-.1701				
.646				-.0423						
.650								-.1908		
.697	-.0978									
.698			-.0046							
.750							-.1318			
.751									-.0798	
.752		.0296				-.0917				
.800										-.4976
.801					-.0494					
.802	.0048									
.803							.0024	.0009		
.804				-.0310						
.805					.0049	-.0286				
.806	.1449									
.807			-.0804							
.808				.0504						
.809		-.0700								
.810			.0662							
.811					.0738	.0482	.0686			
.812				.0489						
.813									.0037	
.814		.0031								
.815			0529							
.816		.0113			.0532			.0804		
.817				.0420						
.818			.0277							

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

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

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0781	.0928	.1043			
.953				.0552						
.955			.0373							
.965		.0381								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1607	-.0501	-.1075	.0149	.1004	-.0414	-.1336	-.0686	-.7974	
.010		-.0030	-.0009		.4804	.4612	.4349	.3959		
.020		.0036		.0000	.4395	.4145	.3945	.3617	-.2546	
.040			.0857	.2670						
.041	-.0577									
.050					.0503	.2279	.2164	.1866		
.069									-.2281	
.080					.0792					
.081				.1651						
.086			.1920							
.094		-.0001								
.113	-.0178									
.150					-.1144	-.1340	-.1242	-.1535		
.157									-.2168	
.163			.1440							
[illegible]				-.0547						
.209		.0998								
.246			.0002							
.247	.0292									
[illegible]					-.2528	-.2974	.3179	-.3444		
[illegible]				-.1755						
[illegible]									-.1618	
[illegible]		.0645								
[illegible]			-.1478							
[illegible]					-.2099	-.2707		-.3135		
[illegible]				-.1937						
[illegible]										-.5072
[illegible]	.0831									
[illegible]		-.1243								
[illegible]									-.1825	
[illegible]	-.0432									
[illegible]					-.1469	-.1932				
[illegible]				-.0986						

AMES 11-073(OA148) -140A/B/C/R OR8 LEFT WING TOP (XEBUDS)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.600								-.1959		
.633	-.1321									
.637			-.0509							
.650							-.1517			
.670									-.0705	
.700		-.0170				-.1111				
.708										-.4891
.715					-.0814					
.717	-.0345									
.750							-.0132	-.0073		
.770				-.1277						
.774					-.0248	-.0531				
.778	.1037									
.783			-.1159							
.808				.0123						
.834		-.1134								
.837			.0248							
.841					.0473	.0218	.0555			
.842				.0198						
.868									.0033	
.884		-.0414								
.879			.0118							
.90		-.0345			.0345			.0796		
.905				.0190						
.910			-.0001							
.930					.0661	.0827	.0986			
.938				.0396						
.951			.0115							
.980		.0077								

ALPHA (1) = -4.001 BETA (4) = 4.235 MACH = .59594 Q = 593.39 P = 2387.0 SNL = 4.8336

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.600	-.1633	-.1252	-.0395	.0593	.1163	-.0356	-.1226	-.0762	-.6356	
.633		-.0033	.0262		.4183	.3886	.3669	.3183		
.650		-.0074		.0000	.3673	.3414	.3227	.2871	-.2719	
.670			.0831	.2246						
.700	-.0219									
.708					.1989	.1692	.1473	.1254		
.715									-.2563	
.717					.0485					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBJ08)

ALPHA [illegible] = [illegible] BETA (4) = 4.235

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

2: BW	.2310	.2930	.3640	.4270	.5340	6730	.7800	.8870	.9720	1.0000
X CW										
.081				.1348						
.086			.1672							
.094		-.0146								
.113	-.0332									
.150					-.1340	-.1591	-.1544	-.1899		
.157									-.2436	
.163			.1483							
.177				-.0572						
.229		.0837								
.246			-.0174							
.247	.0141									
.250					-.2651	-.2994	-.3302	-.3572		
.274				-.1814						
.345									-.1690	
.362		.0531								
.390			-.1536							
.400					-.2337	-.2874		-.3176		
.402				-.2150						
.418										-.3557
.429	.0702									
.497		-.1339								
.503									-.1733	
.547	-.0525									
.550					-.1751	-.2144				
.545				-.1226						
.600								'939		
.633	-.1510									
.637			-.0844							
.640							-.1575			
.670									-.0630	
.700		-.0524				-.1232				
.733										-.3770
.725					-.1012					
.727	-.0699									
.750							-.0195	-.0		
.751				-.1467						
.775					-.0490	-.0724				
.793	.0692									
.794			-.1361							
.802				-.0129						
.804		-.1353								
.831			-.0022							
.851					0374	.0049	.0536			
.857				.0005						
.862									.0147	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0781								
.879			-.0084							
.900		-.0408			.0241			.0808		
.905				.0074						
.919			-.0204							
.950					.0586	.0764	.0984			
.953				.0284						
.955			-.0003							
.965		-.0132								

ALPHA (1) = -4.013 BETA (5) = 8.308 MACH = .39594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1713	-.0176	.0170	.1300	.1508	-.0246	-.1277	-.0834	-.5468	
.010		-.0128	.0588		.3490	.3202	.2967	.2448		
.020		-.0174		.0000	.3025	.2739	.2510	.2175	-.2974	
.040			.0873	.1755						
.041	-.1170									
.060					.1474	.1120	.0997	.0711		
.068									-.2881	
.080					.0004					
.091				.0940						
.096			.1474							
.094		-.0219								
.113	-.0484									
.150					-.1546	-.1740	.1761	-.2081		
.157									-.2612	
.163			.1490							
.177				-.0863						
.229		.0750								
.246			-.0396							
.247	.0079									
.280					-.2792	-.3133	-.3352	-.3613		
.274				-.1944						
.345									-.1704	
.362		.0394								
.340			-.1705							
.411					-.2542	-.3016		-.3186		
.479				-.2347						
.412										-.2746
.409	.0581									

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U06)

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

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

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1544							-.1627	
.503										
.547	-.0732				-.2003	-.2258				
.550										
.565				-.1481						
.600								-.1877		
.633	-.1797									
.637			-.1174							
.650							-.1655			
.670									-.0524	
.700		-.0900				-.1294				-.2971
.723										
.725					-.1212					
.727	-.1106									
.750							-.0264	-.0089		
.760				-.1691						
.775					-.0709	-.0815				
.793	.0380									
.798			-.1549							
.808				-.0332						
.834		-.1549								
.838			-.0210							
.900					.0251	-.0125	.0517			
.907				-.0107						
.950									.0261	
.965		-.0998								
.979			-.0142							
.990		-.0537			.0183			.0674		
.995				-.0025						
.999			-.0301							
.999					.0599	.0719	.1051			
.999				.0278						
.999			-.0024							
.999		-.0135								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (2) = .023 BETA (1) = -7.929 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0640	.0491	.0687	.2995	.4938	.4705	.4620	.5020	-.1429	
.010		.0733	.1394		.4639	.4954	.4482	.2762		
.020		.0611		.0000	.3314	.3064	.2809	.2122	-.0939	
.040			.1793	.1791						
.041	-.0011									
.060					.0515	-.0080	-.0210	-.0559		
.069									-.2024	
.080					-.1623					
.081				.0050						
.086			.2077							
.099		.0248								
.113	.0184									
.117					-.3355	-.3893	-.4105	-.3843		
.157									-.3230	
.163			.1500							
.177				-.2326						
.209		.0945								
.246			-.1262							
.247	.0412									
.260					-.4053	-.4918	-.5402	-.5788		
.294				-.3002						
.345									-.3136	
.362		-.0098								
.380			-.2343							
.400					-.2548	-.3354		-.4110		
.412				-.2367						
.418										-.0589
.429	.0604									
.497		-.1905								
.503									-.3424	
.547	-.1027									
.560					-.1179	-.1919				
.585				-.0423						
.600								-.2243		
.622	-.1515									
.671			.0068							
.699							-.1415			
.673									-.1746	
.700		.0368				-.0779				
.726										-.1409
.745					-.0265					
.771	.0053									
.750							.0002	-.0180		
.760				-.0495						
.775					.0382	-.0006				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1650									
.798			-.0430							
.808				.0870						
.834		-.0290								
.839			.1029							
.850					.0976	.0801	.0819			
.857				.0829						
.862									-.0135	
.865		.0534								
.879			.0827							
.900		.0532			.0819			.0862		
.905				.0744						
.919			.0606							
.950					.0986	.1192	.1166			
.953				.0860						
.965			.0685							
.955		.0781								

ALPHA (2) = .033 BETA (2) = -3.895 MACH = .59630 Q = 593.84 R = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1004	.0344	.0707	.2995	.4638	.4262	.4071	.4384	-.1589	
.010		.0347	.1148		.3788	.4180	.3654	.2064		
.020		.0169		.0000	.2608	.2345	.2007	.1423	-.1541	
.040			.1422	.1205						
.041	-.0561									
.060					-.0014	-.0548	-.0883	-.1189		
.069									-.2488	
.080					-.2052					
.091				-.0398						
.095			.1645							
.094		-.0149								
.113	-.0217									
.150					-.3564	-.4122	-.4275	-.4051		
.157									-.3344	
.163			.1492							
.177				-.2537						
.229		.0672								
.246			-.1517							
.247	.0372									
.250					-.4280	-.4951	-.5474	-.5796		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3184						
.345									-.2976	
.362		-.0363								
.390			-.2607							
.400					-.2790	-.3640		-.4193		
.402				-.2668						
.418										-.0905
.429	.0313									
.497		-.2208								
.503									-.3157	
.547	-.1319									
.550					-.1559	-.2169				
.565				-.0893						
.600								-.2288		
.633	-.1323									
.637			-.0375							
.650							-.1538			
.670									-.1570	
.700		-.0144				-.1006				
.723										-.1584
.725					-.0560					
.727	-.0375									
.750							-.0108	-.0168		
.760				-.0835						
.775					.0049	-.0301				
.793	.1141									
.798			-.0779							
.809				.0466						
.834		-.0656								
.839			.0623							
.850					.0712	.0581	.0675			
.857				.0482						
.862									-.0032	
.865		.0058								
.879			.0489							
.900		.0157			.0583			.0873		
.905				.0494						
.919			.0332							
.950					.0871	.1083	.1134			
.953				.0629						
.965			.0426							
.985		.0419								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (21) = .035 BETA (3) = .147 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.1303	.0043	.0626	.2642	.4355	.3777	.3567	.3740	-.1848	
.010		-.0089	.0909		.3006	.3326	.2821	.1358		
.020		-.0226		.0000	.1846	.1631	.1326	.0733	-.2064	
.040			.1132	.0691						
.041	-.0977									
.050					-.0483	-.0997	-.1354	-.1544	-.2847	
.069					-.2227					
.080				-.0592						
.081			.1259							
.086		-.0380								
.094	-.0552									
.113					-.3582	-.4111	-.4302	-.4170	-.3333	
.150										
.157			.1510							
.163				-.2573						
.177		.0461								
.229			-.1644							
.246	-.0134									
.247					-.4345	-.4984	-.5382	-.5685		
.250				-.3260					-.2754	
.274										
.345		-.0519								
.362			-.2700							
.390					-.3113	-.3775		-.4129		
.400				-.2877						-.1150
.402										
.418	.0156									
.429		-.2385							-.2823	
.497										
.503	-.1467				-.1944	-.2415				
.547				-.1223				-.2220		
.550										
.585										
.600	-.2175									
.633			-.0774							
.637							-.1667		-.1242	
.650						-.1194				-.1622
.670		-.0519								
.700					-.0891					
.723										
.725	-.0734						-.0227	-.0203		
.727				-.1115						
.750					-.0295	-.0556				
.760										
.775										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0763									
.798			-.1031							
.808				.0139						
.834		-.0944								
.839			.0240							
.850					.0476	.0327	.0607			
.857				.0225						
.862									.0082	
.865		-.0363								
.879			.0168							
.900		-.0128			.0384			.0894		
.905				.0281						
.919			.0074							
.950					.0742	.0919	.1143			
.953				.0465						
.955			.0230							
.965		.0156								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1690	-.0477	.0266	.2544	.4005	.3505	.3225	.3232	-.1842	
.010		-.0600	.0460		.2130	.2367	.1796	.0278		
.020		-.0655		.0000	.1123	.0722	.0370	-.0360	-.2639	
.040			.0786	.0207						
.041	-.1356									
.060					-.1080	-.1565	-.1991	-.2341		
.079									-.3311	
.080					-.2660					
.081				-.1025						
.096			.0946							
.094		-.0581								
.113	-.0808									
.150					-.3775	-.4340	-.4475	-.4502		
.157									-.3533	
.163			.1502							
.177				-.2725						
.223		.0272								
.245			-.1831							
.247	-.0299									
.250					-.4460	-.5112	-.5568	-.5807		

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/CW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3386						
.345									-.2707	
.362		-.0634								
.390			-.2833							
.400					-.3378	-.3955		-.4196		
.402				-.3137						
.419										-.1658
.429	.0013									
.497		-.2508								
.503									-.2699	
.547	-.1608									
.550					-.2297	-.2657				
.565				-.1647						
.600								-.2194		
.633	-.2424									
.637			-.1156							
.650							-.1832			
.670									-.1108	
.700		-.0956				-.1334				
.723										-.1927
.725					-.1134					
.727	-.114									
.750							-.0319	-.0237		
.760				-.1399						
.775					-.0555	-.0812				
.793	.0330									
.798			-.1333							
.808				-.0207						
.834		-.1306								
.839			-.0115							
.850					.0250	.0027	.0546			
.857				-.0040						
.862									.0171	
.865		-.0787								
.873			-.0134							
[illegible]		-.0432			.0216			.0863		
[illegible]				.0026						
[illegible]			-.0180							
[illegible]					.0605	.0777	.1082			
[illegible]				.0298						
[illegible]			.0015							
[illegible]		-.0151								

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

ALPHA (2) = .045 BETA (5) = 8.269 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.2169	-.1312	-.0388	.1969	.3581	.3002	.2742	.2593	-.2033	
.010		-.1281	.0044		.1203	.1392	.0908	-.0533		
.020		-.1110		.0000	.0230	.0103	-.0335	-.1136	-.3014	
.040			.0374	-.0416						
.041	-.1668				-.1672	-.2021	-.2347	-.2780	-.3454	
.050										
.069					-.2992					
.080				-.1325						
.081			.0535							
.085										
.094		-.0744								
.113	-.0994				-.3839	-.4433	-.4477	-.4537	-.3468	
.150										
.157			.1489							
.163				-.2843						
.177										
.229		.0133								
.246			-.1931							
.247	-.0373				-.4549	-.5045	-.5373	-.5570		
.250				-.3459					-.2459	
.274										
.345										
.362		-.0686								
.390			-.2942		-.3477	-.4047		-.3998		
.400				-.3297						-.2269
.402										
.418										
.429	-.0040								-.2348	
.437		-.2622								
.463										
.487	-.1735				-.2449	-.2741				
.550				-.1946				-.2117		
.565										
.600										
.633	-.2656						-.1813			
.647			-.1595						-.0747	
.650										
.670						-.1385				-.1929
.700		-.1312								
.723					-.1341					
.735							-.0335	-.0113		
.737	-.1502									
.750				-.1535						
.760					-.0788	-.0888				
.775										

TABULATED PRESSURE DATA - OA146 (AMES 11-073-1)

AMES 11-073(OA146) -140A/B C/R ORB LEFT WING TOP (XEBU06)

ALPHA (3) = 045 BETA (5) = 8.269

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	9720	1.0000
793	-.0019									
798			-.1527							
808				-.0469						
834		-.1570								
879			-.0425							
850					.0129	-.0099	.0500			
871				-.0250						
868									.0413	
865		-.1071								
877			-.0348							
900		-.0548			.0124			.0933		
905				-.0094						
919			-.0360							
920					.0609	.0741	.1006			
923				.0186						
925			-.0105							
926		-.0303								

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

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
1	-.0407	.0561	.1115	.4059	.6081	.5955	.5841	.5176	-.0568	
2		.0096	.0992		.0875	.1248	-.0127	-.2886		
3		-.0135		.0000	-.0641	-.1300	-.2155	-.3538	-.4496	
4			.1014	-.1105						
5	-.0424				-.3554	-.454	-.5351	-.5960		
6									-.5727	
7					-.5012					
8				-.2890						
9			.0726							
10		-.0409								
11	-.0248				-.6240	-.7315	-.7728	-.7230		
12									-.6906	
13			.1513							
14				-.4772						
15		.0007								
16			-.3193							
17	.0007				-.6013	-.7193	-.7972	-.8445		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.4676						
[illegible]									-.6164	
[illegible]		-.1335								
[illegible]			-.3621							
[illegible]					-.3320	-.4237		-.5207		
[illegible]				-.3180						
[illegible]										-.4014
[illegible]	-.0060									
[illegible]		-.3121								
[illegible]									-.6054	
[illegible]	-.2349									
[illegible]					-.1394	-.2285				
[illegible]				-.0685						
[illegible]								-.2801		
[illegible]	-.2383									
[illegible]			-.0158							
[illegible]							-.1571			
[illegible]									-.4554	
[illegible]		-.0051				-.0746				
[illegible]										-.6401
[illegible]					-.0112					
[illegible]	-.0302									
[illegible]							-.0120	-.0472		
[illegible]				-.0202						
[illegible]					.0515	.0027				
[illegible]	.1014									
[illegible]			-.0175							
[illegible]				.0890						
[illegible]		-.0190								
[illegible]			.1032							
[illegible]					.1008	.0955	.0752			
[illegible]				.0893						
[illegible]									-.2431	
[illegible]		.0481								
[illegible]			.0930							
[illegible]		.0699			.0983			.0748		
[illegible]				.0844						
[illegible]			.0746							
[illegible]					.1121	.1344	.1223			
[illegible]				.0934						
[illegible]			.0780							
[illegible]		.0300								

TABULATED PRESSURE DATA [illegible] AMES 11-073-1)

AMES 11-073/DA14B -140A B/C/R ORB LEFT WING TOP (XE8U06

[illegible] = 3.9[illegible] BETA [illegible] = -3.997 MACH = .59594 Q = 593.13 P = 2395.0 RN/L = 4.8146

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	[illegible]	[illegible]	.0207	.3264	.5293	.5106	.4841	.4009	-.1860	
[illegible]		-.0813	.0224		-.0169	-.0029	-.1261	-.4005		
[illegible]		-.0870		.0000	-.1498	-.2338	-.3249	-.4697	-.5392	
[illegible]			.0396	-.1830						
[illegible]	-.0970									
[illegible]					-.4179	-.5361	-.6181	-.6551		
[illegible]									-.6197	
[illegible]					-.5929					
[illegible]				-.3322						
[illegible]			.0171							
[illegible]		-.0920								
[illegible]	-.0658									
[illegible]					-.6492	-.7503	-.7929	-.7509		
[illegible]									-.6840	
[illegible]			.1517							
[illegible]				-.4931						
[illegible]		-.0036								
[illegible]			-.3507							
[illegible]	-.0350									
[illegible]					-.6277	-.7294	-.7961	-.8405		
[illegible]				-.4832						
[illegible]									-.5922	
[illegible]		-.1592								
[illegible]			-.3844							
[illegible]					-.3720	-.4589		-.5138		
[illegible]				-.3518						
[illegible]										-.5502
[illegible]	-.0370									
[illegible]		-.3332								
[illegible]									-.5795	
[illegible]	-.2715									
[illegible]					-.1906	-.2607				
[illegible]				-.1151						
[illegible]								-.2855		
[illegible]	[illegible]									
[illegible]			[illegible]				-.1774			
[illegible]									-.4771	
[illegible]		[illegible]				[illegible]				
[illegible]										-.7613
[illegible]					-.0353					
[illegible]	[illegible]						-.0228	-.0536		
[illegible]				-.0560						
[illegible]					.0061	-.0284				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.793	.1231									
.799			-.0566							
.800				.0466						
.834		-.0572								
.003			.0630							
.850					.0711	.0618	.0613			
.857				.0545						
.902									-.3183	
.905		-.0106								
.979			.0541							
.990		.0341			.0655			.0699		
.995				.0562						
.919			.0450							
.950					.0952	.1140	.1128			
.963				.0719						
.955			.0537							
.905		.0567								

ALPHA (3) = 3.912 BETA (3) = .150 MACH = .59594 Q = 593.13 P = 2585.8 RN/L = 4.8145

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	- 1874	-.1442	-.1009	.2230	.4431	.4150	.3889	.3026	-.3007	
.010		-.1750	-.0694		-.1119	-.0930	-.2183	-.4750		
.020		-.1586		.0000	-.2305	-.3097	-.3940	-.5229	-.5836	
.040			-.0213	-.2425						
.041	-.1517									
.050					-.4533	-.5664	-.6411	-.6634		
.069									-.6329	
.080					-.6131					
.081				-.3688						
.099			-.0369							
.100		-.1138								
.113	-.1031									
.140					-.6311	-.7364	-.7738	-.7378		
.151									-.6583	
.163			.1493							
.177				-.4912						
.179		-.0291								
.194			-.3537							
.197	-.0800									
.210					-.6217	-.7114	-.7794	-.8145		

DATE 11 [illegible] 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 330

AMES 11-073(OA148 -140A/B/C/R ORB LEFT WING TOP (XE9UD6)

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

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.4912						
.345									-.5281	
.362		-.1759								
.390			-.3995							
.400					-.3921	-.4619		-.5080		
.402				-.3821						
.418										-.6973
.429	-.0585									
.497		-.3561								
.503									-.5132	
.547	-.2927									
.550					-.2244	-.2747				
.555				-.1559						
.600								-.2782		
.633	-.3168									
.637			-.1163							
.650							-.1900			
.670									-.4122	
.700		-.1032				-.1141				
.723										-.7835
.725					-.0820					
.727	-.1231									
.750							-.0368	-.0484		
.760				-.0908						
.775					-.0213	-.0497				
.793	.0769									
.798			-.0975							
.809				.0076						
.834		-.1015								
.879			.0122							
[illegible]					.0519	.0381	.0597			
[illegible]				.0199						
[illegible]									-.2783	
[illegible]		-.0621								
[illegible]			.0141							
[illegible]		-.0035			.0512			.0722		
[illegible]				.0344						
[illegible]			.0124							
[illegible]					.0830	.0996	.1094			
[illegible]				.0527						
[illegible]			.0290							
[illegible]		.0211								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (3) = 3.921 BETA (4) = 4.204 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.000	-.2366	-.2636	-.2341	.0986	.3359	.3038	.2684	.1513	-.5236	
.010		-.2686	-.1512		-.2461	-.2273	-.3708	-.6420		
.020		-.2253		.0000	-.3355	-.4256	-.5290	-.6848	-.7173	
.040			-.0762	-.2943						
.041	-.1904									
.050					-.5226	-.6410	-.7174	-.7608		
.059									-.6920	
.060					-.6474					
.081				-.3957						
.086			-.0678							
.094		-.1360								
.113	-.1355									
.150					-.6554	-.7523	-.7933	-.7587		
.157									-.6711	
.163			.1493							
.177				-.4941						
.200		-.0495								
.206			-.3555							
.247	-.0765									
.250					-.6294	-.7180	-.7923	-.8104		
.274				-.4931						
.345									-.5246	
.362		-.1781								
.390			-.3934							
.400					-.4064	-.4790		-.5212		
.402				-.3944						
.418										-.9599
.429	-.0710									
.437		-.3770								
.503									-.4955	
.547	-.2944									
.550					-.2471	-.2929				
.565				-.1941						
.600								-.2717		
.633	-.3349									
.637			-.1746							
.640							-.1988			
.670									-.3830	
.700		-.1374				-.1311				
.723										-.9054
.725					-.1097					
.737	-.1496									
.750							-.0467	-.0502		
.760				-.1199						
.775					-.0492	-.0761				

AMES 11-073(0A148) -140A/B/C/R ORB LE T WING TOP (XE8U06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0374									
.798			-.1359							
.808				-.0456						
.834		-.1331								
.839			-.0146							
.850					.0226	.0110	.0444			
.857				-.0296						
.862									-.2126	
.865		-.0914								
.879			-.0064							
.900		-.0365			.0313			.0686		
.905				-.0085						
.919			-.0150							
.950					.0670	.0836	.1027			
.953				.0277						
.955			.0078							
.965		-.0125								

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	7800	.8870	.9720	1.0000
X/CW										
.000	-.3190	-.4148	- 2545	-.0641	.2025	.1027	.1381	.0096	-.7192	
.010		-.3302	-.1350		-.3972	-.3555	-.4889	-.7366		
.020		-.2450		.0000	-.4379	-.5077	-.6107	-.7849	-.7662	
.040			-.1122	-.3362						
.[illegible]	-.2357									
.[illegible]					-.5615	-.6581	-.7516	-.7892		
.[illegible]									-.7131	
.[illegible]					-.6631					
.[illegible]				-.3977						
.[illegible]			-.1305							
.[illegible]		-.2305								
.[illegible]	-.1687									
.[illegible]					-.6436	-.7323	-.7749	-.7366		
.[illegible]									-.6357	
.[illegible]			.1801							
.[illegible]				-.4688						
.[illegible]		-.0407								
.[illegible]			-.4383							
.[illegible]	-.0798									
.[illegible]					-.6166	-.7089	-.7611	-.7873		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU06)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4717						
.345									-.4823	
.362		-.1701								
.390			-.4024							
.400					-.4225	-.4935		-.5003		
.402				-.4076						
.418										-1.1885
.429	-.0724									
.490		-.3770								
.503									-.4497	
.547	-.2965									
.550					-.2764	-.3038				
.605				-.2636						
.630								-.2570		
.633	-.3503									
.637			-.1766							
.650							-.2069			
.670									-.3205	
.700		-.1698				-.1424				
.723										-.7824
.735					-.1342					
.737	-.1675									
.750							-.0546	-.0445		
.770				-.1868						
.775					-.1139	-.0817				
.783	-.0034									
.790			-.1451							
.808				-.0687						
.834		-.1554								
.839			-.0411							
.850					-.0048	-.0156	.0357			
.867				-.0276						
.890									-.0899	
.898		-.1219								
.900			-.0324							
.910		-.0614			.0046			.0604		
.920				-.0138						
.930			-.0319							
.940					.0572	.0636	.0921			
.953				.0293						
.955			-.0074							
.970		-.0309								

AMES 11-073(OA148. -140A/B/C/R ORB LEFT WING TOP (XEBU06)

ALPHA (4) = 7.957 BETA (1) = -7.908 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0701	-.1361	-.1847	.1801	.3906	.3286	.2455	.0201	-.7487	
.010		-.2356	-.1792		-.5832	-.6185	-.8841	-1.3329		
.020		-.2113		.0000	-.7003	-.8566	-1.0683	-1.4067	-1.3626	
.040			-.1449	-.5421						
.041	-.0872									
.050					-.9380	-1.1372	-1.3015	-1.4166		
.059									-1.2741	
.060					-1.0755					
.061				-.6974						
.086			-.1706							
.094		-.1416								
.113	-.0670									
.150					-.9606	-1.1406	-1.2333	-1.1498		
.157									-1.3314	
.163			.1507							
.177				-.7547						
.229		-.0673								
.246			-.5379							
.247	-.0531									
.250					-.8003	-.9299	-1.0486	-1.1625		
.274				-.6257						
.345									-1.0812	
.362		-.2676								
.390			-.4770							
.400					-.3933	-.5241		-.6935		
.402				-.3754						
.418										-1.5664
.429	-.1033									
.497		-.4496								
.503									-1.0051	
.547	-.3700									
.550					-.1383	-.2520				
.565				-.1119						
.600								-.3705		
.603	-.3359									
.607			-.0956							
.651							-.1798			
.670									-.8893	
.700		-.0467				-.0776				
.723										-1.8479
.725					.0009					
.727	-.0413									
.750							-.0310	-.1241		
.751				-.0481						
.752					.0603	.0133				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

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

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	.2066									
.798			-.0311							
.809				.0415						
.834		-.0166								
.839			.1120							
.850					.0949	.1058	.0488			
.857				.0630						
.882									-.5539	
.885		.0228								
.879			.1024							
.902		.0949			.0951			.0146		
.905				.0781						
.919			.0825							
.932					.1098	.1394	.0993			
.943				.0892						
.955			.0839							
.965		.1002								

ALPHA (4) = 7.956 BETA (2) = -3.891 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.1574	-.2909	-.3806	.0090	.2408	.1834	.0809	-.1463	-1.0287	
.810		- 3581	-.3175		-.7164	-.7670	-1.0400	-1.4903		
.820		-.3061		.0000	-.8012	-.9872	-1.1979	-1.5627	-1.4943	
.840			-.2268	-.6085						
.841	-.1493									
.860					-.9938	-1.1975	-1.3029	-1.5035		
.869									-1.3285	
.880					-1.1121					
.881				-.7219						
.900			-.2244							
.904		-.1757								
.913	-.1195									
.932					-.9796	-1.1557	-1.2402	-1.1532		
.937									-1.3170	
.953			.1533							
.977				-.7564						
.989		-.0920								
.996			-.5451							
.997	-.0816									
.990					-.8142	-.9506	-1.0400	-1.1654		

DATE [illegible] FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU06)

ALPHA (4) = [illegible] BETA (2) = -3.891

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.3370	.3990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.6357						
.345									-1.0427	
.372		-.2924								
.390			-.4886							
.402					-.4311	-.5492		-.6914		
.402				-.3972						
[illegible]										-1.9332
.433	-.1236									
.437		-.4904								
.503									-.9563	
.507	-.3861									
.550					-.1896	-.2814				
.565				-.1635						
.600								-.3676		
.633	-.3736									
637			-.1267							
.660							-.2011			
.670									-.8264	
.700		-.1227				-.1013				
.723										-1.7677
.725					-.0450					
.727	-.1035									
.750							-.0526	-.1268		
.760				-.0821						
.775					.0046	-.0246				
.793	.1446									
.799			-.0907							
.808				.0128						
.834		-.0454								
.839			.0370							
.850					.0470	.0675	.0372			
.857				.0397						
.868									-.6395	
.885		.0050								
.899			.0449							
.901		.0833			.0456			.0082		
.915				.0436						
[illegible]			.0363							
.931					.0634	.1103	.0948			
.953				.0613						
.965			.0576							
.985		.0885								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (4) = 7.972 BETA (3) = .143 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.2537	-.4877	-.5630	-.1900	.0838	.0173	-.0954	-.3472	-1.3258	
.010		-.4949	-.4016		-.8586	-.9157	-1.2229	-1.6470		
.020		-.3905		.0000	-.9174	-1.0854	-1.3069	-1.6682	-1.6532	
.040			-.2448	-.6670						
.041	-.2147									
.050					-1.0264	-1.2384	-1.4080	-1.5257		
.069									-1.3595	
.080					-1.1108					
.081				-.7238						
.086			-.2204							
.094		-.2103								
.113	-.1805									
.150					-.9622	-1.1511	-1.2244	-1.1008		
.157									-1.2039	
.163			.1513							
.177				-.7422						
.229		-.1713								
.246			-.5393							
.247	-.0994									
.250					-.8094	-.9451	-1.0343	-1.1290		
.264				-.6213						
.345									-.9655	
.362		-.3481								
.370			-.5151							
.400					-.4436	-.5540		-.6745		
.402				-.4412						
.418										-2.1592
.469	-.1336									
.497		-.5120								
.503									-.8703	
.547	-.4142									
.550					-.2369	-.2925				
.565				-.2306						
.600								-.3626		
.633	-.3973									
.637			-.2197							
.650							-.2144			
.670									-.8443	
.700		-.1044				-.1161				
.703										-1.6677
.725					-.0956					
.727	-.1471									
.750							-.0572	-.1240		
.760				-.1095						
.775					-.0918	-.0420				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

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

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

2 FW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0729									
.798			-.1115							
.808				-.0319						
.834		-.0941								
.839			.0260							
.850					-.0016	.0213	.0224			
[illegible]				-.0203						
[illegible]									-.8142	
[illegible]		-.0356								
.879			.0386							
[illegible]		.0099			.0042			.0094		
.905				-.0242						
[illegible]			.0287							
[illegible]					.0541	.0957	.0840			
[illegible]				.0016						
[illegible]			.0434							
[illegible]		.0315								

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

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2 FW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.3620	-.6457	-.5540	-.3763	-.0807	-.1615	-.2984	-.5801	-1.7590	
[illegible]		-.5104	-.2820		-.9854	-1.0662	-1.3896	-1.8127		
[illegible]		-.3653		.0000	-.9770	-1.1753	-1.4231	-1.8732	-1.8231	
[illegible]			-.2519	-.6500						
[illegible]	-.2935									
[illegible]					-1.0369	-1.2569	-1.4530	-1.6394		
[illegible]									-1.3637	
[illegible]					-1.0918					
[illegible]				-.6619						
[illegible]			-.2839							
[illegible]		-.3959								
[illegible]	-.2070									
[illegible]					-.9270	-1.0976	-1.1756	-1.1115		
[illegible]									-1.1644	
[illegible]			.1479							
[illegible]				-.6677						
[illegible]		-.2443								
[illegible]			-.6308							
[illegible]	-.1161									
[illegible]					-.7719	-.9155	-1.0046	-1.0822		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU08)

ALPHA (α) = 7.971 BETA (β) = 4.201

SECTION (I) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.[illegible]				-.6374						
.[illegible]									-.9389	
.[illegible]		-.2636								
.[illegible]			-.6770							
.[illegible]					-.4510	-.5503		-.6497		
.402				-.4597						
.[illegible]										.0000
.[illegible]	-.1492									
.[illegible]		-.5029								
.[illegible]									-.8352	
.[illegible]	-.4359									
.[illegible]					-.3022	-.2960				
.[illegible]				-.2690						
.[illegible]								-.3599		
.[illegible]	-.4255									
.[illegible]			-.1960							
.[illegible]							-.2137			
.[illegible]									-.9526	
.[illegible]		-.1551				-.1378				
.[illegible]										-1.5474
.[illegible]					-.1302					
.[illegible]	-.1754									
.[illegible]							-.0635	-.1216		
.[illegible]				-.2037						
.[illegible]					-.1189	-.0872				
.[illegible]	0134									
.[illegible]			-.1369							
.[illegible]				-.1239						
.[illegible]		-.1332								
.[illegible]			-.0239							
.[illegible]					.0412	-.0246	.0167			
.[illegible]				-.0725						
.[illegible]									-.8527	
.[illegible]		-.0346								
.[illegible]			-.0160							
.[illegible]		-.0339			.0277			.0085		
.[illegible]				-.0310						
.[illegible]			-.0155							
.[illegible]					.0769	.0512	.0625			
.[illegible]				.0084						
.[illegible]			.0057							
.[illegible]		-.0165								

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

AMES 11-073 OA148: 140A/B/C/P ORB LEFT WING TOP (XE8U061)

ALPHA = 000 BETA / SI = 3.255 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

LEFT WING TOP SURF — DEPENDENT VARIABLE CP

	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.4781	-.7389	-.3829	-.5359	-.2785	-.3700	-.5063	-.7731	-2.1453	
		-.4180	-.3287		-1.0914	-1.1916	-1.5440	-1.9320		
		-.4079		.0090	-1.0362	-1.2730	-1.5061	-1.9718	-1.6059	
			-.3354	-.5352						
	-.3969				-1.0280	-1.2559	-1.4396	-1.6149	-1.2995	
					-1.0369					
				-.5983						
			-.3723							
		-.4316								
	-.2197				-.8471	-1.0498	-1.1119	-1.0534	-1.1003	
			.1479							
				-.6289						
		-.3289								
			-.7960							
	-.1433				-.6947	-.8701	-.9525	-.9910		
				-.6277					-.8191	
		-.2398								
			-.5539		-.4941	-.5069		-.6036		
				-.6119						-1.9413
	-.1545									
		-.4970							-.6844	
	-.4307									
					-.2859	-.2933				
				-.3995				-.3291		
	-.1-3-									
			-.2169				-.1940			
									-.7145	
		-.1903				-.1590				-1.1541
					-.1411					
	-.1333						-.0527	-.1058		
				-.2095						
					-.1344	-.1316				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (A) = 7.959 BETA (B) = 8.255

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.733	-.0393									
.738			-.1488							
.818				-.0945						
.824		-.1584								
.838			-.0455							
.850					-.0469	-.0577	.0071			
.857				-.0379						
.872									-.6047	
.885		-.1122								
.893			-.0412							
.907		-.0615			-.0522			.0133		
.914				-.0119						
.923			-.0329							
.940					-.0186	.0678	.0499			
.943				.0262						
.955			-.0122							
.969		- 0371								

ALPHA (A) = 13.008 BETA (B) = -7.872 MACH = .47710 Q = 475.06 P = 1908 1 RN/L = 3.8563

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.733	- .1604	- 5284	-.8240	-.3904	-.1515	-.2719	-.4227	-.7202	-1.9843	
.738		-.6229	- .6891		-1.5637	-1.6550	-2.0744	.0000		
.818		- 4944		.0000	-1.5682	-1.8518	-2.2369	.0000	.0000	
.824			-.5015	-1.0937						
.838	-.1468									
.850					-1.6588	-1.9944	.0000	.0000		
.857									.0000	
.872					-1.7409					
.885				-1.1352						
.893			-.4443							
.907		-.2229								
.914	- .625									
.923					-1.2999	-1.4355	-1.4847	-1.4860		
.940									-2.0210	
.943			.1527							
.955				-.9724						
.969		-.2027								
.976			-.7086							
.987	-.0931									
1.000					-.9326	-1.1313	-1.2269	-1.3885		

[illegible] ULATED PRESSURE DATA [illegible] AMES [illegible]

[illegible] -140A/B/C/R CRB LEFT WING TOP [illegible]

[illegible] BETA [illegible]

[illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	3040	4270	[illegible]	.6730	[illegible]	.9870	9720	1.0000
[illegible]				-.7130						
[illegible]									-1.9802	
[illegible]		-.4895								
[illegible]			-.6331							
[illegible]					-.3957	-.5536		-.8177		
[illegible]				-.4852						
[illegible]										.0000
[illegible]	-.1863									
[illegible]		-.7350								
[illegible]									-1.9378	
[illegible]	-.5092									
[illegible]					-.2048	-.2292				
[illegible]				-.2192						
[illegible]								-.4761		
[illegible]	-.4305									
[illegible]			-.1350							
[illegible]							-.2075			
[illegible]									-1.3572	
[illegible]		-.1175				-.0726				
[illegible]										-1.6251
[illegible]					-.0931					
[illegible]	-.0765									
[illegible]							-.0856	-.3117		
[illegible]				-.0613						
[illegible]					-.1375	-.0201				
[illegible]	.1861									
[illegible]			-.1257							
[illegible]				.0091						
[illegible]		-.0008								
[illegible]			.0007							
[illegible]					-.0214	.0734	-.0049			
[illegible]				.751						
[illegible]									-1.0380	
[illegible]		.0776								
[illegible]			.0512							
[illegible]		.1318			[illegible]			-.1325		
[illegible]				-.0272						
[illegible]			.106							
[illegible]					[illegible]	.1025	.0457			
[illegible]				[illegible]						
[illegible]			.0959							
[illegible]		.199								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUD6)

ALPHA (S) = 12.030 BETA (Z) = -3.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.3732	-.7311	-.9031	-.6045	-.3315	-.4671	-.6369	-.9426	.0000	
		-.7290	-.5783		-1.7207	-1.8460	-2.2253	.0000		
		-.5292		.0000	-1.6515	-1.9954	.0000	.0000	.0000	
			-.3414	-1.0656						
	-.2360									
					-1.6583	-2.0314	.0000	.0000		
									.0000	
					-1.7073					
				-1.0548						
			-.3790							
		-.3732								
	-.2281									
					-1.2491	-1.4458	-1.3680	-1.5986		
									-2.0747	
			.1558							
				-.6970						
		-.4707								
			-.7512							
	-.1158									
					-.8953	-1.1220	-1.2149	-1.2886		
				-.7859						
									-2.0541	
		-.6096								
			-.6267							
					-.4855	-.5600		-.8213		
				-.5523						
										-2.0916
	-.1975									
		-.7045								
									-2.0385	
	-.5419									
					-.3039	-.2653				
				-.1449						
								-.4928		
	-.4774									
			-.2587							
							-.2117			
									-1.5016	
		-.1169				-.1182				
										-1.4546
					-.1699					
	-.1527									
							-.0933	-.3375		
				-.0653						
					-.1908	-.0668				

AMES 11-[illegible]

[illegible] LEFT WING TOP XEBUDS

ALPHA [illegible]

[illegible] DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.6730	.7800	.8870	.9720	1.0000
[illegible]	[illegible]									
[illegible]			-.1139							
[illegible]				-.0154						
[illegible]		-.0672								
[illegible]			-.0243							
[illegible]					.0357	-.0130	-.0205			
[illegible]				.0022						
[illegible]									-1.0533	
[illegible]		.0034								
[illegible]			.0066							
[illegible]		.0820			.0531			-.1444		
[illegible]				-.0142						
[illegible]			-.0001							
[illegible]					.1182	.0420	.0297			
[illegible]				.0075						
[illegible]			.0292							
[illegible]		.0567								

ALPHA (5) = 12.036 BETA (3) = .140 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

2* [illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.4156	-.9192	-.9254	-.8382	-.5386	-.6877	-.8573	-1.1389	.0000	
[illegible]		-.6055	-.4562		-1.8617	-1.9835	.0000	.0000		
[illegible]		-.4307		.0000	-1.7132	-2.1538	.0000	.0000	-1.9780	
[illegible]			-.4189	-.9473						
[illegible]	-.3693									
[illegible]					-1.6609	-2.0867	.0000	.0000		
[illegible]									-1.8421	
[illegible]					-1.0033					
[illegible]				.0291						
[illegible]			-.177							
[illegible]		-.5320								
[illegible]	-.2264									
[illegible]					-1.1727	-1.4287	-1.4254	-1.7199		
[illegible]									-1.6939	
[illegible]			.1478							
[illegible]				-.0158						
[illegible]		-.7040								
[illegible]			-.8324							
[illegible]	-.678									
[illegible]					-.6254	-1.0701	-1.1761	-1.2012		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (5) = 12.036 BETA (3) = .140

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8148						
.345									-1.7287	
.362		-.5983								
.390			-.7402							
.400					-.5407	-.5313		-.7860		
.402				-.5101						
.418										-1.8253
.429	-.2502									
.497		-.7165								
.503									-1.6560	
.547	-.5656									
.550					-.3963	-.2992				
.565				-.2659						
.600								-.4714		
.633	-.5085									
.637			-.3298							
.650							-.2105			
.670									-1.1454	
.700		-.1528				-.1655				
.707										-1.3041
.725					-.0992					
.727	-.1773									
.750							-.1205	-.2770		
.760				-.1759						
.775					-.0651	-.1658				
.793	.0501									
.798			-.1325							
.809				-.2107						
.834		-.1069								
.839			-.0216							
.850					.0322	-.1119	-.0613			
.857				-.1561						
.862									-.8256	
.866		-.0471								
.879			-.0091							
.900		.0194			.0426			-.1344		
.915				-.1218						
.919			-.0041							
.930					.0791	-.0204	-.0074			
.953				-.0802						
.955			.0207							
.965		.0207								

AMES 11-073(0414B) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (S) = 11.989 BETA (W) = 4.211 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cr	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cr										
.000	-.5467	-1.0249	-.6236	-.9482	-.7289	-.9067	-1.0943	-1.3797	.0000	
.010		-.5627	-.4921		-1.9158	-2.1931	.0000	.0000		
.020		-.5394		.0000	-1.7060	.0000	.0000	.0000	-1.6041	
.040			-.4978	-.7743						
.041	-.5234									
.050					-1.5521	-2.0587	.0000	-2.2597		
.069									-1.5616	
.080					-1.4690					
.081				-.8443						
.086			-.5295							
.094		-.5817								
.113	-.2612									
.150					-1.0442	-1.3598	-1.4217	-1.9457		
.157									-1.4743	
.163			.1482							
.177				-.8581						
.229		-.7278								
.246			-.8968							
.247	-.2127									
.250					-.8279	-.9769	-1.1355	-1.4375		
.274				-.7820						
.345									-1.2885	
.362		-.5319								
.390			-.8810							
.400					-.6013	-.5449		-.7611		
.402				-.6688						
.418										-1.2729
.429	-.2679									
.437		-.6514								
.443									-1.2638	
.547	-.5537									
.550					- 3448	-.3950				
.566				-.5449						
.600								-.3753		
.633	- 5551									
.637			-.2818							
.650							-.2586			
.670									-.9648	
.700		-.1839				-.2344				
.703										-1.0249
.715					-.1600					
.737	-.2089									
.750							-.2225	-.1983		
.765				-.2311						
.775					-.2056	-.1626				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU06)

ALPHA (5) = 11.949 BETA (4) = 4.211

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.0082									
.798			-.1489							
.808				-.1865						
.834		-.1394								
.839			-.0286							
.850					-.1511	-.0598	-.1502			
.857				-.1039						
.862									-.7248	
.875		-.0882								
.879			-.0175							
.900		-.0267			-.1051			-.1229		
.905				-.0584						
.919			-.0096							
.950					-.0761	.0428	-.0816			
.963				.0032						
.966			.0154							
.955		-.0132								

ALPHA (5) = 12.026 BETA (5) = 8.275 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8562

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.7026	-1.1177	-.5660	-1.0120	-.9713	-1.1746	-1.3479	-1.5989	-1.6890	
.010		-.6139	-.5239		-1.9596	.0000	.0000	.0000		
.020		-.6168		.0000	-1.6599	.0000	.0000	-2.1624	-1.3866	
.040			-.5388	-.7695						
.041	-.7178									
.061					-1.4224	-1.9020	.0000	-2.0011		
.089									-1.3557	
.080					-1.2632					
.081				-.8005						
.086			-.5936							
.104		-.6489								
.117	-.3323									
.160					-.9357	-1.2458	-1.3585	-1.8400		
.164									-1.2299	
.178			.1485							
.184				-.8172						
.191		-.8802								
.195			-1.0366							
.247	-.2576									
.250					-.8389	-.8850	-1.0611	-1.5752		

TABULATED PRESSURE DATA - OA.HC (AMES 11-073-1)

AMES 11-073(OA198) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (S) = 12.028 BETA (S) = 8.275

SECTION : LEFT WING TOP SURF DEPENDENT VARIABLE CP

2-Y/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.334				-.7988						
.345									-1.0878	
.382		-.4282								
.390			-.7610							
.400					-.5772	-.6083		-.8858		
.409				-.8296						
.418										-1.0696
.429	-.2449									
.437		-.6445								
.453									-1.0639	
.547	-.5497									
.562					-.4307	-.4732				
.576				-.5590						
.600								-.3728		
.633	-.5136									
.637			-.2929							
.650							.3366			
.670									-.8396	
.700		-.2221				-.2865				
.723										-.8209
.725					-.2905					
.727	-.2264									
.750							-.2923	-.1907		
.760				-.2248						
.775					-.4081	-.1527				
.793	-.0504									
.798			-.1650							
.808				-.1646						
.834		-.1628								
.839			-.0728							
.850					-.2708	-.0844	-.1922			
.857				-.0997						
.882									-.6539	
.885		-.1212								
.879			-.0501							
.900		-.0523			-.2701			-.1068		
.916				-.0520						
.918			-.0439							
.940					-.1911	-.0189	-.0808			
.953				.0044						
.955			-.0089							
.965		-.0373								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07) (06 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 (I) = -4.068 BETA (I) = -3.876 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4510	-.0477	-.1055	.1442	.4069	.3135	.2457	.2640	-1.0773	
.010		.0282	.0464		.6190	.5770	.5391	.4428		
.020		.0402		.0000	.5519	.4924	.4624	.3989	-.3953	
.040			.1593	.3854						
.061	-.0469									
.050					.3378	.2739	.2502	.1994	-.4714	
.069										
.080					.1369					
.081				.2606						
.086			.2867							
.094		.0478								
.113	.0395									
.150					-.0899	-.1369	-.1352	-.1875	-.5644	
.157										
.163			.6003							
.177				-.0107						
.189		.1595								
.245			.0768							
.247	.0695									
.250					-.2863	-.3474	-.3886	-.4955		
.274				-.1669						
.345									-.4425	
.362		.1483								
.390			-.1353							
.400					-.2110	-.3326		-.6271		
.406				-.1985						
.418										-.5140
.439	.1609									
.447		-.0873							-.0685	
.503										
.547	.0218				-.1465	-.3002				
.550										
.585				-.0395				-.1447		
.610										
.633	-.1161									
.637			.0195				-.1632			
.650									-.0482	
.670										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (1) = -4.068 BETA (1) = -3.876

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0583				-.1164				
.723										-.5207
.725					-.1021					
.727	.0294									
.750							.0605	.0540		
.760				-.1578						
.775					.0377	-.0299				
.793	.1755									
.748			-.1541							
.809				.0693						
.834		-.1422								
.839			.0820							
.850					.0915	.0599	.1106			
.857				.0657						
.872									.0498	
.885		.0065								
.879			.0379							
.900		.0096			.0795			.1233		
.905				.0647						
.913			.0460							
.930					.1013	.1388	.1463			
.953				.0733						
.955			.0596							
.985		.0778								

ALPHA (1) = -4.048 BETA (2) = .153 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4757	-.0064	-.0331	.1574	.3529	.2255	.1461	.1526	-.8051	
.010		.0337	.0710		.5489	.5003	.4621	.3783		
.020		.0265		.0000	.4854	.4295	.3973	.3376	-.4569	
.040			.1417	.3314						
.041	-.1097									
.059					.2922	.2374	.2112	.1609		
.069									-.5176	
.080					.1075					
.091				.2242						
.095			.2455							
.094		.0287								
.113	.0302									
.150					-.0657	-.1297	-.1300	-.2022		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU07)

ALPHA (1) = -4.048 BETA (2) = .153

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]									-.5738	
.163			.5995							
[illegible]				-.0147						
.229		.1347								
.246			.0578							
.247	.0540									
[illegible]					-.2670	-.3180	-.3707	-.4998		
.274				-.1529						
.345									-.4536	
.352		.1264								
[illegible]			-.1308							
[illegible]					-.2134	-.3366		-.6053		
[illegible]				-.1975						
[illegible]										-.4301
[illegible]	.1349									
[illegible]		-.0935								
[illegible]									-.1085	
[illegible]	.0059									
[illegible]					-.1969	-.3565				
[illegible]				-.0880						
[illegible]								-.2671		
[illegible]	-.1228									
[illegible]			-.0313							
[illegible]							-.2932			
[illegible]									-.0566	
[illegible]		.0075				-.1804				
[illegible]										-.4120
[illegible]					-.1978					
[illegible]	-.0101									
[illegible]							.0626	.0566		
[illegible]				-.2512						
[illegible]					-.0146	-.0710				
[illegible]	.1125									
[illegible]			-.2093							
[illegible]				-.0022						
[illegible]		-.1938								
[illegible]			.0031							
[illegible]					.0491	.0205	.0985			
[illegible]				.0124						
[illegible]									.0417	
[illegible]		-.0742								
[illegible]			.0009							
[illegible]		-.0595			.0405			.1102		
[illegible]				.0172						
[illegible]			.0040							

TABULATED PRESSURE DATA - OA149 (AMES 11-073-1)

AMES 11-073'OA149) -140A/B'C/R ORB LEFT WING TOP (XEBU07)

ALPHA ( ) = -4.048 BETA (3) = .153

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
					.0703	.1199	.1358			
				.0429						
			.0198							
		.0262								

ALPHA ( ) = -4.057 BETA (3) = 4.237 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION ( )/LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.5023	.0161	.0183	.1747	.3023	.1541	.0670	.0680	-.6903	
		.0094	.0704		.4788	.4207	.3812	.3089		
		.0220		.0000	.4176	.3592	.3285	.2713	-.5152	
			.1342	.2766						
	-.1219									
					.2438	.1892	.1628	.1145		
									-.5589	
					.0785					
				.1881						
			.2152							
		.0165								
	.0003									
					-.0991	-.1425	-.1392	-.2236		
									-.6023	
			.5982							
				-.0194						
		.1150								
			.0425							
	.0493									
					-.2568	-.3109	-.3612	-.4946		
				-.1453						
									-.4899	
		.1071								
			-.1261							
					-.2207	-.3319		-.6047		
				-.1947						
										-.4310
	.1207									
		-.0379								
									-.4608	
	-.0136									
					-.2322	-.3788				
				-.1177						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU07)

ALPHA (1) = -4.057 BETA (3) = 4.237

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.600								-.5952		
.635	-.1222									
.637			-.0729							
.650							-.5083			
.670									-.0417	
.700		-.0303				-.3702				
.720										-.3158
.735					-.3217					
.737	-.0428									
.750							-.0329	.0539		
.761				-.2935						
.775					-.2066	-.1949				
.782	.0659									
.788			-.2576							
.818				-.1345						
.834		-.2809								
.838			-.1355							
.850					-.0275	-.0453	.0861			
.874				-.0579						
.881									.0488	
.885		-.1908								
.898			-.0788							
.900		-.1292			-.0029			.1188		
.905				-.0217						
.919			-.0495							
.930					.0396	.0874	.1263			
.935				.0038						
.948			-.0151							
.955		-.0118								

ALPHA 2) = .010 BETA (1) = -3.903 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	- 38:8	.0412	.1008	.3737	.5507	.4756	.4492	.4538	-.3728	
.010		.0330	.1480		.4595	.4688	.4151	.2679		
.030		.0194		.0000	.3367	.2989	.2637	.1976	-.2964	
.050			.1842	.1997						
.070	-.14.1									
.090					0754	.0126	-.0160	-.0634		
.110									-.3819	
.140					- 1469					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE9U07)

ALPHA [illegible] = .010 BETA (1) = -3.803

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY [illegible]	.0150	.2390	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
[illegible]				.0341						
[illegible]			.2137							
[illegible]		.0049								
[illegible]	-.0322									
[illegible]					-.3690	-.4293	-.4395	-.4494		
[illegible]									-.6894	
[illegible]			.5987							
[illegible]				-.2662						
[illegible]		.0992								
[illegible]			-.0952							
[illegible]	.0349									
[illegible]					-.5233	-.6345	-.6666	-.6745		
[illegible]				-.4020						
[illegible]									-.7334	
[illegible]		.0280								
[illegible]			-.3475							
[illegible]					-.3150	-.4929		-.9409		
[illegible]				-.4159						
[illegible]										-.3176
[illegible]	.0933									
[illegible]		-.2587								
[illegible]									-.5211	
[illegible]	-.1179									
[illegible]					-.1936	-.3480				
[illegible]				-.0855						
[illegible]								-.1266		
[illegible]	-.3055									
[illegible]			-.0229							
[illegible]							-.0939			
[illegible]									-.1149	
[illegible]		.0025				-.0886				
[illegible]										-.2308
[illegible]					-.0703					
[illegible]	-.0701									
[illegible]							.0731	.0678		
[illegible]				-.1239						
[illegible]					.0608	-.0038				
[illegible]	.0126									
[illegible]			-.1303							
[illegible]				.0777						
[illegible]		-.1178								
[illegible]			.0806							
[illegible]					.1023	.0870	.1165			
[illegible]				.0833						
[illegible]									.0189	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (Z) = .010 BETA (Y) = -3.903

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
Y/Cw										
.750		.0137								
.873			.0054							
.900		.0214			.0842			.1293		
.905				.0797						
.919			.0582							
.950					.0937	.1409	.1338			
.953				.0712						
.965			.0573							
.966		.0895								

ALPHA (Z) = .014 BETA (Y) = .148 MACH = .90060 Q = 601.03 P = 1059.5 RN/L = 3.5880

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
Y/Cw										
.000	-.4079	.0208	.0838	.3475	.4993	.4172	.3781	.3742	-.3821	
.010		.0208	.1131		.3715	.3793	.3301	.1941		
.050		-.0140		.0300	.2599	.2239	.1839	.1278	-.3631	
.060			.1543	.1411						
.061	-.2285									
.150					.0112	-.0445	-.0742	-.1170		
.169									-.4370	
.184					-.1600					
.191				.0027						
.196			.1783							
.199		-.0159								
.218	-.0393									
.250					-.3726	-.4181	-.4418	-.4709		
.267									-.7257	
.268			.6023							
.279				-.2667						
.300		.0933								
.346			-.1133							
.350	.0108									
.450					-.4905	-.6121	-.6753	-.6997		
.454				-.3829						
.548									-.7383	
.550		.0155								
.552			-.3226							
.650					-.3174	-.4328		-.9244		
.653				-.3892						
.750										-.4090
.753	.0771									

AMES 11-073 (OA148) -140A/B C/R CRP LEFT WING TOP (XE8007)

ALPHA (2) = .014 BETA 2) = .148

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y RW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720	1.0000
.497		-.2550								
.573									-.5325	
.547	-.1255									
.550					-.2481	-.4316				
.545				-.1298						
.600								-.1146		
.633	-.2957									
.637			-.0699							
.650							-.1636			
.670									-.0805	
.700		-.0427				-.1390				
.723										-.2135
.725					-.1471					
.727	-.0727									
.750							.0920	.0774		
.760				-.2002						
.775					.0081	-.0433				
.793	.0771									
.798			-.1865							
.808				.0153						
.834		-.1851								
.837			.0073							
.850					.0582	.0460	.1084			
.857				.0263						
.860									.0241	
.865		-.0658								
.873			.0083							
.880		-.0354			.0536			.1304		
.885				.0369						
.889			.0171							
.900					.0710	.1205	.1208			
.903				.0572						
.905			.0405							
.920		.0482								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (2) = .013 BETA (3) = 4.211 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

LY/LW	.0350	.2090	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
.000	-.4522	-.0368	.0510	.3105	.4493	.3633	.3198	.3044	-.3439	
.010		-.0463	.0768		.2809	.2902	.2381	.0948		
.020		-.0480		.0000	.1782	.1393	.1076	.0392	-.4157	
.040			.1199	.0915						
.041	-.4099									
.050					-.0293	-.0992	-.1304	-.1795		
.069									-.4955	
.080					-.2087					
.081				-.0309						
.095			.1453							
.094		-.0301								
.113	-.0481									
.150					-.3758	-.4266	-.4566	-.4969		
.157									-.7598	
.163			.6015							
.177				-.2494						
.229		.0670								
.246			-.1250							
.247	-.0002									
.250					-.4842	-.6101	-.6719	-.7236		
.274				-.3363						
.345									-.6949	
.350		.0056								
.390			-.2880							
.400					-.3093	-.4399		-.7986		
.402				-.3771						
.418										-.5021
.419	.0641									
.497		-.2614								
.503									-.6066	
.517	-.1230									
.550					-.2781	-.4523				
.555				-.1630						
.600								-.5618		
.633	-.2808									
.647			-.1113							
.650							-.5393			
.670									-.0812	
.700		-.0770				-.3513				
.723										-.2112
.725					-.3219					
.727	-.0965									
.750							.0686	.0910		
.760				-.2831						
.775					-.1732	-.1566				

[illegible] FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP [illegible]

ALPHA (3) = .013 BETA (3) = 4.211

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0280									
[illegible]			-.2399							
[illegible]				-.1847						
[illegible]		-.2643								
[illegible]			-.1656							
[illegible]					-.0088	-.0114	.0995			
[illegible]				-.0591						
[illegible]									.0442	
[illegible]		-.2571								
[illegible]			-.0915							
[illegible]		-.1443			.0133			.1369		
[illegible]				-.0183						
[illegible]			-.0406							
[illegible]					.0529	.0998	.1158			
[illegible]				.0239						
[illegible]			.0006							
[illegible]		-.0063								

ALPHA (3) = 3.998 BETA (1) = -3.905 MACH = .90070 Q = 600.88 P = 1059.0 RN/L = 3.5882

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.3191	-.0357	.0523	.4039	.6099	.5760	.5470	.4842	-.2079	
[illegible]		-.0929	.0665		.1615	.2054	.1003	-.1427		
[illegible]		-.1033		.0000	.0262	-.0166	-.0853	-.2216	-.5459	
[illegible]			.1983	-.0487						
[illegible]	-.1939									
[illegible]					-.2445	-.3343	-.4024	-.4911		
[illegible]									-.6483	
[illegible]					-.4726					
[illegible]				-.2276						
[illegible]			.0984							
[illegible]		-.7626								
[illegible]	-.1091									
[illegible]					-.7006	-.7428	-.7447	-.7399		
[illegible]									-.8857	
[illegible]			.6047							
[illegible]				-.4759						
[illegible]		.0474								
[illegible]			-.2718							
[illegible]	-.0109									
[illegible]					-.7619	-.9335	-.9768	-.7873		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (3) = 3.998 BETA (1) = -3.905

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.5997						
.345									-.5968	
.362		-.0758								
.390			-.5414							
.400					-.8199	-.9178		-.5787		
.408				-.7223						
.419										-.7720
.429	.0432									
.497		-.4297								
.503									-.4515	
.547	-.2165									
.560					-.1615	-.3124				
.566				-.1169						
.600								-.4371		
.631	-.5189									
.637			-.0636							
.650							-.4027			
.670									-.3277	
.700		- 0765				-.1386				
.723										-.7054
.726					-.0542					
.727	-.1154									
.750							-.2489	-.2987		
.760				-.0372						
.775					.0083	-.0704				
.783	.1572									
.789			-.0648							
.809				.0761						
.834		-.0817								
.849			.0923							
.860					.0880	.0402	-.0805			
.867				.0870						
.882									-.2570	
.888		.0250								
.879			.0802							
.900		.0350			.0882			-.1516		
.908				.0938						
.919			.0780							
.950					.1121	.1322	.0530			
.953				.0996						
.955			.0899							
.965		.1227								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA T = -.008 BETA T 2 = .135 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5682

DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CA										
.000	-.3562	-.1090	-.0568	.3082	.5245	.4787	.4521	.3808	-.3338	
.010		-.1909	-.0189		.0487	.0904	-.0136	-.2435		
.020		-.1606		.0000	-.0593	-.1149	-.1867	-.3202	-.6495	
.040			.0394	-.1135						
.060	-.3745									
.080					-.2982	-.4007	-.4687	-.5544		
.100									-.7165	
.120					-.5075					
.140				-.2715						
.160			.0482							
.180		-.0831								
.200	-.1077									
.220					-.7060	-.7631	-.7745	-.7796		
.240									-.9129	
.260			.6019							
.280				-.4900						
.300		.0258								
.320			-.2852							
.340	-.0330									
.360					-.7433	-.9107	-.9807	-.8257		
.380				-.5956						
.400									-.5925	
.420		-.0915								
.440			-.5460							
.460					-.7483	-.9535		-.6179		
.480				-.6911						
.500										-.9708
.520	.0011									
.540		-.4310							-.4618	
.560	-.2407									
.580					-.2156	-.1631				
.600				-.1639						
.620								-.4749		
.640	-.5280									
.660			-.1274							
.680							-.3816			
.700									-.2711	
.720		-.1053				-.1597				
.740										-.5471
.760					-.1043					
.780	-.1620									
.800							-.1748	-.2958		
.820				-.1197						
.840					-.0189	-.0971				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (3) = 4.002 BETA (2) = .135

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0914									
.798			-.1455							
.809				.0052						
.834		-.1437								
.839			.0232							
.850					.0542	.0107	-.0193			
.857				.0206					-.1988	
.862										
.865		-.0655								
.879			.0328							
.900		-.0290			.0556			-.1121		
.905				.0385						
.919			.0332							
.950					.0878	.1175	.1111			
.953				.0573						
.955			.0547							
.975		.0659								

ALPHA (3) = 3.920 BETA (2) = 4.206 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4309	-.2752	-.1692	.1856	.4219	.3780	.3413	.2574	-.5463	
.010		-.2604	-.0726		-.0690	-.0413	-.1593	-.3885		
.020		-.2085		.0000	-.1640	-.2297	-.3150	-.4767	-.7960	
.040			.0040	-.1723						
.041	-.5134									
.060					-.3708	-.4776	-.5603	-.6609		
.069									-.8189	
.080					-.5520					
.081				-.2977						
.088			.0181							
.094		-.1036								
.113	-.1198									
.150					-.7186	-.7986	-.8086	-.8361		
.157									-1.0083	
.163			.6022							
.177				-.1908						
.229		-.0094								
.245			-.2758							
.247	-.0378									
.250					-.7270	-.8685	-.9967	-.9310		

[illegible] TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU07)

[illegible] = 7.920 BETA (3) = 4.206

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.5806						
[illegible]									-.7422	
[illegible]		-.0974								
[illegible]			-.5153							
[illegible]					-.6312	-.9280		-.7236		
[illegible]				-.6327						
[illegible]										-1.1517
[illegible]	.0144									
[illegible]		-.4295								
[illegible]									-.5261	
[illegible]	-.2314									
[illegible]					-.3175	-.3834				
[illegible]				-.2336						
[illegible]								-.5124		
[illegible]	-.4785									
[illegible]			-.1894							
[illegible]							-.3315			
[illegible]									-.3043	
[illegible]		-.1279				-.2271				
[illegible]										-.4475
[illegible]					-.1941					
[illegible]	-.1733									
[illegible]							-.1488	-.2875		
[illegible]				-.2101						
[illegible]					-.0848	-.1188				
[illegible]	.0133									
[illegible]			-.2051							
[illegible]				-.0855						
[illegible]		-.2390								
[illegible]			-.1067							
[illegible]					-.0050	-.0089	.0233			
[illegible]				-.0393						
[illegible]									-.1838	
[illegible]		-.1880								
[illegible]			-.0627							
[illegible]		-.1046			.0265			-.1037		
[illegible]				-.0190						
[illegible]			-.0234							
[illegible]					.0580	.0917	.1242			
[illegible]				.0276						
[illegible]			0159							
[illegible]		.0140								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -14.0A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (4) = 7.946 BETA (1) = -3.900 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.2705	-.2980	-.2800	.2072	.4860	.4629	.4186	.2953	-.5916	
.010		-.3753	-.2050		-.2661	-.1867	-.3286	-.5816		
.020		-.3219		.0000	-.3716	-.4056	-.4972	-.6923	-1.0653	
.040			-.1025	-.3819						
.041	-.2108									
.050					-.5957	-.6562	-.7580	-.8875		
.063									-1.0579	
[illegible]					-.7741					
[illegible]				-.5416						
.086			-.0777							
.094		-.1479								
.113	-.1688									
[illegible]					-.9931	-1.0517	-.9331	-.8658		
[illegible]									-.9665	
.163			.6034							
.177				-.6706						
.209		-.0107								
[illegible]			-.4341							
.247	-.0748									
[illegible]					-1.0056	-1.0439	-.7928	-.6563		
.274				-.7698						
.345									-.5718	
.362		-.1651								
.390			-.6676							
.400					-.7757	-.7442		-.5651		
.402				-.9048						
.418										-.8717
.429	-.0005									
.497		-.5386								
[illegible]									-.4971	
.547	-.3392									
.550					-.4385	-.6109				
.565				-.2837						
.600								-.5002		
.633	-.6884									
[illegible]			-.1023							
[illegible]							-.5480			
[illegible]									-.4424	
[illegible]		-.1391				-.4654				
[illegible]										-.4403
[illegible]					-.1949					
[illegible]	-.1825									
[illegible]							-.4823	-.4283		
[illegible]				-.1331						
[illegible]					-.1425	-.3679				

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORE LEFT WING TOP (XE8U07)

ALPHA (4) = 7.946 BETA (2) = -3.900

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2360	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1578									
.798			-.1355							
.808				-.0007						
.834		-.1164								
.839			-.0041							
.849					-.0054	-.2821	-.3967			
.867				.0082						
.889									-.3921	
.895		-.0462								
.879			-.0234							
.900		-.0054			.0070			-.3782		
.905				.0253						
.919			-.0215							
.940					.0610	-.1414	-.3179			
.953				.0492						
.955			.0167							
.965		.0929								

ALPHA (4) = 7.956 BETA (2) = .143 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2360	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3832	-.4954	-.4030	.0228	.3425	.3202	.2712	.1360	-.8522	
.010		-.4918	-.1963		-.4162	-.3452	-.4972	-.7355		
.020		-.3715		.0000	-.4890	-.5351	-.6264	-.8155	-.8386	
.040			-.2787	-.4419						
.041	-.4102									
.060					-.6672	-.7626	-.8570	-.9991		
.064									-.5641	
.080					-.8263					
.081				-.5820						
.100			-.0752							
.104		-.2020								
.117	-.2020									
.120					-.9658	-1.0948	-.9917	-.8628		
.140									-.6622	
.163			.8025							
.164				-.6671						
.179		-.1309								
.240			-.4298							
.247	-.0645									
.301					-.9890	-1.0795	-.8990	-.7413		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U07)

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

ALPHA (+) = 7.956 BETA (2) = .143

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
				-.7423					-.5181	
		-.1891								
			-.6672							
					-.9330	-.8105		-.5999		
				-.8716						-.4872
	-.0036									
		-.5708							-.5102	
	-.3592									
					-.4476	-.6293				
				-.2211				-.5453		
	-.7109									
			-.1707							
							-.5583		-.4501	
		-.1562				-.4828				
										-.4251
					-.2390					
	-.3498						-.4938	-.4531		
				-.1832						
					-.1674	-.3290				
	.0620									
			-.1929							
				-.0928						
		-.1593								
			-.0983							
					-.0279	-.2191	-.4149			
				-.0572						
									-.3892	
		-.1204								
			-.0637							
		-.0643			-.0210			-.4016		
				-.0351						
			-.0394							
					.0412	-.0748	-.3203			
				.0020						
			.0076							
		.0278								

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

AMES 11-073(C)(148) -140A/B/C/R ORB LEFT WING TOP (XZBU07)

[illegible] = [illegible] BETA [illegible] = [illegible] MACH = .99807 Q = 599.20 P = 1059.9 RN/L = 3.5837

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2[illegible]	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.4579	-.6026	-.2531	-.1554	.1894	.1643	.1083	-.0342	-.7551	
[illegible]		-.4016	-.1952		-.5604	-.5117	-.6753	-.9106		
[illegible]		-.3493		.0000	-.6255	-.6653	-.7892	-.9902	-.6781	
[illegible]			-.1668	-.4156						
[illegible]	-.5351									
[illegible]					-.7215	-.8595	-.9667	-1.0773		
[illegible]									-.5869	
[illegible]					-.8454					
[illegible]				-.4901						
[illegible]			-.1759							
[illegible]		-.3329								
[illegible]	-.2304									
[illegible]					-.9191	-1.1317	-1.0462	-1.0008		
[illegible]									-.5508	
[illegible]			.5998							
[illegible]				-.6128						
[illegible]		-.2647								
[illegible]			-.5328							
[illegible]	-.1015									
[illegible]					-.9170	-1.1054	-.8927	-.7433		
[illegible]				-.7186						
[illegible]									-.5362	
[illegible]		-.1341								
[illegible]			-.7223							
[illegible]					-.8425	-.8247		-.6025		
[illegible]				-.8571						
[illegible]										-.5223
[illegible]	-.0364									
[illegible]		-.5580								
[illegible]									-.5293	
[illegible]	-.3645									
[illegible]					-.3760	-.6175				
[illegible]				-.2533						
[illegible]								-.5734		
[illegible]	-.6948									
[illegible]			-.2132							
[illegible]							-.6026			
[illegible]									-.4844	
[illegible]		-.2101				-.4457				
[illegible]										-.4650
[illegible]					-.2337					
[illegible]	-.2449									
[illegible]							-.5363	-.5231		
[illegible]				-.2855						
[illegible]					-.2421	-.3172				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA ( ) = 7.955 BETA ( ) = 4.206

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.793	-.0057									
.798			-.2216							
.808				-.3026						
.834		-.2293								
.849			-.1850							
.870					-.0742	-.2078	-.4539			
.887				-.2018						
.920									-.4303	
.944		-.2384								
.954			-.1471							
.966		-.1675			-.0543			-.4868		
.972				-.1120						
.979			-.0942							
.990					.0214	-.0594	-.3690			
.993				-.0624						
.996			-.0432							
.998		-.0341								

ALPHA (S) = 11.997 BETA ( ) = -3.885 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.2933	-.6928	-.5441	-.1792	.2239	.2107	.1548	.0021	-.8048	
.010		-.6957	-.2700		-.7082	-.6157	-.7834	-.8747		
.020		-.5958		.0000	-.8325	-.8087	-.9255	-.7084	-.7119	
.040			-.1927	-.6576						
.060	-.2740									
.080					-.9734	-1.0149	-1.0845	-.7081		
.099									-.5690	
.140					-1.0567					
.180				-.7478						
.196			-.1827							
.220		-.3755								
.243	-.2583									
.290					-1.2260	-.9949	-.9966	-.6602		
.340									-.5456	
.396			.6024							
.440				-.7998						
.490		-.2472								
.540			-.5593							
.590	-.1240									
.640					-1.0352	-.9054	-.8722	-.6574		

[illegible] FEB 76 TABULATED PRESSURE DATA - CA149 (MES 11-073-1)

AMES 11-073(CA148) -140A/B/C/R ORB LEFT WING (XESU07)

ALPHA (5) = 11.987 BETA (11) = -3.885

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8555						
.345									-.5411	
.362		-.3893								
[illegible]			-.7754							
[illegible]					-.7950	-.8256		-.6197		
[illegible]				-.8744						
[illegible]										-.5222
[illegible]	-.0320									
[illegible]		-.7694								
.503									-.5256	
[illegible]	-.4828									
[illegible]					-.7101	-.6790				
[illegible]				-.4800						
[illegible]								-.5817		
[illegible]	-.8309									
.637			-.3149							
[illegible]							-.6391			
[illegible]									-.5130	
[illegible]		-.2272				-.6168				
[illegible]										-.5709
[illegible]					-.4417					
[illegible]	-.2447									
[illegible]							-.6123	-.5528		
[illegible]				-.2690						
[illegible]					-.4377	-.5388				
[illegible]	.0592									
[illegible]			-.2878							
[illegible]				-.2572						
[illegible]		-.2482								
[illegible]			-.3130							
[illegible]					-.2737	-.5019	-.5828			
[illegible]				-.2005						
[illegible]									-.4530	
[illegible]		-.2172								
[illegible]			-.2030							
[illegible]		-.1184			-.2357			-.5368		
[illegible]				-.1670						
[illegible]			-.1513							
[illegible]					-.1433	-.3876	-.5408			
[illegible]				-.1328						
[illegible]			-.0715							
[illegible]		.0132								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U07)

ALPHA (S) = 11.997 BETA (21) = .148 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.4043	-.7843	-.3412	-.3742	.0439	.0262	-.0290	-.1750	-.8078	
.010		-.5412	-.2852		-.8577	-.7672	-.9179	-.9123		
.020		-.4980		.0000	-.9689	-.9540	-1.0699	-.7024	-.7070	
.040			-.2779	-.5494						
.041	-.4598									
.050					-1.0832	-1.1229	-1.0677	-.6700		
.059									-.6245	
.060					-1.1194					
.081				-.6313						
.085			-.2724							
.094		-.4899								
.113	-.2852									
.160					-1.2170	-1.0075	-.9935	-.6650		
.157									-.6002	
.183			.6021							
.197				-.7402						
.199		-.5987								
.205			-.5804							
.247	-.1858									
.250					-.9622	-.9230	-.9085	-.6645		
.274				- 8424						
.345									-.5833	
.362		-.3165								
.340			-.7845							
.400					-.8252	-.8205		-.6395		
.402				-.9458						
.418										-.5828
.439	-.0741									
.437		-.7497								
.433									-.5714	
.447	-.5061									
.450					-.6885	-.7296				
.469				-.4094						
.500								-.6075		
.553	-.8549									
.547			-.3533							
.590							.6539			
.600									-.5430	
.622		-.2502				-.6437				
.623										-.5400
.705					-.4184					
.727	-.2758									
.750							.6261	-.5780		
.800				-.3261						
.875					-.4502	-.5600				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB007)

ALPHA (S) = 11.997 BETA (2) = .148

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* SW										
.033	.0335									
.038			-.3041							
.038				-.4623						
.034		-.2933								
.033			-.3774							
.000					-.2810	-.4893	-.5917			
.057				-.3483						
.002									-.5030	
.005		-.3005								
.079			-.2693							
.000		-.2313								
.005					-.2409			-.5526		
.010				-.2970						
.010			-.1980							
.000					-.1278	-.3644	-.5613			
.005				-.2040						
.005			-.1140							
.005		-.0582								

ALPHA (S) = 11.997 BETA (3) = 4.223 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* SW										
.000	-.5159	-.7447	-.3668	-.5377	-.1275	-.1501	-.2201	-.3619	-.7776	
.010		-.6373	-.3395		-1.0033	-.9325	-1.0222	-.7850		
.020		-.6411		.0000	-1.0935	-1.0983	-.9471	-.7788	-.7083	
.040			-.3342	-.4631						
.041	-.6273									
.060					-1.1542	-1.1050	-.8945	-.7372		
.069									-.6440	
.080					-1.1140					
.101				-.5693						
.106			-.3211							
.114		-.6197								
.113	-.2420									
.101					-1.0739	-.8389	-.7794	-.6949		
.101									-.6211	
.102			.6031							
.102				-.5773						
.099		-.6750								
.095			-.6048							
.07	-.2659									
-					-.8123	-.7984	-.7506	-.6918		

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

ALPHA (S) = 11.987 BETA (3) = 4.223

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY PW	.2550	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8118					-.6173	
.345										
.362		-.3143								
.390			-.8106							
.400					-.7152	-.7745		-.6897		
.402				-.8128						-.6301
.418										
.429	-.1034									
.437		-.7280							-.6280	
.503										
.547	-.4780									
.550					-.6592	-.7490				
.602				-.4441						
.610								-.5484		
.633	-.8468									
.637			-.3123							
.650							-.7125			
.670									-.6030	
.700		-.2020				-.6931				
.723										-.5779
.735					-.4413					
.747	-.2090									
.750							-.6820	-.6467		
.780				-.4790						
.795					-.6432	-.6423				
.733	.0010									
.799			-.3915							
.809				-.6107						
.824		-.3573								
.840			-.4659							
.850					-.4652	-.5411	-.6407			
.857				-.5643						
.882									-.5781	
.895		-.4317								
.909			-.3934							
.910		-.3597			-.3276			-.6125		
.925				-.4837						
.942			-.3762							
.950					-.2302	-.3834	-.5991			
.962				-.2413						
.975			-.1784							
.995		-.1745								

AMES 11-073 (OA148) -140A/B/C/R ORB LEFT WING TOP (RECEIVED : 05 AUG 75)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1076.6800 IN. XO
LREF = [illegible] IN. YMRP = .0000 IN. YO
[illegible] = [illegible] 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 = 1.400

ALPHA : = -4.017 BETA (1) = -3.884 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

POSITION	(LEFT WING TOP) SURF	DEPENDENT VARIABLE CP								
BETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]										
[illegible]	-.1374	-.1009	-.0932	.2864	.7030	.6409	.6062	.6289	-.3258	
[illegible]		-.0342	.0072		.7512	.7349	.6927	.6236		
[illegible]		-.0304		.0000	.6701	.6341	.6050	.5815	.0104	
[illegible]			.0563	.3937						
[illegible]	-.0500									
[illegible]					.4718	.4234	.4064	.4029		
[illegible]									-.0401	
[illegible]					.2796					
[illegible]				.3048						
[illegible]			.1696							
[illegible]		-.0216								
[illegible]	-.0299									
[illegible]					.0531	.0530	.0877	.1163		
[illegible]									-.1790	
[illegible]			.0000							
[illegible]				.1088						
[illegible]		.0546								
[illegible]			.0978							
[illegible]	-.0294									
[illegible]					-.0803	-.1045	-.0957	-.0922		
[illegible]				-.0210						
[illegible]									-.2144	
[illegible]		.1503								
[illegible]			-.0136							
[illegible]					-.2067	-.2628		-.2885		
[illegible]				-.1803						
[illegible]										-.3903
[illegible]	.0532									
[illegible]		.0014								
[illegible]									-.2538	
[illegible]	.0092									
[illegible]					-.2579	-.3076				
[illegible]				-.178.						
[illegible]								-.3600		
[illegible]	-.0302									
[illegible]			-.1490							
[illegible]							- 3663			
[illegible]									-.3356	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (1) = -4.017 BETA (1) = -3.384

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cw	.8350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.700		-.1235				-.3226				
.723										-.3785
.725					-.0470					
.727	-.1094									
.750							-.3522	-.3550		
.760				0003						
.775					.1052	-.1305				
.793	.2409									
.798			.0520							
.808				.2202						
.834		.1166								
.839			.2060							
.850					.1713	-.0409	-.3224			
.857				.1823						
.862									-.2821	
.888		.0954								
.893			.1683							
.900		.1644			.1474			-.2687		
.905				.1655						
.919			.1339							
.950					.1503	.1045	-.1912			
.973				.1388						
.975			.1308							
.985		.2190								

ALPHA (1) = -3.956 BETA (2) = .155 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cw	.8350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.700	-.1620	-.0719	-.0591	.2564	.6302	.5588	.5150	.5270	-.3849	
.723		-.0511	-.0027		.6606	.6369	.6015	.5373		
.725		-.0618		.0000	.5866	.5473	.5220	.4995	-.0716	
.748			.0285	.3119						
.751	-.1142									
.775					.4026	.3577	.3388	.3394		
.784									-.1116	
.798					.2206					
.811				.2413						
.835			.1252							
.834		-.0594								
.871	-.0922									
.900					.0250	.0230	.0527	.0829		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U06)

ALPHA (1) = -3.986 BETA (2) = .155

POSITION LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XOCW										
.157									-.2278	
.163			.0000							
.177				.0790						
.229		.0291								
.246			.0611							
.247	-.0578									
.260					-.0950	-.1095	-.1156	-.1162		
.274				-.0313						
.345									-.2512	
.362		.1181								
.370			-.0294							
.400					-.2064	-.2613		-.2975		
.402				-.1864						
.418										-.4497
.419	.0269									
.437		-.0329								
.503									-.2765	
.547	.0427									
.560					-.2498	-.2937				
.566				-.1704						
.600								-.3693		
.633	-.0655									
.637			-.0568							
.660							-.3531			
.670									-.3388	
.700		-.0804				-.2889				
.723										-.4445
.725					-.0167					
.727	-.1059									
.750							-.3375	-.3720		
.780				.0314						
.795					.0955	-.0368				
.797	.2873									
.798			.0451							
.827				.1453						
.834		.0314								
.839			.1353							
.870					.1685	-.0028	-.2926			
.901				.1219						
.913									-.2861	
.914		.0219								
.930			.0947							
.931		.1057			.1200			-.2745		
.945				.1038						
.979			.0823							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU08)

ALPHA (1) = -3.966 BETA (2) = .155

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.1046	.1023	-.0557			
.953				.0948						
.955			.0666							
.965		.1575								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1705	-.0848	-.0297	.2487	.5597	.4766	.4236	.4295	-.4338	
.010		-.0903	-.0033		.5743	.5467	.5093	.4477		
.020		-.1059		.0000	.5034	.4571	.4373	.4178	-.1493	
.040			.0205	.2602						
.041	-.1639									
.060					.3391	.2861	.2714	.2734		
.069									-.1793	
.080					.1791					
.081				.1984						
.086			.1010							
.094		-.0710								
.113	-.1528									
.120					.0116	-.0049	.0204	.0415		
.127									-.2745	
.146			.0000							
.177				.0576						
.209		.0106								
.246			.0408							
.247	-.0679									
.260					-.1029	-.1229	-.1330	-.1386		
.274				-.0336						
.345									-.2855	
.362		.1087								
.390			-.0329							
.420					-.2072	-.2619		-.3081		
.432				-.1874						
.418										-.4951
.429	.0203									
.497		-.0470								
.503									-.3056	
.547	.0318									
.550					-.2424	-.2982				
.555				-.1594						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6006)

ALPHA (1) = -4.012 BETA (3) = 4.241

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3805		
.633	-.0901									
.637			.0220							
.650							-.3434			
.670									-.3454	
.700		-.0300				-.1496				
.723										-.4870
.735					.0169					
.737	-.1001									
.750							-.3306	-.3690		
.760				.0296						
.775					.1003	-.0023				
.793	.2922									
.799			.0301							
.809				.1187						
.834		.0695								
.839			.1023							
.850					.1478	.0256	-.1239			
.867				.0803						
.882									-.2869	
.885		-.0054								
.879			.0507							
.900		.0654			.0880			-.2371		
.905				.0564						
.919			.0375							
.950					.0677	.0883	.0008			
.953				.0559						
.905			.0215							
.905		.0912								

ALPHA (2) = -.007 BETA (1) = -3.899 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0372	.0150	.0126	.4048	.7524	.7102	.6703	.6821	-.1554	
.010		.0184	.0340		.6103	.6374	.5964	.5055		
.020		-.0024		.0000	.5017	.4990	.4757	.4522	.0060	
.0[illegible]			.0521	.2436						
.041	-.0358									
[illegible]					.2919	.2676	.2520	.2556		
.069									-.0647	
.090					.1154					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU08)

ALPHA (2) = -.007 BETA (1) = -3.899

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1228						
.086			.1126							
.094		-.0568								
.113	-.0344									
.150					-.0840	-.0869	-.0460	-.0156		
.157									-.2223	
.163			.0000							
.177				-.0216						
.229		-.0069								
.246			-.0017							
.247	-.0575									
.260					-.2283	-.2399	-.2240	-.2031		
.274				-.1500						
.345									-.2791	
.362		.0744								
.390			-.1203							
.400					-.3232	-.3816		-.3833		
.402				-.2717						
.418										-.1810
.429	.0093									
.497		-.0826								
.503									-.3290	
.547	.0021									
.550					-.3560	-.4162				
.565				-.2717						
.600								-.4197		
.633	-.1186									
.637			-.2321							
.650							-.4565			
.670									-.4181	
.700		-.1990				-.4162				
.723										-.2236
.725					-.1871					
.727	-.1785									
.750							-.4587	-.4346		
.760				-.1106						
.775					-.0742	-.2489				
.793	.0305									
.788			-.0750							
.809				.0652						
.814		.0255								
.839			.1254							
.852					-.0135	-.2015	-.4203			
.857				.1102						
.882									-.3999	

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (1) = -.007 BETA (1) = -3.899

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.955		.0179								
.972			.1130							
.980		.1000			.0270			-.3558	*	
.985				.1107						
.919			.0906							
.950					.0805	-.1665	-.2081			
.953				.1057						
.965			.0930							
.985		.1441								

ALPHA (2) = -.001 BETA (2) = .155 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0565	-.0279	-.0320	.3484	.6640	.6148	.5776	.5808	-.2113	
.010		-.0515	-.0139		.4914	.5345	.4989	.4123		
.020		-.0895		.0000	.3991	.4041	.3859	.3667	-.0685	
.040			.0130	.1706						
.041	-.0952									
.050					.2220	.1942	.1818	.1846		
.059									-.1304	
.080					.0642					
.081				.0647						
.096			.0687							
.094		-.1150								
.113	-.1028									
.140					-.1157	-.1232	-.0879	-.0561		
.157									-.2672	
.163			.0000							
.177				-.0547						
.193		-.0279								
.241			-.0333							
.247	-.1089									
.250					-.2359	-.2617	-.2503	-.2288		
.274				-.1570						
.345									-.3106	
.362		.0444								
.380			-.1279							
.420					-.3106	-.3828		-.3985		
.433				-.2709						
.478										-.2022
.488	-.0178									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (2) = -.001 BETA (2) = .155

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1081								
.503									-.3498	
.547	-.0195									
.550					-.3424	-.4073				
.555				-.2709						
.600								-.4329		
.633	-.1534									
.637			-.2303							
.650							-.4540			
.670									-.4143	
.700		-.1999				-.3921				
.723										-.2365
.725					-.1374					
.727	-.1813									
.750							-.4360	-.4446		
.760				-.1030						
.775					-.0764	-.1935				
.793	.1274									
.799			-.0534							
.809				.0391						
.824		.0134								
.833			.0544							
.850					.0035	-.1735	-.3829			
.857				.0632						
.862									-.3777	
.865		-.0360								
.879			.0501							
.900		.0291			.0368			-.3650		
.905				.0571						
.919			.0332							
.950					.0688	-.0739	-.1720			
.953				.0498						
.965			.0341							
.985		.0575								

AMES 11-073(OA148) -140A/B/C/P ORB LEFT WING TOP (XE8U08)

ALPHA B = -.006 BETA (B) = 4.218 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION	LEFT WING TOP SURF	DEPENDENT VARIABLE CP								
BY ETA	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.0767	-.1021	-.0946	.2867	.5817	.5304	.4829	.4867	-.2150	
.010		-.1384	-.0608		.3861	.4359	.4001	.3189		
.020		-.1468		.0000	.3156	.3175	.2948	.2791	-.1305	
.040			-.0222	.1137						
.041	-.1378									
.059					.1612	.1279	.1096	.1176		
.069									-.1833	
.080					.0167					
.081				.0346						
.086			.0323							
.094		-.1639								
.113	-.1629									
.150					-.1307	-.1572	-.1253	-.0967		
.157									-.3060	
.163			.0000							
.177				-.0717						
.229		-.0373								
.246			-.0406							
.247	-.1366									
.260					-.2260	-.2797	-.2717	-.2585		
.274				-.1492						
.345									-.3299	
.372		.0415								
.400			-.1296							
.410					-.3050	-.3728		-.4149		
.422				-.2666						
.439										-.1617
.449	-.0185									
.457		-.1146								
.543									-.3585	
.547	-.0257									
.560					-.3388	-.3945				
.565				-.2654						
.600								-.4537		
.633	-.1717									
.647			-.1692							
.660							-.4413			
.670									-.4092	
.723		-.1828				-.3335				
.738										-.3077
.750					-.1331					
.751	-.1803									
.760							-.4252	-.4503		
.761				-.0308						
.775					-.0594	- 1760				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU08)

ALPHA (2) = -.006 BETA (3) = 4.218

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1615									
.799			-.0490							
.808				.0192						
.834		-.0017								
.879			.0159							
.890					.0225	-.1358	-.2602			
.897				.0201						
.952									-.3671	
.975		-.0823								
.979			-.0001							
.990		-.0124			.0362			-.3435		
.995				.0134						
.999			-.0113							
1.000					.0430	-.0298	-.1733			
1.000				.0087						
1.000			-.0108							
1.000		-.0032								

ALPHA (3) = 3.849 BETA (1) = -3.909 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0425	.0240	-.0391	.3782	.7507	.7350	.7120	.7023	.0686	
.010		-.0218	-.0541		.3870	.4937	.4565	.3511		
.020		-.0407		.0000	.2920	.3296	.3174	.2822	-.0559	
.040			-.0484	.0435						
.041	-.0258									
.060					.0868	.0987	.0943	.0879		
.089									-.1029	
.090					-.0706					
.150				-.0616						
.156			-.0095							
.164		-.0857								
.113	-.0418									
.82					-.2782	-.2418	-.1944	-.1512		
.1									-.2780	
.1			.0000							
.1				-.1848						
.1		-.0989								
.1			-.1246							
.247	-.0676									
.250					-.3426	-.3745	-.3447	-.3090		

AMES 11-073(OA148) -140A/B/C/R ,RB LEFT WING TOP (XE8U08)

ALPHA (B) = 3.849 BETA ( ) = -3.909

SECTION = LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2815						
.345									-.3466	
.362		-.0180								
.390			-.2267							
.400					-.4325	-.4863		-.4613		
.402				-.3636						
.418										-.1341
.429	-.0626									
.497		-.1643								
.503									-.4226	
.547	-.0716									
.550					-.4424	-.5168				
.595				-.3567						
.600								-.4840		
.643	-.2150									
.647			-.3107							
.650							-.5085			
.670									-.5341	
.700		-.2782				-.5187				
.723										-.4212
.726					-.2491					
.747	-.2475									
.750							-.5378	-.4830		
.770				-.1738						
.775					-.2081	-.3629				
.793	-.1708									
.799			-.1678							
.808				-.1140						
.834		-.0681								
.839			-.0279							
.850					-.1830	-.2664	-.5056			
.857				-.0485						
.862									-.5879	
.865		-.0653								
.910			.0398							
.913		.0579			-.1666			-.4292		
.915				.0053						
.920			.0504							
.940					-.0996	-.2094	-.2667			
.943				.0449						
.965			.0535							
.975		.0830								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU08)

ALPHA (3) = 3.957 BETA (2) = .154 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0132	-.0836	-.2089	.2601	.6447	.6356	.6173	.5975	.0151	
.010		-.1385	-.2065		.2665	.3721	.3448	.2407		
.020		-.1414		.0000	.1787	.2236	.2183	.1829	-.1264	
.040			-.1577	-.0298						
.041	-.0798									
.050					.0069	.0209	.0152	.0104		
.069									-.1679	
.080					-.1309					
.081				-.1133						
.086			-.0775							
.094		-.1505								
.113	-.1063									
.150					-.3117	-.2854	-.2409	-.2008		
.157									-.3214	
.163			.0000							
.177				-.2095						
.229		-.1304								
.246			-.1443							
.247	-.1201									
.250					-.3582	-.3996	-.3758	-.3439		
.274				-.2879						
.315									-.3806	
.362		-.0356								
.390			-.2295							
.400					-.4283	-.4978		-.4789		
.402				-.3554						
.418										-.2632
.449	-.0747									
.497		-.1793								
.513									-.4475	
.517	-.0884									
.550					-.4146	-.5131				
.565				-.3472						
.570								-.4981		
.573	-.2401									
.587			-.3102							
.650							-.5223			
.670									-.5457	
.700		-.2827				-.4995				
.703										-.5551
.725					-.1951					
.727	-.2483									
.750							-.5403	-.4930		
.760				-.1717						
.775					-.1982	-.2637				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (3) = 3.967 BETA (2) = .154

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/RW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0209									
.798			-.1400							
.808				-.1059						
.834		-.0316								
.839			-.0354							
.850					-.1799	-.2258	-.3814			
.857				-.0788						
.862									-.5852	
.865		-.0829								
.879			-.0406							
.900		-.0209			-.1430			-.4390		
.905				-.0335						
.919			-.0029							
.950					-.0724	-.1688	-.2526			
.963				-.0042						
.965			.0016							
.965		-.0168								

ALPHA (3) = 3.895 BETA (3) = 4.208 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/RW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0166	-.2182	-.4194	.1281	.5369	.5375	.5215	.5024	-.0649	
.010		-.2759	-.3630		.1501	.2620	.2334	.1352		
.020		-.2554		.0000	.0754	.1247	.1199	.0881	-.2019	
.040			-.2267	-.0941						
.041	-.1257									
.050					-.0623	-.0511	-.0598	-.0671		
.060									-.2325	
.080					-.1736					
.081				-.1479						
.085			-.1222							
.090		-.2134								
.110	-.1622									
.120					-.3145	-.3160	-.2819	-.2487		
.130									-.3609	
.140			.0000							
.150				-.2046						
.160		-.1309								
.170			-.1365							
.180	-.1634									
.190					-.3511	-.4151	-.4037	-.3755		

AMES 11-073(OA148) -140A/B/C/R ORB LFFT WING TOP (XE8U08)

ALPHA (3) = 3.885 BETA (3) = 4.208

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2651						
.345									-.4154	
.382		-.0348								
.390			-.2118							
.400					-.3920	-.4879		-.4974		
.402				-.3339						
.418										-.4134
.428	-.0755									
.437		-.1817								
.603									-.4686	
.647	-.0849									
.650					-.4024	-.4925				
.655				-.3363						
.600								-.5056		
.633	-.0469									
.637			-.3043							
.650							-.5265			
.671									-.5531	
.700		-.2602				-.3732				
.763										-.6532
.785					-.1876					
.787	-.2458									
.788							-.5191	-.5017		
.800				-.1668						
.805					-.2030	-.2410				
.808	.1000									
.708			-.0958							
.609				-.1046						
.624		-.0353								
.648			-.0507							
.650					-.1536	-.2153	.3111			
.667				-.0894						
.672									-.5815	
.680		-.1123								
.683			-.0729							
.700		-.0574			-.1182			-.3065		
.718				-.0530						
.720			-.0343							
.750					-.0522	-.1649	-.2607			
.753				-.0346						
.788			-.0378							
.845		-.0749								

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

[illegible] = 7.[illegible] BETA [illegible] = -3.901 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CF

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]										
.000	.0966	-.0732	-.2280	.2585	.6913	.7072	.6975	.6662	.0122	
.010		-.1576	-.2487		.1594	.2951	.2569	.1303		
.020		-.1457		.0000	.0498	.1291	.1243	.0689	-.2377	
.040			-.1866	-.1678						
.041	-.0277									
.050					-.1213	-.0842	-.0867	-.1076		
.063									-.2630	
.080					-.2467					
.081				-.2645						
.[illegible]			-.1300							
.094		-.1225								
.113	-.0430									
.150					-.4208	-.3772	-.3402	-.3032		
.157									-.4042	
.163			.0000							
.177				-.3925						
.[illegible]		-.1290								
.246			-.2752							
.247	-.0653									
.250					-.5089	-.4903	-.4587	-.4224		
.274				-.4298						
.345									-.4944	
.368		-.1204								
.390			-.3363							
.400					-.5676	-.5801		-.4828		
.402				-.4516						
.418										-.4024
.429	-.1184									
.497		-.2554								
.503									-.5245	
.547	-.1737									
.550					-.5602	-.5315				
.565				-.4274						
.570								-.4801		
.[illegible]	-.3092									
.[illegible]			-.3998							
.[illegible]							-.4889			
.[illegible]									-.6274	
.[illegible]		-.3704				-.4812				
.[illegible]										-.6350
.[illegible]					-.3731					
.[illegible]	-.3139									
.[illegible]							-.4247	-.4403		
.[illegible]				-.2362						
.[illegible]					-.3459	-.4522				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (1) = 7.868 BETA (1) = -3.901

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2898									
.798			-.2185							
.808				-.2326						
.834		-.1447								
.838			-.1558							
.850					-.2655	-.4155	-.4232			
.857				-.1901						
.868									-.6166	
.886		-.1254								
.879			-.0666							
.901		.0034			-.2037			-.4198		
.905				-.0977						
.919			.0235							
.930					-.1796	-.3362	-.4012			
.953				-.0322						
.955			.0589							
.966		.0423								

ALPHA (1) = 7.941 BETA (2) = .144 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0238	-.2876	-.4421	.0458	.5373	.5780	.5782	.5446	-.1429	
.010		-.3042	-.3979		-.0001	.1414	.1193	.0050		
.020		-.2931		.0000	-.1004	-.0029	.0040	-.0459	-.3496	
.040			-.3223	-.2942						
.041	-.0713									
.050					-.2490	-.1926	-.1785	-.2012		
.069									-.3560	
.080					-.3452					
.081				-.3513						
.090			-.2324							
.104		-.1880								
.113	-.1040									
.121					-.4767	-.4275	-.3924	-.3586		
.131									-.4548	
.163			.0000							
.171				-.4372						
.189		-.1837								
.198			-.2736							
.217	-.1223									
.250					-.5272	-.5175	-.4921	-.4584		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE [illegible] TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U08)

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

ALPHA (1) = 7.941 BETA (2) = .144

DEPENDENT VARIABLE CP

ETA	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.3712					-.5209	
[illegible]		-.1537								
[illegible]			-.3063		-.5354	-.5899		-.5052		
[illegible]				-.4119						-.5379
[illegible]	-.1715									
[illegible]		-.2715							-.5493	
[illegible]	-.1619				-.4661	-.5684				
[illegible]				-.4042				-.5043		
[illegible]	-.3103									
[illegible]			-.3955				-.5211			
[illegible]									-.5515	
[illegible]		-.3566				-.4975				-.5362
[illegible]					-.2340					
[illegible]	-.3039						-.4475	-.4618		
[illegible]				-.2145						
[illegible]					-.2292	-.4221				
[illegible]	-.1367									
[illegible]			-.1927							
[illegible]				-.2200						
[illegible]		-.0526								
[illegible]			-.1202							
[illegible]					-.2064	-.4054	-.4389			
[illegible]				-.1659						
[illegible]									-.5465	
[illegible]		-.1084								
[illegible]			-.1135							
[illegible]		-.0497			-.2321			-.4381		
[illegible]				-.1297						
[illegible]			-.0415							
[illegible]					-.1729	-.3292	-.4077			
[illegible]				-.0778						
[illegible]			.0032							
[illegible]		-.0514								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU08)

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

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 TOP SURF DEPENDENT VARIABLE CP

Z/RW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0283	-.4049	-.4184	-.1511	.3647	.4425	.4433	.3992	-.3176	
.010		-.3863	-.4172		-.1685	.0082	-.0238	-.1210		
.020		-.3858		.0000	-.2574	-.1194	-.1192	-.1661	-.4629	
.040			-.4006	-.3232						
.241	-.1165									
.060					-.3760	-.2794	-.2716	-.2988		
.078									-.4885	
.080					-.4357					
.091				-.3052						
.088			-.3753							
.094		-.3729								
.113	-.1600									
.150					-.4981	-.4775	-.4479	-.4194		
.157									-.5104	
.163			.0000							
.171				-.3179						
.229		-.2117								
.245			-.4344							
.247	-.1801									
.250					-.4721	-.5510	-.5294	-.5009		
.274				-.3911						
.345									-.5269	
.369		-.1131								
.389			-.2883							
.407					-.4458	-.6022		-.5212		
.408				-.3885						
.418										-.5272
.469	-.1665									
.497		-.2436								
.503									-.5379	
.547	-.1469									
.563					-.4389	-.5668				
.585				-.4112						
.622								-.5180		
.636	-.3040									
.647			-.3790							
.670							-.5373			
.673									-.5042	
.703		-.3309				-.4763				
.733										-.4806
.735					-.2542					
.761	-.3035									
.769							-.4757	-.4490		
.811				-.1992						
.815					-.2513	-.3806				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (4) = 7.942 BETA (3) = 4.207

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2*YBAR	.0350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.033	.0221									
.038			-.1567							
.039				-.1908						
.034		-.1120								
.039			-.1316							
.050					-.2029	-.2801	-.4447			
.057				-.1643						
.062									-.4937	
.065		-.1587								
.079			-.1178							
.090		-.0938			-.1724			-.4175		
.095				-.1512						
.119			-.0701							
.150					-.1189	-.1930	-.3909			
.153				-.0985						
.155			-.0925							
.186		-.0890								

ALPHA (5) = 11.890 BETA (1) = -3.888 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2*YBAR	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	.0144	-.2474	-.3763	.0964	.5936	.6357	.6292	.5684	-.1914	
.010		-.2965	-.3441		-.0320	.1083	.0458	-.0861		
.020		-.2832		.0000	-.1379	-.0456	-.0763	-.1406	-.4994	
.040			-.2794	-.3315						
.041	-.0250									
.060					-.2924	-.2341	-.2437	-.2884		
.081									-.4994	
.100					-.3877					
.101				-.3920						
.105			-.2128							
.120		-.2140								
.123	-.0452									
.140					-.5162	-.4783	-.4476	-.4289		
.151									-.5302	
.163			.0000							
.164				-.4803						
.189		-.1801								
.216			-.2979							
.247	-.0646									
.251					-.5790	-.5180	-.5157	-.5062		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (5) = 11.890 BETA (1) = -3.888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4762						
.345									-.5388	
.382		-.1625								
.389			-.3838							
.400					-.5383	-.5065		-.5000		
.402				-.4983						
.418										-.5496
.429	-.1440									
.497		-.3695								
.503									-.5519	
.547	-.2086									
.550					-.4929	-.5044				
.565				-.4784						
.600								-.4902		
.623	-.4069									
.627			-.4706							
.650							-.4862			
.670									-.5087	
.700		-.4744				-.5041				
.723										-.4849
.726					-.4796					
.727	-.4145									
.750							-.4529	-.4783		
.760				-.3535						
.775					-.4686	-.4630				
.795	-.3874									
.798			-.2417							
.808				-.3964						
.834		-.1653								
.839			-.2810							
.850					-.4272	-.4513	-.4565			
.857				-.3856						
.862									-.5130	
.865		-.1410								
.879			-.2169							
.901		.0526			-.4060			-.4943		
.915				-.3067						
.919			-.2121							
.927					-.3721	-.3715	-.4228			
.933				-.2357						
.945			-.1694							
.959		-.0400								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8L08)

ALPHA = 11.88 BETA (2) = .146 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.0350	.2350	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0720	-.3702	-.3716	-.1037	.4229	.4779	.4727	.4094	-.3570	
.010		-.3198	-.3720		-.1795	-.0393	-.0964	-.2109		
.020		-.3143		.0000	-.2772	-.1802	-.2057	-.2639	-.5549	
.040			-.3523	-.3794						
.041	-.0907									
.060					-.4022	-.3410	-.3466	-.3810		
.089									-.5313	
.090					-.4782					
.091				-.4148						
.096			-.3249							
.094		-.3608								
.113	-.1320									
.160					-.5754	-.5381	-.5073	-.4925		
.157									-.5296	
.163			.0000							
.177				-.4371						
.189		-.4248								
.196			-.3970							
.217	-.1169									
.260					-.6131	-.5978	-.5669	-.5465		
.274				-.4684						
.298									-.5504	
.299		-.2971								
.300			-.4134							
.340					-.5727	-.5695		-.5374		
.342				-.5041						
.418										-.5533
.429	-.2034									
.437		-.4174								
.513									-.5632	
.520	-.2774									
.540					-.5535	-.5671				
.544				-.4780						
.600								-.5333		
.633	-.4185									
.654			-.4984							
.700							-.5281			
.720									-.5236	
.740		-.4339				-.5409				
.753										-.5009
.788					-.4852					
.797	-.4011									
.780							-.4967	-.5030		
.780				-.2523						
.776					-.4948	-.5017				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (5) = 11.897 BETA (2) = .146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2021									
.798			-.2376							
.808				-.2942						
.834		-.1646								
.839			-.2306							
.850					-.4368	-.4238	-.4802			
.857				-.2893						
.882									-.5274	
.885		-.1830								
.889			-.1898							
.901		-.0797			-.3486			-.5102		
.905				-.2848						
.918			-.0849							
.930					-.2822	-.3460	-.4185			
.933				-.3346						
.955			-.1481							
.968		-.0432								

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 TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1533	-.3940	-.4150	-.3151	.2435	.3032	.2945	.2345	-.4792	
.010		-.3890	-.4162		-.3205	-.1855	-.2378	-.3446		
.020		-.3983		.0000	-.3983	-.3137	-.3341	-.3858	-.5631	
.040			-.4207	-.3994						
.041	-.1832									
.060					-.4965	-.4391	-.4497	-.4771		
.069									-.5614	
.080					-.5539					
.081				-.4234						
.100			-.3914							
.101		-.4501								
.121	-.1724									
.122					-.5905	-.5926	-.5690	-.5589		
.141									-.5631	
.142			.0000							
.161				-.4279						
.162		-.5409								
.180			-.4319							
.181	-.2018									
.200					-.5874	-.6433	-.6250	-.6000		

DATE [illegible] FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (5) = [illegible] BETA (3) = 4.22

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.4196						
[illegible]									-.5729	
[illegible]		-.3930								
[illegible]			-.4220							
[illegible]					-.6030	-.6295		-.5907		
[illegible]				-.4711						
[illegible]										-.5696
[illegible]	-.2802									
[illegible]		-.3742								
[illegible]									-.5815	
[illegible]	-.2432									
[illegible]					-.5467	-.6250				
[illegible]				-.4914						
[illegible]								-.5743		
[illegible]	-.3901									
[illegible]			-.4741							
[illegible]							-.6029			
[illegible]									-.5571	
[illegible]		-.3763				-.5559				
[illegible]										-.5453
[illegible]					-.2829					
[illegible]	-.3752									
[illegible]							-.5443	-.5579		
[illegible]				-.2737						
[illegible]					-.3207	-.5337				
[illegible]	-.0560									
[illegible]			-.2568							
[illegible]				-.3163						
[illegible]		-.1936								
[illegible]			-.2503							
[illegible]					-.3089	-.5154	-.5164			
[illegible]				-.3067						
[illegible]									-.5514	
[illegible]		-.2411								
[illegible]			-.1687							
[illegible]		-.1635			-.3053			-.5311		
[illegible]				-.2451						
[illegible]			-.1644							
[illegible]					-.2852	-.3198	-.4251			
[illegible]				-.1904						
[illegible]			-.1620							
[illegible]		-.1684								

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

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 TOP SURF DEPENDENT VARIABLE CP

2Y BW / Y CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0460	-.3340	-.3138	-.0281	.4827	.5181	.5033	.4112	-.3550	
.010		-.2956	-.3000		-.1881	- 0618	-.1415	-.2911		
.020		-.2865		.0000	-.2883	-.2138	-.2602	-.3348	-.6058	
.040			-.2819	-.3475						
.041	-.1721									
.050					-.4150	-.3656	-.3939	-.4429		
.060									-.5747	
.080					-.4911					
.081				-.3786						
.086			-.2600							
.094		-.3027								
.113	-.0510									
.150					-.5874	-.5567	-.5396	-.5399		
.157									-.5728	
.163			.0000							
[illegible]				-.4006						
.209		-.3715								
.246			-.3722							
.247	-.0942									
.250					-.5672	-.5691	-.5552	-.5676		
.274				-.4473						
.345									-.5845	
.362		-.3892								
.390			-.4136							
.401					-.5595	- 5619		-.5614		
[illegible]				-.5122						
[illegible]										-.6082
[illegible]	-.1733									
[illegible]		-.4935								
.503									-.5939	
[illegible]	- 2579									
[illegible]					-.5687	-.5722				
[illegible]				-.5433						
[illegible]								-.5731		
[illegible]	-.4972									
[illegible]			-.5248							
[illegible]							-.5588			
[illegible]									-.5604	
[illegible]		-.5293				-.5703				
[illegible]										-.5319
[illegible]					-.5301					
[illegible]	-.5395									
[illegible]							-.5208	-.5566		
[illegible]				-.3317						
[illegible]					-.5426	-.5205				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU09)

ALPHA (6) = 15.905 BETA (1) = -3.663

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.703	-.3966									
.798			-.3091							
.808				-.3999						
.834		-.2641								
.870			-.3516							
[illegible]					-.4692	-.4954	-.5230			
[illegible]				-.4308						
[illegible]									-.5580	
.865		-.2254								
[illegible]			-.2674							
[illegible]		-.1958			-.4632			-.5777		
[illegible]				-.4450						
[illegible]			-.2471							
[illegible]					-.4215	-.4428	-.4932			
[illegible]				-.4105						
[illegible]			-.2693							
[illegible]		-.1653								

ALPHA (6) = 15.918 BETA (2) = .144 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.1515	-.3915	-.3723	-.2517	.3039	.3453	.3233	.2321	-.4661	
[illegible]		-.3753	-.3692		-.3237	-.2064	-.2719	-.3876		
[illegible]		-.3753		.0000	-.4019	-.3356	-.3697	-.4325	-.5778	
[illegible]			-.3673	-.3732						
[illegible]	-.3259									
[illegible]					-.4890	-.4546	-.4789	-.5169		
[illegible]									-.5792	
[illegible]					-.5585					
[illegible]				-.4168						
[illegible]			-.3361							
[illegible]		-.3970								
[illegible]	-.1410									
[illegible]					-.6124	-.6033	-.5906	-.5895		
[illegible]									-.5826	
[illegible]			.0000							
[illegible]				-.4639						
[illegible]		-.4388								
[illegible]			-.4468							
[illegible]	-.1949									
[illegible]					-.6018	-.6095	-.5906	-.6045		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (6) = 15.918 BETA (2) = .144

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2300	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.5038						
[illegible]									-.5945	
[illegible]		-.4829								
[illegible]			-.4729							
[illegible]					-.5905	-.6024		-.5947		
[illegible]				-.5488						
[illegible]										-.5958
[illegible]	-.2682									
[illegible]		-.5385								
[illegible]									-.6067	
[illegible]	-.3500									
[illegible]					-.5898	-.6081				
[illegible]				-.5294						
[illegible]								-.5877		
[illegible]	-.5096									
[illegible]			-.5292							
[illegible]							-.5964			
[illegible]									-.5690	
[illegible]		-.5127				-.6036				
[illegible]										-.5522
[illegible]					-.5302					
[illegible]	-.5255									
[illegible]							-.5532	-.5716		
[illegible]				-.3591						
[illegible]					-.5662	-.5455				
[illegible]	-.3202									
[illegible]			-.2812							
[illegible]				-.3813						
[illegible]		-.2340								
[illegible]			-.2495							
[illegible]					-.5482	-.4715	-.5398			
[illegible]				-.3812						
[illegible]									-.5670	
[illegible]		-.2522								
[illegible]			-.2285							
[illegible]		-.1532			-.5109			-.5761		
[illegible]				-.3767						
[illegible]			-.2798							
[illegible]					-.4576	-.4025	-.4858			
[illegible]				-.4031						
[illegible]			-.3074							
[illegible]		-.1781								

AMES 11-073 OA14[illegible] -140A/B/C/R ORB LEFT WING TOP (XEBUDB)

[illegible] 15.[illegible] BETA (3) = -.250 [illegible] = 1.[illegible] Q = 599.11 P = 439.94 RN/L = 2.9195

[illegible] TOP SURF DEPENDENT VARIABLE CP

[illegible]	.[illegible]	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.2462	-.4236	-.4487	-.4234	.1184	.1677	.1475	.0576	-.5440	
[illegible]		-.4276	-.4449		-.4361	-.3333	-.3915	-.4994		
[illegible]		-.4326		.0000	-.5035	-.4458	-.4736	-.5319	-.5698	
[illegible]			-.4460	-.4188						
[illegible]	-.4432									
[illegible]					-.5730	-.5407	-.5581	-.5917		
[illegible]									-.5674	
[illegible]					-.6134					
[illegible]				-.4435						
[illegible]			-.4069							
[illegible]		-.4601								
[illegible]	-.2311									
[illegible]					-.6171	-.6456	-.6373	-.6008		
[illegible]									-.5669	
[illegible]			.0000							
[illegible]				-.5096						
[illegible]		-.4974								
[illegible]			-.5155							
[illegible]	-.2783									
[illegible]					-.6288	-.6334	-.6171	-.5972		
[illegible]				-.5115						
[illegible]									-.5654	
[illegible]		-.5370								
[illegible]			-.4819							
[illegible]					-.6329	-.6284		-.5888		
[illegible]				-.5119						
[illegible]										-.5639
[illegible]	-.3517									
[illegible]		-.5148								
[illegible]									-.5760	
[illegible]	-.3858									
[illegible]					-.6315	-.6259				
[illegible]				-.5222						
[illegible]								-.5658		
[illegible]	-.4663									
[illegible]			-.4775							
[illegible]							-.5934			
[illegible]									-.5535	
[illegible]		-.4394				-.5974				
[illegible]										-.5441
[illegible]					-.4867					
[illegible]	-.4419									
[illegible]							-.5622	-.5530		
[illegible]				-.3879						
[illegible]					-.5030	-.5593				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U08)

ALPHA (6) = 15.908 BETA (3) = 4.250

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.0350	.2030	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XOC										
.793	- 2303									
.798			-.3016							
.808				-.3954						
.834		-.2408								
.839			-.3187							
.851					-.4840	-.4949	-.5475			
.857				-.3490						
.862									-.5485	
.866		-.2693								
.878			-.2290							
.901		-.2088			-.4910			-.5501		
.918				-.3713						
.919			-.2583							
.930					-.5066	-.4151	-.5286			
.952				-.3848						
.958			-.2782							
.965		-.2234								

ABLATED PRESSURE DATA - DA148 (AMES 11-073-1)

(REISSUED: 7 DEC 76)

-073 DA148) -140A/B/C/R OPB LEFT WING TOP

REFERENCE DATA

XMRP = 1078.6600 IN. XO
YMRP = 0000 IN. YO
ZMRP = 378.7100 IN. ZO

PARAMETRIC DATA

RUDDER = .000 SPOILR = 85.000
BDFLAP = 32.800 L-ELVN = .000
R-ELVN = .000 MACH = 1.260

ALPHA = +4.086 BETA (R) = -3.682 MACH = 1.2460 Q = 599.62 P = 551.60 PN/L = 3.0276

SOLUTION : LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2460	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
.000	-.2077	-.0317	-.1221	.2599	.6685	.5960	.5518	.5760	-.4419	
.010		-.0386	-.0166		.7317	.7038	.6650	.5927		
.020		-.0423		.0000	.6494	.6033	.5741	.5483	-.0550	
.040			.0403	.4127						
.060	-.1072				.4486	.3901	.3714	.3636	-.1157	
.080					.2581					
.100				.5920						
.120			.1619							
.140		-.0089								
.160	-.0621				.0118	.0071	.0249	.0435	-.2562	
.180										
.200			.0000							
.220				.0954						
.240		.0476								
.260			.0900							
.280	-.0070				-.1249	-.1479	-.1398	-.1603		
.300				-.0447					-.3001	
.320		.1357								
.340			-.0189		-.2838	-.3187		-.3979		
.360				-.2028						-.5133
.380	.0457									
.400		.0104							-.3433	
.420	.0667				-.1849	-.3699				
.440				.0105				-.4628		
.460	-.0512									
.480			.1430				-.4386			
.500									-.4333	

DATE 11 FEB 75 TABULATED PRESSURE (AMES 11-073-1) (XE8U09)

AMES 1' 140A/B/C/R ORB LEFT WING TOP

ALPHA (1) = -4.026 BETA (1) = -3.882

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.722		.1159				-.1282				-.4868
.723										
.725					.0621					
.727	-.0676						-.3091	-.4369		
.759				.0440						
.760					.1569	.0209				
.775										
.793	.3389									
.794			.0460							
.819				.1605						
.824		.0817								
.833			.1588							
.860					.1302	.0174	-.0573			
.861				.1234						
.862									-.3643	
.868		.0581								
.879			.1390							
.894		.1173			.0616			-.1218		
.895				.1030						
.896			.0574							
.911					.0946	.1517	.1619			
.912				.0589						
.913			.1053							
.930		.1656								

ALPHA (2) = -4.017 BETA (2) = .155 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.722	-.2276	-.0856	-.0755	.2289	.5925	.5057	.4590	.4742	r.5204	
.723		-.0774	-.0186		.6515	.6203	.5798	.5143		
.725		-.0867		.0000	.5767	.5241	.4988	.4766	-.1395	
.727			.0219	.3495						
.741	-.1787									
.742					.3962	.3348	.3134	.3090		
.743									-.1801	
.759					.2212					
.760				.2351						
.776			.1229							
.794		-.0330								
.793	-.1241									
.793					.0092	-.0145	.0010	.0235		

DATE 11 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U09)

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

ALPHA (1) = -4.017 BETA (2) = .155

SECTION 1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3121	
.163			.0000							
.177				.0849						
.229		.0197								
.246			.0643							
.247	-.0278									
.250					-.1230	-.1605	-.1604	-.1788		
.274				-.0455						
.345									-.3352	
.352		.1359								
.390			-.0285							
.400					-.2487	-.3103		-.3962		
.402				-.1988						
.418										-.5898
.429	.0280									
.447		-.0123								
.503									-.3674	
.547	.0464									
.550					.0056	-.3429				
.555				.1095						
.600								-.4526		
.633	-.0608									
.637			.1931							
.650							-.3827			
.670									-.4242	
.700		.1820				-.0471				
.723										-.5648
.725					.0782					
.727	.0889						-.0530	-.3442		
.750										
.760				.0260						
.775					.1090	.0360				
.793	.3352									
.798			.0192							
.808				.1064						
.834		.0502								
.839			.1015							
.850					.0909	-.0317	.0362			
.857				.0643						
.872									-.1701	
.878		.0018								
.879			.0082							
.900		.0786			.0102			-.0374		
.905				.0631						
.919			.0111							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (1) = -4.017 BETA (2) = .155

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0297	.0817	.1591			
.953				.0109						
.955			.0464							
.965		.1187								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2097	-.1059	-.0438	.2453	.5296	.4289	.3728	.3825	-.5730	
.010		-.1157	-.0047		.5725	.5326	.4920	.4308		
.020		-.1307		.0000	.5037	.4471	.4203	.3964	-.2206	
.040			.0182	.3004						
.041	-.2224									
.050					.3436	.2711	.2496	.2454		
.069									-.2514	
.080					.1814					
.081				.1991						
.086			.1082							
.094		-.0467								
.113	-.1737									
.150					-.0078	-.0457	-.0205	-.0104		
.157									-.3667	
.163			.0000							
.177				.0653						
.229		.0075								
.246			.0629							
.247	-.0314									
.250					-.1338	-.1812	-.1941	-.2116		
.274				-.0512						
.345									-.3748	
.362		.1336								
.390			-.0441							
.400					-.2482	-.3077		-.4056		
.402				-.1984						
.418										-.6374
.429	.0262									
.437		-.0352								
.503									-.3863	
.547	.0379									
.550					.0653	-.0755				
.565				.1491						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (1) = -4.025 BETA (3) = 4.236

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.4498		
.633	-.0763									
.637			.2056							
.650							-.1298			
.670									-.2760	
.700		.2000				.0088				
.723										-.5359
.725					.0706					
.727	.1195									
.750							-.0030	-.1586		
.760				.0060						
.775					.0686	.0191				
.793	.3287									
.799			-.0003							
.808				.0648						
.834		.0326								
.839			.0606							
.850					.0588	-.0712	.0135			
.857				.0174						
.862									-.1105	
.885		-.0354								
.879			.0322							
.900		.0391			.0237			.1212		
.905				.0150						
.919			-.0267							
.950					-.0261	.0115	.1153			
.971				-.0217						
.985			-.0119							
.965		.0608								

ALPHA (2) = .013 BETA (1) = -3.903 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0363	.0072	-.0005	.4149	.7134	.6630	.6273	.6416	-.2587	
.010		-.0057	.0240		.5720	.5971	.5616	.4672		
.020		-.0338		.0000	.4653	.4512	.4358	.4087	-.0632	
.040			.0504	.2442						
.041	-.0306									
.081					.2435	.2019	.1944	.1966		
.098									-.1400	
.040					.0458					

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DATE 1. FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U09)

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

ALPHA (2) = .013 BETA (1) = -3.903

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
				.1194						
			.1094							
		-.0918								
	-.0627				-.1597	-.1571	-.1416	-.1144		
									-.3214	
			.0000							
				-.0787						
		-.0109								
			-.0333							
	-.0774				-.2731	-.3278	-.3195	-.3078		
				-.1961						
									-.3825	
		.0826								
			-.1546							
					-.3793	-.4583		-.5001		
				-.3318						
										-.2630
	.0029									
		-.0992								
									-.4410	
	-.0073									
					-.4019	-.4969				
				-.3082						
								-.5308		
	-.1492									
			-.1820							
							-.5419			
									-.5375	
		-.2163				-.3471				
										-.2697
					-.1068					
	-.2215									
							-.5549	-.5292		
				-.0582						
					.0030	-.2069				
	.1763									
			-.0360							
				.1311						
		.0295								
			.1276							
					.0746	-.1281	-.2816			
				.0985						
									-.5067	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (B) = .013 BETA (1) = -3.903

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Sw	.0350	.2030	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/ Cw										
.016		.0277								
.029			.1011							
.043		0711			.0499			-.4275		
.056				.0707						
.070			.0416							
.083					.0746	.0300	-.1586			
.097				.0402						
.110			.0652							
.124		.1097								

ALPHA (B) = .017 BETA (2) = .152 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Sw	.0350	.2030	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/ Cw										
.000	- 1102	-.0643	-.0300	.3629	.6354	.5757	.5361	.5424	-.3153	
.013		-.0997	-.0081		.4813	.5091	.4717	.3856		
.027		-.1204		.0000	.3880	.3726	.3566	.3328	-.1360	
.040			.0103	.1710						
.054	-.1580									
.067					.1847	.1432	.1382	.1353		
.081									-.2064	
.094					.0064					
.108				.0677						
.121			.0672							
.135		-.1417								
.148	-.1408									
.162					-.1753	-.1884	-.1751	-.1435		
.175									-.3640	
.189			.0000							
.202				-.0857						
.216		-.0271								
.229			-.0522							
.243	-.1239									
.256					-.2758	-.3350	-.3378	-.3279		
.270				-.1850						
.283									-.4051	
.297		.0615								
.310			-.1532							
.324					-.3726	-.4581		-.5117		
.337				-.3307						
.351										-.1818
.364	-.2116									

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U09)

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

ALPHA (2) = .017 BETA (2) = .152

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1211							-.4378	
.503										
.547	-.0250									
.550					-.3825	-.4755				
.585				-.2345						
.600								-.5350		
.633	-.1633									
.647			-.0401							
.650							-.5449			
.670									-.5204	
.700		-.0911				-.2297				
.703										-.3266
.715					-.0998					
.727	-.2063						-.4508	-.5246		
.750				-.0728						
.770					.0321	-.1534				
.773	.2054									
.798			-.0542							
.818				.0701						
.824		-.0123								
.833			.0555							
.847					.0607	-.0786	-.2630			
.867				.0343						
.882									-.4705	
.885		-.0395								
.879			.0281							
.900		.0023			.0023			-.2276		
.905				.0169						
.919			-.0113							
.930					.0088	.0167	-.1336			
.953				-.0079						
.955			.0078							
.965		.0324								

DATE [illegible] FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA [illegible] = [illegible]13 BETA (3) = 4.217 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.1190	-.1602	-.0904	.3168	.5720	.5001	.4543	.4570	-.2186	
[illegible]		-.1991	-.0581		.3952	.4147	.3776	.2929		
[illegible]		-.2041		.0000	.3077	.2882	.2680	.2444	-.1840	
[illegible]			-.0193	.1377						
[illegible]	-.2018									
[illegible]					.1285	.0841	.0710	.0667		
[illegible]									-.2441	
[illegible]					-.0294					
[illegible]				.0428						
[illegible]			.0400							
[illegible]		-.1616								
[illegible]	-.1960									
[illegible]					-.1880	-.2246	-.2165	-.1865		
[illegible]									-.3896	
[illegible]			.0000							
[illegible]				-.0807						
[illegible]		-.0373								
[illegible]			-.0496							
[illegible]	-.1323									
[illegible]					-.2817	-.3415	-.3552	-.3568		
[illegible]				-.1797						
[illegible]									-.4129	
[illegible]		.0621								
[illegible]			-.1545							
[illegible]					-.3636	-.4521		-.5240		
[illegible]				-.3239						
[illegible]										-.2202
[illegible]	-.0051									
[illegible]		-.1249								
[illegible]									-.4466	
[illegible]	-.0276									
[illegible]					-.2464	-.4597				
[illegible]				-.0979						
[illegible]								-.5426		
[illegible]	-.1779									
[illegible]			.0005							
[illegible]							-.5305			
[illegible]									-.5185	
[illegible]		-.0147				-.2139				
[illegible]										-.4405
[illegible]					-.0693					
[illegible]	-.1349									
[illegible]							-.3254	-.3866		
[illegible]				-.0768						
[illegible]					.0292	-.0843				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (2) = .013 BETA (3) = 4.217

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ BM	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/ CM										
[illegible]	.2053									
[illegible]			-.0585							
[illegible]				.0239						
[illegible]		-.0333								
[illegible]			.0073							
[illegible]					.0343	-.0655	-.1379			
[illegible]				-.0151						
[illegible]									-.3112	
[illegible]		-.0705								
[illegible]			-.0203							
[illegible]		-.0376			-.0366			-.1683		
[illegible]				-.0331						
[illegible]			-.0599							
[illegible]					-.0436	-.0209	.0062			
[illegible]				-.0491						
[illegible]			-.0499							
[illegible]		-.0372								

ALPHA (3 = 3.907 BETA (1) = -3.907 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECT ON (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ BM	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/ CM										
[illegible]	-.0104	-.0056	-.1087	.3954	.7282	.7043	.6804	.6633	.0395	
[illegible]		-.0607	-.1197		.3462	.4410	.4021	.2744		
[illegible]		-.0979		.0000	.2354	.2653	.2484	.2071	-.1349	
[illegible]			-.0904	.0325						
[illegible]	-.0819									
[illegible]					.0210	.0193	.0084	-.0100		
[illegible]									-.1882	
[illegible]					-.1501					
[illegible]				-.0907						
[illegible]			-.0228							
[illegible]		-.1414								
[illegible]	-.0733									
[illegible]					-.3484	-.3422	-.2994	-.2609		
[illegible]									-.3883	
[illegible]			.0000							
[illegible]				-.2407						
[illegible]		-.1070								
[illegible]			-.1438							
[illegible]	-.1041									
[illegible]					-.4517	-.4827	-.4624	-.4263		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J09)

ALPHA (R) = 3.907 BETA (R) = -3.907

(2101 (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.0300	.2030	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
				-.3321						
									-.4671	
		-.0028								
			-.2653							
					-.5026	-.5941		-.5925		
				-.4259						
										-.2322
	-.0502									
		-.1484								
									-.5606	
	-.0814									
					-.5082	-.6270				
				-.4048						
								-.6041		
	-.2520									
			-.3563							
							-.6120			
									-.6866	
		-.3325				-.5803				
										-.5910
					-.1828					
	-.3039									
							-.4689	-.4922		
				-.1426						
					-.1909	-.2319				
	-.0049									
			-.1295							
				-.0163						
		-.0292								
			.0643							
					-.1414	-.1969	-.3999			
				.0212						
									-.7419	
		-.0282								
			.0590							
		.0884			-.0826			-.3413		
				.0341						
			.0293							
					.0152	-.1600	-.3087			
				.0376						
			.0326							
		0396								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (3) = 3.907 BETA (2) = .148 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.1497	-.2918	.2735	.6333	.6148	.5922	.5699	-.0328	
[illegible]	-.2107	-.2379		.2335	.3391	.3046	.1809		
[illegible]	-.2044		.0000	.1501	.1822	.1635	.1151	-.2094	
[illegible]		-.1449	-.0329						
[illegible]				-.0305	-.04.1	-.0555	-.0756		
[illegible]								-.2541	
[illegible]				-.1869					
[illegible]			-.1311						
[illegible]		-.0625							
[illegible]	-.2159								
[illegible]				-.3516	-.3674	-.3332	-.2985		
[illegible]								-.4283	
[illegible]		.0000							
[illegible]			-.2353						
[illegible]	-.1069								
[illegible]		-.1529							
[illegible]				-.4326	-.4912	-.4810	-.4545		
[illegible]			-.3131						
[illegible]								-.4956	
[illegible]	-.0157								
[illegible]		-.2574							
[illegible]				-.4781	-.5860		-.6077		
[illegible]			-.4166						
[illegible]									-.3703
[illegible]	-.0569								
[illegible]	-.2013								
[illegible]								-.5776	
[illegible]	-.0943								
[illegible]				-.4932	-.6001				
[illegible]			-.3876						
[illegible]							-.6245		
[illegible]	-.0961								
[illegible]		-.2710							
[illegible]						-.6194			
[illegible]								-.6849	
[illegible]	-.3309				-.3450				
[illegible]									-.7199
[illegible]				-.2152					
[illegible]	-.3021								
[illegible]						-.4589	-.4722		
[illegible]			-.1744						
[illegible]				-.1982	-.2418				

AMES 11-073:0A148: -140A/B/C/R 07B LEFT WING TOP (XEBUJS)

ALPHA = 3.907 BETA (2) = .148

... LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.1640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	.1143									
			-.1228							
				-.0487						
		-.0489								
			-.0182							
					-.0957	-.2368	-.3882			
				-.0237						
									-.7442	
		-.1220								
			-.0163							
		-.0097				-.0640		-.3226		
				-.0222						
			-.0242							
					-.0084	.1475	-.3162			
				-.0251						
			-.0287							
		-.0428								

ALPHA = 3.911 BETA (3) = 4.207 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0E7B

... LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.1640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.0704	-.1243	-.3.60	.1498	.5411	.5237	.5053	.4753	-.1372	
		-.3490	-.2837		.1367	.2280	.1859	.0583		
		-.3888		.0000	.0888	.0822	.0609	.0012	-.3743	
			-.2886	-.0760						
	-.1854									
					-.0889	-.1116	-.1320	-.1630		
									-.3337	
					-.2180					
				-.1407						
			-.1817							
		-.279.								
	-.1081									
					-.3873	-.4036	-.3784	-.3549		
									-.4759	
			0000							
				-.2987						
		-.1181								
			-.1335							
	-.2.28									
					-.4149	-.5094	-.5087	-.4905		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R GRB LEFT WING TOP (XEBUD9)

ALPHA 3 = 3.911 E 3 = 4.207

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/[illegible]	.0750	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.2923						
[illegible]									-.5419	
[illegible]		-.0067								
[illegible]			-.2371							
[illegible]					-.4685	-.5929		-.6261		
[illegible]				-.4046						
[illegible]										-.5938
[illegible]	-.0528									
[illegible]		-.2002								
[illegible]									-.6083	
[illegible]	-.0922									
[illegible]					-.4571	-.5733				
[illegible]				-.3297						
[illegible]								-.6191		
[illegible]	-.2743									
[illegible]			-.2089							
[illegible]							-.6164			
[illegible]									-.6910	
[illegible]		-.3033				-.2859				
[illegible]										-.7548
[illegible]					-.2097					
[illegible]	-.2939									
[illegible]							-.4624	-.4361		
[illegible]				-.1582						
[illegible]					-.1426	-.2453				
[illegible]	.1401									
[illegible]			-.1106							
[illegible]				-.0633						
[illegible]		-.0707								
[illegible]			-.0466							
[illegible]					-.0541	-.2327	-.3614			
[illegible]				-.0734						
[illegible]									-.7006	
[illegible]		-.1395								
[illegible]			-.0631							
[illegible]		-.0616			-.0687			-.2877		
[illegible]				-.0735						
[illegible]			-.0679							
[illegible]					-.0481	-.0952	-.1850			
[illegible]				-.0791						
[illegible]			-.0796							
[illegible]		-.1044								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU09)

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 TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	.0459	-.1201	-.3518	.2084	.6370	.6589	.6565	.6105	-.0900	
.010		-.2150	-.3699		.0349	.1856	.1413	.0012		
.020		-.1965		.0000	-.0764	.0104	.0026	-.0743	-.3940	
.040			-.2729	-.2496						
.041	-.0759									
.050					-.2510	-.2058	-.2171	-.2552		
.069									-.4124	
.080					-.3851					
.081				-.3700						
.086			-.1993							
.094		-.1848								
.113	-.0706									
.150					-.5537	-.5075	-.4797	-.4485		
.157									-.5543	
.163			.0000							
.177				-.4780						
.199		-.1786								
.246			-.3027							
.247	-.1099									
.250					-.6292	-.6200	-.5983	-.5619		
.274				-.4483						
.345									-.5753	
.367		-.1392								
.390			-.3548							
.400					-.6571	-.6977		-.5667		
.402				-.5045						
.418										-.5803
.429	-.1568									
.497		-.2903								
.503									-.5856	
.547	-.1576									
.550					-.5631	-.6241				
.555				-.4741						
.600								-.5503		
.633	-.3421									
.637			-.4507							
.650							-.5498			
[illegible]									-.5297	
[illegible]		-.4286				-.5569				
[illegible]										-.5183
[illegible]					-.3325					
[illegible]	-.3659									
[illegible]							-.5061	-.5029		
[illegible]				-.2261						
[illegible]					-.3279	-.4527				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (4) = 7.933 BETA (1) = -3.903

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.793	-.2187									
[illegible]			-.1778							
[illegible]				-.1670						
[illegible]		-.0525								
[illegible]			-.0505							
[illegible]					-.2325	-.4112	-.4752			
[illegible]				-.0924						
[illegible]									-.5230	
[illegible]		-.0895								
[illegible]			-.0140							
[illegible]		.1025			-.1913			-.4838		
[illegible]				-.0500						
[illegible]			.0364							
[illegible]					-.1223	-.3431	-.4063			
[illegible]				-.0282						
[illegible]			.0533							
[illegible]		.0171								

ALPHA (4) = 7.889 BETA (2) = .143 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.0121	-.3372	-.5562	-.0296	.4942	.5419	.5422	.4900	-.2702	
[illegible]		-.4039	-.5137		-.0973	.0607	.0124	-.1188		
[illegible]		-.3733		.0000	-.2042	-.0609	-.1047	-.1807	-.5218	
[illegible]			-.4143	-.3843						
[illegible]	-.1325									
[illegible]					-.3350	-.2861	-.2967	-.3406		
[illegible]									-.5163	
[illegible]					-.4263					
[illegible]				-.3206						
[illegible]			-.3145							
[illegible]		-.2605								
[illegible]	-.[illegible]578									
[illegible]					-.5523	-.5431	-.5207	-.4974		
[illegible]									-.5760	
[illegible]			.0000							
[illegible]				-.3756						
[illegible]		-.2459								
[illegible]			-.2767							
[illegible]	-.1774									
[illegible]					-.6058	-.6372	-.6232	-.5969		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (W') = 7.889 BETA (Z) = .143

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y ZW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.074				-.4046						
.345									-.6030	
.382		-.1221								
.390			-.3467							
.400					-.5748	-.7109		-.6021		
.429				-.4708						
.438										-.6113
.439	-.1559									
.441		-.2892								
.503									-.6045	
.547	-.1555									
.550					-.5364	-.8544				
.565				-.4727						
.600								-.5765		
.633	-.3469									
.637			-.4718							
.650							-.5816			
.653									-.5557	
.700		-.4172				-.5357				
.723										-.5380
.725					-.2362					
.727	-.3531									
.750							-.5252	-.4965		
.760				-.2066						
.775					-.2561	-.4117				
.793	-.0296									
.798			-.1854							
.818				-.1704						
.834		-.0736								
.839			-.0827							
.850					-.2174	-.3803	-.4933			
.867				-.1523						
.879									-.5357	
.900		-.1534								
.879			-.0519							
.901		-.0267			-.1891			-.4630		
.905				-.1169						
.919			-.0125							
.931					-.1194	-.2615	-.4305			
.947				-.1005						
.951			-.0159							
.971		-.0569								

AMES 11-073(OA148) -1¥0A/B/C/R ORB LEFT WING TOP (XE8U09)

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 TOP SURF DEPENDENT VARIABLE CP

Z/CR	.2350	.2940	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CR										
.000	-.0659	-.5404	-.5116	-.1939	.3652	.4197	.4142	.3548	-.4712	
.010		-.4650	-.4973		-.2111	-.0644	-.1227	.2506		
.020		-.4781		.0000	-.2919	-.2003	-.2189	.3013	-.6107	
.040			-.4637	-.2291						
.041	-.1796									
.050					-.3948	-.3640	-.3778	-.4339		
.060									-.6018	
.080					-.4628					
.081				-.2689						
.086			-.4118							
.094		-.5025								
.113	-.2145									
.160					-.5578	-.5769	-.5633	-.5530		
.157									-.6030	
.163			.0000							
.177				-.3046						
.188		-.2576								
.245			-.3617							
.247	-.2360									
.250					-.5027	-.6513	-.6604	-.6350		
.274				-.3611						
.345									-.6265	
.362		-.0319								
.390			-.2626							
.400					-.5116	-.6992		-.6510		
.402				-.4663						
.418										-.6221
.420	-.1381									
.422		-.2445								
.506									-.6255	
.507	-.1371									
.540					-.5150	-.6572				
.566				-.4845						
.603								-.6189		
.643	-.3572									
.644			-.4264							
.650							-.6163			
.700									-.5964	
.701		-.3933				-.5021				
.743										-.5825
.748					-.2498					
.749	-.3658									
.750							-.5493	-.5222		
.757				-.2035						
.775					-.2180	-.3126				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (A) = 7.857 BETA (B) = 4.208

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.783	.0432									
.784			-.1729							
.808				-.1764						
.834		-.1349								
.839			-.1147							
.850					-.1223	-.2427	-.4901			
.867				-.1532						
.882									-.5837	
.886		-.1998								
.879			-.1154							
.900		-.0802			-.1209			-.4672		
.905				-.1433						
.919			-.1032							
.940					-.1146	-.1381	-.4077			
.953				-.0959						
.955			-.1137							
.965		-.1150								

ALPHA (S) = 11.893 BETA (I) = -3.885 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0419	-.3294	-.4957	-.0056	.5088	.5460	.5337	.4413	-.3722	
.010		-.3974	-.4616		-.1897	-.0482	-.1339	-.2865		
.020		-.3857		.0000	-.3015	-.2074	-.2593	-.3514	-.5806	
.040			-.3804	-.4514						
.041	-.0684									
.060					-.4519	-.3985	-.4217	-.4861		
.069									-.5787	
.080					-.5497					
.099				-.5232						
.099			-.3042							
.094		-.2639								
.113	-.0837									
.120					-.6805	-.6411	-.6194	-.6146		
.141									-.5847	
.141			.0000							
.144				-.6051						
.170		-.2312								
.196			-.3834							
.197	-.1178									
.210					-.7019	-.6390	-.5964	-.5795		

AMES 11-073(OA142) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (5) = 11.893 BETA (1) = -3.885

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZWSW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.874				-.5838						
.945									-.5949	
.382		-.2014								
.392			-.4813							
.400					-.6757	-.6395		-.6108		
.402				-.5850						
.418										-.5931
.433	-.1950									
.437		-.4593								
.503									-.5949	
.647	-.2925									
.660					-.6322	-.6137				
.666				-.5673						
.677								-.5880		
.683	-.4721									
.687			-.5352							
.690							-.5753			
.693									-.5457	
.700		-.5304				-.5839				
.703										-.5297
.706					-.5661					
.713	-.4517									
.721							-.5383	-.5733		
.731				-.3388						
.744					-.5574	-.5549				
.763	-.2043									
.789			-.2459							
.828				-.3615						
.834		-.0851								
.839			-.2061							
.850					-.4784	-.4629	-.5162			
.867				-.3035						
.887									-.5433	
.896		-.1049								
.899			-.1643							
.903		.0264			-.4555			-.5570		
.908				-.2121						
.919			-.1884							
.951					-.3899	-.3864	-.4379			
.963				-.1308						
.965			-.1991							
.986		-.0675								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

ALPHA (S) = 11.849 BETA (2) = .145 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0325	-.4806	-.4739	-.2117	.3347	.3828	.3655	.2691	-.5300	
.010		-.4229	-.4639		-.3390	-.1994	-.2871	-.4341		
.020		-.4067		.0000	-.4272	-.3472	-.3958	-.4777	-.6399	
.040			-.4499	-.4868						
.041	-.1397									
.060					-.5627	-.5047	-.5338	-.5877		
.069									-.6135	
.080					-.6386					
.081				-.5057						
.086			-.4230							
.094		-.4637								
.113	-.1817									
.150					-.7399	-.7020	-.6813	-.6817		
.157									-.6094	
.163			.0000							
.177				-.4909						
.229		-.5333								
.246			-.4703							
.247	-.1735									
.250					-.7245	-.7144	-.6519	-.6688		
.274				-.5124						
.345									-.6075	
.362		-.3719								
.390			-.4535							
.400					-.7003	-.7168		-.6631		
.402				-.5205						
.418										-.6010
.429	-.2611									
.497		-.4096								
.503									-.6065	
.547	-.2616									
.550					-.6794	-.6947				
.565				-.5205						
.600								-.6251		
.632	-.4546									
.637			-.5659							
.650							-.6076			
.670									-.5072	
.700		-.4794				-.6161				
.723										-.5727
.725					-.4341					
.727	-.4381									
.750							-.5496	-.5910		
.760				-.2335						
.775					-.3947	-.5569				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU09)

ALPHA (F) = 11.849 BETA (2) = .145

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.1474									
[illegible]			-.2524							
[illegible]				-.2724						
[illegible]		-.1354								
[illegible]			-.2147							
[illegible]					-.2949	-.4769	-.4979			
[illegible]				-.2280						
[illegible]									-.5758	
[illegible]		-.1846								
[illegible]			-.1354							
[illegible]		-.0661			-.2526			-.5770		
[illegible]				-.2943						
[illegible]			-.0758							
[illegible]					-.2104	-.3684	-.4544			
[illegible]				-.2621						
[illegible]			-.0987							
[illegible]		-.0536								

ALPHA (5) = 11.849 BETA (3) = -.220 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.1056	-.5191	-.5269	-.4401	.1476	.1902	.1829	.0873	-.6459	
[illegible]		-.5064	-.5286		-.4892	-.3649	-.4268	-.5467		
[illegible]		-.5000		.0000	-.5665	-.4952	-.5220	-.5933	-.6198	
[illegible]			-.5317	-.4339						
[illegible]	-.2145									
[illegible]					-.6619	-.6122	-.6300	-.6757		
[illegible]									-.6144	
[illegible]					-.6922					
[illegible]				-.4270						
[illegible]			-.5002							
[illegible]		-.5748								
[illegible]	-.2363									
[illegible]					-.6952	-.7439	-.7063	-.6965		
[illegible]									-.6048	
[illegible]			.0000							
[illegible]				-.4557						
[illegible]		-.6749								
[illegible]			-.4872							
[illegible]	-.2704									
[illegible]					-.5637	-.7098	-.6813	-.7010		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U09)

BETA = 4.220

LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
				-.4691						
		-.3610							-.5957	
			-.5628							
					-.6362	-.6862		-.6210		
				-.5295						
										-.5970
	-.2871									
		-.3755								
									-.5996	
	-.2223									
					-.5810	-.6517				
				-.5493						
								-.6092		
	-.4202									
			-.5136							
							-.6367			
									-.5988	
		-.4152				-.5831				
										-.5756
					-.2445					
	-.4153									
							-.5997	-.5868		
				-.2718						
					-.3004	-.5293				
	-.0387									
			-.2359							
				-.3120						
		-.2200								
			-.1636							
					-.2800	-.5383	-.5770			
				-.2733						
									-.5728	
		-.2700								
			-.1638							
		-.1254			-.3192			-.5792		
				-.2073						
			-.1073							
					-.3792	-.1922	-.4802			
				-.1972						
			-.1040							
		-.0965								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10) (05 AUG 75)

REFERENCE DATA

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000
BDFLAP = 22.500 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (1) = -4.037 BETA (1) = -3.883 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0050	.2890	.3840	.4270	.5340	.6730	.7830	.8870	.9720	1.0000
	-.6844	-.1343	-.1614	.2576	.5895	.5169	4649	.4879	-.6272	
		-.0817	-.0448		.7164	.6807	.6448	.5671		
		-.0541		.0000	.6372	.6666	.5606	.5221	-.1412	
	-.1544		.0400	.4629						
					.4378	.3789	.3577	.3356		
									-.2039	
					.2447					
				.3566						
			.2484							
		-.0185								
	-.1196									
					.0217	-.0045	.0000	-.0100		
									-.3611	
			.0000							
				.0755						
		.0212								
			.1713							
	.0006									
					-.1492	-.2134	-.2340	-.2661		
				-.0340						
									-.3719	
		.1972								
			-.0141							
					-.0654	-.2246		-.4803		
				-.1366						
										-.7192
		.0164								
									-.4063	
					.0836	-.0613				
				.1823						
								-.2437		
	-.0184									
			.2889							
							-.1830			
									-.1960	

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

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

BETA = [illegible]

LEFT WING TOP SURF — DEPENDENT VARIABLE CP

[illegible]	[illegible]	.3540	.4270	.5340	.6730	.7600	.8870	.9720	1.0000	
	[illegible]				-.0585				-.6609	
				-.0115						
.2197						-.1032	-.1309			
			-.0535	.0135	-.0383					
[illegible]		-.0601	.0501							
	-.0185	.0768		.0020	-.1272	-.0005				
			.0306					.0120		
	[illegible]	.0384								
	.0183		-.0107	-.0358			.1097			
		-.0292		.0720	.1280	.1548				
			.0294							
	.0910	.0534								

ALPHA = -4.035 BETA (2) = .155 MACH = 1.0977 Q = 598.52 P = 729.53 RN/L = 3.1914

LEFT WING TOP SURF — DEPENDENT VARIABLE CP

.0950	.2990	.3540	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.4478	.3835	.3956	-.7087	
	[illegible]	[illegible]		.5576	[illegible]	.5913	.5287		
	[illegible]		[illegible]	.5888	[illegible]	.5274	.4910	-.2149	
		.0459	[illegible]						
-.2481									
				.4163	.3576	.35[illegible]	.3313	-.2569	
				[illegible]					
			.3326						
		.2105							
	[illegible]								
-.1353									
				.0298	.0264	.0379	.0101		

AMES 11-073(DA148) -140A/B/C/R ORB LEFT WING TOP (XE8U10)

ALPHA (1) = -4.035 BETA (2) = .155

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
									-.3623	
			.0000	.1015						
		.0157								
			.1655							
	-.0186				-.1184	-.1638	-.1799	-.2297		
				-.0127						
									-.2980	
		.1886								
			.0090		.0449	-.0488		-.3057		
				-.0316						
										-.7970
		.0436								
									-.3107	
					.0694	-.0721				
				.674						
								-.3072		
			.2101							
							-.1992			
		.8397							-.2531	
						-.0915				
					-.0317					-.7097
							-.1463	-.1991		
				-.0624						
					-.0862	-.1254				
			-.0721							
				-.0087						
		-.0414								
			.0390							
					-.0449	-.1789	-.0934			
				-.0283						
									-.0342	
		-.0437								
			-.0160							
		-.0381			-.1079			.0280		
				-.0610						
			-.0991							

[illegible] PRESSURE [illegible] AMES [illegible] PAGE 3397

[illegible] LEFT WING TOP [illegible]

[illegible] DEPENDENT VARIABLE OF

[illegible]	[illegible]	[illegible]	[illegible]	.6340	.6730	.7800	.8970	.9720	1.0000
				-.0569	-.0228	.0665			
			-.0848						
		-.0319							
	[illegible]								

[illegible] BETA [illegible] = [illegible] MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

LEFT WING TOP SURF DEPENDENT VARIABLE OF

[illegible]	[illegible]	[illegible]	[illegible]	.6340	.6730	.7800	.8970	.9720	1.0000
[illegible]	[illegible]	-.0565	.3149	.4976	.3718	.2967	.3018	-.7803	
	[illegible]	[illegible]		.5985	.5493	.5045	.4506		
	[illegible]		.0000	.5386	.4794	.4469	.4137	-.3065	
		.0619	.3669						
-.3115									
				.3764	.3161	.2873	.2722		
								-.3233	
				.2221					
			.3135						
		.2183							
	-.0670								
-.3479									
				.0440	.0149	.0007	-.0160		
								-.3828	
		.0000							
			.1244						
	[illegible]								
		.1720							
-.0402									
				-.7800	-.1646	-.1809	-.2130		
			.0175						
								-.3362	
	.1036								
		.0257							
				.0356	-.0486		-.3089		
			-.0448						
									-.4302
[illegible]									
	.0533								
								-.3173	
[illegible]									
				.0471	-.0815				
			.1416						

AMES 11-073(OA148) -140A B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA (1) = -4.042 BETA (3) = 4.235

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY PW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]								-.3302		
[illegible]	.0495									
[illegible]			.1796							
[illegible]							-.2177			
[illegible]									-.2350	
[illegible]		.2089				-.1237				
[illegible]										-.3908
[illegible]					-.0610					
[illegible]	.1842									
[illegible]							-.1879	-.2353		
[illegible]				-.1119						
[illegible]					-.0725	-.1607				
[illegible]	.2990									
[illegible]			-.1022							
[illegible]				-.0633						
[illegible]		-.0727								
[illegible]			-.0585							
[illegible]					-.0913	-.2257	-.1670			
[illegible]				-.1085						
[illegible]									-.0320	
[illegible]		-.1413								
[illegible]			-.0781							
[illegible]		-.0868			-.1732			-.0268		
[illegible]				-.1148						
[illegible]			-.1598							
[illegible]					-.1417	-.1292	-.0208			
[illegible]				-.1569						
[illegible]			-.1203							
[illegible]		-.0791								

ALPHA (2) = .020 BETA (1) = -3.899 MACH = 1.0995 Q = 558.85 P = 707.54 PN/L = 3.1885

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY PW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.624	-.0515	-.0163	.4482	.6733	.6077	.5693	.5805	-.3957	
[illegible]		-.0766	.0008		.5669	.5697	.5237	.4076		
[illegible]		-.1041		.0000	.4545	.4232	.3886	.3483	-.1625	
[illegible]			.0499	.2815						
[illegible]	-.1640									
[illegible]					.2158	.1596	.1352	.1149		
[illegible]									-.2439	
[illegible]					.0171					

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U10)

[illegible] = .020 BETA [illegible] = -3.899

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	[illegible]	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				.1310						
[illegible]			.1407							
[illegible]		-.1055								
[illegible]	-.1215									
[illegible]					-.2223	-.2628	-.2384	-.2195		
[illegible]									-.4540	
[illegible]			.0000							
[illegible]				-.0803						
[illegible]		-.0291								
[illegible]			.0102							
[illegible]	-.0952									
[illegible]					-.3414	-.4106	-.4337	-.4379		
[illegible]				-.2296						
[illegible]									-.4950	
[illegible]		.0944								
[illegible]			-.1858							
[illegible]					-.4624	-.5645		-.6527		
[illegible]				-.3997						
[illegible]										-.1673
[illegible]	.0568									
[illegible]		-.1132								
[illegible]									-.5469	
[illegible]	.0204									
[illegible]					-.0910	-.4556				
[illegible]				.0182						
[illegible]								-.6331		
[illegible]	-.2077									
[illegible]			.1029							
[illegible]							-.5767			
[illegible]									-.3683	
[illegible]		.0951				-.1501				
[illegible]										-.3915
[illegible]					-.0444					
[illegible]	.0175									
[illegible]							-.1170	-.2838		
[illegible]				-.0897						
[illegible]					.0039	-.0739				
[illegible]	[illegible]									
[illegible]			-.0915							
[illegible]				.0337						
[illegible]		-.0458								
[illegible]			.0503							
[illegible]					.0022	-.0324	.0995			
[illegible]				.0065						
[illegible]									-.1902	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA (2) = .020 BETA (1) = -3.899

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.805		-.0234								
.870			.0076							
.900		-.0260			-.0082			-.1376		
.905				-.0299						
.919			-.0411							
.940					.0742	.1241	.1784			
.953				.0239						
.955			.0049							
.965		.0406								

ALPHA (2) = .025 BETA (2) = .152 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1922	-.1334	-.0411	.4146	.6128	.5303	.4988	.5108	-.2268	
.010		-.1743	-.0221		.4800	.4859	.4513	.3585		
.030		-.1990		.0000	.3926	.3443	.3190	.2986	-.1567	
.040			.0189	.2291						
.041	-.2355									
.050					.1727	.1071	.0834	.0801		
.060									-.2225	
.080					-.0166					
.091				.0955						
.096			.1097							
.094		-.1227								
.113	-.1944									
.130					-.2280	-.2622	-.2476	-.2221		
.160									-.4388	
.183			.0000							
.177				-.1040						
.219		-.0371								
.246			-.0101							
.254	-.1049									
.270					-.3261	-.3627	-.4274	-.4387		
.280				-.2222						
.295									-.4572	
.300		.0790								
.340			-.1872							
.400					-.4394	-.5294		-.6199		
.410				-.3784						
.470										-.1765
.470	.0470									

AMES 11-073(CA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA [illegible] = .025 BETA [illegible] = .152

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]		-.1193								
[illegible]									-.5099	
[illegible]	-.0027									
[illegible]					-.0104	-.1565				
[illegible]				.0709						
[illegible]								-.5959		
[illegible]	-.2106									
[illegible]			.1162							
[illegible]							-.1798			
[illegible]									-.3456	
[illegible]		.1266				-.1167				
[illegible]										-.4420
[illegible]					-.0512					
[illegible]	.0844									
[illegible]							-.0913	-.1333		
[illegible]				-.1019						
[illegible]					-.0397	-.1086				
[illegible]	.2532									
[illegible]			-.1036							
[illegible]				-.0103						
[illegible]		-.0730								
[illegible]			.0043							
[illegible]					-.0500	-.1375	.0652			
[illegible]				-.0450						
[illegible]									-.2125	
[illegible]		-.0627								
[illegible]			-.0416							
[illegible]		-.0660			-.1006			.1144		
[illegible]				-.0699						
[illegible]			-.0872							
[illegible]					-.0006	.0664	.1304			
[illegible]				-.0775						
[illegible]			-.0652							
[illegible]		-.0429								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U10)

ALPHA (2) = .023 BETA (3) = 4.214 MACH = 1.0996 Q = 5 .85 P = 707.64 RN/L = 3.1885

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

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1978	-.2467	-.0671	.3956	.5786	.4841	.4282	.4248	-.1969	
.010		-.2877	-.0309		.4168	.4083	.3528	.2409		
.020		-.2894		.0000	.3259	.2683	.2353	.1878	-.2259	
.040			.0224	.2024						
.041	-.2942									
.060					.1406	.0453	.0135	-.0097		
.069									-.2905	
.080					-.0379					
.081				.1024						
.086			.1217							
.094		-.1240								
.113	-.2527									
.150					-.2178	-.2769	-.2796	-.2776		
.157									-.4811	
.153			.0000							
.177				-.0721						
.229		-.0195								
.245			.0125							
.247	-.0996									
.250					-.3105	-.3818	-.4031	-.4734		
.274				-.1865						
.345									-.4814	
.362		.0885								
.380			-.1601							
.400					-.4026	-.5157		-.6302		
.402				-.3218						
.418										-.2738
.429	.0629									
.497		-.0885								
.503									-.5283	
.547	.0264									
.550					-.0177	-.1183				
.555				.0672						
.600								-.5291		
.603	-.1696									
.647			.1050							
.650							-.2024			
.702									-.3213	
.700		.1169				-.1434				
.748										-.5581
.750					-.0896					
.797	.0777									
.801							-.1563	-.0356		
.850				-.1331						
.775					-.0935	-.1678				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA [illegible] = .023 BETA (3) = 4.214

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
Y BW										
[illegible]	.2252									
[illegible]			-.1305							
[illegible]				-.0680						
[illegible]		-.1026								
[illegible]			-.0666							
[illegible]					-.1065	-.1998	-.0066			
[illegible]				-.1091						
[illegible]									-.2266	
[illegible]		-.1262								
[illegible]			-.0995							
[illegible]		-.1181			-.1808			.1124		
[illegible]				-.1379						
[illegible]			-.1513							
[illegible]					-.1474	-.0780	.0849			
[illegible]				-.1549						
[illegible]			-.1422							
[illegible]		-.1296								

ALPHA 3 = 3.934 BETA (1) = -3.903 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
Y BW										
[illegible]	-.0810	-.0797	-.1439	.4623	.7047	.6808	.6638	.6310	-.0040	
[illegible]		-.1536	-.1189		.3237	.3918	.3265	.1484		
[illegible]		-.1775		.0000	.2032	.2012	.1637	.0789	-.2582	
[illegible]			-.0612	.0504						
[illegible]	-.1507									
[illegible]					-.0436	-.0672	-.1035	-.1575		
[illegible]									-.3270	
[illegible]					-.2227					
[illegible]				-.1102						
[illegible]			-.0052							
[illegible]		-.2287								
[illegible]	-.1255									
[illegible]					-.3860	-.4586	-.4285	-.4068		
[illegible]									-.5515	
[illegible]			.0000							
[illegible]				-.2679						
[illegible]		-.0911								
[illegible]			-.1532							
[illegible]	-.1744									
[illegible]					-.5065	-.5885	-.6019	-.5814		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA (3) = 3.934 BETA (1) = -3.903

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.3727						
[illegible]									-.6489	
[illegible]		.0305								
[illegible]			-.3100							
[illegible]					-.5889	-.7305		-.6748		
[illegible]				-.5062						
[illegible]										-.4391
[illegible]	.0049									
[illegible]		-.2032								
[illegible]									-.7101	
[illegible]	-.0820									
[illegible]					-.3286	-.6831				
[illegible]				-.2131						
[illegible]								-.4989		
[illegible]	-.3149									
[illegible]			-.1372							
[illegible]							-.5244			
[illegible]									-.6788	
[illegible]		-.1851				-.3641				
[illegible]										-.7673
[illegible]					-.1435					
[illegible]	-.3339									
[illegible]							-.4470	-.3934		
[illegible]				-.0862						
[illegible]					-.0528	-.1301				
[illegible]	.1806									
[illegible]			-.1034							
[illegible]				.0760						
[illegible]		-.0499								
[illegible]			.0813							
[illegible]					.0358	-.1038	-.3652			
[illegible]				.0436						
[illegible]									-.6346	
[illegible]		-.0394								
[illegible]			.0498							
[illegible]		.0167			.0279			-.2890		
[illegible]				.0212						
[illegible]			.0086							
[illegible]					.0584	.0167	-.2494			
[illegible]				.0379						
[illegible]			.0341							
[illegible]		.0441								

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R CRB LEFT WING TOP (XE8U10)

ALPHA (B) = 3.940 BETA (B) = .149 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY	.23.	.3990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.100	-.1259	-.2404	-.2532	.3835	.6286	.5969	.5843	.5483	-.0944	
.110		-.3088	-.2031		.2249	.2832	.2237	.0554		
.120		-.3040		.0000	.1145	.1103	.0678	-.0176	-.3430	
.130	-.2287		-.1106	-.0019						
.140					-.0934	-.1300	-.1663	-.2217		
.150									-.3897	
.160					-.2572					
.170				-.1390						
.180			-.0009							
.190		-.2961								
.200	-.2062									
.210					-.4025	-.4824	-.4570	-.4443		
.220									-.5905	
.230			.0000							
.240				-.2640						
.250		-.0958								
.260			-.1546							
.270	-.2299									
.280					-.4980	-.5935	-.6119	-.6012		
.290				-.3605						
.300									-.6780	
.310		.0208								
.320			-.3075							
.330					-.5647	-.7062		-.7697		
.340				-.4892						
.350										-.6031
.360	.0069									
.370		-.2151								
.380									-.7390	
.390	-.0909									
.400					-.2466	-.6651				
.410				-.1653						
.420								-.5755		
.430	-.3.28									
.440			-.1133							
.450							-.5885			
.460									-.6555	
.470		-.1111				-.1839				
.480										-.6776
.490					-.1372					
.500	-.2265									
.510							-.4625	-.3792		
.520				-.1365						
.530					-.0494	-.1180				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA (3) = 3.940 BETA (2) = .149

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	[illegible]	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.1875									
[illegible]			-.1148							
[illegible]				-.0168						
[illegible]		-.0710								
[illegible]			-.0257							
[illegible]					-.0157	-.0564	-.2458			
[illegible]				-.0458						
[illegible]									-.5823	
[illegible]		-.1147								
[illegible]			-.0450							
[illegible]		-.0502			-.0287			-.2689		
[illegible]				-.0550						
[illegible]			-.0785							
[illegible]					.0159	.0133	-.0159			
[illegible]				-.0255						
[illegible]			-.0598							
[illegible]		-.0725								

ALPHA (3) = 3.944 BETA (3) = 4.204 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.1711	-.4528	-.3238	.2759	.5618	.5182	.4898	.4327	-.2884	
[illegible]		-.4990	-.1889		.1193	.1751	.0965	-.0834		
[illegible]		-.4545		.0000	.0370	.0154	-.0438	-.1551	-.4952	
[illegible]			-.1182	-.0261						
[illegible]	-.2947									
[illegible]					-.1280	-.1994	-.2535	-.3218		
[illegible]									-.5036	
[illegible]					-.2764					
[illegible]				-.1394						
[illegible]			-.0332							
[illegible]		-.3317								
[illegible]	-.2923									
[illegible]					-.4039	-.5032	-.5127	-.5115		
[illegible]									-.6565	
[illegible]			.0000							
[illegible]				-.2428						
[illegible]		-.0862								
[illegible]			-.1350							
[illegible]	-.2540									
[illegible]					-.4657	-.6082	-.6354	-.6486		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U10)

[illegible] = 3.944 BETA [illegible] = 4.204

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.3237						
[illegible]									-.7165	
[illegible]		.0351								
[illegible]			-.2733							
[illegible]					-.5398	-.6647		-.7825		
[illegible]				-.4507						
[illegible]										-.7312
[illegible]	.7137									
[illegible]		-.1862								
[illegible]									-.6892	
[illegible]	-.0792									
[illegible]					-.2333	-.6194				
[illegible]				-.1567						
[illegible]								-.6700		
[illegible]	-.2990									
[illegible]			-.0590							
[illegible]							-.6337			
[illegible]									-.5938	
[illegible]		-.0386				-.2581				
[illegible]										-.5955
[illegible]					-.1525					
[illegible]	-.1783									
[illegible]							-.2900	-.4307		
[illegible]				-.1624						
[illegible]					-.1071	-.1848				
[illegible]	.1701									
[illegible]			-.1429							
[illegible]				-.1257						
[illegible]		-.1197								
[illegible]			-.1179							
[illegible]					-.1092	-.1669	-.0310			
[illegible]				-.1508						
[illegible]									-.5326	
[illegible]		-.1729								
[illegible]			-.1334							
[illegible]		-.1345			-.1649			-.3592		
[illegible]				-.1675						
[illegible]			-.1654							
[illegible]					-.0953	-.0338	.1121			
[illegible]				-.1731						
[illegible]			-.1[illegible]							
[illegible]		-.[illegible]								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

[illegible] = 7.882 BETA [illegible] = -3.893 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.0350	.2330	.3640	.4270	.5340	.6730	7600	.8870	.9720	1.0000
[illegible]	-.0421	-.2304	-.5223	.2425	.6205	.6209	.5937	.4969	-.2792	
[illegible]		-.3325	-.5211		-.0370	.0804	-.0196	-.2170		
[illegible]		-.3098		.0000	-.1258	-.1094	-.1623	-.3022	-.6632	
[illegible]	-.1642		-.3812	-.1902						
[illegible]					-.3064	-.3318	-.3861	-.4793		
[illegible]					-.4571				-.5971	
[illegible]				-.3120						
[illegible]			-.2849							
[illegible]		-.2863								
[illegible]	-.1322									
[illegible]					-.6600	-.6609	-.6609	-.6469		
[illegible]			.0000						-.5811	
[illegible]				-.4409						
[illegible]		-.2512								
[illegible]			-.2455							
[illegible]	-.1957									
[illegible]					-.7070	-.7875	-.6388	-.6036		
[illegible]				-.4861						
[illegible]		-.0148							-.5291	
[illegible]			-.3889							
[illegible]					-.6969	-.7208		-.6014		
[illegible]				-.5313						
[illegible]	-.0930									-.5329
[illegible]		-.2928								
[illegible]	-.1001								-.5136	
[illegible]					-.5129	-.6358				
[illegible]				-.3793						
[illegible]	-.4054							-.5148		
[illegible]			-.3595							
[illegible]							-.5310			
[illegible]		-.5179							-.4755	
[illegible]						-.5737				
[illegible]										-.4448
[illegible]	-.4504				-.3001					
[illegible]							-.4892	-.4710		
[illegible]				-.1447						
[illegible]					-.2804	-.4462				

TABULATED PRESSURE DATA - OA149 (AMES 11-073 1)

AMES 11-073(OA148) -1-OA/B/C/R ORB LEFT WING TOP (XEBU10)

BETA = -3.899

LEFT WING TOP SURF — DEPENDENT VARIABLE CP

	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	.1040								
			-.1185						
				-.0153					
		.0203							
			.0003						
					-.1335	-.3960	-.4455		
				-.0178					
								-.4078	
	-.0353								
		-.0083							
		.0369			-.0762		-.4291		
				-.0078					
			-.0184						
					.0025	-.2492	-.3937		
				.0060					
			.0275						
		.0110							

[illegible] = -7.897 BETA (2) = .144 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

[illegible] LEFT WING TOP SURF — DEPENDENT VARIABLE CP

	.2790	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.1053	-.4618	-.6936	.0652	.4934	.6007	.4729	.3720	-.4808	
		-.6168	-.6987		-.1617	-.0530	-.1571	-.3433		
		-.4803		.0000	-.2351	-.2135	-.3721	-.4071	-.6370	
			-.4715	-.2296						
	-.2809									
					-.3670	-.4103	-.4710	-.5561		
									-.6038	
					-.4946					
				-.3.01						
			-.3564							
		-.3567								
	-.2231									
					-.6842	-.6300	-.7008	-.6995		
									-.5865	
			.0000							
				-.3993						
		-.3747								
			-.2811							
	-.1644									
					-.6853	-.7939	-.6970	-.6684		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

BETA (B) = .144

LEFT WING TOP SURF DEPENDENT VARIABLE CP

.0011	.0390	.1340	.4273	.5340	.6730	.7800	.8870	.9720	1.0000
			-.4497						
								-.5746	
	.0009								
		-.4129							
				-.6721	-.8162		-.6916		
			-.5617						
									-.5696
-.0576									
	-.3044								
								-.5650	
-.1885									
				-.3713	-.6716				
			-.4480						
							-.5700		
-.4173									
		-.3356							
						-.5803			
								-.5299	
	-.4864				-.5633				
									-.5081
				-.2306					
-.3771									
						-.5229	-.5393		
			-.1353						
				-.2800	-.4093				
.018									
		-.1881							
			-.0693						
	-.0818								
		.0138							
				-.1193	-.3017	-.4686			
			-.0852						
								-.4756	
	-.0844								
		-.0817							
	-.0007			-.0939			-.4851		
			-.1002						
		-.0541							
				-.0166	-.1390	-.4187			
			-.0742						
		-.0870							
	.0543								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA [illegible] 7.888 BETA (3) = +.206

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0981									
[illegible]			-.1745							
[illegible]				-.1910						
[illegible]		-.1637								
[illegible]			-.1700							
[illegible]					-.1254	-.2029	-.4767			
[illegible]				-.2092						
[illegible]									-.6125	
[illegible]		-.2080								
[illegible]			-.1492							
[illegible]		-.1365			-.1694			-.5711		
[illegible]				-.1644						
[illegible]			-.1611							
[illegible]					-.0827	-.1291	-.4328			
[illegible]				-.1855						
[illegible]			-.1578							
[illegible]		-.1654								

[illegible] = 11.921 BETA (1) = -3.873 MACH = 1.0991 Q = 599.16 P = 708.50 RN/L = 3.1919

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.7545	-.4600	-.6464	-.1563	.3689	.3957	.3634	.2504	-.6080	
[illegible]		-.5906	-.5939		-.4421	-.3047	-.4144	-.5786		
[illegible]		-.5168		.0000	-.5541	-.4714	-.5416	-.6384	-.6309	
[illegible]			-.5084	-.6096						
[illegible]	-.1511									
[illegible]					-.6929	-.6440	-.6941	-.7677		
[illegible]									-.5690	
[illegible]					-.7885					
[illegible]				-.6976						
[illegible]			-.4168							
[illegible]		-.3687								
[illegible]	-.1402									
[illegible]					-.8111	-.7473	-.7313	-.7782		
[illegible]									-.5549	
[illegible]			.0000							
[illegible]				-.5476						
[illegible]		-.3131								
[illegible]			-.3893							
[illegible]	-.1902									
[illegible]					-.8034	-.7523	-.7483	-.7744		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U10)

ALPHA 5 = 11.921 BETA (1) = -3.873

[illegible] 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.4510						
.345									-.5549	
.362		-.2279								
.390			-.4576							
.400					-.7111	-.7089		-.5906		
.402				-.5921						
.418										-.5466
.429	-.2678									
.497		-.3766								
.503									-.5566	
.547	-.1590									
.550					-.6749	-.6865				
.565				-.4586						
.600								-.5653		
.633	-.4538									
.637			-.3866							
.650							-.6030			
.670									-.5310	
.700		-.5577				-.6428				
.723										-.5123
.725					-.4979					
.727	-.5060									
.750							-.5723	-.5597		
.760				-.2878						
.775					-.5238	-.5922				
.793	.0617									
.798			-.2727							
.808				-.3967						
.834		-.0862								
.844			-.1645							
.850					-.3571	-.4637	-.5476			
.857				-.3356						
.862									-.5028	
.865		-.1401								
.879			-.1824							
.900		-.0459			-.3117			-.5449		
.905				-.3081						
.919			-.1326							
.950					-.2055	-.3664	-.4980			
.953				-.2029						
.965			-.0440							
.985		-.1169								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U10)

ALPHA (5) = 11.930 BETA (2) = .146 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZY EW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.1322	-.6344	-.6126	-.3964	.1946	.2399	.2067	.0964	-.7265	
.010		-.5475	-.5980		-.5865	-.4352	-.5277	-.6917		
.020		-.5254		.0000	-.6686	-.5898	-.6529	-.7426	-.6347	
.040			-.5802	-.3811						
.041	-.2403									
.050					-.7319	-.7273	-.7781	-.8451		
.069									-.6187	
.080					-.7310					
.081				-.3421						
.085			-.5392							
.094		-.6031								
.113	-.2594									
.150					-.6482	-.8158	-.7985	-.8513		
.157									-.6089	
.163			.0000							
.177				-.3603						
.223		-.6885								
.245			-.5013							
.247	-.2608									
.250					-.6683	-.8156	-.8093	-.6931		
.274				-.5273						
.345									-.6070	
.362		-.1950								
.390			-.5970							
.400					-.7026	-.7569		-.6253		
.402				-.6362						
.418										-.5971
.429	-.2417									
.497		-.3391								
.503									-.6056	
.547	-.1058									
.550					-.6088	-.7211				
.565				-.5900						
.600								-.6165		
.633	-.5047									
.637			-.6511							
[illegible]							-.6560			
[illegible]									-.5819	
[illegible]		-.5340				-.6638				
[illegible]										-.5662
[illegible]					-.3998					
[illegible]	-.5247									
[illegible]							-.6418	-.6076		
[illegible]				-.2479						
[illegible]					-.4037	-.5714				

[illegible] TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING TOP (XEBU10)

ALPHA (5) = 11.930 BETA (2) = .1 6

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2* Rw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* Cw										
.793	-.0492									
.798			-.1862							
.808				-.3350						
.834		-.1229								
.839			-.1137							
.850					-.3420	-.4562	-.6097			
.857				-.3565						
.862									-.5487	
.865		-.1244								
.879			-.1087							
.900		-.0399			-.2803			-.5949		
.905				-.3447						
.919			-.1578							
.950					-.1661	-.2710	-.5433			
.953				-.3093						
.955			-.1569							
.965		-.1214								

ALPHA (5) = 11.928 BETA (3) = 4.214 MACH = 1.0991 Q = 599.16 R = 708.60 RN/L = 3.1919

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2* Rw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* Cw										
[illegible]	-.2242	-.6554	-.6733	-.4797	.0819	.0847	.0472	-.0749	-.7750	
[illegible]		-.6579	-.6654		-.6428	-.5484	-.6488	-.7921		
[illegible]		-.6543		.0000	-.7119	-.6837	-.7472	-.8302	-.7039	
.040			-.6346	-.1653						
.041	-.3387									
[illegible]					-.7505	-.7962	-.8572	-.7465		
[illegible]									-.6845	
[illegible]					-.7344					
[illegible]				-.2661						
[illegible]			-.5453							
[illegible]		-.7276								
[illegible]	-.3301									
[illegible]					-.6893	-.8889	-.8831	-.7212		
[illegible]									-.6728	
[illegible]			.0000							
[illegible]				-.4725						
[illegible]		-.8554								
[illegible]			-.4495							
[illegible]	-.3837									
[illegible]					-.6287	-.8815	-.8723	-.7228		

DATE 11 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11+073-1) (XE8U10)

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

ALPHA (5) = 11.928 BETA (3) = 4.214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BX	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4478					-.6635	
.345										
.362		-.0505								
.390			-.4593							
.403					-.6440	-.8003		-.7214		
.402				-.5863						-.6569
.418										
.429	-.1984									
.497		-.3255							-.6635	
.503										
.547	-.1206				-.5126	-.7540				
.550				-.6590						
.606								-.7055		
.600										
.643	-.4804									
.647			-.4971				-.7381			
.650									-.6308	
.670						-.6075				
.700		-.4576								-.6093
.723					-.3156					
.735										
.747	-.4782						-.7171	-.6749		
.750				-.2944						
.770					-.3911	-.4900				
.790	-.0333									
.793			-.2147							
.808				-.3583						
.834		-.1957								
.839			-.2462							
.850					-.3115	-.4092	-.6677			
.857				-.3380						
.870									-.5924	
.885		-.2099								
.893			-.2214							
.912		-.1414			-.3312			-.6534		
.915				-.2747						
.938			-.1869							
.950					-.2640	-.2607	-.5848			
.960				-.2826						
.969			-.1697							
.975		-.1463								

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

AMES 11-073(OA1-8) -140A/B/C/R ORB LEFT WING TOP (XEBU11) (05 AUG 75)

REFERENCE DATA

XMRP = 1076.6800 IN. XO
YMRP = .0010 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

RUDDER =	.000	SPDBRK =	85.000
BDFLAP =	22.500	L-ELVN =	.000
R-ELVN =	.000	MACH =	.900

BETA (11 = -3.873 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

DEPENDENT VARIABLE CP

	.2350	.2890	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.4412	-.0438	-.1035	.1436	.4057	.3148	.2468	.2609	-1.0901	
.010		.0307	.0551		.6197	.5830	.5464	.4534		
.020		.0453		.0000	.6513	.5024	.4676	.4100	-.3918	
.040			.1655	.3957						
.041	-.0421									
.042					.3441	.2852	.2554	.2074		
.043									-.4610	
.044					.1501					
.045				.2739						
.046			.2935							
.047		.0580								
.048	.0484									
.049					-.0778	-.1174	-.1299	-.1796		
.050									-.5426	
.051			.0000							
.052				.0031						
.053		.1683								
.054			.0849							
.055	.0738									
.056					-.2677	-.3185	-.3642	-.4879		
.057				-.1435						
.058									-.4121	
.059		.1573								
.060			-.1198							
.061					-.1899	-.3197		-.6027		
.062				-.1721						
.063										-.5126
.064	.1783									
.065		-.0695							-.0922	
.066	.0788									
.067					-.1295	-.2759				
.068				-.0205						
.069								-.1410		
.070	-.1837									
.071			.0353				-.1515			
.072									-.0423	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (1) = -4.067 BETA (1) = -3.873

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.700		.0738				-.1086				
.723										-.5679
.725					-.0879					
.727	.0457									
.750							.0661	.0542		
.760				-.1447						
.775					.0615	-.0163				
.773	.1894									
.799			-.1412							
.818				.0927						
.834		-.1298								
.839			.1042							
.850					.1066	.0692	.1176			
.857				.0834						
.882									.0531	
.895		.0359								
.879			.0724							
.902		.0302			.0845			.1280		
.915				.0755						
.919			.0626							
.950					.1066	.1450	.1555			
.955				.0832						
.955			.0709							
985		.0903								

ALPHA (1) = -4.047 BETA (2) = .148 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.700	-.4692	.0050	-.0262	.1610	.3505	.2270	.1431	.1516	-.7152	
.710		.0413	.0752		.5538	.5038	.4670	.3865		
.730		.0384		.0000	.4938	.4439	.4098	.3483	-.4266	
.743			.1517	.3482						
.741	-.0920									
.760					.3092	.2520	.2265	.1762		
.773									-.4905	
.790					.1284					
.841				.2366						
.885			.2565							
894		.0353								
.913	.0362									
.940					-.0743	-.1071	-.1183	-.1841		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA = -4.047 BETA (2) = .148

DEPENDENT VARIABLE CP

	.2490	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
									-.5473	
			.0000							
				.0034						
		.1432								
			.0714							
	.0605									
					-.2513	-.2962	-.3498	-.4715		
				-.1328						
									-.1918	
		.1427								
			-.1089							
					-.1986	-.3093		-.5794		
				-.1756						
										-.3614
	.1484									
		-.0747								
									-.1699	
	.0264									
					-.1739	-.3291				
				-.0523						
								-.1410		
	-.0351									
			-.0061							
							-.1823			
									-.0558	
		.0305				-.1521				
										-.4414
					-.1464					
	.0079									
							.0552	.0408		
				-.2206						
					.0129	-.0554				
	.1368									
			-.2059							
				.0355						
		-.1972								
			.0436							
					.0682	.0322	.1014			
				.0359						
									.0386	
		-.0416								
			.0254							
		-.0271			.0550			.1076		
				.0383						
			.0178							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (1) = -4.047 BETA (2) = .148

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000					.0814	.1270	.1435			
.003				.0577						
.005			.0351							
.005		.0434								

ALPHA (1) = -4.057 BETA (3) = 4.239 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.4893	.0215	.0259	.1744	.3021	.1573	.0696	.0668	-.6404	
.010		.0372	.0806		.4869	.4323	.3915	.3211		
.020		.0289		.0000	.4315	.3726	.3431	.2839	-.4843	
.040			.1395	.2962						
.041	-.1061									
.050					.2634	.2038	.1826	.1330		
.059									-.5331	
.060					.1045					
.061				.1993						
.080			.2223							
.084		.0243								
.087	.0069									
.100					-.0731	-.1192	-.1254	-.1999		
.101									-.5717	
.117			.0000							
.120				-.0035						
.121		.1255								
.122			.0552							
.127	.0527									
.140					-.2347	-.2818	-.3355	-.4712		
.141				-.1297						
.160									-.4325	
.161		.1202								
.162			-.1082							
.180					-.2036	-.3127		-.5820		
.181				-.1953						
.200										-.3619
.219	.1254									
.220		-.0787								
.239									-.1434	
.247	.0117									
.260					-.2175	-.3625				
.261				-.1055						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA = -4.057 BETA (B) = 4.239

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
								-.5307		
	-.1075									
			-.0601							
							-.4599			
									-.0357	
		-.0158				-.2918				
										-.3287
					-.3195					
	-.0307									
							.0522	.0739		
				-.3249						
					-.0404	-.0790				
	.0782									
			-.2630							
				-.0361						
		-.2612								
			-.0499							
					.0352	.0032	.1005			
				-.0184						
									.0517	
		-.1372								
			-.0353							
		-.0868			.0323			.1211		
				.0057						
			-.0226							
					.0546	.1046	.1422			
				.0254						
			.0026							
		-.0027								

ALPHA = .016 BETA (B) = -3.906 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0350	.0990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
	-.3757	.0443	.1050	.3719	.5476	.4837	.4458	.4522	-.3731	
		.0445	.1499		.4855	.4729	.4201	.2716		
		.0449		.0000	.3432	.3066	.2593	.2017	-.2790	
			.1852	.2021						
	-.1355									
					.0756	.0166	-.0161	-.0586		
									-.3724	
					-.1399					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (2 = .016 BETA (1) = -3.906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2 * RW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.0363						
.086			.2187							
.094		.0056								
.113	-.0332									
.150					-.3642	-.4251	-.4258	-.4462		
.157									-.6890	
.163			.0000							
.177				-.2469						
.229		.1039								
.246			-.0916							
.247	.0259									
.250					-.4918	-.6238	-.6630	-.6716		
.274				-.3905						
.345									-.7179	
.352		.0321								
.390			-.3247							
.400					-.2973	-.3879		-.9252		
.402				-.3734						
.418										-.3056
.429	.0965									
.497		-.2444								
.503									-.2162	
.547	-.1124									
.550					-.1664	-.2896				
.565				-.0729						
.600								-.0958		
.633	-.2841									
.637			-.0063							
[illegible]							-.0981			
[illegible]									-.1197	
[illegible]		.0187				-.0819				
[illegible]										-.2232
.725					-.0599					
.727	-.0092									
[illegible]							.0729	.0577		
[illegible]				-.1175						
[illegible]					.0713	.0018				
.793	.1510									
[illegible]			-.1206							
[illegible]				.0934						
[illegible]		-.1212								
[illegible]			.1036							
[illegible]					.1115	.0901	.1206			
[illegible]				.0927						
[illegible]									.0216	

[illegible] TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA [illegible] = [illegible] BETA (1) = -3.906

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	[illegible]	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]		.0347								
[illegible]			.0826							
[illegible]		.0355			.0928			.1293		
[illegible]				.0895						
[illegible]			.0683							
[illegible]					.1022	.1471	.1367			
[illegible]				.0851						
[illegible]			.0769							
[illegible]		.1044								

ALPHA [illegible] = .014 BETA (2) = .139 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.4051	.0188	.0962	.3523	.4949	.4136	.3734	.3679	-.3878	
[illegible]		.0036	.1226		.3744	.3794	.3371	.1943		
[illegible]		-.0097		.0000	.2619	.2261	.1937	.1339	-.3689	
[illegible]			.1611	.1485						
[illegible]	-.2050									
[illegible]					.0201	-.0398	-.0608	-.1015		
[illegible]									-.4406	
[illegible]					-.1722					
[illegible]				.0115						
[illegible]			.1868							
[illegible]		-.0130								
[illegible]	-.0330									
[illegible]					-.3718	-.4143	-.4368	-.4605		
[illegible]									-.7226	
[illegible]			.0000							
[illegible]				-.2392						
[illegible]		.0957								
[illegible]			-.1098							
[illegible]	.0130									
[illegible]					-.4855	-.6119	-.6674	-.6985		
[illegible]				-.3497						
[illegible]									-.6944	
[illegible]		.0197								
[illegible]			-.3042							
[illegible]					-.3101	-.4210		-.8926		
[illegible]				-.3[illegible]						
[illegible]										-.3888
[illegible]	.0[illegible]									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (2) = .014 BETA (2) = .139

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
[illegible]		-.2390								
[illegible]									-.1890	
[illegible]	-.1106									
[illegible]					-.2377	-.4136				
[illegible]				-.1086						
[illegible]								-.0960		
[illegible]	-.2681									
[illegible]			-.0577							
[illegible]							-.1229			
[illegible]									-.0908	
[illegible]		-.0246				-.1252				
[illegible]										-.2178
[illegible]					-.1382					
[illegible]	-.0590									
[illegible]							.0784	.0569		
[illegible]				-.1734						
[illegible]					.0194	-.0350				
[illegible]	.0919									
[illegible]			-.1820							
[illegible]				.0462						
[illegible]		-.1770								
[illegible]			.0452							
[illegible]					.0729	.0557	.1113			
[illegible]				.0408						
[illegible]									.0373	
[illegible]		-.0378								
[illegible]			.0407							
[illegible]		-.0069			.0650			.1317		
[illegible]				.0451						
[illegible]			.0328							
[illegible]					.0834	.1316	.1344			
[illegible]				.0612						
[illegible]			.0523							
[illegible]		.0579								

AMES 11-073(OA148) -140%/B/C/R ORB LEFT WING TOP (XEBU11)

[illegible] = [illegible] BETA (3) = 4.220 MACH = .89947 Q = 599.38 P = 1055.3 RN/L = 3.5741

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/DA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	[illegible]	-.0291	.0597	.3159	.4546	.3672	.3223	.3086	-.3396	
[illegible]		-.0403	.0839		.2976	.2995	.2485	.1083		
[illegible]		-.0409		.0000	.1940	.1531	.1153	.0498	-.4021	
[illegible]			.1244	.0979						
[illegible]	-.3371									
[illegible]					-.0233	-.0810	-.1193	-.1718		
[illegible]									-.4801	
[illegible]					-.1951					
[illegible]				-.0209						
[illegible]			.1467							
[illegible]		-.0234								
[illegible]	-.0448									
[illegible]					-.3521	-.4211	-.4361	-.4867		
[illegible]									-.7472	
[illegible]			.0000							
[illegible]				-.2351						
[illegible]		.0744								
[illegible]			-.1122							
[illegible]	.0054									
[illegible]					-.4751	-.5942	-.6453	-.7073		
[illegible]				-.2958						
[illegible]									-.6083	
[illegible]		.0102								
[illegible]			-.2610							
[illegible]					-.3066	-.4381		-.7630		
[illegible]				-.3560						
[illegible]										-.4785
[illegible]	.0672									
[illegible]		-.2341								
[illegible]									-.4773	
[illegible]	-.1211									
[illegible]					-.2738	-.4500				
[illegible]				-.1556						
[illegible]								-.2692		
[illegible]	-.2589									
[illegible]			-.1028							
[illegible]							-.4150			
[illegible]									-.0563	
[illegible]		-.0669				-.2826				
[illegible]										-.2026
[illegible]					-.3157					
[illegible]	-.0949									
[illegible]							.0990	.0906		
[illegible]				-.2899						
[illegible]					-.0459	-.0583				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (2) = .024 BETA (3) = 4.220

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0374									
.798			-.2341							
.808				-.0654						
.834		-.2532								
.839			-.0699							
.850					.0332	.0270	.1129			
.857				-.0070						
.862									.0585	
.865		-.1839								
.879			-.0280							
.900		-.0961			.0372			.1415		
.905				.0177						
.919			-.0068							
.950					.0648	.1145	.1274			
.953				.0407						
.955			.0180							
.965		.0126								

ALPHA (3) = 3.936 BETA (1) = -3.911 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3140	-.0380	.0523	.4035	.6110	.5712	.5504	.4893	-.2064	
.010		-.0928	.0585		.1693	.2092	.1079	-.1292		
.020		-.0995		.0000	.0347	-.0132	-.0818	-.2105	-.5385	
.040			.0964	-.0511						
.041	-.2072									
.050					-.2386	-.3294	-.3926	-.4787		
.059									-.6398	
.080					-.4664					
.081				-.2264						
.086			.0998							
.090		-.0624								
.103	-.1067									
.110					-.7021	-.7374	-.7425	-.7324		
.150									-.8854	
.153			.0000							
.170				-.4775						
.179		.0450								
.180			-.2695							
.187	-.0172									
.190					-.7572	-.9267	-.9727	-.7990		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (3) = 3.936 BETA (1) = -3.911

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B$_W$	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C$_W$										
.274				-.6049						
.345									-.5934	
.362		-.0801								
.390			-.5432							
.400					-.7586	-.9047		-.5793		
.402				-.7158						
.418										-.7635
.429	.0410									
.497		-.4310								
.503									-.4337	
.547	-.2158									
.550					-.1569	-.2657				
.565				-.1068						
.600								-.4455		
.633	-.5081									
.637			-.0484							
.650							-.3550			
.670									-.3215	
.700		-.0672				-.1163				
.723										-.6920
.725					-.0477					
.727	-.0968									
.750							-.1593	-.2707		
.760				-.0550						
.775					.0299	-.0438				
.793	.1637									
.798			-.0694							
.808				.0938						
.834		-.0837								
.839			.1047							
.840					.0994	.0670	-.3010			
.847				.0935						
.872									-.2367	
.865		.0414								
.879			.0889							
.900		.0426			.1020			-.0903		
.905				.0969						
.919			.0897							
.950					.1202	.1591	.0867			
.953				.1043						
.955			.0954							
.965		.1232								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (3) = 3.937 BETA (2) = .151 MACH = .8991? Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3687	-.1469	-.0558	.3092	.5264	.4818	.4552	.3870	-.3274	
.010		-.1790	-.0225		.0641	.1014	-.0062	-.2290		
.020		-.1523		.0000	-.0582	-.1034	-.1800	-.3082	-.6285	
.040			.0427	-.1094						
.041	-.3992									
.050					-.2879	-.3948	-.4610	-.5482		
.059									-.7081	
.060					-.4933					
.081				-.2637						
.090			.0520							
.094		-.0962								
.113	-.1158									
.127					-.7003	-.7591	-.7662	-.7739		
.151									-.9262	
.163			.0000							
.177				-.4818						
.209		.0250								
.240			-.2790							
.247	-.0371									
.260					-.7347	-.9046	-.9718	-.8401		
.274				-.5878						
.345									-.5999	
.369		-.0872								
.380			-.5340							
.400					-.6749	-.9541		-.6292		
.422				-.6830						
.438										-.9525
.463	.0254									
.497		-.4231								
.503									-.4428	
.547	-.2248									
.550					-.2164	-.1586				
.565				-.1522						
.590								-.4559		
.633	-.5027									
.650			-.1088							
.680							-.3040			
.690									-.2525	
.700		-.0969				-.1451				
.715										-.5382
.735					-.0936					
.747	-.1261									
.760							-.0852	-.2462		
.775				-.1036						
.795					.0032	-.0560				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (3) = 3.937 BETA (2) = .151

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1032									
.798			-.1353							
.808				.0393						
.834		-.1599								
.839			.0516							
.850					.0655	.0447	.0568			
.857				.0464						
.882									-.1734	
.890		-.0602								
.879			.0399							
.900		-.0065			.0682			-.0517		
.905				.0583						
.919			.0406							
.950					.0899	.1356	.1330			
.953				.0703						
.965			.0618							
.965		.0767								

ALPHA (3) = 3.940 BETA (3) = 4.207 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4350	-.2746	-.1650	.1904	.4307	.3817	.3479	.2610	-.5407	
.010		-.2637	-.0728		-.0616	-.0360	-.1525	-.3749		
.030		-.2085		.0000	-.1594	-.2281	-.3111	-.4734	-.7875	
.040			.0034	-.1704						
.041	-.5157									
.050					-.3746	-.4778	-.5500	-.6540		
.060									-.7997	
.080					-.5410					
.081				-.2990						
.085			.0206							
.096		-.0951								
.113	-.1215									
.150					-.7144	-.7906	-.8053	-.8273		
.163			.0000						-1.0043	
.177				-.4876						
.229		-.0034								
.248			-.2564							
.247	-.3373									
.250					-.7273	-.8366	-.9870	-.9374		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (3) = 3.940 BETA (3) = 4.207

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5707						
.345									-.7191	
.362		-.0980								
.390			-.5077							
.400					-.6096	-.8047		-.7265		
.402				-.6069						
.418										-1.1513
.429	.0171									
.497		-.4272								
.503									-.4908	
.547	-.2251									
.550					-.3182	-.3941				
.565				-.2277						
.600								-.4884		
.643	-.4787									
.637			-.1814							
.650							-.2608			
.670									-.2771	
.700		-.1204				-.1904				
.723										-.4396
.725					-.1771					
.727	-.1465									
.750							-.0431	-.2212		
.760				-.2154						
.775					-.0386	-.0849				
.793	.0214									
.798			-.2179							
.808				-.0466						
.834		-.2417								
.839			-.0356							
.850					.0295	.0169	.0639			
.857				-.0118						
.862									-.1562	
.865		-.1259								
.879			-.0060							
.900		-.0631			.0446			-.0090		
.905				.0181						
.919			.0076							
.950					.0749	.1193	.1362			
.958				.0383						
.965			.0305							
.965		.0225								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA ( ) = 7.990 BETA ( ) = -3.900 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.2786	-.2998	-.2799	.2076	.4857	.4617	.4183	.2922	-.5844	
.010		-.3704	-.2105		-.2669	-.1815	-.3305	-.5806		
.020		-.3139		.0000	-.3757	-.4035	-.4938	-.6883	-1.0638	
.040			-.1035	-.3830						
.041	-.2283									
.060					-.5938	-.6515	-.7505	-.8841		
.069									-1.0447	
.080					-.7710					
.081				-.5422						
.086			-.0759							
.094		-.1530								
.113	-.1652									
.150					-.9858	-1.0464	-.9425	-.8505		
.157									-.9506	
.163			.0000							
.177				-.6682						
.209		-.0100								
.246			-.4287							
.247	-.0661									
.250					-.9968	-1.0343	-.7923	-.6421		
.274				-.7670						
.345									-.5348	
.362		-.1649								
.380			-.6592							
.400					-.7658	-.7425		-.5415		
.402				-.9006						
.418										-.8522
.429	.0026									
.497		-.5377								
.503									-.4554	
.547	-.3239									
.550					-.4300	-.5693				
.565				-.2593						
.600								-.4815		
.633	-.6817									
.637			-.0930							
.650							-.5348			
.670									-.4297	
.700		-.1325				-.4452				
.723										-.4298
.725					-.1705					
.727	-.1527									
.750							-.4565	-.4125		
.760				-.1097						
.775					-.1055	-.3456				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (4) = 7.890 BETA (1) = -3.900

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1695									
.798			-.1402							
.808				.0175						
.834		-.1139								
.839			.0219							
.850					.0132	-.2525	-.3815			
.857				.0261						
.902									-.3684	
.885		-.0357								
.878			-.0066							
.900		.0134			.0249			-.3560		
.905				.0434						
.919			-.0092							
.950					.0835	-.1031	-.3071			
.953				0626						
.955			.0262							
.965		.0957								

ALPHA (4) = 7.894 BETA (2) = .145 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3610	-.4767	-.3856	.0402	.3533	.3312	.2855	.1534	-.8397	
.010		-.4043	-.1904		-.4093	-.3227	-.4699	-.7119		
.020		-.3597		.0000	-.4727	-.5153	-.6085	-.7935	-1.0508	
.040			-.0755	-.4307						
.041	-.4054									
.050					-.6596	-.7358	-.8371	-.9776		
.060									-1.0319	
.080					-.8108					
.081				-.5718						
.086			-.0656							
.094		-.1838								
.113	-.2001									
.130					-.9550	-1.0773	-1.0025	-.8991		
.157									-.6716	
.163			.0000							
.177				-.6534						
.209		-.1204								
.246			-.4179							
.247	-.3640									
.280					-.9653	-1.0761	-.8857	-.6645		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (4) = 7.894 BETA (2) = .145

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7359						
.345									-.5202	
.362		-.1823								
.390			-.6554							
.400					-.8077	-.8046		-.5889		
.402				-.8653						
.418										-.6461
.429	-.0027									
.497		-.5508								
.503									-.4983	
.547	-.3307									
.550					-.4193	-.5925				
.555				-.2102						
.600								-.5041		
.633	-.6957									
.637			-.1533							
[illegible]							-.5542			
[illegible]									-.4291	
[illegible]		-.1280				-.4403				
[illegible]										-.4205
.725					-.1916					
.727	-.2243									
.750							-.4675	-.4401		
[illegible]				-.1734						
[illegible]					-.1320	-.2734				
.793	.0841									
[illegible]			-.1928							
[illegible]				-.0347						
[illegible]		-.1692								
[illegible]			-.0471							
[illegible]					-.0040	-.1743	-.3747			
.857				-.0322						
[illegible]									-.3738	
[illegible]		-.0963								
[illegible]			-.0233							
[illegible]		-.0494			.0061			-.3600		
.905				-.0209						
[illegible]			-.0059							
[illegible]					.0592	-.0348	-.2872			
[illegible]				.0221						
[illegible]			.0277							
[illegible]		.0402								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (4) = 7.892 BETA (3) = 4.207 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4509	-.5925	-.2459	-.1328	.1991	.1776	.1266	-.0183	-.7507	
.010		-.3802	-.1790		-.5252	-.4837	-.6462	-.8801		
.020		-.3353		.0000	-.6020	-.6393	-.7568	-.9514	-.6782	
.040			-.1473	-.4035						
.041	-.5284									
.050					-.7024	-.8343	-.9431	-1.0756		
.069									-.5895	
.080					-.8259					
.081				-.4804						
.086			-.1616							
.094		-.3164								
.113	-.2218									
.150					-.9051	-1.1145	-1.0523	-1.0396		
.167									-.5575	
.183			.0000							
.177				-.6049						
.229		-.2334								
.246			-.5152							
.247	-.0894									
.250					-.9084	-1.0959	-.9242	-.8122		
.274				-.7046						
.296									-.5215	
.362		-.1261								
.280			-.7128							
.400					-.8133	-.8327		-.6092		
.402				-.8367						
.418										-.5238
.439	-.0265									
.447		-.5452								
.463									-.5313	
.547	-.3333									
.550					-.3622	-.6178				
.605				-.2313						
.620								-.5813		
.633	-.6699									
.637			-.2065							
.650							-.5595			
.678									-.4831	
.700		-.1890				-.4249				
.733										-.4317
.765					-.2334					
.787	-.2469									
.750							-.4880	-.5231		
.760				-.2721						
.775					-.2052	-.2703				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA.48 (AMES 11-073-1) (XE8U11)

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

ALPHA (α) = 7.899 BETA (β) = 4.207

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.737	.0023									
.798			-.2263							
.838				-.2220						
.884		-.2334								
.919			-.1069							
.940					-.0397	-.1779	-.4008			
.960				-.1531					-.4294	
.972										
.980		-.1956								
.988			-.0845							
.992		-.1077			-.0237			-.4538		
.996				-.0899						
.998			-.0487							
.999					.0322	-.0159	-.3243			
1.000				-.0366						
1.000			-.0010							
1.000		-.0216								

ALPHA (α) = 11.932 BETA (β) = -3.884 MACH = .89987 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	-.2945	-.6801	-.5395	-.1767	.2244	.2114	.1573	.0049	-.7975	
.010		-.6884	-.2626		-.7067	-.6151	-.7789	-.8674		
.020		-.5978		.0000	-.8285	-.8035	-.9239	-.7177	-.7048	
.040			-.1894	-.6575						
.061	-.2754				-.9697	-1.0092	-1.0859	-.6991		
.080									-.5624	
.099					-1.0603					
.120				-.7450						
.140			-.1813							
.160		-.3717								
.180	-.2842				-1.2342	-.9983	-1.0365	-.6666		
.199									-.5476	
.219			.0000							
.239				-.7972						
.259		-.2601								
.279			-.5036							
.299	-.1200				-1.0572	-.9016	-.8699	-.6457		
.300										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA (5) = 11.932 BETA (1) = -3.884

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8522						
.345									-.5333	
.362		-.3893								
.390			-.7683							
.400					-.7899	-.8166		-.6051		
.402				-.8833						
.418										-.5201
.429	-.0316									
.497		-.7647								
.503									-.5228	
.547	-.4778									
.560					-.7012	-.6668				
.565				-.4711						
.600								-.5660		
.633	-.8291									
.637			-.3018							
.650							-.6271			
.670									-.4980	
.700		-.2052				-.5974				
.703										-.5541
.735					-.4160					
.757	-.2390									
.750							-.5986	-.5489		
.780				-.2777						
.795					-.4260	-.5258				
.797	.0700									
[illegible]			-.2913							
[illegible]				-.2208						
[illegible]		-.2596								
[illegible]			-.2558							
[illegible]					-.2612	-.4877	-.5649			
[illegible]				-.1727						
[illegible]									-.4341	
[illegible]		-.1699								
[illegible]			-.1791							
[illegible]		-.0799			-.2215			-.5212		
[illegible]				-.1619						
[illegible]			-.1310							
[illegible]					-.1219	-.3667	-.5323			
[illegible]				-.1169						
[illegible]			-.0593							
.965		.0265								

DATE : FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U11)

ALPHA = -11.833 BETA (2) = .149 MACH = .99987 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION : LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY/BW	.2480	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CR										
.000	-.4087	-.7877	-.3427	-.3707	.0508	.0332	-.0215	-.1637	-.7882	
.010		-.5442	-.2839		-.8557	-.7611	-.9128	-.9139		
.020		-.4929		.0000	-.9607	-.9433	-1.0607	-.6809	-.6871	
.042			-.2589	-.5432						
.061	-.4718									
.082					-1.0692	-1.1137	-1.0844	-.6554		
.103									-.6055	
.123					-1.1092					
.144				-.6270						
.164			-.2651							
.184		-.4855								
.205	-.2851									
.225					-1.2139	-1.0234	-.9956	-.6671		
.246									-.5857	
.266			.0000							
.287				-.7386						
.307		-.5922								
.328			-.5776							
.348	-.1715									
.369					-.9717	-.9207	-.9128	-.6526		
.389				-.8397						
.410									-.5583	
.430		-.3070								
.451			-.7808							
.471					-.7976	-.8016		-.6337		
.492				-.9520						
.512										-.5674
.533	-.0655									
.553		-.7335								
.574									-.5657	
.594	-.4979									
.615					-.6589	-.7256				
.635				-.3751						
.656								-.6076		
.676	-.8457									
.697			-.3339							
.717							-.6535			
.738									-.5251	
.758		-.2432				-.6076				
.779										-.5210
.799					-.3809					
.820	-.8773									
.840							-.6262	-.5820		
.861				-.3286						
.881					-.4069	-.5335				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALPHA (5) = 11.939 BETA (2) = .149

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.783	.0394									
.788			-.3163							
.808				-.3957						
.834		-.2972								
.839			-.3141							
.850					-.2328	-.4794	-.5877			
.857				-.3255					-.4915	
.882										
.895		-.2597								
.913			-.2194							
.920		-.1537			-.2036			-.5507		
.938				-.2626						
.949			-.1553							
.960					-.1190	-.3436	-.5517			
.963				-.1926						
.975			-.0981							
.986		-.0331								

ALPHA (5) = 11.938 BETA (3) = 4.228 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.007	-.6286	-.7541	-.3767	-.5367	-.1171	-.1498	-.1993	-.3423	-.7393	
.011		-.6469	-.3447		-.9895	-.9093	-1.0360	-.7708		
.020		-.6548		.0000	-1.0764	-1.0738	-.9475	-.7729	-.6830	
.040			-.3394	-.4657						
.041	-.6330				-1.1263	-1.2007	-.8301	-.7157		
.060									-.6211	
.080					-1.0946					
.080				-.5748						
.096			-.3199							
.116		-.6406								
.118	-.2467				-1.0669	-1.0005	-.7619	-.6672		
.150									-.6101	
.155			.0000							
.188				-.6960						
.189		-.6847								
.194			-.6019							
.217	-.2551				-.9719	-.8900	-.7294	-.6748		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU11)

ALTHA ([illegible]) = 11.[illegible] BETA (3) = 4.228

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/[illegible]	[illegible]	[illegible]	.3040	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.8254						
[illegible]									-.5922	
[illegible]		-.3153								
[illegible]			-.8210							
[illegible]					-.6514	-.7510		-.6491		
[illegible]				-.9776						
[illegible]										-.5998
[illegible]	-.1085									
[illegible]		-.7327								
[illegible]									-.5922	
[illegible]	-.4805									
[illegible]					-.5666	-.7117				
[illegible]				-.3706						
[illegible]								-.6459		
[illegible]	-.8553									
[illegible]			-.2958							
[illegible]							-.6725			
[illegible]									-.5679	
[illegible]		-.2604				-.6477				
[illegible]										-.5655
[illegible]					-.4061					
[illegible]	-.2410									
[illegible]							-.6469	-.5971		
[illegible]				-.4211						
[illegible]					-.5685	-.5841				
[illegible]	.0237									
[illegible]			-.3480							
[illegible]				-.5618						
[illegible]		-.3107								
[illegible]			-.3612							
[illegible]					-.3765	-.4630	-.6076			
[illegible]				-.[illegible]776						
[illegible]									-.5171	
[illegible]		-.3424								
[illegible]			-.3193							
[illegible]		-.2443			-.2760			-.5745		
[illegible]				-.3956						
[illegible]			-.2337							
[illegible]					-.1549	-.3073	-.5701			
[illegible]				-.2145						
[illegible]			-.1323							
[illegible]		-.0809								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBJ12) 1 05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.0560 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 =	.500

ALPHA (1) = -4.057 BETA (1) = -7.889 MACH = .59636 Q = 593.96 P = 2355.7 RN/L = 4.8160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1520	-.1398	-.2849	-.1165	.1176	.0332	.0034	.0964	-.9343	
.010		-.0021	-.0396		.6125	.6100	.5914	.5299		
.020		.0370		.0000	.5573	.5589	.5344	.4935	-.1166	
.040			.1172	.3737						
.041	.0361									
.050					.3433	.3401	.3105	.2783		
.059									-.1166	
.060					.1482					
.081				.2464						
.085			.2706							
.094		.0661								
.113	.0612									
.150					-.0790	-.0831	-.1191	-.1071		
.157									-.1498	
.163			.0000							
.177				-.0078						
.229		.1626								
.245			.0570							
.247	.0860									
.250					-.2173	-.2565	-.2992	-.3323		
.271				-.1282						
.345									-.1393	
.362		.1205								
.390			-.0959							
.400					-.1605	-.2247		-.2959		
.412				-.1296						
.416										-.6214
.418	.1395									
.480		-.0630								
.507									-.1906	
.547	.0172									
.550					-.0801	-.1404				
.611				-.0008						
.6								-.1830		
.613	-.0562									
.637			.0399							
.650							-.1205			
.677									-.0871	

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 11 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8J12)

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

ALPHA (1) = -4.057 BETA (1) = -7.689

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.720		.0733				-.0731				-.4935
.723					-.0305					
.725										
.727	.0507						.0096	.0036		
.750				-.0638						
.760					.0309	.0002				
.775										
.793	.1893									
.798			-.0591							
.808				.0776						
.824		-.0403								
.839			.0985		.0831	.0705	.0712			
.850										
.857				.0739					-.0040	
.862										
.865		.0444								
.873			.0773							
.900		.0468			.0547			.0786		
.905				.0596						
.918			.0485							
.930					.0690	.1022	.1108			
.933				.0624						
.935			.0487							
.946		.0610								

ALPHA (1) = -4.036 BETA (2) = -3.874 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1542	-.0918	- 1997	-.0682	.0931	-.0234	-.0725	.0032	-.8759	
.010		-.0019	-.0251		5407	.5401	.5148	.4615		
.020		.0181		.0000	4934	.4927	.4674	.4272	-.1964	
.040			.0964	.3225						
.041	-.0080				.2968	.2895	.2699	.2471		
.060									-.1780	
.080					.1156					
.081				.2089						
.100			.2310							
.120		.0315								
.140	.0209				-.0900	-.1003	-.1251	-.1275		
.160										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (1) = -4.036 BETA (2) = -3.874

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.1897	
.163			.0000							
.177				-.0293						
.229		.1335								
.246			.0291							
.247	.0552									
.[illegible]					-.2299	-.2698	-.3038	-.3402		
.274				-.1477						
.345									-.1439	
.[illegible]		.0910								
.[illegible]			-.1179							
.400					-.1821	-.2401		-.3043		
.402				-.1599						
.419										-.5774
.429	.1078									
.437		-.0963								
.503									-.1830	
.547	-.0080									
.550					-.1122	-.1641				
.565				-.0437						
.600								-.1890		
.631	-.0804									
.637			-.0031							
.650							-.1396			
.670									-.0772	
.700		.0332				-.0895				
.723										-.5094
.725					-.0621					
.727	.0070									
.750							-.0018	-.0049		
.760				-.1005						
.775					-.0037	-.0266				
.783	.1488									
.788			-.0946							
.809				.0404						
.834		-.0786								
.839			.0648							
.850					.0596	.0434	.0658			
.857				.0446						
.870									.0012	
.[illegible]		.0007								
.879			.0417							
.902		.0100			.0388			.0764		
.905				.0327						
.919			.0217							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (1) = -4.035 BETA (2) = -3.874

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0600	.0941	.1038			
.953				.0463						
.955			.0303							
.965		.0314								

ALPHA (1) = -4.017 BETA (3) = .163 MACH = .69636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1595	-.0440	-.1026	-.0027	.0953	-.0550	-.1396	-.0883	-.8205	
.010		.0036	.0070		.4803	.4664	.4372	.3975		
.020		.0064		.0000	.4321	.4236	.4008	.3629	-.2605	
.040			.0894	.2710						
.041	-.0552									
.050					.2510	.2338	.2240	.1978		
.059									-.2276	
.090					.0811					
.091				.1685						
.096			.1985							
.094		.0052								
.113	-.0111									
.150					-.1082	-.1165	-.1394	-.1422		
.157									-.2223	
.183			.0000							
.177				-.0445						
.199		.1060								
.206			.0063							
.647	.0291									
.750					-.2435	-.2772	-.3086	-.3368		
.774				-.1581						
.842									-.1572	
.868		.0771								
.900			-.1300							
.910					-.2088	-.2566		-.3049		
.922				-.1839						
.918										-.5284
.929	.0344									
.937		-.1087								
.953									-.1775	
.947	-.0340									
.960					-.1502	-.1861				
.965				-.0824						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (1) = -4.017 BETA (3) = .163

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.1000		
.633	-.1195									
.637			-.0411							
.650							-.1453			
.670									-.0731	
.700		-.0103				-.1084				
.723										-.5117
.726					-.0888					
.747	-.0283									
.750							-.0152	-.0049		
.760				-.1314						
.770					-.0288	-.0493				
.793	.1130									
.795			-.1207							
.818				.0121						
.824		-.1126								
.839			.0280							
.850					.0393	.0277	.0548			
.857				.0192						
.862									.0019	
.885		-.0387								
.879			.0142							
.900		-.0223			.0225			.0758		
.903				.0140						
.919			-.0042							
.950					.0520	.0827	.0994			
.953				.0393						
.955			.0106							
.985		.0056								

ALPHA (1) = -4.026 BETA (4) = 4.234 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1599	-.0233	-.0332	.0537	.1074	-.0474	-.1407	-.0916	-.6731	
.010		-.0023	.0260		.4159	.3923	.3646	.3210		
.020		-.0035		.0000	.3688	.3491	.3268	.2890	-.2839	
.040			.0867	.2228						
.060	-.0837									
.080					.2003	.1770	.1603	.1317		
.100									-.2628	
.300					.0453					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (1) = -4.026 BETA (4) = 4.234

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.181				.1406						
.186			.1683							
.194		-.0113								
.213	-.0315									
.150					-.1243	-.1483	-.1633	-.1755		
.167									-.2461	
.163			.0000							
.177				-.0525						
.229		.0904								
.253			-.0066							
.247	.0187									
.270					-.2562	-.2906	-.3182	-.3504		
.294				-.1683						
.345									-.1689	
.362		.0603								
.393			-.1479							
.400					-.2301	-.2772		-.3135		
.402				-.2065						
.418										-.3946
.433	.0754									
.437		-.1231								
.503									-.1730	
.547	-.0456									
.550					-.1758	-.2050				
.585				-.1107						
.600								- 1918		
.633	-.1416									
.637			-.0796							
.650							-.1581			
.670									-.0649	
.700		-.0412				-.1211				
.733										-.4087
.766					-.1098					
.787	-.0663									
.795							-.0225	-.0113		
.800				-.1573						
.833					-.0574	-.0654				
.836	.0725									
.848			-.1535							
.870				-.0150						
.874		-.1432								
.899			-.0005							
.900					.0253	.0061	.0527			
.917				.0005						
.950									.0108	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (1) = -4.026 BETA (4) = 4.234

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.005		-.0739								
.079			-.0077							
.200		-.0417			.0098			.0769		
.300				-.0010						
.919			-.0258							
.950					.0486	.0747	.1000			
.953				.0252						
.956			-.0065							
.980		-.0186								

ALPHA (1) = -4.040 BETA (5) = 8.307 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1691	-.0120	.0201	.1253	.1359	-.0315	-.1353	-.1105	-.5715	
.010		-.0113	.0573		.3508	.3242	.2980	.2478		
.050		-.0122		.0000	.3000	.2788	.2606	.2202	-.3087	
.140			.0909	.1768						
.141	-.1114									
.150					.1446	.1184	.1042	.0770		
.169									-.2894	
.190					-.0007					
.191				.0995						
.196			.1507							
.200		-.0191								
.213	-.0500									
.250					-.1505	-.1677	-.1848	-.2024		
.257									-.2609	
.263			.0000							
.277				-.0773						
.289		.0779								
.300			-.0285							
.311	.0115									
.350					-.2759	-.3004	-.3255	-.3568		
.374				-.1847						
.395									-.1635	
.399		.0466								
.410			-.1641							
.450					-.2521	-.2853		-.3127		
.459				-.2287						
.476										-.2849
.499	.0553									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (1) = -4.040 BETA (5) = 8.307

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.2350	.2830	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.497		-.1448								
.503									-.1649	
.547	-.0614									
.550					-.2018	-.2217				
.566				-.1475						
.600								-.1894		
.673	-.1679									
.677			-.1107							
.680							-.1641			
.697									-.0559	
.701		-.0834				-.1292				
.723										-.3109
.725					-.1284					
.727	-.1076									
.750							-.0294	-.0121		
.760				-.1745						
.775					-.0769	-.0778				
.778	.0406									
.798			-.1667							
.808				-.0367						
.834		-.1651								
.838			-.0214							
.852					.0132	-.0104	.0487			
.857				-.0149						
.872									.0243	
.885		-.0961								
.898			-.0205							
.910		-.0535			.0037			.0813		
.915				-.0126						
.919			-.0333							
.951					.0481	.0747	.1014			
.953				.0238						
.955			-.0105							
.966		-.0240								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (2) = .047 BETA (1) = -7.924 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0550	.0516	.0691	.3002	.5023	.4769	.4527	.5040	-.1458	
.010		.0755	.1452		.4553	.5042	.4520	.2907		
.020		.0502		.0000	.3230	.3134	.2799	.2147	-.0913	
.040			.1848	.1797						
.041	-.0035									
.050					.0478	.0012	-.0345	-.0531		
.069									-.2024	
.080					-.1726					
.081				-.0017						
.086			.2094							
.094		.0244								
.113	.0153									
.150					-.3327	-.3746	-.4365	-.3899		
.157									-.3206	
.163			.0000							
.177				-.2316						
.209		.0943								
.246			-.1237							
.247	.0404									
.250					-.4046	-.4779	-.5398	-.5774		
.274				-.2949						
.345									-.3103	
[illegible]		-.0074								
.390			-.2293							
.400					-.2554	-.3313		-.4164		
.402				-.2312						
.418										-.0585
.429	.0633									
.497		-.1850								
.503									-.3383	
.547	-.0974									
[illegible]					-.1203	-.1915				
.555				-.0403						
[illegible]								-.2230		
.633	-.1430									
.637			.0096							
.650							-.1431			
[illegible]									-.1737	
[illegible]		.0358				-.0763				
[illegible]										-.1375
[illegible]					-.0311					
[illegible]	.0082									
.750							-.0019	-.0202		
.760				-.0570						
[illegible]					.0328	.0000				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (2) = .047 BETA (1) = -7.924

SECTION # 1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1659									
.799			-.0506							
.808				.0799						
.834		-.0336								
.839			.1023							
.860					.0906	.0870	.0759			
.867				.0844						
.892									-.0166	
.899		.0518								
.919			.0816							
.927		.0566			.0707			.0856		
.945				.0696						
.959			.0554							
.960					.0827	.1234	.1175			
.973				.0787						
.985			.0609							
.995		.0751								

ALPHA (2) = .057 BETA (2) = -3.897 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION # 1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0938	.0377	.0730	.2968	.4680	.4326	.4104	.4425	-.1672	
.010		.0382	.1177		.3809	.4179	.3730	.2033		
.020		.0171		.0000	.2599	.2429	.2070	.1484	-.1509	
.040			.1504	.1226						
.041	-.0528									
.060					-.0019	-.0408	-.0861	-.1151		
.080									-.2489	
.081					-.2015					
.101				-.0311						
.105			.1719							
.124		-.0093								
.125	-.0209									
.150					-.3479	-.3972	-.4385	-.3968		
.164									-.3255	
.165			0000							
.166				-.2516						
.189		.0678								
.190			-.1480							
.204	.0101									
.210					-.4199	-.4842	-.5430	-.5735		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (2) = .057 BETA (2) = -3.897

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]				-.3179						
.345									-.2945	
.362		-.0306								
[illegible]			-.2512							
[illegible]					-.2855	-.3527		-.4154		
[illegible]				-.2594						
[illegible]										-.0885
[illegible]	.0351									
[illegible]		-.2106								
[illegible]									-.3148	
[illegible]	-.1310									
[illegible]					-.1585	-.2167				
[illegible]				-.0855						
[illegible]								-.2264		
[illegible]	-.1797									
[illegible]			-.0350							
[illegible]							-.1566			
[illegible]									-.1509	
[illegible]		-.0070				-.0991				
[illegible]										-.1568
[illegible]					-.0634					
[illegible]	-.0329									
[illegible]							-.0135	-.0205		
[illegible]				-.0900						
[illegible]					.0029	-.0267				
[illegible]	.1203									
[illegible]			-.0872							
[illegible]				.0431						
[illegible]		-.0760								
[illegible]			.0603							
[illegible]					.0624	.0570	.0634			
[illegible]				.0495						
[illegible]									-.0014	
[illegible]		.0078								
[illegible]			.0472							
[illegible]		.0207			.0506			.0841		
[illegible]				.0431						
[illegible]			.0305							
[illegible]					.0737	.1074	.1147			
[illegible]				.0605						
[illegible]			.0391							
[illegible]		.0473								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA [illegible] = .056 [illegible] = .160 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION [illegible] DEPENDENT VARIABLE CP

2Y BW	[illegible]	[illegible]	[illegible]	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
[illegible]	[illegible]	[illegible]	.0632	.2822	.4353	.3841	.3486	.3711	-.1898	
[illegible]		-.0062	.0961		.3001	.3399	.2896	.1428		
[illegible]		-.0833		.0000	.1848	.1686	.1346	.0752	-.2053	
[illegible]			.1140	.0669						
[illegible]	-.1000									
[illegible]					-.0513	-.0981	-.1226	-.1479		
[illegible]									-.2826	
[illegible]					-.2255					
[illegible]				-.0628						
[illegible]			.1276							
[illegible]		-.0391								
[illegible]	-.0574									
[illegible]					-.3585	-.4036	-.4469	-.4053		
[illegible]									-.3292	
[illegible]			.0000							
[illegible]				-.2537						
[illegible]		.0444								
[illegible]			-.1630							
[illegible]	-.0126									
[illegible]					-.4255	-.4831	-.5303	-.5715		
[illegible]				-.3221						
[illegible]									-.2712	
[illegible]		-.0477								
[illegible]			-.2653							
[illegible]					-.3061	-.3671		-.4106		
[illegible]				-.2859						
[illegible]										-.1125
[illegible]	.0183									
[illegible]		-.2276								
[illegible]									-.2848	
[illegible]	-.1507									
[illegible]					-.1915	-.2348				
[illegible]				-.1200						
[illegible]								-.2198		
[illegible]	-.2143									
[illegible]			-.0756							
[illegible]							-.1668			
[illegible]									-.1263	
[illegible]		-.0472				-.1149				
[illegible]										-.1594
[illegible]					-.0939					
[illegible]	-.0701									
[illegible]							-.0237	-.0216		
[illegible]				-.1247						
[illegible]					-.0337	-.0454				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (2) = .058 BETA (3) = .160

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ZR	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.791	.0805									
.794			-.1156							
.808				.0047						
.834		-.1100								
.839			.0225							
.850					.0414	.0344	.0562			
.857				.0205						
.862									.0090	
.869		-.0355								
.873			.0170							
.900		-.0119			.0312			.0856		
.908				.0220						
.919			.0059							
.934					.0633	.0936	.1130			
.943				.0468						
.956			.0189							
.975		.0068								

ALPHA (2) = .058 BETA (4) = 4.215 MACH = .59554 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ZR	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.791	-.1664	-.0415	.0339	.2524	.3994	.3473	.3227	.3228	-.1823	
.794		-.0373	.0609		.2115	.2541	.1950	.0553		
.808		-.0097		.0000	.1155	.0960	.0519	-.0206	-.2553	
.834			.0835	.0241						
.839	-.1331									
.850					-.1006	-.1316	-.1758	-.2134		
.857									-.3111	
.862					-.2564					
.869				-.0917						
.873			.0993							
.900		-.0578								
.908	-.0793									
.919					-.3702	-.4120	-.4516	-.4260		
.934									-.3409	
.943			.0000							
.956				-.2600						
.969		.0317								
.975			-.1674							
.987	-.0817									
1.000					-.4415	-.4855	-.5341	-.5661		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (Z, A = .052 BETA (Y) = 4.215

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/BA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.3256						
.345									-.2574	
.362		-.0523								
.390			-.2740							
.400					-.3314	-.3785		-.4076		
.402				-.3032						
.419										-.1602
.429	.0055									
.447		-.2407								
.513									-.2572	
.547	-.1557									
.550					-.2250	-.2500				
.565				-.1606						
.610								-.2189		
.633	-.2347									
.637			-.1143							
.650							-.1768			
.670									-.1028	
.700		-.0871				-.1244				
.723										-.1741
.775					-.1193					
.787	-.1049									
.750							-.0306	-.0180		
.760				-.1520						
.775					-.0593	-.0707				
.783	.0276									
.788			-.1445							
.808				-.0241						
.834		-.1373								
.838			-.0122							
.850					.0204	.0129	.0514			
.857				-.0096						
.859									.0198	
.865		-.0745								
.879			-.0115							
.900		-.0437			.0175			.0884		
.908				-.0034						
.919			-.0259							
.930					.0541	.0824	.1102			
.936				.0292						
.945			-.0055							
.958		-.0232								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (EBU12)

ALPHA (B) = .048 BETA (S) = 8.27: MACH = .59654 Q = 594.3: P = 2385.7 P/Q = 4.8134

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2980	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XOCW										
.000	-.2113	-.1282	-.0331	.1987	.3579	.3018	.2736	.2597	-.2052	
.010		-.1232	.0074		.1172	.1480	.0963	-.0402		
.020		-.1080		.0000	.0182	.0102	-.0344	-.0997	-.2994	
.040			.0422	-.0343						
.041	-.1671									
.060					-.1563	-.1976	-.2273	-.2714		
.080									-.3414	
.100					-.2914					
.101				-.1280						
.120			.0579							
.134		-.0677								
.143	-.0976									
.160					-.3830	-.4268	-.4609	-.4454		
.161									-.3397	
.180			.0000							
.200				-.2729						
.240		.0255								
.241			-.1864							
.242	-.0362									
.260					-.4463	-.4933	-.5294	-.5501		
.261				-.3348						
.280									-.2372	
.281		-.0691								
.300			-.2818							
.320					-.3442	-.3917		-.3993		
.321				-.3274						
.340										-.2141
.341	-.0077									
.342		- 2534								
.360									-.2334	
.361	-.1687									
.380					-.2505	-.2677				
.381				-.1932						
.400								-.2129		
.403	-.2584									
.420			-.1546							
.440							- 1808			
.441									-.0705	
.460		-.1270				-.1344				
.461										-.1793
.480					-.1420					
.481	-.1434									
.500							-.0351	-.0133		
.501				-.1656						
.520					-.0834	-.0843				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3) = .048 BETA (5) = 8.271

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0055									
.798			-.1596							
.808				-.0488						
.834		-.1692								
.839			-.0397							
.850					.0039	-.0065	.0490			
.857				-.0230						
.862									.0400	
.865		-.1087								
.879			-.0340							
.900		-.0674			.0032			.0946		
.905				-.0160						
.919			-.0385							
.950					.0491	.0760	.1035			
.953				.0193						
.955			-.0085							
.965		-.0375								

ALPHA (3) = 3.956 BETA (1) = -7.937 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0392	.0583	.1022	.4019	.6128	.6016	.5799	.5106	-.0677	
.010		.0041	.0989		.0750	.1122	-.0198	-.3049		
.020		-.0128		.0000	-.0795	-.1432	-.2341	-.3803	-.4612	
.040			.1023	-.1218						
.041	-.0458									
.050					-.3703	-.4709	-.5392	-.5986		
.069									-.5748	
.080					-.5689					
.081				-.2994						
.090			.0653							
.094		-.0436								
.113	-.0215									
.140					-.6234	-.7413	-.8050	-.7303		
.157									-.6875	
.163			.0000							
.177				-.4753						
.203		.0225								
.245			-.3242							
.247	-.0004									
.300					-.6026	-.7098	-.8053	-.8508		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3) = 3.956 BETA (1) = -7.937

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4656						
.345									-.6280	
.362		-.1319								
.390			-.3562							
.400					-.3400	-.4318		-.5244		
.402				-.3168						
.418										-.4002
.429	-.0087									
.497		-.3036								
.503									-.6098	
.547	-.2181									
.560					-.1479	-.2269				
.565				-.0673						
.600								-.2836		
.633	-.2371									
.637			-.0143							
[illegible]							-.1609			
[illegible]									-.4604	
[illegible]		-.0035				-.0759				
[illegible]										-.6525
[illegible]					-.0282					
[illegible]	-.0339									
[illegible]							-.0141	-.0528		
[illegible]				-.0304						
[illegible]					.0401	.0035				
[illegible]	.1739									
[illegible]			-.0207							
[illegible]				.0820						
[illegible]		-.0214								
[illegible]			.1063							
[illegible]					.0914	.0955	.0712			
[illegible]				.0884						
[illegible]									-.2474	
[illegible]		.0482								
[illegible]			.0887							
.900		.0749			.0817			.0706		
[illegible]				.0775						
[illegible]			.0690							
[illegible]					.0981	.1337	.1210			
.953				.0936						
[illegible]			.0745							
[illegible]		.0893								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3) = 3.959 BETA (2) = -3.838 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.6206

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0962	-.0296	.0243	.3233	.5318	.5086	.4901	.4074	-.1837	
.010		-.0864	.0253		-.0363	.0109	-.1318	-.3944		
.020		-.0844		.0000	-.1676	-.2314	-.3203	-.4698	-.5398	
.040			.0384	-.1888						
.041	-.0979									
.050					-.4114	-.5198	-.5921	-.6552		
.069									-.6137	
.080					-.5961					
.081				-.3374						
.086			.0186							
.094		-.0856								
.113	-.0674									
.150					-.6418	-.7411	-.8151	-.7313		
.157									-.6822	
.163			.0000							
.177				-.4923						
.229		-.0062								
.246			-.3418							
.247	-.0291									
.250					-.6185	-.7215	-.7931	-.8271		
.274				-.4815						
.345									-.5918	
.362		-.1555								
.390			-.3880							
.400					-.3675	-.4489		-.5107		
.402				-.3484						
.418										-.5511
.429	-.0386									
.497		-.3353								
.503									-.5637	
.547	-.2615									
.550					-.1914	-.2462				
.565				-.1150						
.600								-.2835		
[illegible]	-.2743									
[illegible]			-.0624							
.650							-.1724			
.670									-.4780	
[illegible]		[illegible]				-.1305				
[illegible]										-.7521
[illegible]					-.0615					
.727	-.0795									
.750							-.0213	-.0470		
.760				-.0652						
[illegible]					.0032	-.0232				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (3) = 3.958 BETA (2) = -3.898

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1230									
.798			-.0667							
.808				.0461						
.834		-.0630								
.839			.0587							
.850					.0606	.0693	.0623			
.857				.0519					-.3094	
.862										
.865		-.0008								
.879			.0520							
.900		.0314			.0599			.0702		
.905				.0483						
.919			.0371							
.950					.0872	.1218	.1196			
.953				.0667						
.955			.0513							
.965		.0571								

ALPHA (3) = 3.957 BETA (3) = .162 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1716	-.1378	-.0969	.2191	.4408	.4193	.3862	.3044	-.3050	
.010		-.1783	-.0676		-.1290	-.0815	-.2206	-.4765		
.020		-.1623		.0000	-.2426	-.3146	-.3940	-.5408	-.5818	
.040			-.0226	-.2473						
.041	-.1540									
.050					-.4590	-.5622	-.6347	-.6699		
.069									-.6326	
.080					-.6153					
.081				-.3708						
.086			-.0335							
.094		-.1106								
.113	-.1050									
.150					-.6351	-.7330	-.8024	-.7344		
.157									-.6583	
.163			.0000							
.177				-.4939						
.229		-.0250								
.245			-.3536							
.247	-.0589									
.250					-.6171	-.7146	-.7825	-.8086		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3: = 3.957 BETA (3) = .162

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4882						
.345									-.5351	
.362		-.1730								
.390			-.3903							
.400					-.3905	-.4594		-.5101		
.402				-.3718						
.418										-.6778
.429	-.0637									
.497		-.3578								
.503									-.5187	
.547	-.2869									
.550					-.2241	-.2695				
.565				-.1575						
.600								-.2721		
.633	-.3052									
.637			-.1129							
.650							-.1837			
.670									-.4120	
.700		-.0994				-.1149				
.723										-.7950
.725					-.0898					
.727	-.1150									
.750							-.0343	-.0441		
.760				-.0989						
.775					-.0258	-.0505				
.793	.0849									
.798			-.1014							
.808				.0048						
.834		-.1070								
.853			.0165							
.850					.0362	.0466	.0546			
.857				.0264						
.862									-.2784	
.875		-.0574								
.879			.0191							
.900		-.0028			.0374			.0732		
.905				.0257						
.919			.0108							
.940					.0725	.1010	.1121			
.953				.0539						
.965			.0265							
.985		.0207								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3) = 3.954 BETA (4) = 4.202 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2318	-.2615	-.2204	.1147	.3438	.3144	.2779	.1639	-.4935	
.010		-.2589	-.1429		-.2299	-.2051	-.3478	-.6024		
.020		-.2207		.0000	-.3148	-.3990	-.5023	-.6559	-.6861	
.040			-.0667	-.2843						
.041	-.1899									
.050					-.4955	-.6070	-.6876	-.7297		
.069									-.6718	
.080					-.6229					
.081				-.3798						
.088			-.0643							
.094		-.1270								
.113	-.1276									
.150					-.6340	-.7318	-.7941	-.7346		
.157									-.6649	
.163			.0000							
.177				-.4877						
.229		-.0414								
.240			-.3435							
.247	-.0713									
.250					-.6162	-.7029	-.7737	-.7955		
.274				-.4751						
.345									-.5178	
.362		-.1723								
.380			-.3854							
.400					-.4039	-.4741		-.5090		
.402				-.3808						
.418										-.9305
.429	-.0668									
.497		-.3654								
.503									-.4825	
.547	-.2788									
.550					-.2541	-.2871				
.565				-.1862						
.600								-.2665		
.633	-.3226									
.637			-.1677							
.650							-.1912			
.670									-.3643	
.700		-.1301				-.1299				
.723										-.8742
.725					-.1142					
.727	-.1383									
.750							-.0477	-.0435		
.760				-.1295						
.775					-.0503	-.0710				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (3) = 3.954 BETA (4) = 4.202

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.933	.0398									
.949			-.1410							
.898				-.0459						
.934		-.1411								
.839			-.0155							
.900					.0138	.0158	.0424			
.857				-.0199						
.862									-.1949	
.885		-.0903								
.879			-.0089							
.910		-.0326			.0178			.0652		
.905				-.0121						
.919			-.0196							
.950					.0538	.0836	.1069			
.963				.0227						
.955			.0018							
.955		-.0162								

ALPHA (3) = 3.960 BETA (5) = 8.252 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.3113	-.4026	-.2444	-.0546	.2171	.1983	.1477	.0321	-.7154	
.010		-.3271	-.1239		-.3517	-.3265	-.4641	-.7170		
.020		-.2463		.0000	-.4189	-.4797	-.5784	-.7449	-.7359	
.040			-.1036	-.3293						
.061	-.2286									
.080					-.5403	-.6420	-.7240	-.7606		
.080					-.6490				-.6944	
.100				-.3842						
.099			-.1213							
.099		-.2199								
.113	-.1605									
.120					-.6300	-.7146	-.7827	-.7263		
.107									-.6168	
.163			.0000							
.177				-.4506						
.219		-.0345								
.240			-.4205							
.247	-.0793									
.300					-.6076	-.6876	-.7456	-.7670		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (3) = 3.960 BETA (5) = 8.252

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4571					-.4687	
.345										
.362		-.161								
.390			-.3853							
.400					-.4161	-.4771		-.4887		
.402				-.3978						-1.1616
[illegible]	-.0706									
[illegible]		-.3657							-.4430	
[illegible]	-.2809									
[illegible]					-.2712	-.2969				
[illegible]				-.2643						
[illegible]								-.2571		
[illegible]	-.3422									
[illegible]			-.1715							
[illegible]							-.1989			
[illegible]									-.2907	
[illegible]		-.1582				-.1371				
[illegible]										-.7550
[illegible]					-.1387					
.727	-.1762									
[illegible]							-.0459	-.0393		
[illegible]				-.1938						
[illegible]					-.1131	-.0774				
[illegible]	.0003									
[illegible]			-.1618							
[illegible]				-.0753						
.834		-.1646								
.839			-.0418							
[illegible]					-.0090	-.0053	.0334			
[illegible]				-.0263						
[illegible]									-.0759	
[illegible]		-.1267								
[illegible]			-.0344							
[illegible]		-.0610			-.0028			.0689		
[illegible]				-.0163						
[illegible]			-.0361							
[illegible]					.0487	.0780	.0967			
[illegible]				.0294						
[illegible]			-.0140							
[illegible]		-.0414								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (YFSU12)

ALPHA [illegible] = [illegible] 904 BETA (1) = -7.922 MACH = .59690 Q = 595.02 P = 2395.7 RN/L = 4.8202

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.7350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.0664	-.1333	-.1791	.1989	.3999	.3472	.2577	.0397	-.7178	
[illegible]		-.2249	-.1784		-.5722	-.5915	-.8440	-1.3000		
[illegible]		-.2053		.0000	-.6890	-.8316	-1.0426	-1.3533	-1.3245	
[illegible]			-.1399	-.5367						
[illegible]	-.0854									
[illegible]					-.9054	-1.1250	-1.2722	-1.3994		
[illegible]									-1.2599	
[illegible]					-1.0593					
[illegible]				-.6827						
[illegible]			-.1648							
[illegible]		-.1390								
[illegible]	-.0635									
[illegible]					-.9465	-1.1296	-1.2342	-1.1402		
[illegible]									-1.2964	
[illegible]			.0000							
[illegible]				-.7376						
[illegible]		-.0508								
[illegible]			-.5310							
[illegible]	-.0452									
[illegible]					-.7842	-.9196	-1.0476	-1.1536		
[illegible]				-.6177						
[illegible]									-1.0770	
[illegible]		-.2590								
[illegible]			-.4648							
[illegible]					-.3948	-.5176		-.6878		
[illegible]				-.3594						
[illegible]										-1.5475
[illegible]	-.1078									
[illegible]		-.4354								
[illegible]									-.9929	
[illegible]	-.3565									
[illegible]					-.1473	-.2490				
[illegible]				-.1099						
[illegible]								-.3657		
[illegible]	-.3320									
[illegible]			-.0914							
[illegible]							-.1945			
[illegible]									-.8813	
[illegible]		-.0441				-.0739				
[illegible]										-1.8175
[illegible]					-.0124					
[illegible]	-.0419									
[illegible]							-.0313	-.1215		
[illegible]				-.0523						
[illegible]					.0494	.0153				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA = 7.904 BETA = -7.922

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2098									
.798			-.0346							
.808				.0341						
.834		-.0239								
.839			.1098							
[illegible]					.0855	.1036	.0459			
[illegible]				.0636						
[illegible]									-.5235	
[illegible]		.0257								
[illegible]			.0991							
[illegible]		.0941			.0864			.0135		
[illegible]				.0557						
[illegible]			.0784							
[illegible]					.1005	.1389	.1031			
[illegible]				.0863						
[illegible]			.0784							
[illegible]		.0958								

ALPHA = 7.913 BETA (2) = -3.891 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
[illegible]	-.1561	-.2916	-.3704	.0128	.2608	.1837	.0931	-.1348	-.9958	
[illegible]		-.3584	-.3137		-.7057	-.7373	-1.0167	-1.4705		
[illegible]		-.3052		.0000	-.7934	-.9605	-1.1669	-1.5094	-1.4733	
[illegible]			-.2265	-.6145						
[illegible]	-.1483									
[illegible]					-.9681	-1.1628	-1.3498	-1.4515		
[illegible]									-1.3017	
[illegible]					-1.0944					
[illegible]				-.7252						
[illegible]			-.2235							
[illegible]		-.1798								
[illegible]	-.1202									
[illegible]					-.9532	-1.1319	-1.2273	-1.1401		
[illegible]									-1.2824	
[illegible]			.0000							
[illegible]				-.7429						
[illegible]		-.0936								
[illegible]			-.5378							
[illegible]	-.0993									
[illegible]					-.7990	-.9289	-1.0198	-1.1502		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU12)

ALPHA (4) = 7.913 BETA (2) = -3.891

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/Cw \ Y/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.6285						
.345									-1.0119	
.362		-.2983								
.390			-.4868							
[illegible]					-.4285	-.5319		-.6826		
[illegible]				-.4042						
[illegible]										-1.8987
[illegible]	-.1235									
[illegible]		-.4861								
[illegible]									-.9228	
[illegible]	-.3819									
[illegible]					-.1898	-.2727				
[illegible]				-.1658						
[illegible]								-.3641		
[illegible]	-.3709									
[illegible]			-.1272							
[illegible]							-.2012			
[illegible]									-.8309	
[illegible]		-.1181				-.0974				
[illegible]										-1.7522
[illegible]					-.0479					
[illegible]	-.0991									
[illegible]							-.0451	-.1207		
[illegible]				-.0946						
[illegible]					-.0001	-.0192				
[illegible]	.1372									
[illegible]			-.1001							
[illegible]				.0052						
[illegible]		-.0523								
[illegible]			.0352							
[illegible]					.0385	.0684	.0373			
[illegible]				.0379						
[illegible]									-.6205	
[illegible]		-.0020								
[illegible]			.0409							
[illegible]		[illegible]			.0373			.0093		
[illegible]				.0369						
[illegible]			.0307							
[illegible]					.0579	.1182	.0946			
[illegible]				.0585						
[illegible]			.0502							
[illegible]		[illegible]								

AMES 11-073(0A1+8) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (A1) = 7.912 BETA (B1) = .160 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.8990	.3840	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.0000	-.2638	-.4711	-.5450	-.1712	.1073	.0404	-.0568	-.2396	-1.2627	
.0010		-.4804	-.3855		-.8249	-.8441	-1.1375	-1.5459		
.0021		-.3788		.0000	-.8874	-1.0413	-1.2384	-1.6886	-1.5485	
.0042			-.2375	-.6418						
.0063	-.2119									
.0084					-.9902	-1.1852	-1.3549	-1.4672		
.0105									-1.2884	
.0126					-1.0884					
.0147				-.7080						
.0168			-.2113							
.0189		-.2056								
.0210	-.1781									
.0231					-.9857	-1.1038	-1.1938	-1.0714		
.0252									-1.1675	
.0273			.0000							
.0294				-.7162						
.0315		-.1680								
.0336			-.5837							
.0357	-.1934									
.0378					-.7823	-.9178	-.9947	-1.0999		
.0399				-.6068						
.0420									-.9288	
.0441		-.3371								
.0462			-.5131							
.0483					-.4373	-.5405		-.6556		
.0504				-.4383						
.0525										-2.1287
.0546	-.1872									
.0567		-.5035								
.0588									-.8431	
.0609	-.1434									
.0630					-.2398	-.2881				
.0651				-.2264						
.0672								-.3572		
.0693	-.1934									
.0714			-.2155							
.0735							-.1118			
.0756									-.8050	
.0777		-.1381				-.1142				
.0798										-1.6311
.0819					-.0979					
.0840	-.1381						-.0580	-.1174		
.0861				-.1214						
.0882					-.0819	-.0352				

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

AMES 11-073(OA 48) -140A/B C/R ORB LEFT WING TOP (XEBU12)

[illegible] 7.912 BETA [illegible] = [illegible]

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0719									
[illegible]			-.1230							
[illegible]				-.0392						
[illegible]		-.1062								
[illegible]			.0330							
[illegible]					-.0042	.0261	.0297			
[illegible]				-.0249						
[illegible]									-.7693	
[illegible]		-.0426								
[illegible]			.0395							
[illegible]		.0092			-.0028			.0130		
[illegible]				-.0313						
[illegible]			.0228							
[illegible]					.0459	.0929	.0854			
[illegible]				-.0084						
[illegible]			.0375							
[illegible]		.0126								

ALPHA [illegible] = 7.910 BETA [illegible] = 4.204 MACH = .59590 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.7506	-.6272	-.5217	-.3398	-.0498	-.1287	-.2499	-.5178	-1.6930	
[illegible]		-.4947	-.2624		-.9372	-.9917	-1.3081	-1.7601		
[illegible]		-.3550		.0000	-.9375	-1.1221	-1.3435	-1.7752	-1.7207	
[illegible]			-.2315	-.6233						
[illegible]	-.2652									
[illegible]					-.9987	-1.2094	-1.3919	-1.5487		
[illegible]									-1.3370	
[illegible]					-1.0537					
[illegible]				-.6390						
[illegible]			-.2635							
[illegible]		-.3784								
[illegible]	-.2121									
[illegible]					-.9008	-1.0056	-1.1748	-1.0859		
[illegible]									-1.1306	
[illegible]			.0000							
[illegible]				-.6385						
[illegible]		-.2123								
[illegible]			-.6119							
[illegible]	-.1055									
[illegible]					-.7575	-.8997	-.9922	-1.0550		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEEU12)

ALPHA (4) = 7.910 BETA (4) = 4.204

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.0050	.990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.074				-.6118						
.345									-.9013	
.358		-.2554								
.390			-.6521							
.400					-.4422	-.5383		-.6424		
.408				-.4465						
.410										-2.5248
.410	-.1348									
.490		-.4925								
.503									-.8167	
.540	-.4129									
.550					-.2985	-.2945				
.560				-.2572						
.560								-.3502		
.560	-.4059									
.560			-.1685							
.560							-.2190			
.560									-.9699	
.560		-.1410				-.1309				
.560										-1.5353
.560					-.1476					
.560	-.1778									
.560							-.0649	-.1183		
.560				-.2136						
.560					.1320	-.0844				
.560	.0161									
.560			-.1466							
.560				-.1164						
.560		-.1386								
.560			-.0135							
.560					.0267	-.0269	.0161			
.560				-.0561						
.560									-.7938	
.560		-.0857								
.560			-.0099							
.560		-.0292			.0228			.0091		
.560				-.0426						
.560			-.0156							
.560					.0641	.0592	.0747			
.560				.0096						
.560			.0053							
.560		-.0210								

AMES 11- [illegible] 140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA (4) = 7.909 BETA (5) = 8.2[illegible] .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION (1) LEFT WING TOP SURF [illegible] ABLE CP

2Y BW	.2350	.2990	3640	.4270	[illegible]	[illegible]	.7800	.8870	.9720	1.0000
X CW										
.000	-.4614	-.7098	-.3656	-.5045	-	[illegible]75	-.4468	-.7270	-2.0449	
.010		-.4002	-.3051		-1.0[illegible]	-1.1383	-1.4867	-1.8182		
.020		-.3871		.0000	-.9973	-1.2239	-1.4371	-1.8886	-1.5912	
.040			-.3163	-.5045						
.041	-.3786									
.050					-.9932	-1.2241	-1.4097	-1.5856		
.069									-1.2747	
.080					-1.0112					
.081				-.5706						
.086			-.3494							
.094		-.4107								
.113	-.2088									
.150					-.8374	-1.0143	-1.1387	-1.0588		
.157									-1.0679	
.163			.0000							
.177				-.6085						
.229		-.3108								
.246			-.7822							
.247	-.1344									
.250					-.6834	-.8596	-.9318	-1.0011		
.274				-.6101						
.345									-.8278	
.362		-.2254								
.390			-.5368							
.400					-.4971	-.5132		-.5913		
.402				-.5890						
.418										-1.9763
.429	-.1427									
.497		-.4773								
.503									-.6954	
.547	-.4086									
.550					-.3086	-.2992				
.565				-.3817						
.600								-.3239		
.633	-.4133									
.6[illegible]			-.1965							
.650							-.1912			
.670									-.7412	
.700		-.1834				-.1613				
.723										-1.1372
.725					-.1520					
.727	-.1932									
.750							-.0565	-.0969		
[illegible]				-.2063						
[illegible]					-.1234	-.1276				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (4) = 7.909 BETA (5) = 8.256

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.0300									
.798			-.1640							
.808				-.0811						
.834		-.1686								
.839			-.0396							
.850					-.0535	-.0558	.0069			
.857				-.0360						
.862									-.5498	
.865		-.1102								
.879			-.0327							
.900		-.0543			-.0651			.0121		
.905				-.0198						
.919			-.0334							
.930					-.0372	.0625	.0591			
.953				.0208						
.955			-.0161							
.965		-.0415								

ALPHA (5) = 11.950 BETA (1) = -7.879 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1564	-.5161	-.7795	-.3741	-.1217	-.2529	-.3986	-.7061	-1.9676	
.010		-.6135	-.6592		-1.5537	-1.6027	-2.0559	-2.4855		
.020		-.4846		.0000	-1.5304	-1.8117	-2.1800	-2.6135	-2.6682	
.040			-.4913	-1.0738						
.041	-.1493									
.050					-1.6581	-1.9595	-2.3184	-2.5737		
.060									-2.6355	
.080					-1.7449					
.081				-1.1278						
.085			-.4386							
.094		-.2202								
.113	-.1609									
.150					-1.2875	-1.4059	-1.5299	-1.4430		
.157									-2.0061	
.163			.0000							
.177				-.9539						
.229		-.2006								
.245			-.6929							
.247	-.0838									
.250					-.9253	-1.1228	-1.2190	-1.4032		

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

ALPHA (S' = 11.950 BETA (1) = -7.879

SECTION (1'LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7093					-1.8888	
.345										
.362		-.4806								
.390			-.6207							
.400					-.3855	-.5462		-.8115		
.408				-.4711						-2.3066
.418										
.429	-.1840									
.497		-.7376							-1.8813	
.503										
.547	-.4994				-.1981	-.2237				
.560				-.2235						
.565								-.4768		
.600										
.633	-.4218									
.647			-.1290				-.2045			
.650									-1.2778	
.670						-.0742				
.700		-.1102								-1.6938
.723					-.1024					
.725										
.727	-.0619						-.0841	-.2921		
.750				-.0754						
.752					-.1348	-.0164				
.775										
.793	.1929									
.798			-.1355							
.808				.0033						
.834		-.0028								
.839			-.0034							
.851					-.0317	.0354	-.0087			
.857				.0025						
.862									-1.0257	
.865		.0817								
.879			.0516							
.891		.1330			-.0229			-.1209		
.898				-.0258						
.919			.0611							
.931					.0330	.1035	.0521			
.953				-.0195						
.960			.0916							
.964		.1122								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (5) = 11.969 BETA (2) = -3.871 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2786	-.7314	-.8897	-.6049	-.3235	-.4499	-.6199	-.9232	-2.3543	
.010		-.7254	-.5656		-1.7034	-1.8163	-2.2214	-2.6717		
.020		-.5203		.0000	-1.6375	-1.9586	-2.4086	-2.7852	-2.6146	
.040			-.3365	-1.0602						
.041	-.2346									
.060					-1.6685	-2.0130	-2.4548	-2.6568		
.083									-2.5925	
.080					-1.7106					
.081				-1.0450						
.088			-.3656							
.094		-.3815								
.113	-.2256									
.130					-1.2799	-1.4296	-1.4128	-1.5350		
.157									-2.0407	
.163			.0000							
.177				-.8851						
.223		-.4595								
.246			-.7421							
.247	-.1139									
.280					-.8897	-1.1090	-1.2044	-1.2997		
.274				-.7882						
.346									-1.9818	
.389		-.6155								
.390			-.6225							
.430					-.4641	-.5575		-.8051		
.447				-.5560						
.414										-2.1396
.429	-.1994									
.497		-.6904								
.573									-2.0116	
.547	-.5423									
.550					-.3074	-.2598				
.566				-.1590						
.600								-.4848		
.633	-.4676									
.631			-.2703							
.650							-.2095			
.673									-1.5045	
.700		-.1110				-.1204				
.733										-1.5352
.745					-.1777					
.737	-.1510									
.750							-.0915	-.3175		
.760				-.0863						
.775					-.1881	-.0617				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (5) = 11.868 BETA (2) = -3.871

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0385									
.798			-.1399							
.808				-.0250						
.834		-.0749								
.839			-.0151							
.850					.0174	-.0094	-.0252			
.857				-.0179						
.882									-1.0865	
.885		.0054								
.878			.0015							
.910		.0586			.0384			-.1298		
.906				-.0337						
.919			-.0013							
.950					.1020	.0496	.0364			
.953				-.0122						
.955			.0163							
.955		.0473								

ALPHA (5) = 11.970 BETA (3) = .155 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4030	-.8947	-.8856	-.8015	-.5053	-.6427	-.8173	-1.1079	-2.5423	
.010		-.6192	-.4339		-1.7822	-1.9617	-2.3427	-2.7923		
.030		-.4763		.0000	-1.6877	-2.0888	-2.5440	-2.8787	-2.0553	
.040			-.3993	-.9200						
.041	-.3521									
.050					-1.6334	-2.0188	-2.5042	-2.7156		
.060									-1.8430	
.080					-1.5783					
.081				-.8696						
.086			-.4589							
.094		-.5197								
.113	-.2214									
.160					-1.1436	-1.4009	-1.4804	-1.5706		
.157									-1.6895	
.163			.0000							
.177				-.8737						
.209		-.6786								
.246			-.7967							
.243	-.1550									
.250					-.8016	-1.0464	-1.1547	-1.1728		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU12)

ALPHA (5) = 11.970 BETA (3) = .156

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7834						
.345									-1.6958	
.372		-.5569								
.390			-.7287							
.400					-.5364	-.5151		-.7615		
.402				-.5034						
.418										-1.8533
.429	-.2319									
.440		-.6903								
.503									-1.6514	
.514	-.5399									
.540					-.3948	-.2933				
.561				-.2682						
.610								-.4542		
.628	-.4916									
.637			-.3183							
.662							-.2016			
.679									-1.2013	
.700		-.1348				-.1578				
.728										-1.3417
.736					-.1076					
.754	-.1743									
.760							-.1208	-.2592		
.780				-.1972						
.786					-.0707	-.1592				
.798	.0514									
.798			-.1471							
.809				-.2146						
.834		-.1095								
.839			-.0069							
.850					.0259	-.1012	-.0624			
.857				-.1533						
.868									-.8423	
.885		-.0399								
.899			.0060							
.900		.0259			.0303			-.1231		
.915				-.1232						
.919			.0010							
.931					.0589	-.0184	.0058			
.943				-.0763						
.948			.0260							
.956		.0134								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB012)

ALPHA = 11.958 BETA ( ) = 4.216 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

	LEFT WING TOP SURF DEPENDENT VARIABLE CP									
	.0010	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.5300	-.9877	-.6019	-.9019	-.6972	-.8588	-1.0471	-1.3498	-2.5882	
.010		-.5457	-.4673		-1.8462	-2.1138	-2.5707	-2.6527		
.020		-.6849		.0000	-1.6743	-2.1937	-2.6957	-2.6164	-1.7149	
.040			-.4774	-.7517						
.041	-.4969									
.060					-1.5309	-1.9[illegible]1	-2.6039	-2.4087		
.080									-1.6654	
.081					-1.4340					
.100				-.8192						
.120			-.5026							
.140		-.5727								
.142	-.2447									
.160					-1.0152	-1.3303	-1.4638	-1.8624		
.180									-1.5827	
.183			.0000							
.200				-.8265						
.220		-.7034								
.240			-.6695							
.244	-.1969									
.260					-.8028	-.9625	-1.1090	-1.2521		
.274				-.7546						
.280									-1.4737	
.302		-.4958								
.320			-.8512							
.400					-.5861	-.5217		-.6835		
.402				-.6488						
.419										-1.3573
.420	-.2464									
.440		-.6278								
.460									-1.3877	
.467	-.5334									
.480					-.3259	-.3710				
.500				-.5366						
.520								-.3393		
.522	-.5029									
.540			-.2603							
.560							-.2518			
.580									-1.0540	
.600		-.1659				-.2406				
.620										-1.0311
.640					-.1640					
.660	-.2057									
.680							-.2157	-.1821		
.700				-.2350						
.720					-.1903	-.1494				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U12)

ALPHA S = 11.968 BETA (S) = 4.216

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.033	.0024									
.048			-.1556							
.818				-.1635						
.834		-.1441								
.839			-.0185							
.850					-.1372	-.0551	-.1458			
.865				-.0872						
.880									-.7395	
.895		-.0854								
.910			-.0118							
.925		-.0187			-.1056			-.1207		
.940				-.0584						
.955			-.0161							
.970					-.0758	.0476	-.0557			
.983				.0087						
.998			.0082							
1.013		-.0112								

ALPHA S = 11.959 BETA (S) = 8.279 MACH = .59660 Q = 534.43 P = 2385.7 RN/L = 4.8152

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.033	-.6770	-1.0830	-.6472	-.9673	-.9143	-1.1281	-1.3183	-1.5800	-1.9182	
.048		-.6997	-.5066		-1.6702	-2.3012	-2.7395	-2.4259		
.818		-.6009		.0000	-1.6306	-2.3590	-2.8490	-2.3894	-1.5211	
.834			-.5239	-.7465						
.839	-.6970									
.850					-1.4051	-1.8552	-2.6733	-2.1391		
.865									-1.4332	
.880					-1.2625					
.895				-.7798						
.910			-.5751							
.925		-.6140								
.940	-.3245									
.955					-.9315	-1.2376	-1.3918	-1.9194		
.970									-1.3407	
.983			.0000							
.998				-.8008						
1.013		-.9358								
1.028			-1.0189							
1.043	-.2481									
1.058					-.8228	-.8643	-1.0248	-1.3764		

DATE [illegible] FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140[illegible]/B/C/R ORB LEFT WING TOP (XEBU12)

[illegible] = 11.[illegible] BETA (5) = 8.279

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2250	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* Cp										
.274				-.7770					-1.2112	
.345										
.352		-.4088								
.390			-.7316							
[illegible]					-.5667	-.5840		-.6704		
[illegible]				-.8103						-1.1278
[illegible]										
[illegible]	-.2438									
[illegible]		-.6185							-1.2057	
.503										
.547	-.5271									
.550					-.4219	-.4341				
.555				-.5327						
[illegible]								-.3058		
.633	-.4975									
.637			-.2754							
.650							-.3315			
.670									-.9638	
[illegible]		-.2151				-.2679				
[illegible]										-.8046
.725					-.2872					
[illegible]	-.2219									
[illegible]							-.2915	-.1792		
[illegible]				-.2340						
[illegible]					-.4085	-.1383				
.793	-.0316									
[illegible]			-.1754							
[illegible]				-.1459						
[illegible]		-.1731								
[illegible]			-.0629							
[illegible]					-.2660	-.0789	-.1921			
[illegible]				-.0319						
[illegible]									-.6310	
.925		-.1195								
[illegible]			-.0450							
[illegible]		-.0543			-.2646			-.1070		
[illegible]				-.0541						
[illegible]			-.0312							
[illegible]					-.1773	-.0201	-.0700			
[illegible]				.0113						
[illegible]			-.0008							
[illegible]		-.0394								

AMES 11-073:OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13) (05 AUG 75)

REFERENCE DATA

SREF = 6930.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0200

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 35.000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA ( ) = -4.108 BETA ( ) = -3.886 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

BETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
ETA										
.000	-.1338	-.1394	-.1046	.2902	.7069	.6504	.6142	.6330	-.3203	
.010		-.1019	.0021		.7030	.7460	.7031	.6297		
.020		-.0764		.0000	.6763	.5442	.6199	.5904	.0185	
.030			.0683	.3991						
.040	-.0470									
.050					.4765	.4359	.4187	.4146		
.060									-.0334	
.070					.2868					
.080				.0099						
.090			.1712							
.100		-.0171								
.110	-.0240									
.120					.0569	.0664	.0958	.1262		
.130									-.1697	
.140			.0000							
.150				.1164						
.160		.0523								
.170			.1098							
.180	-.0225									
.190					-.0791	-.0877	-.0801	-.0818		
.200				-.0155						
.210									-.2047	
.220		.1467								
.230			-.0084							
.240					-.2056	-.2498		-.2790		
.250				-.1759						
.260										-.3873
.270	.0600									
.280		.0071								
.290									-.2449	
.300	.0779									
.310					-.2579	-.2943				
.320				-.1716						
.330								-.3536		
.340	-.0263									
.350			-.1444							
.360							-.3512			
.370									-.3253	

AMES 11-073(OA148) -14OA/B/C/R ORB LEFT WING TOP (XESL13)

ALPHA (1) = -4.105 BETA (1) = -3.886

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
700		-.1184				-.3099				
723										-.3735
725					-.0429					
727	-.1008									
[illegible]							-.3360	-.3440		
[illegible]				.0067						
[illegible]					.1117	-.1118				
793	.2518									
[illegible]			.0617							
[illegible]				.2241						
[illegible]		.1213								
[illegible]			.2098							
[illegible]					.1769	-.0224	-.3066			
[illegible]				.1863						
[illegible]									-.2715	
[illegible]		.0961								
[illegible]			.1701							
[illegible]		.1698			.1537			-.2579		
[illegible]				.1716						
[illegible]			.1387							
[illegible]					.1547	.1206	-.1720			
[illegible]				.1419						
[illegible]			.1361							
[illegible]		.2259								

ALPHA (1) = -4.030 BETA (2) = .154 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
[illegible]	-.564	-.0681	-.0550	.2574	.6328	.5627	.5223	.5322	-.3906	
[illegible]		-.0483	.0009		.5614	.6186	.6123	.5460		
[illegible]		-.0590		.0000	.5879	.5533	.5337	.5084	-.0641	
[illegible]			.0348	.3174						
[illegible]	-.1082									
[illegible]					.4046	.3645	.3503	.3469		
[illegible]									-.1043	
[illegible]					.2260					
[illegible]				.2415						
[illegible]			.1288							
[illegible]		-.0467								
[illegible]	-.0858									
[illegible]					.0329	.0378	.0614	.0916		

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING TOP (XEBU13)

ALPHA (1) = -4.030 BETA (2) = .154

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0750	.2700	.3040	.4270	.5340	.6730	.7800	.8070	.0720	1.0000
* Cp										
[illegible]									-.2206	
[illegible]			.0000							
[illegible]				.0857						
[illegible]		.0356								
[illegible]			.0682							
[illegible]	-.0492									
[illegible]					-.0923	-.0960	-.1023	-.1071		
[illegible]				-.0245						
[illegible]									-.2427	
[illegible]		.1160								
[illegible]			-.0236							
[illegible]					-.2034	-.2481		-.2867		
[illegible]				-.1826						
[illegible]										-.4474
[illegible]	.0329									
[illegible]		-.0369								
[illegible]									-.2691	
[illegible]	.0493									
[illegible]					-.2485	-.2810				
[illegible]				-.1645						
[illegible]								-.3633		
[illegible]	-.0691									
[illegible]			-.0500							
[illegible]							-.3379			
[illegible]									-.3316	
[illegible]		-.0797				-.2741				
[illegible]										-.4389
[illegible]					-.0137					
[illegible]	-.0980						-.3229	-.3557		
[illegible]				.0374						
[illegible]					.0987	-.0229				
[illegible]	.2939									
[illegible]			.0803							
[illegible]				.1510						
[illegible]		.0982								
[illegible]			.1417							
[illegible]					.1725	.0123	-.2790			
[illegible]				.1265						
[illegible]									-.2755	
[illegible]		.0280								
[illegible]			.1042							
[illegible]		.1139			.1218			-.2692		
[illegible]				.1114						
[illegible]			.0976							

[illegible] TABULATED PRESSURE DATA - 0140 (AMES 11-OT3-1)

0403 11-073(041+9) -140A B/C/P ORB LEFT WING TOP (XEBJ13)

ALPHA [illegible] BETA (2+ = .5+

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0000	.0990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]										
[illegible]					.1081	.1173	-.0465			
[illegible]				.1004						
[illegible]			/31							
[illegible]		.1886								

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 TOP SURF DEPENDENT VARIABLE Cp

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]										
.0000	-.1695	-.0784	-.0287	.2504	.5590	.4787	.4277	.4293	-.4296	
.0010		-.0846	.0013		.5706	.5503	.5137	.4509		
.0020		-.1012		.0000	.5011	.4604	.4434	.4212	-.1436	
[illegible]			.0226	.2651						
[illegible]	-.1581									
[illegible]					.3368	.2928	.2779	.2784		
[illegible]									-.1725	
[illegible]					.1805					
[illegible]				.2006						
[illegible]			.1027							
[illegible]		-.0659								
.0113	-.1441									
[illegible]					.0098	.0030	.0235	.0467		
[illegible]									-.2658	
[illegible]			.0000							
[illegible]				.0646						
[illegible]		.0180								
[illegible]			.0491							
[illegible]	-.0617									
[illegible]					-.1035	-.1159	-.1212	-.1314		
[illegible]				-.0280						
[illegible]									-.2[illegible]92	
[illegible]		.1095								
[illegible]			-.0259							
[illegible]					-.2100	-.2514		-.3015		
[illegible]				-.1839						
[illegible]										-.4919
[illegible]	.0235									
[illegible]		-.0400								
[illegible]									-.3009	
[illegible]	.0385									
[illegible]					-.2456	-.2871				
[illegible]				-.1545						

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (1) = -4.039 BETA (3) = 4.249

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3744		
.633	-.0859									
.637			.0360							
.650							-.3315			
.670									-.3398	
.700		-.0216				-.1399				
.723										-.4841
.725					.0175					
.727	-.0942									
.750							-.3197	-.3603		
.760				.0349						
.775					.1054	.0060				
.793	.3002									
.799			.0372							
.808				.1211						
.834		.0742								
.839			.1089							
.850					.1480	.0353	-.1148			
.857				.0845						
.882									-.2824	
.885		.0005								
.873			.0578							
.900		.0682			.0852			-.2286		
.905				.0616						
.919			.0460							
.950					.0660	.0933	.0164			
.953				.0620						
.955			.0306							
.965		.1013								

ALPHA (2) = -.033 BETA (1) = -3.905 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.003	-.0361	.0154	.0161	.4027	.7559	.7073	.6765	.6880	-.1510	
.010		.0195	.0322		.6076	.6478	.6050	.5099		
.020		-.0005		.0000	.5073	.5088	.4854	.4595	.0127	
.040			.0515	.2434						
.041	-.0363									
.060					.2924	.2773	.2613	.2630		
.069									-.0573	
.080					.1168					

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (2) = -.033 BETA (1) = -3.905

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/EW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1238						
.096			.1127							
.094		-.0562								
.113	-.0327									
.150					-.0848	-.0743	-.0395	-.0081		
.157									-.2134	
.163			.0000							
.177				-.0190						
.229		-.0055								
.246			.0035							
.247	-.0560									
.250					-.2256	-.2274	-.2102	-.1941		
.274				-.1489						
.345									-.2738	
.362		.0687								
.390			-.1204							
.400					-.3226	-.3683		-.3737		
.402				-.2746						
.418										-.1793
.429	.0096									
.497		-.0790								
.503									-.3223	
.547	.0060									
.550					-.3556	-.4017				
.565				-.2719						
.600								-.4216		
.633	-.1183									
.637			-.2312							
.650							-.4441			
.670									-.4106	
.700		-.1975				-.4026				
.723										-.2191
.725					-.1861					
.727	-.1687									
.750							-.4453	-.4237		
.760				-.1110						
.775					-.0720	-.2355				
.793	.0280									
.799			-.0731							
.808				.0670						
.834		.0228								
.839			.1274							
.852					-.0098	-.1898	-.4066			
.857				.1113						
.862									-.3940	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (2) = -.033 BETA (1) = -3.905

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		.0185								
.879			.1125							
.900		.1001			.0300			-.3459		
.905				.1166						
.919			.0911							
.950					.0845	-.1550	-.1974			
.953				.1058						
.955			.0944							
.965		.1462								

ALPHA (2) = -.028 BETA (2) = .144 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0545	-.0247	-.0283	.3525	.6647	.6143	.5807	.5861	-.2058	
.010		-.0456	-.0086		.4937	.5398	.5083	.4196		
.020		-.0667		.0000	.4008	.4110	.3949	.3728	-.0629	
.040			.0137	.1696						
.041	-.0887									
.050					.2170	.2031	.1915	.1932		
.069									-.1249	
.080					.0600					
.081				.0665						
.085			.0703							
.094		-.1121								
.113	-.0994									
.150					-.1182	-.1129	-.0828	-.0482		
.157									-.2814	
.163			.0000							
.177				-.0516						
.229		-.0214								
.246			-.0321							
.247	-.1032									
.250					-.2367	-.2483	-.2386	-.2216		
.274				-.1550						
.345									-.3042	
.362		.0435								
.390			-.1232							
.400					-.3128	-.3693		-.3898		
.402				-.2688						
.419										-.1997
.429	-.0146									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (2) = -.028 BETA (2) = .144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1019								
.503									-.3443	
.547	-.0132									
.550					-.3441	-.3934				
.565				-.2700						
.600								-.4350		
.633	-.1465									
.637			-.2237							
.650							-.4422			
.670									-.4088	
.700		-.1945				-.3787				
.723										-.2322
.725					-.1380					
.727	-.1732									
.750							-.4297	-.4357		
.760				-.1019						
.775					-.0744	-.1800				
.793	.1300									
.798			-.0515							
.808				.0429						
.834		.0164								
.839			.0583							
.850					.0085	-.1630	-.3712			
.857				.0681						
.862									-.3724	
.865		-.0313								
.879			.0535							
.900		.0331			.0412			.3589		
.905				.0586						
.919			.0379							
.950					.0696	-.0670	-.1648			
.953				.0562						
.955			.0390							
.985		.0640								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (2) = -.033 BETA (3) = 4.229 MACH = 1.3950 Q = 699.93 P = 440.41 RN/L = 2.9115

SECTION (1)LEFT WING TOP SURF ! DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0722	-.0991	-.0876	.2902	.5831	.5301	.4908	.4949	-.2092	
.010		-.1331	-.0537		.3870	.4407	.4073	.3234		
.020		-.1428		.0000	.3173	.3230	.3081	.2847	-.1241	
.040			-.0210	.1174						
.041	-.1335									
.050					.1590	.1370	.1216	.1242		
.059									-.1780	
.090					.0170					
.081				.0353						
.086			.0342							
.094		-.1618								
.113	-.1565									
.150					-.1297	-.1463	-.1172	-.0888		
.157									-.2991	
.163			.0000							
.177				-.0697						
.223		-.0331								
.246			-.0370							
.247	-.1342									
.250					-.2257	-.2663	-.2581	-.2506		
.274				-.1466						
.345									-.3226	
.352		.0416								
.330			-.1236							
.400					-.3046	-.3592		-.4049		
.402				.2638						
.418										-.1567
.429	-.0150									
.447		-.1093								
.503									-.3502	
.507	-.0222									
.500					-.3385	-.3821				
.585				-.2633						
.600								-.4527		
.633	-.1674									
.647			-.1642							
.650							-.4289			
.670									.4015	
.700		-.1765				-.3174				
.723										-.3019
.775					-.1331					
.787	-.1732									
.750							-.4123	-.4415		
.750				-.0893						
.775					-.0597	-.1624				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (2) = -.033 BETA (3) = 4.229

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.783	.1653									
.799			-.0450							
.808				.0217						
.834		.0001								
.839			.0215							
.850					.0250	-.1196	-.2452			
.857				.0272						
.882									-.3599	
.865		-.0619								
.879			.0044							
.903		-.0092			.0385			-.3332		
.905				.0170						
.919			-.0084							
.950					.0457	-.0168	-.1665			
.953				.0144						
.955			-.0075							
.965		.0009								

ALPHA (3) = 3.851 BETA (1) = -3.904 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0481	.0276	-.0405	.3825	.7475	.7393	.7144	.7008	.0720	
.010		-.0173	-.0518		.3832	.4939	.4600	.3481		
.020		-.0348		.0000	.2835	.3310	.3215	.2830	-.0542	
.040			-.0461	.0439						
.041	-.0249									
.060					.0776	.1049	.1012	.0898		
.063									-.1008	
.080					-.0772					
.081				-.0633						
.085			-.0068							
.094		-.0833								
.113	-.0382									
.150					-.2843	-.2338	-.1901	-.1470		
.157									-.2742	
.163			.0000							
.177				-.1869						
.229		-.0957								
.245			-.1235							
.247	-.0621									
.250					-.3485	-.3644	-.3352	-.3040		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (3) = 3.851 BETA (1) = -3.904

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW / X CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.2795						
.345									-.3427	
.362		-.0192								
.390			-.2221							
.400					-.4362	-.4774		-.4554		
.402				-.3600						
.418										-.1337
.429	-.0531									
.497		-.1609								
.503									-.4182	
.547	-.0639									
.550					-.4461	-.5084				
.555				-.3526						
.600								-.4783		
.643	-.2095									
.637			-.3061							
.650							-.4973			
.655									-.5292	
.700		-.2738				-.5089				
.703										-.4185
.725					-.2525					
.727	-.2432									
.750							-.5261	-.4787		
.760				-.1709						
.775					-.2116	-.3492				
.793	-.1683									
.798			-.1644							
.808				-.1128						
.834		-.0671								
.839			-.0210							
.850					-.1848	-.2542	-.4894			
.857				-.0456						
.860									-.5848	
.866		-.0517								
.879			.0411							
.901		.0649			-.1699			-.4226		
.905				.0086						
.919			.0551							
.920					-.0996	-.1920	-.2596			
.953				.0499						
.955			.0573							
.960		.0651								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (B) = 3.349 BETA (B) = .141 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

OPTION = 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA / XSM	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0080
.000	.0203	-.0771	-.2057	.2631	.6473	.6402	.6214	.6007	.0215	
.010		-.1321	-.1982		.2655	.3803	.3505	.2446		
.020		-.1347		.0000	.1776	.2306	.2275	.1886	-.1189	
.040			-.1511	-.0240						
.041	-.0722									
.060					.0087	.0299	.0269	.0166		
.069									-.1611	
.080					-.1290					
.081				-.1079						
.086			-.0730							
.094		-.1456								
.113	-.0978									
.155					-.3130	-.2738	-.2313	-.1929		
.157									-.3141	
.163			.0000							
.177				-.2063						
.229		-.1217								
.245			-.1407							
.247	-.1128									
.250					-.3608	-.3890	-.3627	-.3362		
.274				-.2807						
.345									-.3724	
.362		-.0342								
.390			-.2195							
.400					-.4281	-.4844		-.4712		
.402				-.3499						
.418										-.2557
.429	-.0696									
.497		-.1736								
.503									-.4396	
.547	-.0798									
.560					-.4156	-.5010				
.565				-.3437						
.600								-.4918		
.633	-.2302									
.637			-.3025							
.650							-.5086			
.670									-.5387	
.700		-.2753				-.4835				
.723										-.5478
.725					-.1948					
.727	-.2420									
.750							-.5262	-.4861		
.760				-.1664						
.775					-.1979	-.2521				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (3) = 3.949 BETA (2) = .141

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0095									
.798			-.1330							
.808				-.0996						
.824		-.0252								
.833			-.0280							
.850					-.1797	-.2098	-.3599			
.857				-.0717						
.868									-.5759	
.885		-.0769								
.894			-.0320							
.901		-.0150			-.1427			-.4315		
.908				-.0279						
.919			.0062							
.930					-.0708	-.1562	-.2391			
.943				.0029						
.958			.0109							
.975		-.0101								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0121	-.2177	-.4129	.1332	.6375	.5420	.5258	.5092	-.0598	
.010		-.2728	-.3622		.1469	.2676	.2425	.1397		
.021		-.2514		.0000	.0703	.1328	.1287	.0969	-.1952	
.042			-.2213	-.0859						
.061	-.1147									
.081					-.0634	-.0439	-.0496	-.0614		
.099									-.2284	
.120					-.1775					
.137				-.1428						
.154			-.1158							
.174		-.2075								
.193	-.1546									
.210					-.3194	-.3081	-.2760	-.2437		
.227									-.3555	
.247			.0000							
.277				-.1981						
.303		-.1263								
.330			-.1317							
.357	-.1529									
.384					-.3546	-.4081	-.3931	-.3692		

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R OPB LEFT WING TOP (XE8U13)

ALPHA ( ) = 3.882 BETA ( ) = 4.219

LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.0310	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
				-.2589					-.4089	
		-.0287								
			-.2075		-.3947	-.4789		-.4913		
				-.3329						-.4106
	-.0574	-.1754							-.4636	
	-.0779				-.4034	-.4824				
				-.3310				-.5044		
	-.2406		-.2982				-.5233		-.5484	
		-.2733				-.3508				-.6487
	-.2389				-.1878		-.5090	-.4954		
				-.1628	-.2039	-.2307				
	.1051		-.0895	-.0998						
		-.0263	-.0419		-.1493	-.2083	-.3045			
				-.0800					-.5771	
		-.1089	-.0887							
		-.0498		-.0473	-.1149			-.2936		
			-.0276		-.0602	-.1577	-.2516			
			-.0316	-.0295						
		-.0698								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

[illegible] = 7.831 BETA [illegible] = -3.904 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	.0963	-.0612	-.2143	.2672	.6920	.7141	.7030	.6712	.0195	
[illegible]		-.1470	-.2378		.1565	.3054	.2696	.1359		
[illegible]		-.1363		.0000	.0486	.1386	.1336	.0748	-.2320	
[illegible]			-.1766	-.1570						
[illegible]	-.0180									
[illegible]					-.1269	-.0743	-.0764	-.1041		
[illegible]									-.2576	
[illegible]					-.2509					
[illegible]				-.2570						
[illegible]			-.1223							
[illegible]		-.1163								
[illegible]	-.0309									
[illegible]					-.4248	-.3664	-.3315	-.2993		
[illegible]									-.3964	
[illegible]			.0000							
[illegible]				-.3969						
[illegible]		-.1235								
[illegible]			-.2712							
[illegible]	-.0588									
[illegible]					-.5134	-.4800	-.4467	-.4163		
[illegible]				-.4247						
[illegible]									-.4884	
[illegible]		-.1161								
[illegible]			-.3279							
[illegible]					-.5732	-.5689		-.4805		
[illegible]				-.4450						
[illegible]										-.3928
[illegible]	-.1114									
[illegible]		-.2575								
[illegible]									-.5196	
[illegible]	-.1651									
[illegible]					-.5626	-.5313				
[illegible]				-.4221						
[illegible]								-.4737		
[illegible]	-.3001									
[illegible]			-.3925							
[illegible]							-.4770			
[illegible]									-.6246	
[illegible]		-.3528				-.4776				
[illegible]										-.6289
[illegible]					-.3653					
[illegible]	-.3152									
[illegible]							-.4151	-.4367		
[illegible]				-.2311						
[illegible]					-.3463	-.4407				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(CA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (4) = 7.891 BETA (1) = -3.904

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2* BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
[illegible]	-.2937									
[illegible]			-.2143							
[illegible]				-.2282						
[illegible]		-.1404								
[illegible]			-.1525							
[illegible]					-.2671	-.4057	-.4174			
[illegible]				-.1834						
[illegible]									-.6116	
[illegible]		-.1206								
[illegible]			-.0547							
[illegible]		.0136			-.2066			-.4172		
[illegible]				-.0935						
[illegible]			.0332							
[illegible]					-.1734	-.3251	-.3902			
[illegible]				-.0256						
[illegible]			.0712							
[illegible]		.0531								

ALPHA (4) = 7.933 BETA (2) = .128 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2* BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
[illegible]	.0332	-.2246	-.4410	.0541	.5370	.5784	.5816	.5428	-.1410	
[illegible]		-.3020	-.3989		-.0022	.1481	.1235	.0062		
[illegible]		-.2787		.0000	-.1104	.0011	.0081	-.0456	-.3474	
[illegible]			-.3195	-.2927						
[illegible]	-.0672									
[illegible]					-.2548	-.1868	-.1741	-.2004		
[illegible]									-.3538	
[illegible]					-.3505					
[illegible]				-.3479						
[illegible]			-.2286							
[illegible]		-.1666								
[illegible]	-.0395									
[illegible]					-.4834	-.4205	-.3882	-.3557		
[illegible]									-.4535	
[illegible]			.0000							
[illegible]				-.4387						
[illegible]		-.1945								
[illegible]			-.2737							
[illegible]	-.1201									
[illegible]					-.5341	-.5113	-.4848	-.4544		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (4) = 7.933 BETA (2) = .128

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.3671						
[illegible]									-.5181	
[illegible]		-.1539								
[illegible]			-.3050							
[illegible]					-.5433	-.5832		-.5022		
[illegible]				-.4087						
[illegible]										-.5363
[illegible]	-.1695									
[illegible]		-.2653								
[illegible]									-.5489	
[illegible]	-.1571									
[illegible]					-.4721	-.5543				
[illegible]				-.3995						
[illegible]								-.5004		
[illegible]	-.3078									
[illegible]			-.3939							
[illegible]							-.5131			
[illegible]									-.5465	
[illegible]		-.3545				-.4907				
[illegible]										-.5313
[illegible]					-.2375					
[illegible]	-.3027									
[illegible]							-.4408	-.4587		
[illegible]				-.2086						
[illegible]					-.2322	-.4175				
[illegible]	-.1292									
[illegible]			-.1892							
[illegible]				-.2171						
[illegible]		-.0499								
[illegible]			-.1169							
[illegible]					-.2113	-.3865	-.4322			
[illegible]				-.1812						
[illegible]									-.5409	
[illegible]		-.1024								
[illegible]			-.1107							
[illegible]		-.0476			-.2354			-.4350		
[illegible]				-.1309						
[illegible]			-.0352							
[illegible]					-.1770	-.3222	-.3984			
[illegible]				-.0738						
[illegible]			.0055							
[illegible]		-.0482								

AMES 11-073 (CA148) -140A/B/C/R ORB LEFT WING TOP (XE9U13)

ALPHA = 7.034 BETA (3) = 4.214 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BASE	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.0213	-.4012	-.4150	-.1483	.3665	.4437	.4495	.4081	-.3100	
[illegible]		-.3836	-.4121		-.1681	.0159	-.0147	-.1110		
[illegible]		-.3812		.0000	-.2599	-.1111	-.1085	-.1597	-.4549	
[illegible]			-.3965	-.3235						
[illegible]	-.1129									
[illegible]					-.3801	-.2673	-.2596	-.2889		
[illegible]									-.4800	
[illegible]					-.4383					
[illegible]				-.3056						
[illegible]			-.3714							
[illegible]		-.3595								
[illegible]	-.1511									
[illegible]					-.4999	-.4656	-.4364	-.4104		
[illegible]									-.5042	
[illegible]			.0000							
[illegible]				-.3146						
[illegible]		-.2072								
[illegible]			-.4275							
[illegible]	-.1739									
[illegible]					-.4744	-.5391	-.5165	-.4907		
[illegible]				-.3339						
[illegible]									-.5209	
[illegible]		-.1110								
[illegible]			-.2818							
[illegible]					-.4494	-.5930		-.5109		
[illegible]				-.3860						
[illegible]										-.5255
[illegible]	-.1611									
[illegible]		-.2416								
[illegible]									-.5308	
[illegible]	-.1409									
[illegible]					-.4410	-.5547				
[illegible]				-.4077						
[illegible]								-.5144		
[illegible]	-.2958									
[illegible]			-.3726							
[illegible]							-.5273			
[illegible]									-.4976	
[illegible]		-.3259				-.4623				
[illegible]										-.4765
[illegible]					-.2551					
[illegible]	-.2967									
[illegible]							-.4623	-.4399		
[illegible]				-.1973						
[illegible]					-.2489	-.3600				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (4) = 7.934 BETA (3) = 4.214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0274									
.798			-.1527							
.808				-.1852						
.834		-.1081								
.839			-.1256							
.850					-.2027	-.2673	-.4361			
.857				-.1590						
.862									-.4838	
.865		-.1547								
.879			-.1150							
.900		-.0901			-.1642			-.4069		
.905				-.1488						
.919			-.0663							
.950					-.1152	-.1853	-.3785			
.953				-.0933						
.955			-.0862							
.965		-.0859								

ALPHA (5) = 11.884 BETA (1) = -3.687 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0209	-.2424	-.3695	.1053	.5971	.6398	.6330	.5685	-.1831	
.010		-.2870	-.3380		-.0342	.1154	.0522	-.0843		
.020		-.2776		.0000	-.1434	-.0361	-.0647	-.1344	-.4912	
.040			-.2722	-.3260						
.041	-.0144									
.060					-.2987	-.2253	-.2345	-.2813		
.069									-.4916	
.080					-.3917					
.081				-.3879						
.090			-.2043							
.094		-.2061								
.113	-.0370									
.120					-.5192	-.4659	-.4361	-.4229		
.127									-.5280	
.143			.0000							
.177				-.4762						
.229		-.1774								
.245			-.2928							
.247	-.0581									
.252					-.5824	-.5096	-.5024	-.5000		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (5) = 11.884 BETA (1) = -3.887

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4723						
.345									-.5346	
.362		-.1591								
.390			-.3761							
.400					-.5406	-.4952		-.4931		
.402				-.4935						
.415										-.5457
.429	-.1328									
.497		-.3609								
.503									-.5462	
.547	-.2002									
.550					-.4975	-.4936				
.565				-.4723						
.600								-.4832		
.633	-.4000									
.637			-.4631							
.650							-.4748			
.670									-.5056	
.700		-.4677				-.4929				
.723										-.4815
.725					-.4850					
.727	-.4093									
.750							-.4413	-.4706		
.760				-.3470						
.775					-.4706	-.4508				
.793	-.3791									
.798			-.2339							
.808				-.3943						
.834		-.1635								
.839			-.2689							
.850					-.4309	-.4414	-.4444			
.857				-.3792						
.862									-.5085	
.865		-.1404								
.879			-.2080							
.900		.0626			-.4100			-.4893		
.905				-.3016						
.919			-.2012							
.950					-.3752	-.3634	-.4100			
.953				-.2305						
.955			-.1670							
.965		-.0334								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA S' = 11.891 BETA (2) = .152 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0619	-.3630	-.3654	-.0972	.4270	.4799	.4818	.4139	-.3498	
.010		-.3145	-.3633		-.1826	-.0304	-.0865	-.2019		
.020		-.3102		.0000	-.2794	-.1686	-.1959	-.2567	-.5473	
.040			-.3474	-.3756						
.041	-.0816									
.050					-.4052	-.3282	-.3361	-.3744	-.5259	
.060					-.4809					
.080				-.4106						
.081			-.3190							
.100		-.3549								
.113	-.1235				-.5785	-.5242	-.4963	-.4841	-.5237	
.150										
.163			.0000							
.177				-.4331						
.200		-.4187								
.240			-.3907							
.263	-.1099				-.6202	-.5890	-.5482	-.5386		
.300				-.4641					-.5432	
.345										
.350		-.2955								
.363			-.4065		-.5787	-.5601		-.5289		
.400				-.4982						-.5473
.418										
.438	-.1956									
.450		-.4091							-.5583	
.463	-.2672				-.6586	-.5563				
.500				-.4722				-.5281		
.533	-.4091									
.563			-.4921				-.5168		-.5166	
.600		-.4265				-.5298				-.4968
.633					-.4835					
.665	-.3937						-.4855	-.4946		
.700				-.2444						
.750					-.4961	-.4891				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (5) = 11.891 BETA (2) = .152

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1958									
.798			-.2310							
.808				-.2847						
.834		-.1611								
.839			-.2246							
.850					-.4365	-.4089	-.4698			
.867				-.2785						
.892									-.5206	
.905		-.1815								
.913			-.1802							
.920		-.0774			-.3459			-.5029		
.925				-.2724						
.939			-.0796							
.950					-.2811	-.3308	-.4076			
.963				-.3205						
.965			-.1385							
.985		-.0391								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1449	-.3912	-.4083	-.3032	.2464	.3074	.3032	.2387	-.4710	
.010		-.3838	-.4055		-.3208	-.1760	-.2277	-.3365		
.020		-.3933		.0000	-.3982	-.3004	-.3240	-.3779	-.5563	
.040			-.4143	-.3896						
.041	-.1753									
.050					-.4964	-.4260	-.4352	-.4706		
.069									-.5566	
.080					-.5544					
.081				-.4146						
.096			-.3872							
.124		-.4397								
.113	-.1646									
.150					-.5871	-.5799	-.5551	-.5504		
.167									-.5565	
.183			.0000							
.197				-.4220						
.209		-.5352								
.227			-.4262							
.247	-.1934									
.260					-.5845	-.6319	-.6103	-.5923		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (5) = 11.887 BETA (3) = 4.229

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4125						
.345									-.5680	
.362		-.3897								
.390			-.4122							
.400					-.6073	-.6169		-.5828		
.402				-.4636						
.418										-.5654
.439	-.2722									
.497		-.3698								
.503									-.5765	
.547	-.2352									
.550					-.5494	-.6121				
.566				-.4817						
.600								-.5687		
.633	-.3817									
.637			-.4663							
.650							-.5898			
.670									-.5513	
.700		-.3717				-.5430				
.723										-.5396
.738					-.2851					
.747	-.3659									
.750							-.5330	-.5509		
.760				-.2699						
.775					-.3212	-.5210				
.793	-.0508									
.798			-.2494							
.812				-.3068						
.824		-.1893								
.829			-.2408							
.850					-.3070	-.5033	-.5015			
.857				-.2994						
.882									-.5458	
.885		-.2376								
.899			-.1632							
.910		-.1551			-.3032			-.5231		
.918				-.2376						
.919			-.1521							
.930					-.2851	-.3073	-.4144			
.953				-.1808						
.965			-.1483							
.985		-.1590								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U13)

ALPHA (B) = 15.788 BETA (B) = -3.863 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L_1 = 2.9216

SLOT NO. 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZETA	.0250	.0930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0333	-.3087	-.3089	-.0258	.4852	.5209	.5060	.4106	-.3508	
.010		-.2895	-.2968		-.1871	-.0562	-.1335	-.2857		
.020		-.2807		.0000	-.2885	-.2054	-.2496	-.3287	-.6015	
.040			-.2776	-.3434						
.041	-.1627									
.060					-.4138	-.3565	-.3824	-.4339	-.5720	
.069										
.080					-.4910					
.091				-.3739						
.100			-.2553							
.104		-.2981								
.113	-.0447									
.150					-.5872	-.5454	-.5256	-.5318	-.5718	
.157										
.163			.0000							
.177				-.3958						
.189		-.3674								
.196			-.3692							
.197	-.0856									
.250					-.5675	-.5587	-.5452	-.5636		
.274				-.4420						
.295									-.5822	
.302		-.3648								
.340			-.4080							
.400					-.5599	-.5518		-.5653		
.402				-.5069						
.418										-.6047
.439	-.1670									
.497		-.4876							-.5910	
.503										
.547	-.2568				-.5679	-.5620				
.560				-.5398						
.595								-.5690		
.600										
.633	-.4797									
.647			-.5203							
.650							.5475			
.670									-.5571	
.700		-.5235				-.5599				
.723										-.5291
.725					-.5314					
.727	-.5315									
.750							-.5097	-.5605		
.760				-.3248						
.775					-.5446	-.5097				

AMES 11-073(QA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (6) = 15.888 BETA (1) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.793	-.3998									
.799			-.3033							
.809				-.3917						
.824		-.2605								
.839			-.3451							
.850					-.4694	-.4854	-.5118			
.857				-.4236						
.862									-.5549	
.865		-.2190								
.879			-.2637							
.900		-.1881			-.4634			-.5712		
.915				-.4417						
.919			-.2430							
.940					-.4220	-.4329	-.4849			
.953				-.4108						
.955			-.2625							
.965		-.1527								

ALPHA (6) = 15.865 BETA (2) = .152 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	.1447	-.3742	-.3657	-.2462	.3072	.3473	.3301	.2328	-.4621	
.010		-.3693	-.3657		-.3252	-.1965	-.2625	-.3825		
.020		-.3697		.0000	-.4026	-.3275	-.3606	-.4267	-.5731	
.040			-.3633	-.3703						
.061	-.3199									
.080					-.5009	-.4476	-.4701	-.5122		
.089									-.5750	
.095					-.5591					
.098				-.4115						
.109			-.3311							
.120		-.3932								
.133	-.1290									
.160					-.6139	-.5933	-.5795	-.5950		
.174									-.5786	
.183			.0000							
.197				-.4600						
.220		-.4334								
.244			-.4453							
.247	-.1890									
.270					-.6093	-.6016	-.5841	-.6026		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA [illegible] = 15.805 BETA (2) = .152

[illegible]	LEFT WING TOP SURF	DEPENDENT VARIABLE CP							
[illegible]	.2300	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.4938						
.345									-.5895	
.382		-.4780								
.390			-.4678							
.400					-.5963	-.5950		-.5921		
.402				-.5448						
.418										-.5960
.433	-.2633									
.437		-.5317								
.503									-.6021	
.547	-.3526									
.550					-.5947	-.5997				
.556				-.5259						
.610								-.5852		
.633	-.5040									
.637			-.5252							
.650							-.5876			
.670									-.5657	
.700		-.5035				-.5950				
.723										-.5522
.725					-.5264					
.727	-.5194									
.750							-.5434	-.5669		
.750				-.3555						
.775					-.5545	-.5370				
.783	-.3149									
.788			-.2838							
.809				-.3774						
.834		-.2324								
.839			-.2477							
.860					+.5490	-.4628	-.5300			
.867				-.3763						
.880									-.5643	
.885		-.2493								
.889			-.2215							
.900		-.1602			-.5206			-.5710		
.905				-.3710						
.919			-.2750							
.921					-.4656	-.3913	-.4800			
.943				-.3959						
.945			-.3013							
.965		-.1690								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

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 TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
XSW										
.000	-.2411	-.4181	-.4423	-.4161	.1228	.1721	.1558	.0644	-.5364	
.010		-.4207	-.4454		-.4345	-.3225	-.3783	-.4908		
.020		-.4257		.0000	-.5023	-.4340	-.4604	-.5230	-.5642	
.040			-.4399	-.4149						
.041	-.4353									
.060					-.5712	-.5276	-.5436	-.5807		
.080									-.5623	
.100					-.6110					
.101				-.4356						
.120			-.4011							
.140		-.4556								
.143	-.2243									
.160					-.6168	-.6325	-.6223	-.5978		
.180									-.5609	
.183			.0000							
.200				-.5030						
.220		-.4910								
.240			-.5075							
.243	-.2889									
.260					-.6286	-.6219	-.6066	-.5914		
.280				-.5053						
.300									-.5602	
.320		-.5283								
.340			-.4749							
.360					-.6355	-.6195		-.5800		
.380				-.5053						
.400										-.5606
.403	-.3451									
.420		-.5083								
.440									-.5711	
.443	-.3786									
.460					-.6303	-.6162				
.480				-.5229						
.500								-.5625		
.503	-.4578									
.520			-.4718							
.540							-.5845			
.560									-.5485	
.580		-.4328				-.5827				
.600										-.5412
.620					-.4826					
.643	-.4323									
.660							-.5515	-.5451		
.680				-.3828						
.700					-.4977	-.5403				

[illegible] TABULATED PRESSURE DATA - OA149 (AMES 11-073-1)

AMES 11-073(OA149) -140A/B/C,R ORB LEFT WING TOP (XE8U13)

ALPHA (S) = 15.903 BETA (B) = 4.263

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.0250	.2330	.3840	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.2259									
[illegible]			-.2971							
[illegible]				-.3911						
[illegible]		-.2399								
[illegible]			-.3130							
[illegible]					-.4754	-.4902	-.5360			
[illegible]				-.3418						
[illegible]									-.5426	
[illegible]		-.2855								
[illegible]			-.2285							
[illegible]		-.2002			-.4838			-.5425		
[illegible]				-.3610						
[illegible]			-.2537							
[illegible]					-.5008	-.4097	-.5197			
[illegible]				-.3779						
[illegible]			-.2732							
[illegible]		-.2162								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14) (05 AUG 75)

REFERENCE DATA

SREF = 8890.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = [illegible] IN. YMRP = .0000 IN. YO
BREF = 936.0180 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 TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.1975	-.0835	-.1143	.2645	.6612	.5982	.5570	.5777	-.4375	
[illegible]		-.0334	-.0117		.7271	.7052	.6663	.5920		
[illegible]		-.0355		.0030	.6464	.6031	.5772	.5480	-.0517	
[illegible]			.0452	.4165						
[illegible]	-.1011				.4459	.3929	.3757	.3649		
[illegible]									-.1124	
[illegible]					.2534					
[illegible]				.3022						
[illegible]			.1670							
[illegible]		-.0053								
[illegible]	-.0555				.0128	.0143	.0252	.0470		
[illegible]									-.2520	
[illegible]			.0000							
[illegible]				.0987						
[illegible]		.0557								
[illegible]			.0964							
[illegible]	-.0032				-.1276	-.1411	-.1337	-.1563		
[illegible]				-.0411						
[illegible]									-.2974	
[illegible]		.1548								
[illegible]			-.0165							
[illegible]					-.2650	-.3123		-.3825		
[illegible]				-.1995						
[illegible]										-.5100
[illegible]	.0514									
[illegible]		.0217								
[illegible]									-.3393	
[illegible]	.0759									
[illegible]					-.2018	-.3603				
[illegible]				.0065						
[illegible]								-.4549		
[illegible]	-.0414									
[illegible]			.1429							
[illegible]							-.4294			
[illegible]									-.4292	

AMES 11-073:DATA-8 -140A/B/C/R ORB LEFT WING TOP (XE9U14)

ALPHA (1) = -4.010 BETA (1) = -3.684

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.010		.1223				-.1195				
.023										-.4806
.035					.0606					
.047	-.0645									
.060							-.3105	-.4300		
.072				.0508						
.085					.1558	.0301				
.097	.3422									
.110			.0503							
.122				.1661						
.134		.0878								
.147			.1645							
.159					.1279	.0251	-.0542			
.172				.1253						
.184									-.3597	
.196		.0509								
.209			.1443							
.221		.1222			.0597			-.1330		
.233				.1045						
.246			.0609							
.258					.0931	.1549	.1725			
.270				.0619						
.283			.1106							
.295		.1683								

ALPHA (1) = -3.944 BETA (2) = .148 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.010	-.2187	-.0788	-.0694	.2357	.5956	.5092	.4618	.4768	-.5112	
.023		-.1470	-.0048		.6460	.6108	.5824	.5146		
.035		-.0281		.0120	.5713	.5856	.4934	.4772	-.1345	
.047			.0869	.0122						
.060	-.1721									
.072					.3947	.3336	.3157	.3109		
.085									-.1750	
.097					.2175					
.110				.0469						
.122			.1263							
.134		-.0895								
.147	-.1169									
.159					.0089	-.0101	.0034	.0249		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (1) = -3.944 BETA (2) = .148

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]									-.3073	
[illegible]			.0000							
[illegible]				.0854						
[illegible]		.0247								
[illegible]			.0709							
[illegible]	-.0269									
[illegible]					-.1230	-.1539	-.1532	-.1747		
[illegible]				-.0439						
[illegible]									-.3296	
[illegible]		.1368								
[illegible]			-.0258							
[illegible]					-.2505	-.3036		-.3922		
[illegible]				-.1952						
[illegible]										-.5815
[illegible]	.0290									
[illegible]		-.0057								
[illegible]									-.3634	
[illegible]	.0502									
[illegible]					.0035	-.3377				
[illegible]				.1093						
[illegible]								-.4530		
[illegible]	-.0566									
[illegible]			.1927							
[illegible]							-.3734			
[illegible]									-.4196	
[illegible]		.1853				-.0378				
[illegible]										-.5539
[illegible]					.0763					
[illegible]	.0903									
[illegible]							-.0472	-.3420		
[illegible]				.0281						
[illegible]					.1090	.0411				
[illegible]	.3358									
[illegible]			.0224							
[illegible]				.1074						
[illegible]		.0540								
[illegible]			.1042							
[illegible]					.0903	-.0231	.0427			
[illegible]				.0664						
[illegible]									-.1585	
[illegible]		.0031								
[illegible]			.0928							
[illegible]		.0792			.0104			-.0367		
[illegible]				.0546						
[illegible]			.0135							

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

[illegible] TABULATED PRESSURE DATA - DATA AMES [illegible]

AMES [illegible] LEFT WING TOP [illegible]

[illegible] -3.9[illegible] BETA (2) = [illegible]

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]					.0306	.0854	.1625			
[illegible]				.0146						
[illegible]			.0493							
[illegible]		.1197								

[illegible] = -4.009 BETA (3) = 4.237 MACH = 1.2452 Q = 509.70 P = 552.51 RN/L = 3.0159

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.2035	-.1004	-.0397	.2511	.5304	.4317	.3782	.3856	-.5656	
[illegible]		-.1104	-.0025		.5695	.5351	.4957	.4345		
[illegible]		-.1251		.0000	.5030	.4529	.4234	.4015	-.2153	
[illegible]			.0243	.3052						
[illegible]	-.2165				.3441	.2770	.2535	.2457		
[illegible]									-.2448	
[illegible]					.1607					
[illegible]				.2066						
[illegible]			.1117							
[illegible]		-.0415								
[illegible]	-.1665									
[illegible]					-.0091	-.0344	-.0163	-.0054		
[illegible]									-.3595	
[illegible]			.0000							
[illegible]				.0685						
[illegible]		0137								
[illegible]			.0704							
[illegible]	-.0267									
[illegible]					-.1312	-.1715	-.1869	-.2059		
[illegible]				-.0489						
[illegible]									-.3692	
[illegible]		.391								
[illegible]			-.0475							
[illegible]					-.2498	-.2958		-.3978		
[illegible]				-.1937						
[illegible]										-.6303
[illegible]	.0369									
[illegible]		-.0324								
[illegible]									-.3785	
[illegible]	-.450									
[illegible]					.0785	-.0645				
[illegible]				1602						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (1) = -4.009 BETA (3) = 4.237

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2250	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000										
.633	-.0723							-.4478		
.637			.2075							
.650							-.1114			
.670										
.700		.2016				.0173			-.2690	
.723										-.5233
.745					.0720					
.774	.1316									
.790							.0018	-.1237		
.795				.0111						
.793	.3325				.0699	.0246				
.798			.0023							
.818				.0702						
.834		.0372								
.839			.0647							
.850					.0591	-.0633	.0201			
.857				.0221						
.870									-.1051	
.885		-.0310								
.913			.0360							
.930		.0455			-.0220			.1245		
.935				.0217						
.949			-.0224							
.960					-.0268	.0180	.1216			
.968				-.0183						
.980			-.0077							
.985		.0641								

ALPHA (2) = .205 BETA (1) = -3.866 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2250	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0903	.0123	.0016	.4170	.7166	.6655	.6343	.6439	-.2368	
.010		-.0059	.0260		.5623	.5941	.5534	.4597		
.030		-.0334		.0000	.4554	.4455	.4281	.4014	-.0601	
.040			.0501	.2360						
.041	-.0862									
.050					.2324	.1989	.1876	.1907		
.070									-.1354	
.080					.0367					

DATE [illegible] FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA [illegible] .205 BETA (1) = -3.865

SECT [illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY PW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/CW										
.081				.1127						
.085			.1068							
.094		-.0919								
.113	-.0590									
.157					-.1686	-.1548	-.1310	-.1164		
.157									-.3164	
.163			.0000							
[illegible]				-.0826						
[illegible]		-.0090								
[illegible]			-.0315							
[illegible]	-.0803									
[illegible]					-.2801	-.3260	-.3163	-.3065		
.274				-.1981						
.345									-.3770	
[illegible]		.0784								
[illegible]			-.1581							
[illegible]					-.3830	-.4585		-.4968		
[illegible]				-.3309						
.418										-.2395
[illegible]	.0043									
[illegible]		-.0959								
[illegible]									-.4369	
[illegible]	-.0066									
[illegible]					-.4077	-.4946				
.565				-.3090						
.600								-.5342		
.633	-.1516									
.637			-.2007							
.650							-.5293			
.670									-.5321	
[illegible]		-.2232				-.3590				
.723										-.2707
[illegible]					-.1125					
[illegible]	-.2197									
[illegible]							-.5480	-.5233		
[illegible]				-.0622						
[illegible]					-.0070	-.2019				
[illegible]	.1661									
[illegible]			-.0416							
.808				.1319						
[illegible]		.0301								
[illegible]			.1260							
[illegible]					.0674	-.1281	-.2708			
[illegible]				.1000						
[illegible]									-.5039	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (2) = .205 BETA (1) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.665		.0225								
.879			.1031							
.900		.0751			.0475			-.4129		
.905				.0746						
.913			.0441							
.950					.0748	.0301	-.1624			
.963				.0430						
.965			.0658							
.966		.1113								

ALPHA (2) = .220 BETA (2) = .185 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1011	-.0542	-.0327	.3674	.6405	.5796	.5478	.5502	-.2883	
.010		-.0965	- 0137		.4728	.5061	.4699	.3799		
.020		-.1207		.0000	.3752	.3704	.3554	.3294	-.1302	
.040			.0085	.1661						
.041	-.1509									
.056					.1702	.1422	.1379	.1304		
.059									-.1989	
.060					.0000					
.091				.0646						
.100			.0629							
.104		-.1458								
.116	-.1379									
.140					-.1797	-.1818	-.1647	-.1428		
.167									-.3571	
.183			.0000							
.197				-.0928						
.220		-.0260								
.246			-.0485							
.247	-.1234									
.270					-.2788	-.3300	-.3309	-.3256		
.274				-.1863						
.345									-.3969	
.382		.0589								
.390			-.1568							
.400					-.3751	-.4497		-.5058		
.429				-.3294						
.498										-.1711
.499	-.0099									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14.

ALPHA (2) = .220 BETA (2) = .185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1174								
.503									-.4358	
.547	-.0243									
.550					-.3856	-.4669				
.555				-.2509						
.600								-.5360		
.633	-.1678									
.637			-.0544							
.650							-.5363			
.670									-.5226	
.700		-.1086				-.2250				
.723										-.3
.765					-.1075					
.727	-.2025									
.740							-.4527	-.5160		
.780				-.0793						
.775					.0276	-.1551				
.793	.2031									
.798			-.0568							
.808				.0707						
.834		-.0116								
.839			.0556							
.850					.0622	-.0766	-.2554			
.857				.0359						
.882									-.4709	
.865		-.0405								
.879			.0278							
.900		.0060			.0046			-.2217		
.905				.0219						
.919			-.0075							
.950					.0140	.0240	-.1468			
.953				-.0046						
.955			.0065							
.966		.0329								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (2) = .215 BETA (3) = 4.264 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1098	-.1622	-.0973	.3109	.5758	.5039	.4623	.4617	-.1867	
.010		-.2007	-.0687		.3865	.4129	.3742	2877		
.020		-.2057		.0000	.2987	.2828	.2660	.2384	-.1787	
.040			-.0244	.1245						
.041	-.1971									
.050					.1165	.0788	.0660	.0631		
.069									-.2340	
.080					-.0388					
.081				.0329						
.085			.0350							
.094		-.1675								
.113	-.1949									
.150					-.1939	-.2195	-.2080	-.1880		
.157									-.3820	
.163			.0000							
.177				-.0855						
.229		-.0424								
.246			-.0448							
.247	-.1314									
.250					-.2849	-.3385	-.3518	-.3561		
.274				-.1830						
.345									-.4067	
.362		.0553								
.390			-.1556							
.400					-.3713	-.4487		-.5209		
.402				-.3260						
.418										-.2199
.429	-.0030									
.497		-.1257								
.503									-.4471	
.547	-.0256									
.550					-.2661	-.4527				
.565				-.1029						
.600								-.5423		
.633	-.1730									
.637			-.0063							
.650							-.5234			
.670									-.5232	
.700		-.0213				-.2107				
.723										-.4538
.725					-.0830					
.727	-.1370									
[illegible]							-.3273	-.3871		
[illegible]				-.0817						
[illegible]					.0270	-.0891				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA (2) = .215 BETA (3) = 4.264

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2022									
.798			-.0698							
.908				.0208						
.834		-.0339								
.839			.0068							
.850					.0332	-.0601	-.1486			
.857				-.0157						
.862									-.3263	
.865		-.0754								
.879			-.0271							
.900		-.0379			-.0359			-.1718		
.905				-.0287						
.919			-.0584							
.940					-.0417	-.0150	.0016			
.953				-.0472						
.955			-.0492							
.965		-.0367								

ALPHA (3) = 3.903 BETA (1) = -3.872 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0268

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0002	-.0011	-.1043	.4025	.7292	.7067	.6835	.6661	.0434	
.010		-.0545	-.1142		.3515	.4430	.4047	.2781		
.020		-.0790		.0000	.2384	.2706	.2552	.2102	-.1281	
.040			-.0823	.0390						
.041	-.0749									
.050					.0301	.0290	.0165	-.0033		
.069									-.1815	
.080					-.1512					
.081				-.0841						
.086			-.0156							
.094		-.1346								
.113	-.0662									
.150					-.3478	-.3303	-.2875	-.2534		
.157									-.3825	
.163			.0000							
.177				-.2301						
.223		-.1021								
.246			-.1390							
.247	-.0970									
.250					-.4469	-.4727	-.4508	-.4197		

AMES 11-073(QA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (3) = 3.903 BETA (1) = -3.872

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3245						
.345									-.4594	
.362		.0015								
.390			-.2566							
.400					-.5007	-.5819		-.5842		
.402				-.4179						
.418										-.2221
.429	-.0427									
.497		-.1801								
.503									-.5528	
.547	-.0752									
.550					-.5069	-.6135				
.565				-.3986						
.600								-.5959		
.633	-.2443									
.637			- 3500							
.650							-.5980			
.670									-.6793	
.700		-.3238				-.5712				
.723										-.5833
.725					-.1812					
.727	-.2973									
.750							-.4577	-.4909		
.760				-.1409						
.775					-.1879	-.2210				
.793	.0072									
.798			-.1289							
.808				-.0106						
.834		-.0256								
.843			.0707							
.850					-.1387	-.1902	-.3864			
.857				.0286						
862									-.7344	
.865		-.0284								
.879			.0633							
.900		.0750			-.0751			-.3338		
.905				.0419						
919			.0382							
.950					.0195	-.1643	-.2970			
.953				.0423						
.965			.0368							
.985		.0451								

TABULATED PRESSURE DATA - OA148 : AMES 11-073-11

AMES 11-073 OA148: -140A B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA = 7.973 BETA (B) = .184 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266

LOCATION = LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2810	.3390	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0324	-.1435	-.2840	.2797	.6340	.6152	.5937	.5730	-.0294	
.011		-.2013	-.2280		.2343	.3462	.3073	.1860		
.023		-.1954		.0000	.1515	.1850	.1716	.1172	-.2034	
.040			-.1367	-.0306						
.041	-.1373									
.060					-.0271	-.0329	-.0471	-.0697		
.084									-.2478	
.097					-.1850					
.111				-.1281						
.124			-.0520							
.134		-.2082								
.145	-.1494									
.150					-.3523	-.3573	-.3198	-.2923		
.167									-.4228	
.185			.0000							
.197				-.2234						
.213		-.1046								
.224			-.1450							
.241	-.1505									
.250					-.4339	-.4843	-.4685	-.4470		
.264				-.3064						
.345									-.4880	
.362		-.0144								
.370			-.2485							
.400					-.4785	-.5740		-.5979		
.402				-.4098						
.418										-.3667
.429	-.0531									
.437		-.1971								
.503									-.5703	
.547	-.0853									
.550					-.4919	-.5838				
.585				-.3825						
.600								-.6156		
.638	-.2576									
.647			-.2649							
.650							-.6046			
.670									-.6763	
.688		-.3240				-.3367				
.698										-.7103
.705					-.2133					
.714	-.2958									
.732							-.4500	-.4705		
.748				-.1668						
.776					-.1953	-.2350				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA (3) = 3.903 BETA (2) = .184

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1213									
.798			-.1182							
.808				-.0377						
.834		-.0436								
.839			-.0115							
.850					-.0998	-.2310	-.3749			
.857				-.0188						
.862									-.7380	
.865		-.1212								
.879			-.0155							
.900		-.0033			-.0611			-.3153		
.905				-.0159						
.919			-.0179							
.950					-.0095	-.1474	-.3067			
.953				-.0181						
.955			-.0241							
.965		-.0375								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0651	-.3205	-.3767	.1502	.5434	.5242	.5055	.4774	-.1303	
.010		-.3594	-.2714		.1346	.2338	.1920	.0628		
.020		-.3260		.0000	.0675	.0882	.0721	.0093	-.2978	
.040			-.2203	-.0701						
.041	-.1822									
.060					-.0865	-.1030	-.1231	-.1529		
.069									-.3295	
.080					-.2133					
.081				-.1386						
.086			-.1767							
.094		-.2728								
.113	-.2038									
.150					-.3563	-.3936	-.3656	-.3480		
.157									-.4676	
.163			.0000							
.177				-.2209						
.223		-.1111								
.245			-.1261							
.247	-.2059									
.250					-.4128	-.4947	-.4955	-.4811		

[illegible] FEB 78 TABULATED PRESSURE DATA - DATA (AMES 11-073-1)

AMES 11-073(DA148) -140A/B/C/R ORD LEFT WING TOP (XE8U14)

ALPHA (1) = 3.907 BETA (3) = 4.255

SECTION - 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BAR	.2350	.2990	.3640	.4270	.5340	.6730	.7830	.8870	.9720	1.0000
X/CW										
.274				-.2851						
.345									-.5321	
.382		-.0025								
.390			-.2325							
.400					-.4651	-.5683		-.6147		
.402				-.3972						
.418										-.5847
.420	-.0490									
.431		-.1960								
.503									-.5986	
.547	-.0838									
.550					-.4586	-.5596				
.565				-.3275						
.600								-.6147		
.633	-.2713									
.637			-.2099							
.640							-.6009			
.670									-.6814	
.700		-.3013				-.2782				
.723										-.7470
.725					-.2100					
.727	-.2857									
.750							-.4494	-.4233		
.760				-.1581						
.775					-.1450	-.2378				
.793	.1412									
.798			-.1087							
.808				-.0572						
.834		-.0639								
.839			-.0442							
.850					-.0532	-.2220	-.3437			
.857				-.0740						
.862									-.6968	
.865		-.1403								
.879			-.0622							
.900		-.0547			-.0678			-.2767		
.905				-.0747						
.913			-.0632							
.950					-.0474	-.0837	-.1760			
.953				-.0764						
.955			-.0741							
.965		-.1008								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (4) = 7.853 BETA (1) = -3.970 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0236

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0522	-.1177	-.3465	.2192	.6381	.6604	.6602	.6140	-.0875	
.010		-.2090	-.3593		.0351	.1923	.1488	.0038		
.020		-.1933		.0000	-.0736	.0197	.0137	-.0697	-.3887	
.040			-.2659	-.2455						
.041	-.0594									
.050					-.2433	-.1955	-.2026	-.2467		
.059									-.4055	
.060					-.3795					
.081				-.3603						
.086			-.1912							
.094		-.1782								
.113	-.0703									
.150					-.5452	-.4922	-.4633	-.4366		
.157									-.5461	
.163			.0000							
.177				-.4540						
.229		-.1699								
.246			-.2933							
.247	-.1038									
.250					-.6248	-.6076	-.5801	-.5523		
.274				-.4371						
.345									-.5800	
.362		-.1341								
.390			-.3460							
.400					-.6543	-.6831		-.5575		
.402				-.4963						
.418										-.5731
.429	-.1495									
.497		-.2813								
.503									-.5883	
.547	-.1611									
.550					-.5618	-.6178				
[illegible]				-.4661						
[illegible]								-.5463		
[illegible]	-.3327									
[illegible]			-.4417							
[illegible]							-.5364			
.670									-.5307	
.720		-.4192				-.5408				
[illegible]										-.5212
.725					-.3203					
.727	-.3549									
.750							-.4935	-.5018		
.760				-.2289						
.775					-.3150	-.4275				

AMES 11-073(4148) -140A/B/C/R ORB LEFT WING TOP (XE9U14)

ALPHA = 7.953 BETA ( ) = -3.670

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	-.2009									
.798			-.1770							
.808				-.1556						
.834		-.0426								
.839			-.0420							
.950					-.2318	-.3735	-.4652			
.857				-.0830						
.862									-.5212	
.865		-.0893								
.879			-.0027							
.900		.1053			-.1935			-.4845		
.905				-.0431						
.919			.0427							
.950					-.1165	-.3279	-.4015			
.963				-.0250						
.965			.0572							
.976		.0224								

ALPHA (W) = 7.959 BETA ( ) = .181 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0238

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0049	-.3254	-.5454	-.0294	.4985	.5467	.5429	.4927	-.2686	
.010		-.3990	-.5127		-.0950	.0681	.0246	-.1131		
.020		-.3674		.0000	-.1938	-.0820	-.0915	-.1719	-.5125	
.040			-.4067	-.3602						
.041	-.1272									
.050					-.3181	-.2728	-.2829	-.3307		
.059									-.5125	
.060					-.4121					
.061				-.3624						
.065			-.3099							
.074		- 2526								
.113	-.1507									
.150					-.5473	-.5289	-.5027	-.4853		
.157									-.5687	
.164			.0000							
.177				-.3657						
.189		-.2377								
.195			-.2761							
.241	-.1706									
.250					-.5985	-.6207	-.6053	-.5847		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU14)

ALPHA (4) = 7.959 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3928						
.345									-.5974	
.362		-.1141								
.390			-.3412							
.400					-.5691	-.6963		-.5920		
.402				-.4608						
.418										-.6071
.429	-.1476									
.437		-.2773								
.503									-.5983	
.547	-.1488									
.560					-.5336	-.6401				
.565				-.4644						
.600								-.5701		
.633	-.3337									
.637			-.4646							
.650							-.5718			
.670									-.5495	
.700		-.4044				-.5190				
.713										-.5309
.725					-.2283					
.727	-.3569									
.750							-.5127	-.4865		
.760				-.2049						
.775					-.2472	-.3929				
.793	-.0187									
.799			-.1740							
.806				-.1586						
.834		-.0676								
.839			-.0769							
.850					-.2029	-.3781	-.4811			
.857				-.1353						
.862									-.5272	
.865		-.1508								
.879			-.0532							
.900		-.0242			-.1842			-.4521		
.906				-.1101						
.919			-.0056							
.950					-.1164	-.2482	-.4178			
.953				-.0944						
.965			-.0122							
.965		-.0484								

[illegible] TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE3U14)

[illegible] = 7.950 BETA (3) = -.251 MACH = 1.2469 Q = 600.82 P = 552.05 PN/L = 3.0235

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0578	-.5340	-.5070	-.1857	.3667	.4207	.4150	.3569	-.4688	
.010		-.4801	-.4897		-.2085	-.0591	-.1116	-.2440		
.020		-.4737		.0000	-.2953	-.1912	-.2112	-.2962	-.6082	
.040			-.4535	-.2243						
.041	-.1737									
.050					-.3913	-.3569	-.3686	-.4278		
.069									-.5977	
.080					-.4635					
.081				-.2638						
.086			-.4061							
.094		-.4982								
.113	-.2107									
.150					-.5573	-.5657	-.5511	-.5453		
.157									-.5994	
.163			.0000							
.177				-.2985						
.229		-.2489								
.246			-.3479							
.247	-.2321									
.250					-.4985	-.6390	-.6389	-.6260		
.274				-.3552						
.345									-.6220	
.352		-.0263								
.390			-.2583							
.400					-.5103	-.6881		-.6450		
.402				-.4589						
.418										-.6183
.429	-.1331									
.497		-.2406								
.503									-.6250	
.547	-.1293									
.550					-.5139	-.6487				
.565				-.4758						
.600								-.6158		
.633	-.3500									
.637			-.4193							
.650							-.6087			
[illegible]									-.5930	
[illegible]		-.3397				-.4934				
[illegible]										-.5775
[illegible]					-.2582					
[illegible]	-.3592									
[illegible]							-.5395	-.5090		
[illegible]				-.2034						
[illegible]					-.2210	-.2999				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA (4) = 7.960 BETA (3) = 4.251

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0499									
.798			-.1708							
.808				-.1731						
.834		-.1319								
.839			-.1092							
.850					-.1195	-.2394	-.4820			
.857				-.1438						
.862									-.5816	
.865		-.2005								
.879			-.1146							
.900		-.0756			-.1233			-.4601		
.905				-.1372						
.919			-.0971							
.950					-.1150	-.1324	-.3936			
.953				-.0952						
.955			-.1099							
.965		-.1123								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0520	-.3274	-.4848	-.0011	.5104	.5486	.5325	.4390	-.3715	
.010		-.3915	-.4543		-.1915	-.0476	-.1335	-.2872		
.020		-.3794		.0000	-.3045	-.2050	-.2545	-.3487	-.5807	
.040			-.3738	-.4541						
.041	-.0621									
.050					-.4485	-.3907	-.4155	-.4809		
.069									-.5745	
.080					-.5509					
.091				-.5155						
.086			-.3042							
.094		-.2636								
.113	-.0808									
.150					-.6814	-.6304	-.6079	-.6113		
.157									-.5828	
.163			.0000							
.177				-.5947						
.209		-.2311								
.246			-.3822							
.247	-.1093									
.250					-.7078	-.6356	-.5914	-.5769		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA S = 11.929 BETA (I) = -3.853

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5740						
.345									-.5966	
.362		-.1879								
.390			-.4705							
.400					-.6862	-.6330		-.6101		
.402				-.5759						
.418										-.5932
.429	-.1881									
.497		-.4513								
.503									-.5937	
.547	-.2797									
.550					-.6395	-.6070				
.565				-.5516						
.600								-.5646		
.633	-.4657									
.637			-.5302							
.650							-.5691			
.670									-.5434	
.702		-.5182				-.5755				
.703										-.5271
.725					-.5682					
.727	-.4472									
.750							-.5334	-.5740		
.760				-.3242						
.775					-.5615	-.5462				
.793	-.2035									
.798			-.2407							
.808				-.3435						
.834		-.0861								
.839			-.1879							
.850					-.4801	-.4567	-.5116			
.857				-.2833						
.862									-.5448	
.885		-.1093								
.890			-.1608							
.910		.0342			-.4612			-.5588		
.935				-.2072						
.939			-.1672							
.950					-.3902	-.3855	-.4276			
.953				-.1174						
.955			-.1864							
.985		-.0553								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA (5) = 11.937 BETA (2) = .177 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0309	-.4744	-.4691	-.2104	.3296	.3819	.3642	.2675	-.5278	
.010		-.4184	-.4589		-.3425	-.1984	-.2828	-.4305		
.020		-.4035		.0000	-.4409	-.3416	-.3937	-.4780	-.6352	
.040			-.4447	-.4801						
.041	-.1361									
.050					-.5602	-.4976	-.5250	-.5842		
.069									-.6129	
.080					-.6387					
.081				-.5008						
.086			-.4185							
.094		-.4611								
.113	-.1773									
.150					-.7402	-.6916	-.6711	-.6783		
.157									-.6103	
.163			.0000							
.177				-.4865						
.229		-.5323								
.246			-.4617							
.247	-.1683									
.250					-.7216	-.7051	-.6481	-.6700		
.274				-.5077						
.345									-.6084	
.362		-.3762								
.390			-.4420							
.400					-.7046	-.7065		-.6848		
.402				-.5136						
.418										-.6009
.429	-.2526									
.497		-.4078								
.503									-.6112	
.547	-.2505									
.550					-.6765	-.6635				
.565				-.5162						
.600								-.6196		
.633	-.4454									
.637			-.5590							
.650							-.6063			
.670									-.5868	
.700		-.4746				-.6126				
.723										-.5728
.725					-.4043					
.727	-.4327									
.750							-.5417	-.5946		
.760				-.2487						
.775					-.3868	-.5446				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U14)

ALPHA (5) = 11.937 BETA (3) = .177

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1337									
.798			-.2499							
.808				-.2768						
.834		-.1417								
.839			-.2109							
.840					-.3044	-.4719	-.4854			
.857				-.2142						
.862									-.5775	
.865		-.1816								
.879			-.1422							
.900		-.0666			-.2481			-.5780		
.905				-.2793						
.919			-.0619							
.950					-.2065	-.3532	-.4395			
.953				-.2511						
.965			-.0934							
.965		-.0546								

ALPHA (5) = 11.932 BETA (3) = 4.267 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0934	-.5096	-.5151	-.4308	.1531	.1937	.1908	.0937	-.6373	
.013		-.4961	-.5149		-.4847	-.3513	-.4091	-.5359		
.020		-.4916		.0000	-.5604	-.4805	-.5086	-.5810	-.6200	
.040			-.5222	-.4173						
.041	-.2032									
.060					-.6536	-.5990	-.6132	-.6636		
.069									-.6088	
.080					-.6699					
.081				-.4104						
.085			-.4902							
.094		-.5628								
.1	-.2259									
.1					-.6716	-.7169	-.6970	-.7001		
.1									-.6020	
.103			.0000							
.107				-.4441						
.109		-.6619								
.126			-.4793							
.147	-.2508									
.150					-.6313	-.6888	-.6740	-.6928		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU14)

ALPHA (5) = 11.932 BETA (3) = 4.267

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4606						
.345									-.5960	
.362		-.3540								
.390			-.5526							
.400					-.6229	-.7020		-.6199		
.402				-.5172						
.418										-.5908
.429	-.2784									
.431		-.3593								
.503									-.6029	
.547	-.2105									
.550					-.5599	-.6491				
.569				-.5346						
.600								-.6089		
.633	-.4107									
.637			-.5114							
.650							-.6267			
.670									-.5828	
.700		-.4040				-.5882				
.723										-.5679
.725					-.2423					
.727	-.4048									
.750							-.5875	-.5872		
.760				-.2685						
.775					-.2689	-.5263				
.793	-.0234									
.799			-.2320							
.808				-.3133						
.834		-.2147								
.839			-.1655							
.850					-.2456	-.4909	-.5607			
.857				-.2770						
.892									-.5749	
.899		-.2277								
.909			-.1612							
.920		-.1240			-.2751			-.5763		
.929				-.2417						
.939			-.1361							
.950					-.2979	-.1473	-.4595			
.958				-.1915						
.965			-.1233							
.965		-.1254								

REPRODUCIBILITY OF THE
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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15) (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 = 1.100

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0008
X/CW										
.000	-.2906	-.1208	-.1631	.2546	.5883	3173	.4718	.4891	-.6221	
.010		-.0574	-.0461		.7141	.6854	.6488	.5710		
.020		-.0524		.0000	.6398	.5951	.5689	.5262	-.1323	
.040			.0396	.4666						
.041	-.1517									
.050					.4297	.3885	.3663	.3415		
.069									-.1933	
.080					.2467					
.081				.3553						
.086			.2379							
.094		-.0168								
.113	-.1158									
.150					.0227	.0068	.0167	-.0017		
.157									-.3474	
.163			.0000							
.177				.0802						
.229		.0238								
.246			.1777							
.247	-.0018									
.250					-.1431	-.1991	-.2128	-.2511		
.274				-.0296						
.345									-.3586	
.352		.2009								
.390			-.0117							
.400					-.0463	-.1469		-.4597		
.402				-.1334						
.418										-.7037
.429	.1177									
.497		.0112								
.503									-.3937	
.547	.1241									
.550					.0898	-.0508				
.565				.1834						
.600								-.2392		
.633	-.0205									
.637			.2311							
.650							-.1700			
.670									-.1921	

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (1) = -4.072 BETA (1) = -3.851

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.2557				-.0576				
.723										-.6519
.725					-.0063					
.727	.2249									
.750							-.0904	-.1226		
.760				-.0620						
.775					.0155	-.0862				
.733	.3514									
.798			-.0490							
.808				.0488						
.834		-.0154								
.839			.0748							
.850					.0047	-.1176	.0091			
.857				.0298						
.862									.0202	
.865		-.0295								
.872			.0357							
.900		.0050			-.0341			.1166		
.905				-.0075						
.919			-.0328							
.950					.0677	.1330	.1546			
.963				.0184						
.955			.0430							
.965		.0815								

ALPHA (1) = -4.070 BETA (2) = .189 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2764	-.1172	-.1034	.2709	.5339	.4406	.3870	.3990	-.7022	
.010		-.0883	-.0332		.6539	.6198	.5901	.5304		
.020		-.0767		.0000	.5886	.5461	.5311	.4922	-.2093	
.040			.0466	.4198						
.041	-.2396									
.060					.4059	.3697	.3571	.3320		
.079									-.2506	
.080					.2450					
.081				.3268						
.085			.2200							
.094		-.0408								
.113	-.1817									
.150					.0426	.0367	.0375	.0192		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (1) = -4.070 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.3990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.157									-.3558	
.163			.0000							
.177				.1024						
.229		.0182								
.245			.1657							
.247	-.0157									
.250					-.0976	-.1574	-.1687	-.2238		
.274				-.0128						
.345									-.2917	
.362		.1890								
.390			.0043							
.400					.0460	-.0421		-.2962		
.402				-.0383						
.418										-.7814
.429	.1127									
.497		.0401								
.503									-.3038	
.547	.1281									
.560					.0712	-.0638				
.585				.1702						
.600								-.3012		
.633	.0467									
.637			.2151							
.650							-.1872			
.670									-.2497	
.700		.2422				-.0841				
.723										-.7019
.725					-.0288					
.727	.2184									
.750							-.1380	-.1896		
.760				-.0811						
.775					-.0269	-.1172				
.793	.3321									
.798			-.0689							
.809				-.0037						
.834		-.0392								
.839			.0105							
.850					-.0437	-.1711	-.0871			
.867				-.0275						
.882									-.0301	
.885		-.0871								
.879			-.0116							
.900		-.0325			-.1082			.0306		
.905				-.0561						
.919			-.0955							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (1) = -4.070 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					-.0557	-.0182	.0709			
.953				-.0836						
.955			-.0303							
.965		.0121								

ALPHA (1) = -4.075 BETA (3) = 4.283 MACH = 1.0992 Q = 599.87 P = 709.32 RN/L = 3.1890

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2792	-.1347	-.0355	.3290	.4897	.3689	.2950	.2989	-.7618	
.010		-.0835	.0300		.5968	.5515	.5075	.4513		
.020		-.0760		.0000	.5370	.4801	.4508	.4198	-.3040	
.040			.1206	.3970						
.041	-.3042									
.050					.3701	.3208	.2976	.2784		
.059									-.3278	
.080					.2245					
.081				.3200						
.096			.2702							
.094		-.0477								
.113	-.2435									
.150					.0451	.0200	.0140	.0003		
.157									-.3792	
.163			.0000							
.177				.1317						
.229		.0515								
.246			.1808							
.247	-.0344									
.250					-.0841	-.1580	-.1514	-.1731		
.274				.0282						
.343									-.3250	
.352		.2219								
.390			.0314							
.400					.0459	-.0459		-.3100		
.402				-.0278						
.418										-.3888
.429	.1629									
.497		.0591								
.503									-.3024	
.547	.1482									
.550					.0481	-.0793				
.565				.1446						

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (1) = -.075 BETA (3) = 4.283

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BL/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3259		
.633	.0505									
.637			.1829							
.650							-.2131			
.670									-.2219	
.700		.2121				-.1208				
.723										-.3774
.725					-.0644					
.727	.1846									
.750							-.1831	-.2274		
.760				-.1106						
.775						-.0781	-.1580			
.793	.3022									
.798			-.0994							
.808				-.0648						
.834		-.0693								
.879			-.0578							
.900						-.0949	-.2170	-.1588		
.907				-.1102						
.942									-.0214	
.965		-.1432								
.870			-.0823							
.900		-.0833				-.1768		-.0145		
.905				-.1145						
.919			-.1563							
.950						-.1427	-.1269	-.0084		
.953				-.1544						
.955			-.1210							
.965		-.0857								

ALPHA (2) = -.011 BETA (1) = -3.863 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

BL/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1504	-.0432	-.0061	.4535	.6706	.6092	.5706	.5785	-.3693	
.010		-.0568	.0298		.5606	.5729	.5240	.4115		
.020		-.0950		.0000	.4502	.4230	.3933	.3482	-.1505	
.040			.0567	.2904						
.041	-.1526									
.050					.2198	.1659	.1391	.1164		
.070									-.2307	
.080					.0144					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (2) = -.011 BETA (1) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1436						
.086			.1482							
.094		-.0929								
.113	-.1133									
.150					-.2199	-.2497	-.2343	-.2153		
.157									-.4426	
.163			.0000							
.177				-.0710						
.228		-.0155								
.245			.0151							
.247	-.0848									
.260					-.3376	-.4012	-.4242	-.4312		
.274				-.2121						
.345									-.4751	
.352		.1063								
.390			-.1758							
.400					-.4597	-.5491		-.6445		
.402				-.3854						
.418										-.1638
.429	.0693									
.437		-.1009								
.503									-.5366	
.547	.0300									
550					-.0756	-.4350				
.555				.0340						
.600								-.6238		
.633	-.1971									
.637			.1110							
.650							-.5522			
.670									-.3427	
.700		.1101				-.1360				
.723										-.3854
.725					-.0414					
.727	.0220									
.750							-.1165	-.2558		
.760				-.0810						
.775					.0142	-.0703				
.793	.2796									
.798			-.0748							
.809				.0378						
.834		-.0337								
.839			.0551							
.850					.0084	-.0249	.1040			
.857				.0102						
.862									-.1870	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (2) = -.011 BETA (1) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0138								
.879			.0192							
.900		-.0126			.0139			-.1420		
.905				-.0264						
.919			-.0334							
.950					.0769	.1283	.1937			
.953				.0339						
.955			.0230							
.965		.0355								

ALPHA (2) = -.004 BETA (2) = .183 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1736	-.1261	-.0352	.4238	.6076	.5378	.4927	.5058	-.2325	
.010		-.1627	-.0136		.4774	.4911	.4444	.3531		
.020		-.1888		.0000	.3757	.3485	.3258	.2956	-.1578	
.040			.0247	.2358						
.041	-.2287									
.050					.1611	.1098	.0926	.0803		
.069									-.2303	
.080					-.0206					
.081				.1007						
.086			.1138							
.094		-.1099								
.113	-.1902									
.150					-.2341	-.2614	-.2468	-.2230		
.157									-.4403	
.163			.0030							
.177				-.0928						
.188		-.0325								
.246			-.0105							
.247	-.1009									
.250					-.3298	-.3701	-.4152	-.4370		
.274				-.2179						
.345									-.4517	
.365		.0329								
.390			-.1819							
.400					-.4408	-.5267		-.6121		
.409				-.3749						
.419										-.1783
.429	.0624									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (2) = -.004 BETA (2) = .183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1137								
.503									-.5102	
.547	.0043									
.550					.0096	-.1254				
.585				.0821						
.600								-.5966		
.633	-.2004									
.637			.1405							
.650							-.1971			
.670									-.3304	
.700		.1390				-.1214				
.723										-.4409
.725					-.0588					
.727	.0901									
.750							-.0460	-.1404		
.760				-.1021						
.775					-.0473	-.1226				
.778	.2575									
.798			-.0972							
.808				-.0139						
.834		-.0693								
.833			.0034							
.850					-.0545	-.1304	.0688			
.857				-.0459						
.862									-.2030	
.885		-.0643								
.879			-.0374							
.900		-.0605			-.1048			.0660		
.905				-.0752						
.919			-.0853							
.950					-.0161	.0745	.1328			
.953				-.0777						
.955			-.0671							
.965		-.0433								

AMES 11-073(OA148) -140A/B/C/P ORB LEFT WING TOP (XE8U15)

ALPHA (α) = -.007 BETA (β) = 4.260 MACH = 1.0994 Q = 599.94 P = 709.68 RN/L = 3.1892

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/Cn	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.1935	-.2447	-.0690	.4158	.5807	.4764	.4293	.4280	-.1919	
.010		-.2851	-.0305		.4176	.4094	.3577	.2464		
.020		-.2851		.0000	.3283	.2763	.2425	.1941	-.2180	
.040			.0239	.2148						
.041	-.2965									
.060					.1410	.0515	.0254	-.0041		
.069									-.2777	
.080					-.0327					
.081				.1031						
.085			.1287							
.094		-.1217								
.113	-.2549									
.150					-.2097	-.2681	-.2693	-.2606		
.157									-.4726	
.163			.0000							
.177				-.0764						
.223		-.0173								
.246			.0229							
.247	-.0948									
.250					-.3077	-.3701	-.3878	-.4524		
.274				-.1907						
.345									-.4745	
.362		.1159								
.390			-.1615							
.400					-.3829	-.4998		-.6209		
.402				-.3313						
.418										-.2635
.429	.0747									
.497		-.0884								
.503									-.5137	
.547	.0274									
.550					-.0042	-.1007				
.565				.0711						
.600								-.5207		
.633	-.1733									
.647			.1038							
.650							-.1983			
.699									-.3015	
.701		.1159				-.1369				
.733										-.5405
.750					-.0839					
.777	.0872									
.780							-.1531	-.0205		
.780				-.1399						
.775					-.0897	-.1589				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (2) = -.007 BETA (3) = 4.260

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2256									
.798			-.1355							
.808				-.0726						
.834		-.1053								
.839			-.0697							
.850					-.1021	-.1852	-.0039			
.857				-.1125						
.862									-.2083	
.865		-.1307								
.879			-.0987							
.900		-.1143			-.1771			.1193		
.905				-.1299						
.919			-.1489							
.950					-.1400	-.0714	.0825			
.953				-.1572						
.955			-.1448							
.965		-.1384								

ALPHA (3) = 3.951 BETA (1) = -3.870 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0780	-.0811	-.1356	.4686	.7088	.6829	.6655	.6330	.0023	
.010		-.1550	-.1110		.3241	.3932	.3271	.1467		
.020		-.1786		.0000	.2018	.2060	.1646	.0782	-.2580	
.040			-.0626	.0590						
.041	-.1496									
.050					-.0289	-.0650	-.0949	-.1564		
.069									-.3261	
.080					-.2183					
.081				-.1045						
.085			-.0054							
.094		-.2257								
.113	-.1227									
.150					-.3886	-.4545	-.4252	-.4034		
.157									-.5466	
.163			.0000							
.177				-.2619						
.223		-.0875								
.245			-.1434							
.247	-.1710									
.250					-.5034	-.5788	-.5939	-.5798		

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

ALPHA (3) = 3.931 BETA (1) = -3.870

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.274				-.3693						
.345									-.6456	
.382		.0333								
.390			-.3055							
.400					-.5806	-.7236		-.6853		
.402				-.4889						-.4413
.418										
.429	.0073									
.497		-.1974							-.7194	
.503										
.547	-.0768									
.550					-.3166	-.6824				
.565				-.1895						
.600								-.4965		
.633	-.3141									
.637			-.1177							
.650							-.5191			
.670									-.6884	
.700		-.1560				-.3799				
.703										-.7573
.725					-.1253					
.727	-.2942									
.750							-.4326	-.3798		
.760				-.0936						
.775					-.0370	-.1158				
.793	.1934									
.798			-.1125							
.808				.0762						
.834		-.0449								
.839			.0702							
.850					.0423	-.0638	-.3394			
.857				.0488						
.862									-.6461	
.865		-.0401								
.879			.0436							
.900		.0193			.0291			-.2735		
.905				.0251						
.919			.0196							
.950					.0632	.0300	-.2179			
.953				.0428						
.955			.0401							
.985		.0535								

AMES 11-073(@A148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (3) = 3.932 BETA (2) = .189 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1231	-.2400	-.2413	.3837	.6360	.6017	.5885	.5516	-.0973	
.010		-.3096	-.1879		.2217	.2973	.2291	.0566		
.020		-.3067		.0000	.1106	.1170	.0782	-.0169	-.3417	
.040			-.1007	-.0016						
.041	-.2264									
.050					-.0882	-.1241	-.1586	-.2172		
.069									-.3872	
.080					-.2528					
.081				-.1279						
.086			-.0116							
.094		-.2929								
.113	-.2034									
.150					-.4035	-.4739	-.4505	-.4385		
.157									-.5852	
.163			.0000							
.177				-.2522						
.203		-.0876								
.246			-.1468							
.247	-.2245									
.250					-.4894	-.5811	-.6000	-.5953		
.274				-.3485						
.345									-.6725	
.362		.0264								
.390			-.3069							
.403					-.5408	-.6815		-.7640		
.402				-.4752						
.418										-.6105
.429	.0166									
.497		-.2055								
.503									-.7323	
.547	-.0955									
.550					-.2245	-.6362				
.585				-.1279						
.600								-.5840		
.633	-.3150									
.637			-.0855							
.650							-.5867			
.670									-.6371	
.700		-.0410				-.1754				
.723										-.6528
.745					-.1366					
.767	-.1623									
.750							-.4307	-.3736		
.760				-.1508						
.775					-.0493	-.1272				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (3) = 3.932 BETA (2) = .180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2103									
.798			-.1143							
.808				-.0224						
.834		-.0710								
.839			-.0341							
.850					-.0243	-.0660	-.2202			
.857				-.0597						
.862									-.5664	
.865		-.1205								
.879			-.0489							
.900		-.0548			-.0522			-.2579		
.905				-.0671						
.919			-.0891							
.950					.0090	.0182	.0674			
.953				-.0421						
.955			-.0793							
.965		-.0914								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1669	-.4431	-.3178	.3059	.5572	.5170	.4896	.4319	-.2847	
.010		-.4300	-.1717		.1198	.1753	.0922	-.0823		
.020		-.4500		.0000	.0356	.0153	-.0404	-.1552	-.4826	
.040			-.1030	-.0206						
.041	-.2901									
.060					-.1297	-.1978	-.2518	-.3190		
.069									-.4917	
.080					-.2771					
.081				-.1241						
.086			.0382							
.094		-.3151								
.113	-.2262									
.150					-.4086	-.4970	-.5067	-.5053		
.157									-.6482	
.163			.0000							
.177				-.2398						
.229		-.0833								
.248			-.1243							
.247	-.2422									
.250					-.4695	-.6048	-.6265	-.6374		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (3) = 3.935 BETA (3) = 4.249

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y =	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3239						
.345									-.7063	
.362		.0525								
.390			-.2721							
.400					-.5381	-.6605		-.7860		
.402				-.4518						
.418										-.7409
.429	.0534									
.437		-.1836								
.503									-.7208	
.547	-.0597									
.550					-.2185	-.5383				
.565				-.1487						
.600								-.6998		
.633	-.2967									
.647			-.0451							
.650							-.6570			
.670									-.6146	
.700		-.0299				-.2497				
.723										-.6090
.725					-.1511					
.727	-.1464									
.760							-.2307	-.4171		
.760				-.1628						
.775					-.1069	-.1944				
.793	.1752									
.798			-.1415							
.808				-.1188						
.834		-.1155								
.839			-.1143							
.850					-.1127	-.1634	-.0089			
.857				-.1491						
.862									-.5667	
.865		-.1710								
.879			-.1296							
.880		-.1293			-.1686			-.3483		
.895				-.1670						
.919			-.1603							
.920					-.1007	-.0328	.0872			
.923				-.1736						
.935			-.1710							
.965		-.1822								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (A) = 7.884 BETA (B) = -3.865 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0443	-.2409	-.5342	.2655	.6187	.6122	.5946	.4979	-.2757	
.010		-.3368	-.5307		-.0392	.0811	-.0137	-.2081		
.020		-.3130		.0000	-.1259	-.1007	-.1540	-.2973	-.6573	
.040			-.3955	.2003						
.041	-.1634									
.050					-.3024	-.3255	-.3802	-.4728		
.069									-.5937	
.080					-.4530					
.091				-.3263						
.096			-.2872							
.094		-.2886								
.113	-.1326									
.150					-.6574	-.6450	-.6475	-.6377		
.157									-.5797	
.163			.0000							
.177				-.4268						
.223		-.2492								
.246			-.2407							
.247	-.1977									
.260					-.7004	-.7715	-.6288	-.5902		
.274				-.4917						
.345									-.5280	
.362		-.0097								
.380			-.3812							
.400					-.7009	-.7138		-.6021		
.402				-.5924						
.418										-.5420
.429	-.0842									
.497		-.2908								
.503									-.5138	
.547	-.1211									
.550					-.5266	-.6266				
.565				-.3641						
.600								-.5115		
633	-.4081									
.637			-.3064							
660							-.5275			
.670									-.4625	
.700		-.4898				-.5602				
.723										-.4655
.725					-.2985					
.727	-.4434									
750							-.4905	-.4664		
760				-.1544						
775					-.2854	-.4406				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (4) = 7.884 BETA (1) = -3.865

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1399									
.798			-.1236							
.808				-.0163						
.834		.0068								
.838			-.0073							
.850					-.1381	-.3796	-.4441			
.857				-.0029						
.862									-.4172	
.865		-.0428								
.879			-.0027							
.900		.0302			-.0851			-.4358		
.905				-.0211						
.919			-.0108							
.950					.0049	-.2446	-.4133			
.963				.0064						
.985			.0282							
.995		.0186								

ALPHA (4) = 7.965 BETA (2) = .179 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1016	-.4623	-.6793	.0809	.4980	.5006	.4703	.3799	-.4764	
.010		-.5220	-.5746		-.1524	-.0479	-.1480	-.3350		
.020		-.4847		.0000	-.2282	-.2078	-.2629	-.3989	-.6314	
.040			-.4601	-.2279						
.041	-.2177									
.050					-.3578	-.4001	-.4603	-.5548		
.069									-.6145	
.080					-.4909					
.081				-.3059						
.096			-.3541							
.099		-.3623								
.113	-.2198									
.150					-.6571	-.6765	-.6867	-.6935		
.157									-.5988	
.163			.0000							
.177				-.3811						
.229		-.2239								
.245			-.2768							
.247	-.2626									
.250					-.6650	-.7869	-.7015	-.6553		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (4) = 7.955 BETA (2) = .179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4+00						
.345									-.5779	
.362		.0064								
.390			-.4104							
.400					-.6612	-.8106		-.6924		
.402				-.5731						
.418										-.5780
.429	-.0322									
.487		-.3005								
.503									-.5713	
.547	-.1191									
.550					-.4171	-.6725				
.565				-.4271						
.600								-.5761		
.633	-.4018									
.637			-.3314							
.650							-.5965			
.670									-.5246	
.700		-.4072				-.5458				
.723										-.5104
.725					-.2217					
.727	-.4277									
.750							-.5334	-.5282		
.760				-.1394						
.775					-.2150	-.3980				
.793	.1060									
.798			-.1310							
.808				-.0659						
.834		-.0637								
.839			-.0294							
.850					-.1301	-.2419	- 4865			
.857				-.0880						
.862									-.4783	
.865		-.1032								
.879			-.0316							
.900		-.0074			-.0950			-.4704		
.915				-.0985						
.919			-.0553							
.930					-.0220	-.0730	-.4375			
.953				-.0797						
.955			-.0551							
.965		-.0785								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1649	-.6807	-.4552	-.0382	.3670	.3696	.3312	.2250	-.6808	
.010		-.6034	-.4051		-.2653	-.1782	-.2983	-.4771		
.020		-.5792		.0000	-.3310	-.3090	-.3951	-.5338	-.7338	
.040			-.3826	-.1232						
.041	-.2861									
.050					-.4053	-.4773	-.5450	-.6554		
.069									-.6846	
.080					-.4989					
.081				-.1798						
.086			-.2553							
.094		-.6465								
.113	-.3080									
.150					-.5970	-.7058	-.7337	-.7592		
.157									-.6763	
.163			.0000							
.177				-.2890						
.223		-.1592								
.246			-.2440							
.247	-.3228									
.250					-.5743	-.7947	-.8203	-.8107		
.274				-.3891						
.345									-.6642	
.362		.0732								
.390			-.3384							
.400					-.5920	-.8163		-.7991		
.402				-.5188						
.418										-.6562
.429	.0506									
.497		-.2583								
.503									-.6608	
.547	-.0995									
.551					-.4549	-.7119				
.565				-.2950						
.609								-.6808		
.633	-.3870									
.637			-.1867							
.650							-.6323			
.670									-.6452	
.700		-.2893				-.3850				
.723										-.6261
.725					-.1772					
.727	-.3767									
.750							-.5322	-.6331		
.760				-.2214						
.775					-.1158	-.2570				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U15)

ALPHA (4) = 7.966 BETA (3) = 4.242

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1067									
.798			-.1720							
.808				-.1923						
.834		-.1532								
.839			-.1670							
.850					-.1242	-.2047	-.4870			
.857				-.1996						
.862									-.6247	
.866		-.1986								
.879			-.1435							
.900		-.1278			-.1772			-.5804		
.925				-.1553						
.939			-.1492							
.950					-.1046	-.1211	-.4151			
.953				-.1879						
.965			-.1573							
.965		-.1777								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0509	-.4646	-.6432	-.1591	.3655	.3949	.3610	.2469	-.6090	
.010		-.5134	-.5975		-.4472	-.3029	-.4115	-.5771		
.020		-.5071		.0000	-.5583	-.4663	-.5350	-.6361	-.6442	
.040			-.5061	-.6058						
.041	-.1520									
.050					-.6924	-.6399	-.6868	-.7658		
.069									-.5919	
.080					-.7908					
.081				-.6954						
.090			-.4170							
.094		-.3734								
.113	-.1407									
.120					-.8031	-.7535	-.7326	-.7848		
.137									-.5788	
.193			.0000							
.211				-.5920						
.220		-.3259								
.246			-.3927							
.247	-.1914									
.250					-.7915	-.7518	-.7514	-.7784		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU15)

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

ALPHA (5) = 11.925 BETA (1) = -3.850

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4500					-.5793	
.345										
.362		-.2183								
.390			-.4483							
.400					-.7178	-.7177		-.6088		
.402				-.5836						-.5727
.418										
.439	-.2641									
.491		-.3810							-.5785	
.503										
.547	-.1539									
.550					-.6804	-.6956				
.565				-.4710						
.600								-.5896		
.633	-.4475									
.637			-.4349							
.650							-.6182			
.674									-.5450	
.701		-.5748				-.6503				
.732										-.5321
.736					-.4958					
.767	-.5077						-.5812	-.5797		
.780				-.2723						
.775					-.5430	-.5804				
.793	.0294									
.798			-.2690							
.818				-.3828						
.844		-.0898								
.863			-.1457							
.880					-.3515	-.4620	-.5524			
.887				-.3678						
.892									-.5133	
.895		-.1449								
.899			-.1791							
.910		-.0342			-.3026			-.5691		
.915				-.3231						
.919			-.1651							
.930					-.2102	-.3674	-.5039			
.933				-.2252						
.935			-.0861							
.955		-.1490								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (E = 11.933 BETA (2) = .177 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BX	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1388	-.6380	-.6150	-.4013	.2006	.2395	.2153	.1038	-.7332	
.010		-.5529	-.6000		-.5830	-.4183	-.5112	-.6809		
.020		-.5294		.0000	-.6614	-.5769	-.6376	-.7310	-.6781	
.040			-.5850	-.3354						
.041	-.2439									
.060					-.7215	-.7085	-.7618	-.8308		
.069									-.6405	
.080					-.7114					
.081				-.3215						
.086			-.5396							
.094		-.6080								
.113	-.2602									
.150					-.6770	-.8309	-.7940	-.8802		
.157									-.6303	
.163			.0000							
.177				-.3786						
.229		-.6951								
.246			-.4779							
.247	-.2654									
.250					-.6624	-.8122	-.8113	-.6801		
.274				-.5386						
.345									-.6270	
.362		-.1574								
.380			-.6029							
.400					-.7045	-.7680		-.6462		
.402				-.6356						
.418										-.6188
.429	-.2362									
.497		-.3407								
.503									-.6260	
.547	-.1155									
.550					-.6253	-.7249				
.565				-.6131						
.600								-.6447		
.673	-.5065									
.677			-.6441							
.680							-.6704			
.690									-.5987	
.700		-.5348				-.6624				
.714										-.5766
.719					-.3776					
.727	-.5205									
.750							-.6469	-.6272		
.760				-.2440						
.778					-.3865	-.5629				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU15)

ALPHA (5) = 11.933 BETA (2) = .177

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.793	-.0559									
.798			-.1893							
.809				-.3272						
.834		-.1278								
.839			-.1158							
.850					-.3190	-.4540	-.6150			
.857				-.3433						
.862									-.5540	
.885		-.1426								
.889			-.1046							
.900		-.0473			-.2879			-.6105		
.908				-.3467						
.913			-.1579							
.930					-.1892	-.2630	-.5507			
.953				-.3078						
.965			-.1650							
.976		-.1393								

ALPHA (5) = 11.928 BETA (3) = 4.259 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.000	-.2190	-.6733	-.6675	-.4226	.0818	.0885	.0501	-.0714	-.8079	
.010		-.6536	-.6570		-.6392	-.5399	-.6379	-.7855		
.020		-.6500		.0000	-.7079	-.6753	-.7373	-.8247	-.7246	
.040			-.6254	-.1514						
.041	-.3341									
.060					-.7466	-.7850	-.8454	-.7843		
.079									-.7051	
.080					-.7328					
.081				-.2641						
.086			-.5284							
.094		-.7184								
.113	-.3271									
.150					-.6806	-.8789	-.8580	-.7596		
.157									-.6908	
.183			.0000							
.177				-.4589						
.259		-.8359								
.265			-.4502							
.341	-.3807									
.350					-.6242	-.8647	-.8235	-.7358		

DATE 11 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU15)

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

ALPHA (5 = 11.928 BETA (3) = 4.259

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.5730	.7600	.8870	.9720	1.0000
X/CW										
.324				-.4419						
.345									-.6860	
.352		-.0230								
.389			-.4375							
.400					-.6464	-.8040		-.7289		
.402				-.5841						
.418										-.6828
.429	-.1925									
.437		-.3153								
.503									-.6846	
.547	-.1061									
.560					-.5180	-.7511				
.565				-.6492						
.602								-.7145		
.633	-.4732									
.637			-.4825							
.680							-.7423			
.703									-.6591	
.710		-.4562				-.6269				
.743										-.6353
.765					-.3238					
.767	-.4784									
.782							-.7196	-.6895		
.790				-.3022						
.795					-.4003	-.4922				
.793	-.0230									
.798			-.2178							
.828				-.3567						
.834		-.1851								
.839			-.2297							
.840					-.3302	-.4372	-.6806			
.847				-.3277						
.879									-.6177	
.884		-.2226								
.893			-.2168							
.915		-.1410			-.3606			-.6666		
.926				-.2777						
.934			-.1978							
.951					-.3209	-.1931	-.5897			
.958				-.3079						
.965			-.1821							
.985		-.1770								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16) (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 = 35.000
BDFLAP = .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 (I)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.4367	-.0409	-.0969	.1509	.4110	.3160	.2531	.2701	-1.0622	
.010		.0349	.0572		.6143	.5779	.5377	.4437		
.020		.0458		.0000	.5449	.4918	.4584	.3987	-.3936	
.040			.1628	.3987						
.060	-.0515									
.080					.3312	.2711	.2474	.1920		
.100									-.4527	
.120					.1350					
.140				.2621						
.160			.2862							
.180		.0544								
.200	.0428									
.250					-.0920	-.1312	-.1463	-.1916		
.300									-.5656	
.350			.0000							
.400				-.0140						
.450		.1622								
.500			.0807							
.550	.0716									
.600					-.2948	-.3448	-.3954	-.4943		
.650				-.1642						
.700									-.5294	
.750		.1546								
.800			-.1303							
.850					-.2104	-.3358		-.6404		
.900				-.1992						
.925										-.5861
.950	.1585									
.975		-.0857								
1.000									-.4017	
1.025	.0259									
1.050					-.1603	-.3180				
1.075				-.0442						
1.100								.2018		
1.133	-.1185									
1.167			.0197							
1.200							-.2091			
1.250									-.0435	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (1) = -4.023 BETA (1) = -3.852

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0510				-.1319				
.723										-.5176
.725					-.1432					
.727	.0286									
.750							.0635	.0679		
.760				-.2044						
.775					.0277	-.0492				
.793	.1735									
.799			-.1862							
.808				.0542						
.834		-.1814								
.839			.0654							
.850					.0773	.0435	.1043			
.857				.0519						
.862									.0448	
.865		-.0153								
.879			.0484							
.900		-.0326			.0577			.1190		
.905				.0529						
.919			.0344							
.950					.0778	.1242	.1346			
.953				.0578						
.955			.0389							
.965		.0642								

ALPHA (1) = -3.925 BETA (2) = .188 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4617	.0014	-.0228	.1682	.3489	.2343	.1573	.1584	-.8630	
.010		.0410	.0705		.5381	.4897	.4546	.3737		
.020		.0372		.0000	.4766	.4207	.3881	.3315	-.4751	
.040			.1494	.3257						
.041	-.1092									
.050					.2765	.2287	.2041	.1482		
.069									-.5211	
.080					.0974					
.091				.2214						
.095			.2503							
.094		.0308								
.113	.0254									
.150					-.1039	-.1381	-.1546	-.2079		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (1) = -3.925 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.5870	
.163			.0000							
.177				-.0187						
.229		.1337								
.246			.0477							
.247	.0574									
.260					-.2885	-.3228	-.3676	-.5099		
.274				-.1594						
.345									-.4914	
.382		.1302								
.390			-.1330							
.400					-.2266	-.3432		-.6228		
.402				-.2028						
.418										-.4928
.429	.1352									
.437		-.0353								
.503									-.4438	
.547	.0112									
.560					-.2101	-.3609				
.565				-.0864						
.600								-.5662		
.633	-.1236									
.637			-.0344							
.650							-.4669			
.672									-.0623	
.700		.0074				-.3160				
.723										-.4467
.725					-.3162					
.727	-.0194									
.750							.0503	.0702		
.760				-.3304						
.776					-.0432	-.1110				
.793	.1101									
.798			-.2722							
.809				-.0349						
.834		-.2555								
.839			-.0218							
.850					.0189	.0001	.0928			
.857				-.0194						
.882									.0311	
.895		-.1119								
.879			-.0228							
.900		-.1060			.0117			.1046		
.905				-.0141						
.919			-.0155							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (1) = -3.925 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0418	.0986	.1271			
.953				.0059						
.955			-.0048							
.955		.0205								

ALPHA (1) = -3.933 BETA (3) = 4.285 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4833	.0234	.0292	.1875	.3039	.1682	.0779	.0775	-.7738	
.010		.0557	.0835		.4736	.4206	.3794	.3050		
.020		.0284		.0000	.4137	.3590	.3282	.2674	-.5274	
.040			.1401	.2775						
.041	-.1251									
.050					.2397	.1878	.1619	.1102		
.069									-.5754	
.080					.0726					
.081				.1863						
.086			.2171							
.094		.0232								
.113	.0036									
.150					-.1026	-.1414	-.1563	-.2278		
.157									-.6197	
.163			.0000							
.177				-.0225						
.229		.1228								
.246			.0392							
.247	.0497									
.250					-.2650	-.3074	-.3608	-.4956		
.274				-.1476						
.345									-.5006	
.362		.1181								
.390			-.1245							
.400					-.2223	-.3329		-.6050		
.402				-.1999						
.418										
.429	.1190								-.4966	
.497		-.0954								
.503										
.547	.0010								-.4924	
.553					-.2306	-.3744				
.565				-.1123						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (1) = -3.933 BETA (3) = 4.285

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.6049		
.633	-.1251									
.637			-.0678							
.650							-.5074			
.670									-.0488	
.700		-.0256				-.3900				
.723										-.3385
.726					-.3389					
.727	-.0439									
.750							-.1570	-.0001		
.760				-.3442						
.775					-.3322	-.3971				
.793	.0710									
.799			-.3207							
.808				-.3109						
.824		-.3206								
.839			-.2760							
.850					-.1098	-.0966	.0371			
.867				-.1538						
.882									.0373	
.895		-.3277								
.879			-.1838							
.900		-.2565			-.0395			.0967		
.905				-.0714						
.919			-.0962							
.950					-.0046	.0654	.1085			
.953				-.0418						
.965			-.0524							
.985		-.0505								

ALPHA (2) = .017 BETA (1) = -3.871 MACH = .89983 V = 599.69 P = 10581.1 RN/L = 3.5748

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3692	.0479	.1001	.3696	.5438	.4811	.4411	.4468	-.3889	
.013		.0491	.1446		.4551	.4614	.4107	.2652		
.033		.0308		.0000	.3335	.2944	.2624	.1882	-.3138	
.042			.1851	.2036						
.041	-.1504									
.078					.0702	.0068	-.0203	-.0671		
.093									-.3546	
.142					-.1490					

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

A P-A (2) = .017 BETA (1) = -3.871

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.091				.0352						
.086			.2187							
.094		.0073								
.113	-.0366									
.150					-.3773	-.4397	-.4463	-.4512		
.167									-.6936	
.163			.0000							
.177				-.2774						
.223		.1063								
.246			-.0978							
.247	.0249									
.311					-.5333	-.6373	-.6674	-.6759		
.274				-.4017						
.345									-.7395	
.362		.0370								
.330			-.3383							
.400					-.3323	-.5748		-.9462		
.413				-.4250						
.414										-.3358
.429	.0921									
.437		-.2548								
.503									-.7599	
.547	.1127									
.550					-.2114	-.3767				
.565				-.0919						
.600								-.1569		
.633	-.3095									
.637			-.0255							
.650							-.1076			
.670									-.1374	
.700		-.0050				-.1026				
.723										-.2329
.735					-.1061					
.727	-.0415									
.750							.0654	.0730		
.760				-.1579						
.775					.0394	-.0273				
.783	.1333									
.788			-.1511							
.808				.0605						
.814		-.1649								
.823			.0692							
.850					.0762	.0572	.0985			
.867				.0608						
.892									-.0300	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (2) = .017 BETA (1) = -3.871

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.655		-.0078								
.879			.0420							
.900		-.0185			.0559			.1110		
.905				.0522						
.919			.0384							
.950					.0633	.1147	.1107			
.953				.0487						
.955			.0458							
.985		.0753								

ALPHA (2) = .043 BETA (2) = .183 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y SW	.2350	.2990	.3640	4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.002	-.4158	.0074	.0820	.3400	.4918	.4101	.3695	.3668	-.3896	
.010		-.0095	.1117		.3651	.3677	.3214	.1818		
.020		-.0204		.0000	.2522	.2149	.1794	.1165	-.3739	
.040			.1442	.1335						
.041	-.2719									
.060					.0114	-.0503	-.0795	-.1248		
.089									-.4513	
.080					-.1921					
.081				-.0079						
.096			.1710							
.104		-.0245								
.113	-.0474									
.160					-.3844	-.4321	-.4587	-.4825		
.197									-.7376	
.203			.0000							
.217				-.2772						
.229		.0722								
.245			-.1210							
.247	-.0003									
.260					-.4985	-.6209	-.6762	-.7063		
.274				-.3921						
.345									-.7516	
.352		.0079								
.340			-.3383							
.400					-.3404	-.4364		-.9336		
.403				-.4308						
.418										-.4083
.429	.0653									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (2) = .043 BETA (2) = .183

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.497		-.2698								
.503										
.547	-.1314								-.8056	
.550					-.2594	-.4374				
.565				-.1411						
.600								-.3773		
.633	-.3042									
.637			-.0850							
.650										
.670							-.3168			
.700		-.0545							-.1416	
.723						-.2199				
.725										-.2350
.727	-.0802				-.2562					
.750										
.760							.0958	.0742		
.775				-.2887						
.797	.0541				-.0302	-.0738				
.799			-.2547							
.808				-.0122						
.834		-.2479								
.839			-.0418							
.850					.0267	.0236	.0944			
.857				-.0100						
.862										
.865		-.1551							.0024	
.879			-.0368							
.900		-.1080			.0174					
.905				-.0005				.1143		
.919			-.0221							
.950					.0298	.0939	.0948			
.953				.0062						
.955			-.0083							
.965		.0233								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (2) = .037 BETA (3) = 4.263 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
X/Cm										
.000	-.4488	-.0401	.0506	.3078	.4487	.3571	.3163	.3032	.3509	
.010		-.0472	.0791		.2846	.2883	.2366	.0954		
.020		-.0499		.0000	.1812	.1371	.1054	.0336	.4231	
.040			.1151	.0909						
.041	-.3802									
.060					-.0371	-.0958	-.1293	-.1841		
.080									-.4963	
.080					-.2134					
.081				-.0331						
.085			.1385							
.094		-.0284								
.113	-.0493									
.120					-.3856	-.4180	-.4630	-.5009		
.140									-.7652	
.183			.0000							
.183				-.2452						
.203		.0723								
.214			-.1221							
.247	.0010									
.260					-.4805	-.6059	-.6634	-.7234		
.283				-.3330						
.285									-.7044	
.303		.0077								
.303			-.2883							
.400					-.3185	-.4370		-.7946		
.402				-.3783						
.408										-.5048
.410	.0587									
.417		-.2507								
.423									-.6167	
.447	-.1322									
.480					-.2829	-.4509				
.480				-.1644						
.480								-.5662		
.483	-.2857									
.497			-.1132							
.500							-.5476			
.500									-.1509	
.500		-.0759				-.4072				
.503										-.2778
.525					-.3577					
.547	-.0986									
.580							-.0454	.0260		
.580				-.3413						
.580					-.3395	-.3234				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (2) = .037 BETA (3) = 4.263

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0269									
.799			-.3020							
.808				-.3554						
.834		-.3092								
.839			-.3011							
.850					-.0792	-.0783	.0447			
.857				-.1346						
.862									.0114	
.865		-.3529								
.874			-.1639							
.900		-.2916			-.0395			.1030		
.905				-.0595						
.919			-.1006							
.950					-.0053	.0621	.0709			
.953				-.0332						
.955			-.0434							
.965		-.0522								

ALPHA (3) = 3.891 BETA (1) = -3.877 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2966	-.0345	.0610	.4076	.6125	.5718	.5454	.4875	-.2075	
.010		-.0805	.0733		.1751	.2167	.1173	-.1201		
.020		-.0949		.0000	.0421	-.0100	-.0722	-.1995	-.5333	
.040			.1032	-.0381						
.041	-.1837									
.050					-.2319	-.3187	-.3795	-.4743		
.063									-.6370	
.080					-.4655					
.081				-.2164						
.095			.1015							
.094		-.0592								
.113	-.1009									
.120					-.6950	-.7294	-.7360	-.7274		
.137									-.8956	
.143			.0300							
.147				-.4532						
.179		.0484								
.215			-.2654							
.247	-.0144									
.310					-.7542	-.9156	-.9594	-.8076		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU13)

ALPHA (3) = 3.891 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5943						
.345									-.6517	
.362		-.0692								
.390			-.5402							
.400					-.8526	-.9286		-.6060		
.402				-.7175						
.418										-.7670
.429	.0449									
.437		-.4253								
.513									-.5561	
.547	-.2079									
.550					-.1882	-.3315				
.555				-.1304						
.600								-.4930		
.633	-.5105									
.637			-.0681							
.650							-.4139			
.670									-.3599	
.700		-.0770				-.1559				
.723										-.6640
.725					-.0917					
.727	-.1332									
.750							-.2475	-.3142		
.760				-.0868						
.775					-.0270	-.0845				
.793	.1403									
.798			-.0876							
.808				.0632						
.834		-.1124								
.839			.0787							
.850					.0597	.0295	-.0898			
.851				.0596						
.852									-.2783	
.865		.0004								
.879			.0589							
.900		.0011			.0571			-.1555		
.905				.0587						
.919			.0479							
.950					.0705	.1171	.0302			
.953				.0506						
.955			.0493							
.965		.0834								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA = -.018 BETA (2) = .188 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

DESCRIPTION: 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA/ETA	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	- 38+6	-.1510	-.0620	.3033	.5189	4796	.4490	.3774	-.3367	
.010		-.1840	-.0258		.0508	.0982	-.0120	-.2386		
.020		-.1696		.0000	-.0667	-.1126	-.1874	-.3195	-.6504	
.030			.0414	-.1132						
.040	-.+067									
.050					-.2992	-.3961	-.4673	-.5546		
.060									-.7138	
.070					-.5051					
.080				-.2677						
.090			.0520							
.100		-.0859								
.120	-.1181									
.140					-.7100	-.7596	-.7732	-.7788		
.160									-.9388	
.180			.0000							
.200				-.4851						
.220		.0244								
.240			-.2839							
.260	-.0371									
.280					-.7515	-.9065	-.9787	-.8623		
.300				-.5972						
.320									-.6439	
.340		-.0387								
.360			-.5372							
.380					-.7887	-.9847		-.6611		
.400				-.5960						
.420										-.9776
.439	.0212									
.457		-.4251								
.475									-.5489	
.493	-.2219									
.510					-.2532	-.2013				
.528				-.1760						
.546								-.4986		
.564	- 5165									
.582			-.1416							
.600							-.4176			
.618									-.3172	
.636		-.1224				-.2036				
.654										-.5440
.672					-.1464					
.690	- 573									
.708							-.2377	-.3449		
.726				-.1470						
.744					-.0521	-.1256				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (3) = 4.016 BETA (2) = .188

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B	.2350	.2890	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.793	.0791									
.798			-.1680							
.818				-.0222						
.834		-.1959								
.839			-.0104							
.860					.0226	-.0199	-.0505			
.877				-.0071						
.882									-.2325	
.899		-.1.17								
.919			-.0078							
.940		-.0723			.0269			-.1785		
.960				.0078						
.980			-.0097							
.980					.0393	.0766	.0423			
.980				.0138						
.995			.0069							
1.000		.0392								

ALPHA (3 = 4.017 BETA (3) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B	.2350	.2890	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.001	-.4280	-.3883	-.1739	.1013	.4197	.3707	.3405	.2519	-.5677	
.001		-.2832	-.0763		-.0782	-.0458	-.1573	-.3853		
.010		-.2080		.0030	-.1709	-.2361	-.3202	-.4781	-.8081	
.040			.0031	-.1736						
.041	-.5126									
.060					-.3753	-.4832	-.5587	-.6537		
.079									-.8200	
.080					-.5552					
.080				-.3006						
.080			.0161							
.080		-.1033								
.119	-.1852									
.120					-.7217	-.7954	-.8160	-.8325		
.120									-1.0083	
.120			.0000							
.120				-.4910						
.159		-.0087								
.160			-.2753							
.160	-.0405									
.160					-.7348	-.8709	-.9034	-.9994		

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

AMES 11-073(OA148, -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (3) = 4.017 BETA (3) = 4.257

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY LW	.0350	.2000	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.5823						
[illegible]									-.7577	
[illegible]		-.0945								
[illegible]			-.5169							
[illegible]					-.6858	-.9421		-.7907		
[illegible]				-.6398						
[illegible]										-.7937
[illegible]	.0120									
[illegible]		-.4253								
[illegible]									-.6209	
[illegible]	-.2251									
[illegible]					-.3314	-.4306				
[illegible]				-.2396						
[illegible]								-.5524		
[illegible]	-.4945									
[illegible]			-.1935							
[illegible]							-.3753			
[illegible]									-.4385	
[illegible]		-.1296				-.2870				
[illegible]										-.4402
[illegible]					-.2731					
[illegible]	-.1723									
[illegible]							-.1615	-.3440		
[illegible]				-.2780						
[illegible]					-.1544	-.1601				
[illegible]	.0139									
[illegible]			-.2813							
[illegible]				-.1762						
[illegible]		-.3032								
[illegible]			-.2078							
[illegible]					-.0553	-.1512	.0052			
[illegible]				-.1005						
[illegible]									-.2675	
[illegible]		-.3072								
[illegible]			-.1122							
[illegible]		-.1997			-.0075			-.1548		
[illegible]				-.0584						
[illegible]			-.0638							
[illegible]					.0166	.0505	.0794			
[illegible]				-.0233						
[illegible]			-.0268							
[illegible]		-.0360								

AMES 1 ... -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (4) = 7.978 BETA (1) = -3.86 .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING TOP SURF DEF ...BLE CP

2Y/BW	.2350	.2990	.3640	.4270			.7800	.8870	.9720	1.0000
X/CW										
.000	-.2677	-.3054	-.2802	.2077	.4807	.4611	.4217	.2922	-.5834	
.010		-.3814	-.2082		-.2712	-.1747	-.3204	-.6670		
.020		-.3187		.0000	-.3726	-.3922	-.4860	-.6785	1.0713	
.040			-.1033	-.3814						
.041	-.2179									
.050					-.5901	-.6447	-.7430	-.8796		
.069									-1.0466	
.080					-.7744					
.081				-.5385						
.086			-.0806							
.094		-.1473								
.113	-.1657									
.150					-.9869	-1.0394	-.9262	-.8704		
.157									-1.0146	
.163			.0000							
.177				-.6787						
.229		-.0172								
.246			-.4338							
.247	-.0748									
.250					-1.0053	-1.0425	-.8064	-.6903		
.274				-.7639						
.345									-.8250	
.362		-.1615								
.390			-.6627							
.400					-.8542	-.7456		-.5857		
.402				-.8986						
.418										-.8979
.429	-.0017									
.497		-.5367								
.503									-.5357	
.547	-.3306									
.550					-.4283	-.6475				
.565				-.3018						
.600								-.5165		
.633	-.6830									
.637			-.1323							
.650							-.5763			
.670									-.4579	
.700		-.1708				-.4867				
.723										-.4457
.725					-.2514					
.727	-.2083									
.750							-.4998	-.4505		
.760				-.1495						
.775					-.1890	-.3748				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U16)

ALPHA (4) = 7.978 BETA (1) = -3.868

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1521									
.798			-.1621							
.809				-.0253						
.834		-.1319								
.839			-.0384							
.856					-.0308	-.2991	-.4271			
.857				-.0225						
.862									-.4035	
.865		-.0713								
.879			-.0583							
.900		-.0457			-.0210			-.3903		
.905				-.0149						
.919			-.0614							
.950					.0218	-.1543	-.3365			
.953				.0007						
.955			-.0393							
.965		.0406								

ALPHA (4) = 7.924 BETA (2) = .181 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3629	-.4879	-.4001	.0277	.3465	.3221	.2780	.1478	-.8391	
.010		-.4879	-.2013		-.4098	-.3303	-.4718	-.7120		
.020		-.3680		.0000	-.4847	-.5153	-.6048	-.7950	-.8455	
.040			-.0829	-.4386						
.041	-.4107									
.050					-.6543	-.7382	-.8371	-.9828		
.060									-.5802	
.080					.8208					
.081				-.5773						
.086			-.0749							
.094		-.2014								
.113	-.2124									
.150					-.9598	-1.0744	-.9834	-.9828		
.157									-.5650	
.163			.0000							
.177				-.6618						
.229		-.1279								
.246			-.4234							
.247	-.0736									
.250					-.9839	-1.0780	-.8739	-.8690		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (4) = 7.924 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7382						
.34									-.5358	
.362		-.1898								
.390			-.6630							
.400					-.9818	-.8374		-.6608		
.402				-.8735						
.418										-.5467
.429	-.0130									
.497		-.5693								
.503									-.5256	
.547	-.3448									
.550					-.4358	-.6626				
.565				-.2613						
.600								-.5671		
.633	-.7066									
.637			-.1800							
.650							-.5880			
.670									-.4882	
.700		-.1786				-.5026				
.723										-.4450
.725					-.2725					
.727	-.2771									
.750							-.4958	-.5076		
.760				-.2095						
.775					-.2352	-.3771				
.793	.0591									
.798			-.2203							
.808				-.1074						
.834		-.1962								
.839			-.1434							
.850					-.0895	-.2443	-.4096			
.857				-.0968						
.862									-.4294	
.865		-.1838								
.879			-.1087							
.900		-.1398			-.0518			-.4476		
.905				-.0714						
.919			-.0722							
.950					-.0044	-.0917	-.3409			
.953				-.0407						
.965			-.0375							
.965		-.0219								

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

ALPHA (4) = 7.921 BETA (3) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4430	-.5849	-.2453	-.1374	.1919	.1736	.1165	-.0156	-.7612	
.010		-.3740	-.1798		-.5379	-.4841	-.6488	-.6822		
.020		-.3303		.0000	-.6081	-.6361	-.7693	-.9516	-.6887	
.040			-.1542	-.4011						
.041	-.5296				-.7012	-.8306	-.9398	-1.0882		
.050									-.6094	
.069					-.8260					
.080				-.4768						
.081			-.1635							
.086		-.3127								
.094	-.2197				-.9036	-1.1013	-1.0577	-1.0584		
.113									-.5777	
.150										
.157			.0000							
.163				-.6035						
.177		-.2411								
.229			-.5155							
.246	-.0921				-.9036	-1.0893	-.9317	-.8772		
.247				-.7058					-.5696	
.250										
.274		-.1174								
.345			-.7025		-.8903	-.8492		-.6153		
.362				-.8420						-.5474
.390										
.400	-.0328									
.402		-.5429							-.5561	
.418										
.429	-.3411				-.3755	-.6167				
.497				-.2598				-.6154		
.503										
.547	-.6693		-.2089				-.5573		-.5125	
.550						-.4402				-.4829
.565		-.2330			-.2408					
.600							-.5046	-.5455		
.633	-.2853			-.2998						
.637					-.2627	-.3148				
.650										
.670										
.700										
.723										
.725										
.727										
.750										
.760										
.775										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (4) = 7.921 BETA (3) = 4.257

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0104									
.798			-.2340							
.808				-.3376						
.834		-.2437								
.839			-.2428							
.850					-.0969	-.2225	-.4308			
.857				-.2259						
.862									-.4467	
.865		-.2781								
.879			-.1681							
.900		-.2477								
.905					-.0848			-.4946		
.919				-.1654						
.950			-.1130							
.963					-.0293	-.0986	-.3676			
.965				-.0942						
.965			-.0732							
		-.0925								

ALPHA (5) = 11.916 BETA (1) = -3.856 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2875	-.6843	-.5581	-.1709	.2359	.2158	.1651	.0160	-.8079	
.010		-.6928	-.2737		-.6905	-.5970	-.7583	-.8786		
.020		-.6031		.0000	-.8194	-.7881	-.9007	-.7853	-.7153	
.040			-.1843	-.6556						
.041	-.2802									
.050										
.069					-.9589	-.9936	-1.0692	-.7761		
.080					-1.0308				-.5688	
.081				-.7448						
.086			-.1734							
.094		-.3587								
.113	-.2683									
.150										
.157					-1.1781	-1.0005	-1.0048	-.6731		
.163			.0000						-.5489	
.177				-.7996						
.220		-.2202								
.245			-.5570							
.247	-.1216									
.250					-1.0863	-.9231	-.8541	-.6574		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (5) = 11.916 BETA (1) = -3.856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8523						
.345										
.362		-.3815							-.5499	
.390			-.7655							
.400					-.8275	-.7699		-.6095		
.402				-.8855						
.418										
.429	-.0325									-.5326
.497		-.7631								
.503										
.547	-.4763								-.5318	
.550					-.7093	-.6722				
.565				-.4774						
.600								-.5798		
.633	-.8211									
.637			-.3118							
.650							-.6330			
.670									-.5107	
.700		-.2449				-.6074				
.723										-.5646
.725					-.4607					
.727	-.2633									
.750							-.6031	-.5549		
.760				-.2768						
.775					-.4440	-.5525				
.793	.0633									
.798			-.2956							
.808				-.2555						
.834		-.2651								
.839			-.3533							
.850					-.2950	-.5026	-.5758			
.857				-.2008						
.862										
.865		-.2297							-.4615	
.879			-.2392							
.900		-.1383			-.2840			-.5345		
.905				-.2188						
.919			-.1801							
.950					-.1937	-.3343	-.5472			
.953				-.1656						
.955			-.1025							
.965		-.0172								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU16)

ALPHA (5) = 11.928 BETA (2) = .182 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.5730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3904	-.7733	-.3293	-.3555	.0474	.0411	-.0175	-.1614	-.8140	
.010		-.5467	-.2766		-.8595	-.7546	-.9074	-.9067		
.020		-.4941		.0000	-.9662	-.9354	-1.0527	-.6954	-.7041	
.040			-.2681	-.5390						
.041	-.4498									
.050					-1.0702	-1.1[illegible]	-1.0815	-.6680		
.069									-.6207	
.080					-1.1221					
.081				-.6199						
.086			-.2574							
.094		-.4746								
.113	-.2743									
.150					-1.2197	-1.0[illegible]95	-1.0175	-.6668		
.157									.6124	
.163			.0000							
.177				-.7272						
.229		-.5787								
.246			-.5800							
.247	-.1739									
.250					-.9994	-.9317	-.9286	-.6652		
.274				-.8324						
.345									-.5926	
.362		-.2912								
.390			-.7691							
.400					-.8086	-.8240		-.6424		
.402				-.9383						
.418										-.5867
.429	-.0652									
.497		-.7266								
.503									-.5909	
.547	-.4920									
.550					-.6811	-.7195				
.565				-.3805						
.600								-.6055		
.633	-.8387									
.637			-.3357							
.650							-.6555			
.670									-.5536	
.700		-.2423				-.6266				
.723										-.5582
.725					-.4137					
.727	-.2834									
.750							-.6271	-.5915		
.760				-.3268						
.775					-.4601	-.5522				

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (XE8U16)

ALPHA (5) = 11.928 BETA (2) = .182

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0374									
.798			-.3229							
.808				-.4774						
.834		-.2852								
.839			-.3944							
.850					-.3037	-.4941	-.5971			
.857				-.3552						
.882									-.5167	
.865		-.3054								
.879			-.3212							
.900		-.2703			-.2980			-.5622		
.905				-.3310						
.919			-.2405							
.950					-.2035	-.3848	-.5552			
.953				-.2592						
.955			-.1521							
.965		-.1104								

ALPHA (5) = 11.917 BETA (3) = 4.273 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5022	-.7525	-.3648	-.5250	-.1243	-.1478	-.2043	-.3428	-.7886	
.010		-.6170	-.3405		-.9929	-.9031	-1.0394	-.9584		
.020		-.6287		.0080	-1.0820	-1.0691	-.9545	-.7881	-.7095	
.040			-.3322	-.4526						
.041	-.6152									
.050					-1.1367	-1.1994	-.8560	-.7321		
.069									-.6570	
.080					-1.1085					
.081				-.5565						
.086			-.3170							
.094		-.6028								
.113	-.2430									
.150					-1.0782	-1.2112	-.8910	-.6886		
.157									-.6330	
.163			.0000							
.177				-.6741						
.229		-.6713								
.245			-.6022							
.247	-.2582									
.250					-.8514	-.9017	-.7525	-.6872		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU16)

ALPHA (5) = 11.917 BETA (3) = 4.273

SECTION (1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/EW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8088						
.345									-.6116	
.362		-.3035								
.390			-.8170							
.400					-.6729	-.7629		-.6803		
.402				-.9398						
.418										-.6321
.429	-.1062									
.497		-.7158								
.503									-.6185	
.547	-.4810									
.550					-.5794	-.7319				
.565				-.4046						
.600								-.6766		
.633	-.8506									
.637			-.2936							
.650							-.6997			
.670									-.5971	
.700		-.1916				-.6296				
.723										-.5946
.725					-.4349					
.727	-.2701									
.750							-.6602	-.6314		
.760				-.4433						
.775					-.5209	-.6353				
.793	.0088									
.798			-.3483							
.808				-.5938						
.834		-.3499								
.839			-.3977							
.850					-.5199	-.5254	-.6295			
.867				-.5620						
.882									-.5781	
.900		-.4033								
.879			-.3759							
.900		-.3675			-.3899			-.6003		
.905				-.6375						
.919			-.3773							
.950					-.2726	-.3779	-.5769			
.953				-.3887						
.955			-.2417							
.985		-.2316								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17) (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 SPCBRK = 35.000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (I) = -4.112 BETA (I) = -7.854 MACH = .59694 Q = 595.28 P = 2396.4 RN/L = 4.8216

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1528	-.1534	-.3032	-.1341	.1044	.0234	-.0218	.0744	-.9849	
.010		-.0113	-.0542		.6076	.6003	.5839	.5256		
.020		.0270		.0000	.5617	.5470	.5262	.4920	-.1289	
.040			.1071	.3713						
.041	.0328									
.060					.3450	.3295	.3086	.2714		
.080									-.1191	
.081					.1509					
.100				.2454						
.106			.2647							
.120		.0590								
.113	.0517									
.150					-.0718	-.0894	-.1111	-.1087		
.157									-.1505	
.163			.0000							
.177				-.0125						
.229		.1551								
.246			.0484							
.247	.0810									
.250					-.2163	-.2600	-.2997	-.3284		
.274				-.1348						
.345									-.1370	
.352		.1145								
.390			-.1089							
.400					-.1619	-.2254		-.2948		
.402				-.1344						
.418										-.6490
.439	.1276									
.497		-.0689								
.503									-.1883	
.547	.0096									
.560					-.0827	-.1444				
.565				-.0077						
.600								-.1901		
.603	-.0612									
.647			.0352							
.650							-.1220			
.670									-.0830	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (1) = -4.112 BETA (1) = -7.854

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0683				-.0747				
.723										-.5121
.725					-.0287					
.727	.0460									
.760							.0099	.0048		
.780				-.0663						
.785					.0309	-.0058				
.793	.1841									
.799			-.0639							
.809				.0810						
.824		-.0404								
.839			.0954							
.861					.0876	.0653	.0656			
.883				.0750						
.888									-.0032	
.895		.0421								
.979			.0708							
.980		.0327			.0599			.0733		
.986				.0586						
.989			.0414							
.990					.0715	.0962	.1006			
.993				.0567						
.995			.0442							
.995		.0601								

ALPHA (1) = -4.086 BETA (2) = -3.838 MACH = .5969 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1810	-.1027	-.2111	-.0744	.0738	-.0381	-.0834	-.0155	-.9101	
.010		-.0052	-.0299		.5415	.5286	.5090	.4611		
.020		.0131		.0000	.4967	.4816	.4600	.4213	-.2115	
.040			.0595	.3178						
.041	-.0129									
.060					.2986	.2621	.2670	.2292		
.080									-.1811	
.080					.1154					
.081				.2047						
.098			.2279							
.1		.0250								
.1	.0156									
.100					-.0945	-.1058	-.1269	-.1261		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (1) = -4.096 BETA (2) = -3.838

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157										
.163			.0000						-.1966	
.177				-.0328						
.229		.1227								
.245			.0216							
.247	.0497									
.320					-.2397	-.2688	-.3053	-.3409		
.374				-.1525						
.345									-.1505	
.362		.0880								
.380			-.1271							
.400					-.1870	-.2505		-.3065		
.408				-.1687						
.418										
.439	.0979									-.6310
.457		-.0973								
.503										
.547	-.0157								-.1925	
.550					-.1173	-.1696				
.565				-.0525						
.600								-.1911		
.633	-.0994									
.637			-.0075							
.661							-.1376			
.670									-.0811	
.700		.0250				-.0940				
.723										-.5407
.725					-.0638					
.727	.0044									
.750							-.0027	-.0035		
.760				-.1031						
.775					.0004	-.0332				
.787	.1455									
.798			-.0956							
.808				.0460						
.824		-.0797								
.847			.0639							
.870					.0625	.0401	.0581			
.897				.0455						
.918										
.945		-.0033							-.0057	
.971			.0423							
[illegible]		-.0033			.0300			.0741		
.992				.0354						
.019			.0186							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (1) = -4.086 BETA (2) = -3.838

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000					.0595	.0868	.0981			
.013				.0410						
.020			[illegible]							
.030		.0350								

ALPHA (1) = -4.079 BETA (3) = .201 MACH = .59694 Q = 595.28 P = 2386.4 PINF = 4.8215

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1605	-.0517	-.1151	-.0076	.0733	-.0690	-.1517	-.0951	-.8208	
.010		-.0027	-.0027		.4777	.4537	.4315	.3924		
.020		.0030		.0000	.4339	.4157	.3967	.3616	-.2680	
.040			.0815	.2658						
.041	-.0573									
.050					.2496	.2349	.2227	.1913		
.069									-.2305	
.080					.0830					
.087				.1693						
.096			.1920							
.094		.0006								
.113	-.0204									
.150					-.1037	-.1199	-.1369	-.1411		
.157									-.2198	
.163			.0030							
.177				-.0480						
.200		.1024								
.240			.0032							
.247	.0256									
.280					-.2470	-.2761	-.3087	-.3373		
.296				-.1670						
.305									-.1550	
.347		.0710								
.349			-.1396							
.400					-.2085	-.2650		-.3034		
.402				-.1943						
.418										-.5411
.424	.0800									
.497		-.1169								
.503									-.1837	
.547	-.0353									
.550					-.1472	-.1910				
.565				-.0848						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (1) = -4.079 BETA (3) = .201

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.1232							-.1932		
.637			-.0441							
.650										
.670							-.1494			
.700		-.0134							-.0725	
.723						-.1152				
.725										-.5299
.727	-.0321				-.0857					
.750										
.760							-.0113	-.0063		
.775				-.1349						
.793	.1039				-.0267	-.0533				
.798			-.1242							
.808				.0128						
.834		-.1145								
.839			.0279							
.850					.0443	.0209	.0551			
.857				.0218						
.862										
.865		-.0458							.0047	
.879			.0144							
.900		-.0310								
.905					.0242			.0778		
.919				.0193						
.950			-.0017							
.953					.0516	.0796	.0947			
.955				.0347						
.965		.0171	.0109							

ALPHA (1) = -4.086 BETA (4) = 4.270 MACH = .59694 Q = 595.28 R = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1594	-.0290	-.0490	.0370	.0952	-.0603	-.1512	-.1131	-.7057	
.010		-.0071	.0185		.4148	.3867	.3626	.3195		
.020		-.0100		.0000	.3681	.3417	.3217	.2910	-.2887	
.040			.0755	.2199						
.041	-.0882									
.060					.1981	.1714	.1567	.1298		
.080					.0481				-.2654	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (1) = -4.088 BETA (4) = 4.270

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/CW	.2350	.2090	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.061				.1358						
.086			.1649							
.094		-.0176								
.113	-.0389									
.150										
.157					-.1327	-.1515	-.1690	-.1773		
.163			.0000						-.2450	
.177				-.0594						
.229		.0794								
.246			-.0088							
.247	.0109									
.250										
.274					-.2616	-.2946	-.3213	-.3522		
.345				-.1770						
.362		.0575							-.1682	
.390			-.1527							
.400										
.402					-.2356	-.2823		-.3103		
.418				-.2159						
.429	.0635									-.4196
.497		-.1281								
.503										
.547	-.0536								-.1791	
.550										
.565					-.1783	-.2105				
.600				-.1226						
.633	-.1515							-.1968		
.637			-.0830							
.650										
.670							-.1579			
.700		-.0523							-.0643	
.704						-.1253				
.715										
.727	-.0700				-.1132					-.4277
.750										
.760							-.0216	-.0094		
.775				-.1603						
.778	.0682				-.0554	-.0684				
.788			-.1515							
.808				-.0185						
.834		-.1466								
.839			.0007							
.850										
.857					.0269	.0054	.0509			
.862				.0000						
									.0104	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (1) = -4.086 BETA (4) = 4.270

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0813								
.879			-.0078							
.900		-.0568			.0133			.0777		
.905				.0053						
.919			-.0209							
.950					.0469	.0729	.0918			
.953				.0250						
.955			-.0047							
.965		-.0038								

ALPHA (1) = -4.101 BETA (5) = 8.352 MACH = .5969 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1746	-.0264	.0080	.1035	.1166	-.0586	-.1603	-.1328	-.5921	
.010		-.0178	.0436		.3473	.3160	.2880	.2500		
.020		-.0280		.0000	.3008	.2735	.2523	.2166	-.3239	
.040			.0750	.1714						
.041	-.1221									
.050					.1395	.1204	.1054	.0793		
.069									-.2954	
.080					-.0010					
.081				.0959						
.086			.1431							
.094		-.0256								
.113	-.0611									
.150					-.1498	-.1735	-.1816	-.1990		
.157									-.2678	
.163			.0000							
.177				-.0832						
.229		.0643								
.246			-.0389							
.247	-.0027									
.250					-.2783	-.3062	-.3252	-.3534		
.274				-.1939						
.345									-.1726	
.362		.0341								
.390			-.1767							
.400					-.2515	-.2958		-.3062		
.402				-.2407						
.418										-.3184
.419	.0448									

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

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (1) = -4.101 BETA (5) = 8.352

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1564								
.503										
.547	-.0673								-.1688	
.550										
.565					-.2824	-.2219				
.600				-.1587						
.633	-.1793							-.1963		
.637			-.1240							
.650										
.670							-.1690			
.700		-.0930							-.0597	
.723						-.1329				
.725										-.3435
.727	-.1131				-.1320					
.750										
.760							-.0306	-.0125		
.775				-.1775						
.793	.0282				-.0771	-.0788				
.798			-.1734							
.808				-.0395						
.834		-.1733								
.839			-.0314							
.850					.0131	-.0142	.0451			
.857				-.0187						
.862										
.865		-.1116							.0228	
.879			-.0246							
.900		-.0804			.0017					
.905				-.0147				.0800		
.919			-.0355							
.940					.0485	.0682	.0953			
.953				.0102						
.955			-.0172							
.965		-.0120								

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AMES 11-073(OA148) -140A/B/¢/R ORB LEFT WING TOP (XE8U17)

ALPHA (2) = .084 BETA (1) = -7.892 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.5730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0650	.0464	.0644	.2977	.4899	.4565	.4422	.4976	-.1593	
.010		.0709	.1357		.4475	.4957	.4425	.2941		
.020		.0569		.0000	.3205	.3099	.2787	.2127	-.0961	
.040			.1765	.1741						
.041	-.0057									
.050					.0408	-.0058	-.0255	-.0501		
.069									-.2031	
.080					-.1732					
.081				.0021						
.086			.2043							
.094		.0186								
.113	.0064									
.150					-.3370	-.3930	-.4326	-.3819		
.157									-.3220	
.163			.0000							
.177				-.2329						
.229		.0914								
.246			-.1336							
.247	.0339									
.250					-.4157	-.4873	-.5445	-.5807		
.274				-.3018						
.345									-.3084	
.362		-.0099								
.390			-.2406							
.400					-.2648	-.3386		-.4178		
.402				-.2377						
.418										-.0640
.429	.0533									
.497		-.1889								
.503									-.3381	
.547	-.1037									
.550					-.1272	-.1930				
.565				-.0492						
.600								-.2259		
.633	-.1528									
[illegible]			.0044							
.650							-.1429			
.670									-.1805	
[illegible]		.0317				-.0846				
[illegible]										-.1379
[illegible]					-.0382					
[illegible]	.0011									
[illegible]							-.0035	-.0214		
[illegible]				-.0568						
[illegible]					.0276	-.0053				

AMES 11-073(OA148) -'40A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (2) = .084 BETA (1) = -7.892

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1631									
.798			-.0487							
.808				.0834						
.834		-.0408								
.839			.0999							
.950					.0655	.0802	.0704			
.857				.0790						
.932									-.0207	
.865		.0476								
.878			.0835							
.900		.0448			.0651			0804		
.905				.0672						
.919			.0549							
.950					.0803	.1178	.1113			
.953				.0702						
.955			.0561							
.985		.0733								

ALPHA (2) = .094 BETA (2) = -3.858 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0941	.0313	.0674	.2857	.4601	.4243	.3916	.4277	-.1858	
.010		.0360	.1152		.3684	.4091	.3603	.2101		
.020		.0171		.0000	.2494	.2310	.1998	.1355	-.1606	
.040			.1410	.1186						
.041	-.0582									
.050					-.0088	-.0589	-.0812	-.1183		
.069									-.2504	
.080					-.2038					
.081				-.0334						
.095			.1659							
.094		-.0107								
.113	-.0294									
.150					-.3590	-.4058	-.4431	-.4053		
.157									-.3381	
.163			.0000							
.177				-.2524						
.229		.0640								
.248			-.1584							
.247	.0059									
.250					-.4374	-.4922	-.5434	-.5840		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

MACH (2) = .094 BETA (2) = -3.858

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
[illegible]				-.3164						
.345										
.362		-.0363							-.2961	
.390			-.2541							
.400					-.2926	-.3608		-.4170		
.402				-.2647						
.418										
.429	.0290									-.0941
.437		-.2169								
.503										
.547	-.1308								-.3176	
.550					-.1683	-.2210				
.565				-.0855						
.600								-.2237		
.633	-.1917									
.637			-.0378							
.650										
.670							-.1612			
.700		-.0140							-.1568	
.723						-.1073				
.725										-.1591
.727	-.0451				-.0713					
.750										
.760							-.0184	-.0247		
.775				-.0938						
.793	.1197				-.0053	-.0304				
.798			-.0853							
.808				.0477						
.834		-.0728								
.839			.0629							
.850					.0558	.0518	.0570			
.857				.0523						
.862										
.865		.0045							-.0067	
.879			.0506							
.900		.0099			.0431			.0787		
.905				.0393						
919			.0279							
.950					.0638	.1001	.1106			
.953				.0589						
.955			.0399							
.965		.0492								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (2) = .071 BETA (3) = .198 MACH .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
X/CW										
.000	-.1301	-.0021	.0590	.2747	.4206	.3715	.3346	.3631	-.1977	
.010		-.0133	.0844		.2976	.3257	.2880	.1444		
.020		-.0235		.0000	.1839	.1745	.1333	.0810	-.2065	
.040			.1091	.0658						
.041	-.1002									
.050					-.0498	-.0928	-.1214	-.1482		
.069									-.2747	
.080					-.2270					
.081				-.0656						
.086			.1232							
.094		-.0407								
.113	-.0634									
.150					-.3601	-.3985	-.4298	-.3999		
.157									-.3261	
.163			.0000							
.177				-.2605						
.223		.0397								
.246			-.1701							
.247	-.0170									
.250					-.4363	-.4828	-.5312	-.5593		
.274				-.3253						
.345									-.2709	
.362		-.0490								
.390			-.2696							
.400					-.3131	-.3738		-.4084		
.402				-.2868						
.418										-.1195
.429	.0089									
.497		-.2333								
.503									-.2790	
.547	-.1469									
.550					-.1913	-.2357				
.565				-.1272						
.600								-.2250		
.633	-.2204									
.637			-.0823							
.650							-.1677			
.670									-.1243	
.700		-.0509				-.1182				
.723										-.1582
.725					-.0955					
.727	-.0737									
.750							-.0204	-.0189		
.760				-.1229						
.775					-.0300	-.0536				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (2) = .071 BETA (3) = .198

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0756									
.798			-.1190							
.808				.0071						
.834		-.1118								
.839			.0197							
.850					.0430	.0294	.0513			
.857				.0216						
.862									.0896	
.865		-.0388								
.879			.0161							
.900		-.0271			.0287			.0867		
.905				.0164						
.919			.0052							
.950					.0623	.0919	.1078			
.953				.0431						
.965			.0197							
.955		.0171								

ALPHA (2) = .069 BETA (4) = 4.249 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1745	-.0555	.0184	.2420	.3873	.3282	.3100	.3148	-.1862	
.010		-.0694	.0503		.2105	.2418	.1888	.0434		
.020		-.0701		.0000	.1091	.0908	.0486	-.0219	-.2567	
.040			.0668	.0146						
.041	-.1426									
.050					-.1019	-.1481	-.1833	-.2213		
.069									-.3138	
.080					-.2616					
.091				-.1038						
.093			.0845							
.094		-.0663								
.113	-.0886									
.150					-.3722	-.4217	-.4544	-.4310		
.157									-.3431	
.163			.0000							
.177				-.2735						
.239		.0180								
.245			-.1807							
.247	-.0343									
.251					-.4388	-.4961	-.5414	-.5637		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (2) = .068 BETA (4) = 4.249

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3384						
.345									-.2627	
.362		-.0663								
.390			-.2886							
.400					-.3277	-.3891		-.4098		
.402				-.3164						
.418										-.1574
.429	-.0114									
.497		-.2536								
.503									-.2603	
.547	-.1671									
.560					-.2224	-.2593				
.565				-.1699						
.600								-.2253		
.643	-.2426									
.647			-.1268							
.650							-.1823			
.670									-.1020	
.700		-.0978				-.1295				
.723										-.1767
.725					-.1227					
.727	-.1138									
.750							-.0301	-.0195		
.760				-.1563						
.775					-.0563	-.0734				
.793	.0273									
.799			-.1463							
.806				-.0262						
.934		-.1408								
.839			-.0188							
.850					.0209	.0081	.0516			
.857				-.0146						
.862									.0206	
.865		-.0832								
.879			-.0180							
.900		-.0663			.0119			.0871		
.905				-.0048						
.919			-.0288							
.950					.0492	.0792	.1028			
.953				.0187						
.965			-.0089							
.966		-.0182								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (Z) = .061 BETA (S) = 8.308 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA/B/W	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C/W										
.000	-.2183	-.1310	-.0375	.1896	.3533	.2901	.2615	.2589	-.2098	
.010		-.1272	.0068		.1092	.1532	.0945	-.0332		
.020		-.1146		.0000	.0198	.0036	-.0247	-.0980	-.2883	
.040			.0353	-.0467						
.041	-.1699									
.060					-.1644	-.1909	-.2292	-.2726		
.069									-.3358	
.080					-.2878					
.081				-.1399						
.086			.0494							
.094		-.0743								
.113	-.1055									
.150					-.3825	-.4294	-.4610	-.4418		
.157									-.3442	
.163			.0000							
.177				-.2787						
.229		.0102								
.246			-.1897							
.247	-.0413									
.250					-.4302	-.4985	-.5326	-.5529		
.274				-.3441						
.345									-.2407	
.362		-.0717								
.380			-.2902							
.400					-.3454	-.3957		-.3989		
.402				-.3291						
.418										-.2053
.429	-.0159									
.497		-.2637								
.503									-.2312	
.547	-.1730									
.550					-.2505	-.2733				
.565				-.1961						
.600								-.2113		
.633	-.2663									
.637			-.1592							
.650							-.1852			
.670									-.0769	
.700		-.1310				-.1411				
.703										-.1766
.735					-.1381					
.737	-.1497									
.750							-.0355	-.0140		
.750				-.1554						
.770					-.0815	-.0871				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (2) = .061 BETA = 8.308

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0019									
.798			-.1685							
.808				-.0540						
.834		-.1665								
.839			-.0415							
.850					.0007	-.0104	.0446			
.857				-.0263						
.862										
.865		-.1120							.0412	
.879			-.0367							
.900		-.0851			-.0009			.0921		
.905				-.0129						
.919			-.0375							
.950					.0452	.0758	.1003			
.953				.0119						
.955			-.0194							
.965		-.0317								

ALPHA (3) = -.005 BETA (1) = -7.903 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0475	.0484	.0989	.3949	.6043	.5906	.5725	.5142	-.0584	
.010		-.0041	.0927		.0890	.1127	.0012	-.2777		
.020		-.0205		.0000	-.0637	-.1298	-.2235	-.3490	-.4465	
.040			.0994	-.1149						
.041	-.0456									
.050					-.3554	-.4628	-.5348	-.5767		
.059									-.5627	
.080					-.5620					
.081				-.3073						
.090			.0660							
.094		-.0525								
.113	-.0337									
.160					-.6241	-.7256	-.7915	-.7112		
.167									-.6723	
.165			.0000							
.177				-.4730						
.179		.0176								
.185			-.3231							
[illegible]	-.0094									
[illegible]					-.5980	-.7109	-.7882	-.8314		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU17)

ALPHA (1) = 4.005 BETA (1) = -7.903

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720	1.0000
X/CW										
.274				-.4687						
.345									-.6080	
.352		-.1369								
.390			-.3677							
.400					-.3389	-.4324		-.5227		
.402				-.3246						
.418										-.3712
.429	-.0142									
.497		-.3160								
.503									-.6023	
.547	-.2282									
.550					-.1485	-.2271				
.565				-.0725						
.600								-.2883		
.633	-.2391									
.637			-.0206							
.650							-.1647			
.670									-.4417	
.700		-.0076				-.0794				
.723										-.6313
.725					-.0309					
.727	-.0375									
.750							-.0144	-.0513		
.760				-.0335						
.775					.0409	.0012				
.793	.1669									
.798			-.0325							
.808				.0808						
.844		-.0243								
.869			.1001							
.880					.0913	.0901	.0676			
.857				.0234						
.862									-.2387	
.865		.0432								
.879			.0815							
.900		.0632			.0813			.0701		
.905				.0752						
.919			.0628							
.930					.0998	.1332	.1156			
.953				.0836						
.955			.0656							
.955		.0865								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (3) = 4.010 BETA (2) = -3.866 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1026	-.0338	.0131	.3155	.5239	.5064	.4760	.4021	-.1816	
.010		-.0857	.0134		-.0347	.0060	-.1226	-.3881		
.020		-.0968		.0000	-.1667	-.2356	-.3313	-.4690	-.5278	
.040			.0359	-.1898						
.041	-.1040									
.050					-.4181	-.5336	-.6037	-.6485		
.069									-.6131	
.080					-.5974					
.081				-.3428						
.086			.0115							
.094		-.0861								
.113	-.0741									
.150										
.157					-.6415	-.7519	-.8175	-.7413		
.163									-.6884	
.177			.0000							
.229				-.4987						
.246		-.0090								
.247	-.0368		-.3492							
.250										
.274					-.6230	-.7224	-.7989	-.8434		
.345				-.4869						
.362		-.1618							-.5883	
.390			-.3860							
.400										
.402					-.3749	-.4591		-.5208		
.418				-.3547						
.429	-.0423									-.5228
.497		-.3469								
.503										
.507	-.2711								-.5724	
.550										
.565					-.1898	-.2582				
.600				-.1170						
.633	-.2820							-.2815		
.637			-.0685							
.650										
.670							-.1831			
.700		-.0509							-.4777	
.723						-.1061				
.725										-.7305
.727	-.0897				-.0613					
.750										
.760							-.0325	-.0557		
.775				-.0721						
					.0037	-.0306				

AMES 11-073(OA148) -140A B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (3) = 4.010 BETA (2) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1185									
.798			-.0663							
.808				.0448						
.834		-.0652								
.839			.0579							
.850					.0620	.0608	.0519			
.857				.0572						
.862									-.3068	
.865		-.0069								
.873			.0489							
.900		.0245			.0544			.0663		
.905				.0491						
.919			.0399							
.930					.0803	.1115	.1136			
.953				.0672						
.955			.0468							
.965		.0641								

ALPHA (3) = 4.008 BETA (3) = .197 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1659	-.1375	-.0952	.2196	.4382	.4141	.3887	.3073	-.2917	
.010		-.1801	-.0736		-.1172	-.0867	-.2077	-.4530		
.020		-.1611		.0000	-.2390	-.3058	-.3860	-.5173	-.5643	
.040			-.0287	-.2370						
.041	-.1536									
.050					-.4611	-.5556	-.6119	-.6549		
.069									-.6136	
.080					-.6168					
.091				-.3626						
.096			-.0336							
.094		-.1128								
.113	-.1104									
.150					-.6346	-.7167	-.7928	-.7140		
.157									-.6552	
.163			.0080							
.177				-.4930						
.229		-.0328								
.246			-.3522							
.247	-.0615									
.250					-.6168	-.7100	-.7701	-.8092		

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (3 = 4.009 BETA (3) = .197

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.1990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.4904						
.345									-.5279	
.352		-.1737								
.360			-.3946							
.402					-.3866	-.4641		-.5082		
.402				-.3702						
.418										-.6408
.429	-.0834									
.437		-.3562								
.503									-.5037	
.547	-.2803									
.550					-.2236	-.2678				
.555				-.1542						
.600								-.2724		
.633	-.3135									
.637			-.1121							
.650							-.1888			
.670									-.4064	
.700		-.1030				-.1217				
.723										-.7445
.735					-.0903					
.737	-.1191									
.750							-.0386	-.0460		
.760				-.0957						
.775					-.0252	-.0473				
.793	.0787									
.799			-.0997							
.808				.0066						
.834		-.1097								
.839			.0143							
.850					.0412	.0385	.0504			
.857				.0214						
.860									-.2658	
.865		-.0823								
.879			.0062							
.900		-.0167			.0380			.0705		
.905				.0270						
.919			.0088							
.940					0707	.0972	.1056			
.943				.0495						
.956			.0238							
.965		.0278								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (3) = 4.011 BETA (4) = 4.242 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

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

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2343	-.2683	-.2289	.0950	.3365	.3021	.2650	.1549	-.5034	
.010		-.2742	-.1554		-.2484	-.2242	-.3611	-.6126		
.020		-.2266		.0000	-.3343	-.4116	-.5106	-.6667	-.6873	
.040			-.0833	-.3035						
.041	-.1932									
.050					-.5130	-.6187	-.6988	-.7363		
.069									-.6828	
.080					-.6354					
.081				-.4003						
.086			-.0712							
.094		-.1364								
.113	-.1393									
.150					-.6380	-.7431	-.7985	-.7427		
.157									-.6606	
.163			.0000							
.177				-.4968						
.209		-.0516								
.246			-.3542							
.247	-.0835									
.250					-.6253	-.7177	-.7782	-.8033		
.274				-.4942						
.345									-.5163	
.362		-.1821								
.390			-.3973							
.400					-.4140	-.4755		-.5121		
.402				-.3896						
.418										-.9075
.429	-.0766									
.497		-.3797								
.503									-.4880	
.547	-.2925									
.550					-.2549	-.2908				
.565				-.1986						
.600								-.2704		
.633	-.3295									
.637			-.1769							
.650							-.1932			
.670									-.3879	
.700		-.1345				-.1345				
.723										-.8683
.725					-.1159					
.727	-.1500									
.750							-.0452	-.0426		
.760				-.1364						
.775					-.0524	-.0743				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (3) = 4.011 BETA (4) = 4.242

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4278	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0370									
.798			-.1472							
.808				-.0531						
.834		-.1445								
.839			-.0169							
.850					.0123	.0127	.0422			
.857				-.0251						
.862									-.1934	
.865		-.0997								
.879			-.0114							
.900		-.0535			.0199			.0673		
.905				-.0148						
.919			-.0121							
.950					.0520	.0862	.1001			
.953				.0205						
.955			.0050							
.965		-.0110								

ALPHA (3) = 4.014 BETA (5) = 8.290 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3126	-.4257	-.2478	-.0628	.2021	.1744	.1372	.0263	-.6871	
.010		-.3342	-.1318		-.3736	-.3307	-.4814	-.7100		
.020		-.2548		.0000	-.4217	-.4754	-.5819	-.7401	-.7483	
.040			-.1097	-.3404						
.041	-.2311									
.060					-.5635	-.6510	-.7339	-.7708		
.069									-.6971	
.080					-.6625					
.081				-.3923						
.086			-.1292							
.094		-.2310								
.113	-.1685									
.160					-.6394	-.7291	-.7906	-.7256		
.157									-.6189	
.163			.0000							
.177				-.4582						
.229		-.0382								
.245			-.4303							
.247	-.0827									
.250					-.6137	-.6982	-.7491	-.7720		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (3) = 4.014 BETA (5) = 8.290

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4670						
.345									-.4652	
.362		-.1724								
.390			-.4015							
.400					-.4180	-.4809		-.4961		
.402				-.4008						
.418										-1.1207
.429	-.0799									
.497		-.3735								
.503									-.4437	
.547	-.2934									
.550					-.2751	-.3002				
.565				-.2642						
.600								-.2814		
.633	-.3459									
.637			-.1807							
.650							-.2049			
.670									-.2978	
.700		-.1640				-.1460				
.723										-.7591
.725					-.1432					
.727	-.1850									
.750							-.0518	-.0421		
.760				-.1952						
.775					-.1198	-.0822				
.793	-.0132									
.798			-.1629							
.808				-.0691						
.834		-.1662								
.839			-.0543							
.850					-.0065	-.0122	.0346			
.857				-.0323						
.862									-.0831	
.865		-.1331								
.879			-.0417							
.900		-.0811			-.0005			.0651		
.905				-.0192						
.919			-.0384							
.950					.0458	.0673	.0931			
.953				.0145						
.956			-.0206							
.965		-.0361								

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

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

(XEBU17)

ALPHA (4) = 7.901 BETA (1) = -7.891 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0639	-.1293	-.1638	.1949	.4021	.3549	.2664	.0682	-.6799	
.010		-.2220	-.1628		-.5409	-.5554	-.8110	-1.2497		
.020		-.2039		.0000	-.6683	-.8145	-.9984	-1.3115	-1.2678	
.040			-.1312	-.5249						
.041	-.0907									
.050										
.059					-.8933	-1.0850	-1.2492	-1.3453		
.080									-1.2112	
.081					-1.0613					
.086				-.6787						
.094			-.1621							
.113	-.0698	-.1441								
.150										
.157					-.9645	-1.1180	-1.2108	-1.1268		
.163									-1.2791	
.177			.0000							
.229				-.7303						
.246		-.0660								
.247	-.0487		-.5272							
.250										
.274					-.7871	-.9083	-1.0476	-1.1309		
345				-.6141						
.362		-.2613							-1.0498	
.390			-.4636							
.400										
.402					-.3961	-.5121		-.6820		
.418				-.3680						
.429	-.1071									-1.4611
.497		-.4342								
.503										
.547	-.3565								-.9829	
.550										
.565					-.1471	-.2513				
.600				-.1087						
.633	-.3297							.3647		
.637			-.0869							
.650										
.670							-.1894			
.700		-.0457							-.8508	
.723						-.0752				
.725										-1.7715
.727	-.0469				-.0082					
.750										
.760							-.0376	-.1202		
.775				-.0561						
					.0545	.0128				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (4) = 7.901 BETA (1) = -7.891

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2055									
.799			-.0402							
.808				.0378						
.834		-.0207								
.839			.1093							
.850					.0877	.1013	.0456			
.857				.0628						
.862									-.4937	
.865		.0207								
.879			.1012							
.900		.0812			.0919			.0101		
.905				.0656						
.919			.0753							
.950					.1005	.1351	.0984			
.953				.0867						
.955			.0829							
.955		.1022								

ALPHA (4) = 7.913 BETA (2) = -3.864 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1534	-.2871	-.3583	.0235	.2661	.2109	.1063	-.1116	-.9716	
.010		-.3485	-.2958		-.6631	-.7124	-.9828	-1.4250		
.020		-.2937		.0000	-.7746	-.9312	-1.1227	-1.4681	-1.4103	
.040			-.2230	-.6015						
.041	-.1501									
.050					-.9658	-1.1509	-1.2964	-1.4281		
.069									-1.2801	
.080					-1.0934					
.081				-.7087						
.096			-.2218							
.094		-.1792								
.113	-.1240									
.150					-.9651	-1.1244	-1.2141	-1.1200		
.157									-1.2820	
.163			.0000							
.177				-.7405						
.229		-.0962								
.245			-.5388							
.247	-.0924									
.250					-.7950	-.9331	-1.0104	-1.1337		

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

AMES 11T073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (4) = 7.913 BETA (2) = -3.864

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6295						
.345										
.362		-.2901							-.9987	
.390			-.4820							
.400										
.402					-.4278	-.5362		-.6782		
.418				-.4037						
.429	-.1256									-1.8229
.497		-.4836								
.503										
.547	-.3838								-.9148	
.550										
.596					-.1885	-.2743				
.600				-.1648						
.633	-.3717							-.3657		
.637			-.1308							
.650										
.670							-.1995			
.700		-.1204							-.8426	
.723						-.0980				
.725										
.727	-.1012				-.0437					-1.7626
.730										
.750							-.0460	-.1154		
.775				-.0925						
.793	.1392				.0164	-.0166				
.799			-.0957							
.808				.0035						
.834		-.0531								
.839			.0401							
.850										
.857					.0497	.0752	.0386			
.862				.0394						
.865		-.0072							-.5859	
.879			.0413							
.910		.0466								
.918					.0449			.0095		
.919				.0419						
.950			.0356							
.953					.0615	.1192	.0952			
.955				.0602						
.965			.0524							
		.0797								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (A) = 7.919 BETA (B) = .190 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2559	-.4840	-.5526	-.1757	.1018	.0385	-.0631	-.2955	-1.2456	
.010		-.4975	-.3964		-.8353	-.8534	-1.1338	-1.5419		
.020		-.3839		.0000	-.8754	-1.0420	-1.2420	-1.5824	-1.5481	
.040			-.2466	-.6623						
.041	-.2172									
.050										
.069					-.9858	-1.1946	-1.3462	-1.4568		
.080									-1.3015	
.081					-1.0963					
.086				-.7250						
.094			-.2209							
.113	-.1856	-.2158								
.150										
.157					-.9441	-1.1195	-1.1944	-1.0799		
.163									-1.1631	
.177			.0000							
.229				-.7246						
.246		-.1725								
.247	-.1053		-.5302							
.250										
.274					-.7957	-.9190	-1.0026	-1.0991		
.345				-.6142						
.362									-.9287	
.390		-.3425								
.400			-.5193							
.402					-.4370	-.5370		-.6561		
.418				-.4375						
.429	-.1407									-2.0907
.497		-.5137								
.503										
.547	-.4143								-.8464	
.560					-.2318	-.2865				
.585				-.2348						
.600								-.3590		
.633	-.3938									
.657			-.2123							
.660							-.2125			
.670									-.8034	
.700		-.1035				-.1143				
.723										-1.6310
.725					-.0943					
.727	-.1461									
.750							-.0579	-.1136		
.760				-.1289						
.775					-.0851	-.0341				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (4) = 7.919 BETA (3) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0560									
.799			-.1242							
.808				-.0373						
.834		-.1071								
.839			.0266							
.850					-.0016	.0307	.0274			
.857				-.0178						
.862									-.7661	
.865		-.0467								
.879			.0358							
.900		-.0103								
.905					.0039			.0163		
.913				-.0287						
.950			.0213							
.953					.0480	.0935	.0829			
.955				-.0066						
.965			.0396							
.968		.0318								

ALPHA (4) = 7.918 BETA (4) = 4.240 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3491	-.6315	-.5396	-.3453	-.0554	-.1326	-.2574	-.5176	-1.6364	
.010		-.4967	-.2688		-.9441	-1.0062	-1.3047	-1.7378		
.020		-.3580		.0000	-.9472	-1.1334	-1.3573	-1.7696	-1.6961	
.040			-.2415	-.6277						
.041	-.2763									
.050										
.069					-1.0163	-1.2184	-1.4035	-1.5713		
.080									-1.3233	
.081					-1.0678					
.086				-.6522						
.094			-.2695							
.098		-.3794								
.113	-.2295									
.150										
.157					-.9067	-1.0617	-1.1782	-1.0902		
.163									-1.1321	
.177			.0000							
.189				-.6538						
.206		-.2329								
.247			-.6165							
.247	-.1178									
.250										
					-.7543	-.8971	-.9961	-1.0565		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (4) = 7.918 BETA (4) = 4.240

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6227						
.345									-.9089	
.362		-.2581								
.390			-.6541							
.400					-.4498	-.5388		-.6359		
.402				-.4534						
.418										-2.5111
.439	-.1487									
.497		-.4857								
.503									-.8239	
.547	-.4280									
.550					-.2952	-.2961				
.565				-.2606						
.600								-.3510		
.633	-.4157									
.637			-.1898							
.650							-.2184			
.673									-.9725	
.700		-.1492				-.1352				
.723										-1.5417
.725					-.1464					
.727	-.1731									
.750							-.0661	-.1182		
.770				-.2133						
.776					-.1213	-.0829				
.793	.0192									
.798			-.1450							
.808				-.1290						
.824		-.1425								
.849			-.0179							
.850					.0356	-.0236	.0109			
.857				-.0645						
.862									-.7940	
.865		-.1050								
.879			-.0086							
.900		-.0557			.0266			.0080		
.905				-.0342						
.919			-.0141							
.950					.0621	.0548	.0647			
.953				.0050						
.955			.0042							
.965		-.0145								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (4) = 7.914 BETA (5) = 8.23 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.000	-.4713	-.7283	-.3729	-.5105	-.2463	-.3131	-.4689	-.7275	-2.0552	
.010		-.4228	-.3148		-1.0443	-1.1491	-1.4409	-1.8373		
.020		-.4090		.0000	-1.0090	-1.2303	-1.4452	-1.8493	-1.5947	
.040			-.3201	-.5259						
.041	-.3936									
.060					-1.0117	-1.2220	-1.4103	-1.5669		
.080					-1.0167				-1.2772	
.085				-.5876						
.094			-.3572							
.113		-.4216								
.140	-.2210									
.167					-.8345	-1.0335	-1.1304	-1.0613		
.183									-1.0571	
.177			.0000							
.223				-.6242						
.236		-.3268								
.247			-.7798							
.250	-.1516									
.294					-.6873	-.8497	-.9342	-.9935		
.345				-.6194						
.362		-.2404							-.8217	
.390			-.5400							
.400										
.402					-.4943	-.5115		-.5994		
.419				-.6040						
.429	-.1592									-1.9910
.497		-.4935								
.503										
.547	-.4214								-.7008	
.550										
.556					-.3031	-.3062				
.611				-.3949						
.635	-.4238							-.3277		
.647			-.2172							
.670							-.2027			
.700		-.1932							-.7582	
.703						-.1648				
.745										-1.1327
.747	-.1971				-.1501					
.770							-.0596	-.1017		
.795				-.2107						
					-.1266	-.1292				

AMES 11-073(CA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (I) = 7.914 BETA (5) = 8.234

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0368									
.798			-.1774							
.808				-.0920						
.834		-.1723								
.839			-.0570							
.850					-.0490	-.0658	.0058			
.857				-.0395						
.882									-.5738	
.885		-.1318								
.879			-.0429							
.900		-.0868			-.0670			.0077		
.905				-.0206						
.919			-.0489							
.950					-.0370	.0574	.0491			
.953				.0145						
.955			-.0251							
.965		-.0402								

ALPHA (5) = 11.926 BETA (1) = -7.855 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1617	-.5222	-.7819	-.3498	-.1021	-.2339	-.3834	-.6704	-1.8879	
.010		-.5977	-.6596		-1.4692	-1.5685	-1.9967	-2.4559		
.020		-.4910		.0000	-1.5236	-1.7728	-2.1406	-2.5477	-2.6247	
.040			-.4891	-1.0717						
.041	-.1562									
.050					-1.6142	-1.9161	-2.2732	-2.5286		
.069									-2.5779	
.080					-1.7151					
.081				-1.1156						
.085			-.4425							
.094		-.2289								
.113	-.1683									
.130					-1.2565	-1.4014	-1.4471	-1.3412		
.167									-2.0092	
.168			.0000							
.177				-.3622						
.209		-.1932								
.245			-.6923							
.247	-.0939									
.252					-.9257	-1.1138	-1.2173	-1.4051		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (5) = 11.926 BETA (1) = -7.855

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2090	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.7101						
.345									-1.8151	
.342		-.4829								
.390			-.6196							
.400					-.3875	-.5440		-.8098		
.402				-.4688						
.418										-2.3036
.429	-.1918									
.497		-.7254								
.503									-1.7735	
.547	-.4969									
.555					-.1843	-.2301				
.566				-.2213						
.620								-.4840		
.633	-.4299									
.637			-.1404							
.650							-.2093			
.670									-1.2144	
.700		-.1215				-.0740				
.723										-1.7051
.738					-.0770					
.747	-.0665									
.760							-.0892	-.2774		
.760				-.0802						
.775					-.1192	-.0147				
.783	.1858									
.788			-.1419							
.808				-.0027						
.824		-.0052								
.849			-.0037							
.860					-.0232	.0441	-.0134			
.867				-.0034						
.878									-.9792	
.885		.0748								
.899			.0417							
.910		.1163			-.0257			-.1137		
.915				-.0238						
.918			.0668							
.930					.0295	.1096	.0423			
.938				-.0142						
.945			.0980							
.955		.1247								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA 5' = 11.949 BETA (2) = -3.840 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2664	-.7139	-.8782	-.5765	-.2918	-.4310	-.5958	-.8855	-2.3110	
.010		-.7151	-.5733		-1.6844	-1.7799	-2.1784	-2.6409		
.020		-.5167		.0000	-1.6041	-1.9173	-2.3481	-2.7467	-2.6187	
.040			-.3398	-1.0412						
.041	-.2351									
.050					-1.6323	-1.9861	-2.4027	-2.6397		
.059									-2.5730	
.080					-1.7031					
.081				-1.0379						
.085			-.3619							
.094		-.3704								
.113	-.2306									
.150					-1.2439	-1.4173	-1.4339	-1.4794		
.157									-1.9623	
.163			.0000							
.177				-.8832						
.229		-.4297								
.246			-.7332							
.247	-.1186									
.250					-.8950	-1.1025	-1.1991	-1.3065		
.274				-.7696						
.345									-1.7710	
.362		-.6202								
.390			-.6155							
.400					-.4522	-.5538		-.7913		
.402				-.5540						
.418										-2.2412
.429	-.1970									
.497		-.6887								
.503									-1.8646	
.547	-.5302									
.550					T.2999	-.2600				
.565				-.1523						
.600								-.4697		
.633	-.4572									
.637			-.2590							
.650							-. 53			
.670									-1.4235	
.700		-.1142				-.1156				
.723										-1.6018
.725					-.1821					
.727	-.1464									
.750							-.0955	-.3127		
.760				-.0853						
.775					-.1897	-.0544				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (5) = 11.949 BETA (2) = -3.840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0984									
.798			-.1343							
.808				-.0173						
.834		-.0732								
.839			-.0075							
.850					.0113	.0022	-.0219			
.857				-.0094						
.862										
.865		-.0001							-1.0760	
.879			.0046							
.900		.0474								
.905					.0282			-.1177		
.919				-.0152						
.950			.0048							
.953					.0977	.0563	.0362			
.955				.0008						
.965		.0742	.0273							

ALPHA (5) = 11.954 BETA (3) = .189 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 1.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4023	-.9003	-.8979	-.7947	-.5051	-.6401	-.8004	-1.0854	-2.5210	
.019		-.6184	-.4425		-1.7915	-1.9326	-2.3314	-2.7777		
.020		-.4823		.0000	-1.6915	-2.0716	-2.5242	-2.8792	-2.1209	
.040			-.4052	-.9305						
.041	-.3620									
.050					-1.6103	-2.0145	-2.4920	-2.7065		
.069									-1.8490	
.080					-1.5768					
.081				-.8699						
.086			-.4694							
.094		-.5254								
.113	-.2314									
.150										
.157					-1.1485	-1.3970	-1.4745	-1.5274		
.163			.0000						-1.7017	
.177				-.8834						
.223		-.6929								
.245			-.8116							
.247	-.1597									
.250					-.8105	-1.0535	-1.1949	-1.1767		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (5) = 11.954 BETA (3) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7947						
.345										
.362		-.5758							-1.6957	
.390			-.7285							
.400					-.5317	-.5169		-.7634		
.402				-.5095						
.418										
.429	-.2445									-1.8525
.497		-.6979								
.503										
.507	-.5543								-1.6739	
.560					-.3933	-.2890				
.565				-.2665						
.600										
.633	-.5020							-.4512		
.637			-.3250							
.660										
.670							-.2087			
.700		-.1457							-1.2326	
.723						-.1588				
.725										-1.3493
.727	-.1787				-.1176					
.750										
.760							-.1163	-.2777		
.775				-.1992						
.793	.0493				-.0686	-.1564				
.798			-.1444							
.808				-.2152						
.834		-.1138								
.839			-.0128							
.850					.0233	-.1049	-.0602			
.857				-.1522						
662										
.865		-.0505							-.8497	
.879			.0039							
.900		.0013								
.905				-.1247	.0321			-.1301		
.919			.0001							
.950										
.963				-.0794	.0718	-.0162	.0007			
.956			.0252							
.965		.0332								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U17)

ALPHA (5) = 11.952 BETA (4) = 4.250 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5382	-.9980	-.6170	-.9104	-.6988	-.8588	-1.0461	T1.3203	-2.6133	
.010		-.5554	-.4803		-1.8632	-2.1291	-2.5460	-2.6572		
.020		-.5320		.0000	-1.6675	-2.2240	-2.6958	-2.6380	-1.7549	
.040			-.4874	-.7584						
.041	-.5026									
.050					-1.5267	-2.0067	-2.5945	-2.4198		
.059									-1.6767	
.080					-1.4427					
.081				-.8294						
.086			-.5193							
.094		-.5785								
.113	-.2628									
.150					-1.0173	-1.3449	-1.4521	-1.8616		
.157									-1.5941	
.163			.0000							
.177				-.8463						
.229		-.7164								
.246			-.8756							
.247	-.2162									
.250					-.8120	-.9741	-1.1066	-1.1826		
.274				-.7739						
.345									-1.5018	
.362		-.5087								
.390			-.8612							
.400					-.5934	-.5333		-.6724		
.402				-.6494						
.418										-1.3739
.429	-.2633									
.497		-.6502							-1.3759	
.503										
.547	-.5482									
.550					-.3409	-.3770				
.565				-.5412						
.600								-.3431		
.633	-.5083									
.647			-.2743							
.650							-.2573			
.670									-1.0422	
.700		-.1837				-.2319				
.723										-1.0548
.725					-.1679					
.727	-.2077									
.750							-.2135	-.1863		
.760				-.2426						
.775					-.1931	-.1522				

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (XE8U17)

ALPHA (5) = 11.952 BETA (4) = 4.250

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0116									
.798			-.1526							
.808				-.1795						
.834		-.1462								
.839			-.0314							
.850					-.1431	-.0675	-.1445			
.857				-.0978						
.862									-.7395	
.865		-.1003								
.879			-.0250							
.900		-.0526			-.1054			-.1212		
.905				-.0574						
.919			-.0228							
.950					-.0666	.0415	-.0629			
.953				-.0018						
.955			.0050							
.965		-.0135								

ALPHA (5) = 11.942 BETA (5) = 8.320 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6854	-1.1074	-.5715	-.9864	-.9025	-1.1237	-1.2916	-1.5596	-1.9613	
.010		-.5984	-.5231		-1.8858	-2.2889	-2.7179	-2.4195		
.020		-.5987		.0000	-1.6327	-2.3390	-2.8367	-2.3873	-1.5164	
.040			-.5360	-.7511						
.041	-.7168									
.050					-1.3993	-1.8421	-2.7016	-2.1913		
.069									-1.4399	
.080					-1.2764					
.091				-.7900						
.096			-.5756							
.094		-.6350								
.113	-.3446									
.150					-.9407	-1.2503	-1.3957	-1.9277		
.157									-1.3081	
.163			.0000							
.177				-.8182						
.229		-.8458								
.246			-1.0168							
.247	-.2631									
.250					-.8284	-.8858	-1.0263	-1.3684		

AMCS 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU17)

ALPHA (5) = 11.942 BETA (5) = 8.320

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7873						
.345									-1.1921	
.362		-.4165								
.390			-.7602							
.400					-.5641	-.5965		-.6513		
.402				-.8232						
.418										-1.1243
.423	-.2526									
.497		-.6268								
.503									-1.2169	
.547	-.5326									
.560					-.4190	-.4516				
.585				-.5512						
.600								-.3043		
.643	-.5128									
.637			-.2961							
.660							-.3325			
.672									-.9392	
.700		-.2309				-.2840				
.723										-.8158
.725					-.2861					
.727	-.2299									
.750							-.2890	-.1849		
.760				-.2418						
.775					-.4153	-.1417				
.793	-.0554									
.798			-.1759							
.808				-.1683						
.824		-.1805								
.839			-.0787							
.840					-.2704	-.0821	-.1912			
.847				-.1059						
.862									-.5288	
.865		-.1428								
.879			T.0661							
.880		-.0905			-.2750			-.1110		
.906				-.0615						
.919			-.0568							
.930					-.1904	-.0167	-.0793			
.953				-.0085						
.956			-.0187							
.965		-.0580								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18) (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
BDFLAP = -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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1289	-.0999	-.1009	.2911	.7073	.6544	.6147	.6355	-.3166	
.010		-.0307	.0124		.7567	.7434	.7039	.6326		
.020		-.0226		.0000	.6772	.6437	.6202	.5910	.0209	
.040			.0598	.3966						
.041	-.0423									
.050					.4665	.4367	.4193	.4145		
.059									-.0315	
.080					.2879					
.081				.3090						
.086			.1715							
.094		-.0140								
.113	-.0228									
.150					.0552	.0660	.1050	.1274		
.157									-.1678	
.163			.0000							
.177				.1183						
.229		.0623								
.245			.1046							
.247	-.0238									
.250					.0809	-.0891	-.0804	-.0816		
.274				-.0141						
.345									-.2050	
.362		.1472								
.390			-.0068							
.400					-.2063	-.2502		.2781		
.402				-.1735						
.418										-.3830
.429	.0618									
.497		.0067								
.503									-.2426	
.547	.0792									
.550					-.2582	-.2947				
.555				-.1707						
.600								.3511		
.633	-.0214									
.637			-.1421							
.650							-.3495			
.670									-.3249	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (1) = -4.050 BETA (1) = -3.854

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.1163				-.3092				
.723										
.725										-.3723
.727	-.0992				-.0438					
.750										
.760							-.3359	-.3435		
.775				.0073						
.793	.2525				.1102	-.1187				
.798			.0595							
.808				.2241						
.824		.1241								
.849			.2119							
.860										
.857					.1773	-.0271	-.3066			
.862				.1878						
.875		.0994							-.2726	
.879			.1753							
.910		.1710								
.945					.1517			-.2567		
.919				.1719						
.929			.1389							
.952										
.953					.1541	.1176	-.1820			
.955				.1460						
.966			.1375							
		.2248								

ALPHA (1) = -4.042 BETA (2) = .192 MACH = 1.3965 Q = 599.95 P = 439.47 RN/L = 2.9144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1542	-.0695	-.0509	.2583	.6312	.5656	.5208	.5317	-.3801	
.010		-.0459	.0019		.6617	.6455	.6067	.5438		
.020		-.0562		.0000	.5861	.5526	.5294	.5042	-.0656	
.040			.0322	.3154						
.041	-.1077									
.050					.3982	.3643	.3472	.3443		
.069									-.1055	
.080					.2232					
.091				.2419						
.085			.1330							
.094		-.0444								
.113	-.0856									
.117					.0273	.0302	.0634	.0911		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (1) = -4.042 BETA (2) = .192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2225	
.163			.0000							
.177				.0887						
.229		.0363								
.246			.0665							
.247	-.0517									
.250					-.0944	-.0996	-.1050	-.1078		
.274				-.0238						
.345									-.2455	
.362		.1177								
.390			-.0214							
.400					-.2056	-.2541		-.2881		
.402				-.1825						
.418										-.4472
.429	.0346									
.497		-.0240								
.503									-.2704	
.547	.0515									
.550					-.2501	-.2846				
.565				-.1652						
.600								-.3613		
.633	-.0569									
.637			-.0428							
.650							-.3409			
.670									-.3329	
.700		-.0785				-.2822				
.723										-.4393
.725					-.0141					
.727	-.0973									
.750							-.3256	-.3638		
.760				.0382						
.775					.0966	-.0280				
.793	.2354									
.798			.0511							
.808				.1496						
.834		.0894								
.839			.1415							
.850					.1691	.0082	-.2800			
.857				.1283						
.862									-.2795	
.865		.0278								
.879			.0986							
.900		.1115			.1197			-.2680		
.905				.1082						
.919			.0886							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (1) = -4.042 BETA (2) = .192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.1048	.1110	-.0455			
.953				.1023						
.955			.0734							
.955		.1648								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1616	-.0744	-.0233	.2540	.5664	.4805	.4317	.4359	-.4268	
.010		-.0830	.0047		.5763	.5549	.5187	.4533		
.020		-.0956		.0000	.5059	.4685	.4477	.4252	-.1399	
.040			.0265	.2666						
.041	-.1542									
.050					.3374	.2977	.2795	.2809		
.069									-.1696	
.080					.1833					
.081				.2011						
.085			.1076							
.094		-.0513								
.113	-.1414									
.150					.0117	.0048	.0303	.0496		
.157									-.2654	
.163			.0000							
.177				.0673						
.229		.0202								
.246			.0501							
.247	-.0573									
.250					-.1023	-.1128	-.1183	-.1296		
.274				-.0253						
.345									-.2766	
.362		.1089								
.380			-.0236							
.400					-.2084	-.2505		-.3001		
.402				-.1810						
.418										-.4898
.429	.0299									
.447		-.0371								
.503									-.2989	
.547	.0429									
.550					-.2383	-.2850				
.565				-.1527						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (1) = -4.051 BETA (3) = 4.285

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.0806							-.3703		
.637			.0332							
.650							-.3291			
.670										
.700		-.0235							-.3377	
.723						-.1374				
.725										-.4817
.727	-.0937				.0223					
.750										
.760							-.3158	-.3576		
.775				.0373						
.793	.3020				.1079	.0100				
.799			.0396							
.808										
.834		.0809		.1271						
.839			.1096							
.850										
.857					.1508	.0405	-.1095			
.862				.0878						
.865		.0024							-.2801	
.873			.0603							
.900		.0716								
.905					.0888			-.2190		
.919				.0622						
.940			.0496							
.953					.0700	.0999	.0156			
.965				.0636						
.965			.0308							
.985		.1025								

ALPHA (2) = -.030 BETA (1) = -3.874 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0336	.0185	.0164	.4062	.7583	.7105	.6792	.6908	-.1473	
.010		.0216	.0358		.6073	.6441	.6023	.5126		
.020		.0000		.0000	.5037	.5073	.4856	.4584	.0136	
.040			.0555	.2449						
.041	-.0341									
.050					.2881	.2749	.2604	.2621		
.069									-.0558	
.080					.1146					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (2) = -.030 BETA (1) = -3.874

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1206						
.086			.1131							
.094		-.0545								
.113	-.0322									
.150					-.0827	-.0775	-.0351	-.0080		
.157									-.2132	
.163			.0000							
.177				-.0196						
.229		-.0043								
.246			.0029							
.247	-.0562									
.250					-.2239	-.2263	-.2098	-.1941		
.274				-.1471						
.345									-.2703	
.362		.0646								
[illegible]			-.1198							
[illegible]					-.3224	-.3676		-.3731		
.402				-.2742						
.418										-.1738
.429	.0103									
.497		-.0806								
.503									-.3223	
.547	.0053									
.550					-.3547	-.4015				
.565				-.2718						
.600								-.4150		
.633	-.1148									
.637			-.2307							
.650							-.4422			
.670									-.4086	
.700		-.1976				-.4017				
.723										-.2163
.725					-.1889					
.727	-.1691									
.750							-.4439	-.4240		
.760				-.1125						
.775					-.0728	-.2353				
.793	.0263									
.798			-.0723							
.808				.0654						
.834		.0228								
[illegible]			.1279							
[illegible]					-.0118	-.1894	-.4055			
[illegible]				.1149						
[illegible]									-.3920	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U18)

ALPHA (2) = -.030 BETA (1) = -3.874

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		.0194								
.879			.1165							
.900		.1031			.0301			-.3455		
.905				.1179						
.919			.0911							
.950					.0840	-.1532	-.2014			
.953				.1087						
.955			.0937							
.965		.1464								

ALPHA (2) = -.025 BETA (2) = .186 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0491	-.0213	-.0252	.3551	.6663	.6201	.5841	.5883	-.1998	
.010		-.0421	-.0117		.4921	.5430	.5073	.4195		
.020		-.0623		.0000	.4021	.4120	.3953	.3702	-.0614	
.040			.0155	.1739						
.041	-.0866									
.050					.2170	.2030	.1904	.1927		
.069									-.1214	
.080					.0615					
.081				.0662						
.086			.0721							
.094		-.1081								
.113	-.0961									
.150					-.1161	-.1130	-.0773	-.0484		
.157									-.2606	
.163			.0000							
.177				-.0494						
.223		-.0183								
.246			-.0268							
.247	-.1018									
.250					-.2362	-.2485	-.2399	-.2229		
.274				-.1529						
.345									-.3028	
.352		.0435								
.370			-.1233							
.402					-.3115	-.3715		-.3911		
.409				-.2669						
.418										-.1915
.429	-.0130									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (2) = -.025 BETA (2) = .186

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.0986								
.503										
.547	-.0121								-.3437	
.550					-.3433	-.3949				
.585				-.2691						
.600								-.4266		
.633	-.1459									
.637			-.2208							
.650							-.4413			
.670									-.4087	
.700		-.1914				-.3793				
.723										
.725										-.2315
.727	-.1718				-.1355					
.750										
.760				-.0998			-.4239	-.4350		
.775										
.793	.1324				-.0737	-.1821				
.799			-.0473							
.806				.0445						
.834		.0209								
.839			.0502							
.850										
.857					.0084	-.1628	-.3719			
.862				.0692						
.865		-.0315							-.3733	
.879			.0524							
.900		.0354								
.905					.0394			-.3567		
.919				.0610						
.930			.0412							
.950										
.957					.0707	-.0674	-.1626			
.962				.0595						
.965			.0414							
.986		.0651								

AMES 11-073(OA148) T148A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (2) = -.030 BETA (3) = 4.265 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0658	-.0991	-.0861	.2918	.5960	.5311	.4939	.5003	-.2098	
.010		-.1319	-.0567		.3927	.4455	.4076	.3301		
.020		-.1422		.0000	.3163	.3277	.3061	.2877	-.1204	
.040			-.0181	.1161						
.041	-.1349									
.050					.1597	.1400	.1212	.1264		
.059									-.1763	
.080					.0185					
.081				.0363						
.086			.0351							
.094		-.1597								
.113	-.1587									
.150					-.1287	-.1436	-.1100	-.0874		
.157									-.2991	
.163			.0000							
.177				.0686						
.223		-.0314								
.246			-.0336							
.247	-.1345									
.250					-.2224	-.2655	-.2570	-.2501		
.274				-.1456						
.345									-.3229	
.352		.0433								
.390			-.1215							
.400					-.3022	-.3585		-.4060		
.402				-.2622						
.418										-.1537
.429	-.0137									
.497		-.1072								
.503									-.3497	
.547	-.0199									
.550					-.3361	-.3814				
.565				-.2622						
.600								-.4461		
.633	-.1658									
.637			-.1596							
.650							-.4285			
.670									-.4019	
.700		-.1747				-.3085				
.723										-.3008
.725					-.1272					
.727	-.1697									
.750							-.4095	-.4410		
.760				-.0848						
.775					-.0536	-.1601				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18) 1

ALPHA (2) = -.030 BETA (3) = 4.265

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1662									
.798			-.0417							
.809				.0239						
.834		.0034								
.839			.0207							
.850					.0296	-.1206	-.2446			
.857				.0293						
.862									-.3593	
.865		-.0618								
.879			.0034							
.900		-.0092				.0402		-.3315		
.905				.0211						
.919			-.0073							
.950					.0474	-.0117	-.1645			
.953				.0139						
.965			-.0063							
.985		.0032								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0553	.0258	-.0389	.3793	.7546	.7408	.7199	.7074	.0804	
.010		-.0149	-.0578		.3820	.4958	.4597	.3479		
.020		-.0349		.0000	.2833	.3312	.3234	.2822	-.0509	
.040			-.0476	.0408						
.061	-.0265									
.080					.0872	.1069	.0983	.0896		
.080									-.0989	
.090					-.0781					
.091				-.0638						
.096			-.0095							
.094		-.0825								
.113	-.0391									
.150					-.2831	-.2314	-.1833	-.1482		
.157									-.2736	
.163			.0000							
.177				-.1918						
.222		-.0855								
.245			-.1266							
.247	-.0600									
.250					-.3537	-.3655	-.3357	-.3051		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (3) = 3.919 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2795						
.345										
.362		-.0258							-.3419	
.390			-.2238							
.400										
.402					-.4330	-.4760		-.4542		
.418				-.3627						
.429	-.0567									
.497		-.1614								-.1340
.503										
.547	-.0657								-.4165	
.550										
.555					-.4448	-.5096				
.600				-.3560						
.633	-.2123							-.4808		
.637			-.3067							
.650										
.670							-.4870			
.700		-.2754							-.5309	
.723						-.5049				
.725										
.727	-.2428				-.2492					-.4249
.750										
.760							-.5256	-.4764		
.775				-.1720						
.793	-.1726				-.2080	-.3485				
.798			-.1637							
.808				-.1172						
.834		-.0663								
.839			-.0251							
.850										
.857					-.1817	-.2513	-.4915			
.862				-.0479						
.865		-.0668							-.5872	
.879			.0369							
.900		.0624								
.905					-.1685			.4209		
.919				.0096						
.930			.0540							
.953					-.1029	-.1893	-.2607			
.955				.0489						
.965			.0581							
		.0672								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (3) = 3.922 BETA (2) = .185 MACH = 1.3940 Q = 599.4 P = 440.65 RN/L = 2.9158

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7890	.8870	.9720	1.0000
X/CW										
.000	.0214	-.0768	-.2032	.2645	.6493	.6415	.6238	.6044	.0226	
.010		-.1315	.2020		.2655	.3807	.3507	.2419		
.020		-.1324		.0000	.1771	.2317	.2280	.1889	-.1206	
.040			-.1519	-.0277						
.041	-.0739									
.050										
.069					.0112	.0279	.0258	.0152		
.080									-.1622	
.081					-.1293					
.085				-.1130						
.094			-.0732							
.113	-.0988	-.1434								
.150										
.157					-.3153	-.2750	-.2278	-.1942		
.163									-.3147	
.177			.0000							
.223				-.2128						
.245		-.1234								
.247	-.1140		-.1409							
.250										
.274					-.3634	-.3914	-.3647	-.3388		
.345				-.2619						
.382		-.0412							-.3763	
.390			-.2205							
.400										
.402					-.4287	-.4856		-.4711		
.418				-.3525						
.419	-.0706									-.2571
.497		-.1757								
.503										
.547	-.0805								-.4415	
.550										
.566					-.4162	-.5033				
.600				-.3425						
.633	-.2329							-.4916		
.647			-.3013							
.650										
.670							-.5107			
.700		-.2753							-.5397	
.723						-.4847				
.725										-.5491
.727	-.2427				-.1965					
.750										
.760							-.5279	-.4856		
.775				-.1692						
					-.1984	-.2535				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (3) = 3.922 BETA (2) = .185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0098									
.798			-.1357							
.808				-.1023						
.834		-.0245								
.839			-.0272							
.850					-.1811	-.2106	-.3671			
.857				-.0731						
.862									-.5814	
.865		-.0778								
.873			-.0312							
.900		-.0153			-.1421			-.4328		
.905				-.0260						
.919			.0051							
.950					-.0722	-.1534	-.2412			
.953				.0031						
.965			.0092							
.965		-.0102								

ALPHA (3) = 3.923 BETA (3) = 4.259 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0095	-.2176	-.4132	.1355	.5386	.5408	.6251	.5088	-.0591	
.010		-.2708	-.3606		.1516	.2670	.2410	.1429		
.020		-.2516		.0000	.0702	.1322	.1284	.0970	-.1968	
.040			-.2205	-.0884						
.041	-.1175									
.050					-.0629	-.0448	-.0494	-.0617		
.069									-.2277	
.080					-.1763					
.081				-.1443						
.086			-.1155							
.094		-.2079								
.113	-.1558									
.150					-.3207	-.3076	-.2723	-.2422		
.157									-.3565	
.163			.0000							
.177				-.1982						
.229		-.1257								
.246			-.1345							
.247	-.1591									
.250					-.3539	-.4082	-.3923	-.3686		

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

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (3) = 3.923 BETA (3) = 4.255

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2594						
.345										
.362		-.0309							-.4098	
.390			-.2078							
.400					-.3944	-.4815		-.4911		
.402				-.3318						
.418										
.428	-.0684									-.4084
.497		-.1751								
.503										
.547	-.0793								-.4649	
.550										
.565					-.4040	-.4815				
.600				-.3328						
.633	-.2408							-.5035		
.637			-.2971							
.650										
.670							-.5170			
.700		-.2732							-.5486	
.723						-.3632				
.725										-.6484
.727	-.2403				-.1878					
.750										
.760							-.5089	-.4953		
.775				-.1627						
.733	.1050				-.2037	-.2382				
.739			-.0891							
.800				-.0998						
.824		-.0264								
.873			-.0426							
.850					-.1517	-.2082	-.3018			
.857				-.0834						
.862										
.885		-.1117							-.5757	
.879			-.0663							
.910		-.0518								
.905					-.116			-.3073		
.919				-.0491						
.950			-.0289							
.953					-.0499	-.1583	-.2502			
.965				-.0269						
.966			-.0350							
.986		-.0669								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (A) = 7.792 BETA ( ) = -3.657 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2550	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0931	-.0642	-.2125	.2693	.6899	.7161	.7019	.6689	.0174	
.010		-.1464	-.2409		.1563	.3090	.2673	.1390		
.020		-.1364		.0000	.0502	.1386	.1353	.0763	-.2285	
.040			-.1769	-.1509						
.041	-.0179									
.050										
.069					-.1180	-.0735	-.0742	-.1016		
.080										
.081					-.2479				-.2553	
.086				-.2534						
.094			-.1206							
.098		-.1155								
.113	-.0353									
.130										
.157					-.4226	-.3656	-.3283	-.2955		
.163									-.3948	
.177			.0000							
.228				-.3846						
.229		-.1209								
.248			-.2701							
.247	-.0604									
.250										
.274					-.5121	-.4772	-.4468	-.4155		
.285				-.4272						
.288		-.1188							-.4856	
.299			-.3248							
.300										
.309					-.5703	-.5665		-.4777		
.310				-.4431						
.329	-.1103									
.330										-.3919
.497		-.2559								
.503										
.547	-.1625									
.550									-.5184	
.555					-.5556	-.5292				
.570				-.4201						
.633	-.3013							-.4721		
.637			-.3901							
.650										
.670							-.4767			
.700		-.3620							-.6238	
.723						-.4677				
.725										-.6282
.727	-.3112				-.3627					
.750										
.760							-.4137	-.4326		
.775				-.2296						
					-.3400	-.4412				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (4) = 7.792 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2815									
.798			-.2117							
.808				-.2268						
.834		-.1331								
.839			-.1448							
.850					-.2609	-.4032	-.4137			
.857				-.1804						
.862									-.6141	
.865		-.1226								
.870			-.0610							
.900		.0085			-.2014			-.4138		
.905				-.0890						
.910			.0353							
.920					-.1639	-.3235	-.3889			
.923				-.0236						
.935			.0759							
.965		.0532								

ALPHA (4) = 7.791 BETA (2) = .182 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0384	-.2135	-.4389	.0657	.5450	.5855	.5899	.5506	-.1313	
.010		-.2919	-.3896		.0062	.1574	.1339	.0194		
.020		-.2657		.0000	-.0982	.0107	.0220	-.0341	-.3357	
.040			-.3137	-.2799						
.041	-.0621									
.050					-.2409	-.1753	-.1629	-.1891		
.069									-.3431	
.080					-.3415					
.081				-.3387						
.090			-.2218							
.094		-.1797								
.113	-.0963									
.150					-.4748	-.4148	-.3757	-.3475		
.154									-.4450	
.163			.0000							
.172				-.4228						
.203		-.1793								
.206			-.2609							
.217	-.1170									
.240					-.5243	-.5045	-.4776	-.4488		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (4) = 7.791 BETA (2) = .182

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3628						
.345										
.382		-.1448							-.5149	
.390			-.2959							
.400					-.5323	-.5776		-.5006		
.402				-.4064						
.418										
.429	-.1638									-.5286
.497		-.2603								
.503										
.547	-.1507								-.5356	
.550					-.4690	-.5686				
.555				-.3947						
.600								-.4946		
.633	-.2990									
.637			-.3857							
.650							-.5085			
.670									-.6539	
.700		-.3484				-.4846				
.723										
.725										-.5404
.727	-.2978				-.2368					
.750										
.760							-.4355	-.4540		
.775				-.2070						
.793	-.1177				-.2281	-.4006				
.798			-.1820							
.809				-.2087						
.834		-.0422								
.849			-.1089							
.860					-.2043	-.3826	-.4259			
.857				-.1765						
.862										
.865		-.1049							-.5467	
.879			-.0969							
.900		-.0441								
.905				-.1307	-.2284			-.4257		
.919			-.0331							
.950										
.953				-.0655	-.1682	-.3213	-.3909			
.955			.0034							
.965		-.0426								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0154	-.3977	-.4140	-.1458	.3685	.4464	.4511	.4096	-.3079	
.010		-.3813	-.4076		-.1656	.0206	-.0116	-.1091		
.020		-.3806		.0000	-.2561	-.1054	-.1051	-.1562	-.4505	
.040			-.3948	-.3185						
.041	-.1116									
.060										
.080					-.3715	-.2643	-.2553	-.2865		
.100										
.101					-.4327				-.4771	
.120				.3013						
.140			-.3694							
.141		-.3671								
.160	-.1537									
.180										
.187					-.4940	-.4611	-.4295	.4083		
.193										
.200			.0000						-.4999	
.220				.3135						
.226		-.2041								
.246			-.4197							
.247	-.1748									
.250										
.274					-.4728	-.5351	-.5126	-.4898		
.345				-.3340						
.369		-.1107							-.5196	
.390			-.2811							
.403										
.402					-.4447	-.5883		-.5127		
.418				-.3840						
.429	-.1536									
.497		-.2366								-.5241
.503										
.547	-.1380									
.550									.5289	
.555					-.4377	-.5549				
.600				-.4071						
.633	-.2969							-.5124		
.650			-.3718							
.670							-.5223			
.700		-.3234							-.4952	
.723						-.4549				
.746										
.773	-.2959				-.2515					-.4771
.796										
.820							-.4574	-.4387		
.845				-.1970						
.875					-.2486	-.3575				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (4) = 7.919 BETA (3) = 4.252

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	.0266									
.738			-.1531							
.809				-.1858						
.824		-.1067								
.839			-.1255							
.850					-.2005	-.2653	-.4317			
.857				-.1602						
.862									-.4835	
.886		-.1556								
.879			-.1095							
.900		-.0872								
.906					-.1661			-.4047		
.919				-.1451						
.950			-.0629							
.933					-.1086	-.1818	-.3765			
.955				-.0940						
.965			-.0859							
.965		-.0852								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0250	-.2376	-.3718	.1120	.6026	.6435	.6385	.5778	-.1775	
.010		-.2884	-.3287		-.0249	.1231	.0606	-.0726		
.020		-.2789		.0000	-.1353	-.0283	-.0568	-.1268	-.4834	
.040			-.2701	-.3305						
.041	-.0120									
.060					-.2842	-.2190	-.2308	-.2734		
.080					-.3850				-.4846	
.081				-.3798						
.095			-.2031							
.096		-.1943								
.113	-.0363									
.150										
.157					-.5127	-.4627	-.4276	-.4177		
.163			.0000						-.5210	
.177				-.4726						
.229		-.1639								
.246			-.2888							
.247	-.0562									
.250					-.5776	-.5088	-.5062	-.4954		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU10)

ALPHA (5) = 11.807 BETA (1) = -3.848

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4693						
.345									-.5257	
.362		-.1473								
.390			-.3741							
.400					-.5459	-.4951		-.4897		
.402				-.4897						
.418										-.5392
.429	-.1308									
.497		-.3566								
.503									-.5395	
.547	-.1956									
.550					-.4963	-.4930				
.565				-.4671						
.600								-.4959		
.633	-.3924									
.637			-.4639							
.650							-.4726			
.670									-.4972	
.700		-.4636				-.4901				
.723										-.4752
.725					-.4795					
.727	-.4034									
.750							-.4390	-.4693		
.760				-.3419						
.775					-.4660	-.4499				
.793	-.3733									
.798			-.2315							
.808				-.3876						
.834		-.1591								
.839			-.2609							
.850					-.4235	-.4357	-.4457			
.857				-.3669						
.862									-.5005	
.865		-.1480								
.879			-.1940							
.900		.0733			-.4037			-.4833		
.905				-.2904						
.919			-.1869							
.950					-.3705	-.3572	-.4093			
.953				-.2307						
.976			-.1529							
.985		-.0237								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (5) = 11.815 BETA (2) = .187 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9163

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0638	-.3697	-.3696	-.0965	.4295	.4615	.4826	.4105	-.3468	
.010		-.3172	-.3618		-.1762	-.0268	-.0828	-.1 3b		
.020		-.3081		.0000	-.2735	-.1657	-.1906	-.2516	-.5495	
.040			-.3480	-.3756						
.041	-.0818									
.060					-.3947	-.3253	-.3323	-.3702		
.069										
.080					-.4745				-.5241	
.081				-.4130						
.086			-.3196							
.094		-.3552								
.113	-.1263									
.150										
.167					-.5733	-.5224	-.4904	-.4807		
.183			.0000						-.5203	
.177				-.4342						
.229		-.4124								
.246			-.3991							
.247	-.1125									
.260										
.274					-.6146	-.5889	-.5465	-.5360		
.345				-.4630						
.362		-.2839							-.5400	
.390			-.4037							
.400										
.402					-.5737	-.5588		-.5265		
.418				-.4983						
.469	-.1959									-.5478
.497		-.4070								
.503										
.547	-.2655								-.5536	
.550										
.565					-.5550	-.5553				
.582				-.4692						
.633	-.4090							-.5269		
.651			-.4908							
.680							-.5142			
.670										
.700		-.4253							-.5141	
.723						-.5289				
.726										-.4954
.727	-.3301				-.4793					
.750										
.760							-.4837	-.4914		
.775				-.2439						
					-.4899	-.4871				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

ALPHA (S) = 11.815 BETA (2) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.1936									
.799			-.2311							
.803				-.2844						
.834		-.1602								
.839			-.2228							
.860					-.4305	-.4081	-.4666			
.867				-.2790						
.882									-.5174	
.885		-.1841								
.879			-.1808							
.900		-.0723			-.3387			-.5002		
.905				-.2657						
.919			-.0801							
.960					-.2745	-.3341	-.4074			
.953				-.3134						
.965			-.1312							
.985		-.0391								

ALPHA (S) = 11.810 BETA (3) = 4.269 MACH = 1.3965 Q = 593.65 P = 439.24 RN/L = 2.5153

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1425	-.3892	-.4082	-.3002	.2507	.3118	.3114	.2421	-.4683	
.010		-.3921	-.4103		-.3155	-.1695	-.2211	-.3314		
.0		-.3902		.0000	-.3938	-.2366	-.3192	-.3711	-.5535	
.040			-.4134	-.3264						
.041	-.1710									
.060					-.4898	-.4224	-.4300	-.4662		
.069									-.5504	
.080					-.5497					
.101				-.4136						
.105			-.3961							
.124		-.4395								
.113	-.1844									
.161					-.5822	-.5765	-.5491	-.5462		
.154									-.5523	
.163			.0000							
.175				-.4183						
.209		-.5297								
.246			-.4224							
.247	-.1943									
.251					-.5786	-.6283	-.6063	-.5878		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (α) = 11.810 BETA (β) = 4.268

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4105						
.345									-.5639	
.382		-.3807								
.390			-.4109							
.400					-.6029	-.6127		-.5795		
.402				-.4624						
.418										-.5604
.439	-.2697									
.497		-.3633								
.503									-.5725	
.547	-.2312									
.550					-.5370	-.6087				
.595				-.4789						
.609								-.5669		
.633	-.3814									
.637			-.4644							
.650							-.5856			
.670									-.5473	
.700		-.3693				-.5358				
.723										-.5352
.725					-.2765					
.727	-.3644									
.750							-.5260	-.5466		
.760				-.2678						
.775					-.3100	-.5142				
.793	-.0484									
.798			-.2475							
.808				-.3852						
.834		-.1857								
.839			-.2351							
.850					-.2972	-.4995	-.4986			
.857				-.2939						
.862									-.5408	
.865		-.2366								
.879			-.1603							
.900		-.1532			-.2956			-.5174		
.905				-.2283						
.913			-.1494							
.950					-.2768	-.3049	-.4159			
.953				-.1795						
.960			-.1463							
.965		-.1574								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU18)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0336	-.3241	-.3045	-.0208	.4890	.5240	.5113	.4163	-.3473	
.010		-.2963	-.2891		-.1855	-.0504	-.1317	-.2795		
.020		-.2789		.0010	-.2839	-.2019	-.2467	-.3272	-.5998	
.040			-.2727	-.3386						
.041	-.1691									
.060					-.4083	-.3539	-.3781	-.4310		
.069									-.5705	
.080					-.4885					
.081				-.3679						
.098			-.2511							
.099		-.2917								
.113	-.0448									
.150					-.5852	-.5423	-.5205	-.5285		
.157									-.5686	
.163			.0000							
.174				-.3898						
.200		-.3642								
.246			-.3645							
.247	-.0843									
.250					-.5645	-.5565	-.5420	-.5609		
.274				-.4370						
.345									-.5803	
.352		-.3801								
.380			-.4036							
.400					-.5573	-.5496		-.5530		
.402				-.5018						
.418										
.419	-.1844									-.6020
.497		-.4621								
.503									-.5898	
.547	-.2511									
.560					-.5655	-.5598				
.586				-.5318						
.600								-.5647		
.643	-.4766									
.647			-.5154							
.660							-.5450			
.670									-.5556	
.700		-.5187				-.5572				
.723										-.5261
.725					-.5320					
.727	-.5273									
.750							-.5072	-.5478		
.760				-.3219						
.775					-.5438	-.5068				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (6) = 15.906 BETA (1) = -3.833

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.3927									
.798										
.808			-.2982							
.834				-.3903						
.839		-.2592								
.850			-.3419							
.857						-.4685	-.4826	-.5096		
.865				-.4213						
.865		-.2183								
.879									-.5518	
.900			-.2550							
.905		-.1803				-.4617				
.910				-.4404				-.5680		
.950			-.2398							
.953						-.4196	-.4296	-.4809		
.955				-.4088						
.965			-.2566							
		-.1456								

ALPHA (6) = 15.920 BETA (1) = .184 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1426	-.3785	-.3669	-.2471	.3091	.3467	.3321	.2364	-.4606	
.010		-.3699	-.3660		-.3220	-.1959	-.2602	-.3802		
.020		-.3739		.0000	-.4016	-.3253	-.3585	-.4258	-.5724	
.040			-.3641	-.3711						
.041	-.3205									
.059					-.4959	-.4461	-.4684	-.6110		
.069									-.5736	
.081					-.5665					
.086				-.4109						
.094			-.3309							
.113	-.1357	-.3930								
.150										
.157					-.6080	-.5920	-.5763	-.5831		
.163										
.177			.0000						.5772	
.223		-.4348		-.4602						
246										
.247	-.1919		-.4433							
.250										
					-.6072	-.6000	-.5815	-.5993		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (6) = 15.920 BETA (2) = .184

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5014						
.345										
.362		-.4796							-.5881	
.390			-.4690							
.400					-.5916	-.5922		-.5900		
.402				-.5441						
.418										
.429	-.2539									-.5947
.487		-.5331								
.503										
.547	-.3553								-.5995	
.550					-.5909	-.5967				
.566				-.5264						
.600								-.5854		
.633	-.5058									
.637			-.5251							
.662							-.5863			
.670										
.700		-.5072				-.5934			.5627	
.723										
.735										-.5515
.747	-.5179				-.5255					
.750										
.760							-.5434	-.5662		
.775				-.3563						
.793	-.3173				-.5579	-.5356				
.798			-.2830							
.818				-.3784						
.834		-.2393								
.839			-.2455							
.857					-.5464	-.4634	-.5298			
.860				-.3760						
.866		-.2531							.5615	
.879			-.2189							
.900		-.1579			-.5137			-.5708		
.905				-.3656						
.919			-.2723							
.933					-.4596	-.3928	-.4835			
.953				-.3978						
.955			-.3006							
.955		-.1675								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (6) = 15.910 BETA (3) = 4.299 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2383	-.4157	-.4403	-.4164	.1254	.1738	.1547	.0646	-.5363	
.013		-.4195	-.4420		-.4332	-.3219	-.3785	-.4894		
.020		-.4224		.0000	-.5019	-.4328	-.4609	-.5214	-.5639	
.040			-.4382	-.4124						
.041	-.4328									
.052										
.069					-.5694	-.5272	-.5444	-.5806		
.080									-.5620	
.081					-.6095					
.086				-.4343						
.094			-.3979							
.094		-.4516								
.113	-.2226									
.150										
.157					-.6148	-.6322	-.6218	-.5939		
.163									-.5620	
.177			.0000							
.229				-.5000						
.246		-.4879								
.247			-.5067							
.247	-.2701									
.250										
.274					-.6285	-.6218	-.6078	-.5908		
.345				-.5014						
.362									-.5591	
.390		-.5257								
.400			-.4709							
.402					-.6348	-.6189		-.5799		
.418				-.5050						
.429	-.3435									-.5598
.497		-.5046								
.503										
.547	-.3772								-.5689	
.550										
.565					-.6290	-.6149				
.600				-.5202						
.633	-.4575							-.5607		
.637			-.4673							
.660										
.670							-.5856			
.700		-.4283							-.5482	
.733						-.5811				
.765										-.5399
.767	-.4326				-.4815					
.790										
.800							-.5537	-.5445		
.835				-.3821						
					-.4964	-.5392				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U18)

ALPHA (6) = 15.910 BETA (3) = 4.299

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5310	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2204									
.798			-.2970							
.808				-.3917						
.834		-.2397								
.839			-.3143							
.844					-.4750	-.4893	-.5378			
.849				-.3404						
.859									-.5413	
.864		- 2879								
.879			-.2234							
.884		-.2012			-.4818			-.5421		
.889				-.3599						
.919			-.2497							
.959					-.5000	-.4084	-.5186			
.963				-.3764						
.979			-.2673							
.985		-.2159								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
CREF = 474.8000 IN. YMRP = .0000 IN. YC
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = 1.250

ALPHA (I) = -4.048 BETA (I) = -3.848 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/CW										
.000	-.1981	-.0870	-.1147	.2616	.6606	.5993	.5578	.5787	-.4357	
.010		-.0319	-.0069		.7249	.7029	.6640	.5939		
.020		-.0331		.0000	.6434	.5993	.5795	.5478	-.0495	
.040			.0459	.4156						
.041	-.1010									
.060					.4371	.3952	.3750	.3662		
.069									-.1084	
.080					.2549					
.081				.3002						
.086			.1670							
.094		-.0024								
.113	-.0570									
.140					.0132	.0157	.0371	.0474		
.157									-.2500	
.163			.0000							
.177				.1000						
.229		.0551								
.246			.0996							
.247	-.0024									
.250					-.1254	-.1387	-.1316	-.1615		
.274				-.0436						
.345									-.2939	
.362		.1532								
.390			-.0161							
.400					-.2633	-.3090		-.3808		
.402				-.1986						
.418										-.5068
.423	.0501									
.437		.0187								
.503									-.3378	
.547	.0760									
.550					-.2046	-.3572				
.585				.0169						
.600								-.4547		
.633	-.0487									
.637			.1422							
.650							-.4275			
.670									-.4271	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (1) = -4.048 BETA (1) = -3.848

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.1159				-.1208				
.723										
.725										-.4786
.727	-.0672				.0602					
.750							-.3078	-.4299		
.760				.0497						
.775					.1578	.0280				
.793	.3467									
.798			.0508							
.808				.1659						
.834		.0993								
.839			.1547							
.850					.1319	.0256	-.0550			
.857				.1289						
.862									-.3576	
.886		.0591								
.879			.1496							
.900		.1235			.0616			-.1330		
.905				.1078						
.919			.0617							
.950					.0954	.1545	.1661			
.963				.0632						
.966			.1104							
.985		.1720								

ALPHA (1) = -3.974 BETA (2) = .192 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2167	-.0781	-.0657	.2353	.5924	.5120	.4670	.4832	-.5090	
.010		-.0844	-.0081		.6475	.6224	.5845	.5177		
.020		-.0785		.0000	.5733	.5289	.5038	.4794	-.1306	
.040			.0300	.3428						
.041	-.1699									
.050					.3880	.3396	.3149	.3124		
.069									-.1724	
.090					.2224					
.081				.2477						
.086			.1291							
.094		-.0276								
.113	-.1188									
.150					.0081	-.0073	.0134	.0218		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (1) = -3.974 BETA (2) = .192

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

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3056	
.163			.0000							
.177				.0866						
.229		.0268								
.245			.0710							
.247	-.0283									
.250					-.1239	-.1518	-.1501	-.1714		
.274				-.0430						
.295									-.3296	
.302		.1301								
.340			-.0287							
.400					-.2518	-.3052		-.3893		
.402				-.1955						
.418										-.5791
.429	.0318									
.437		-.0074								
.503									-.3633	
.547	.0496									
.550					.0000	-.3418				
.565				.1152						
.600								-.4462		
.633	-.0578									
.637			.1899							
.650							-.3841			
.670									-.4175	
.700		.1843				-.0406				
.723										-.5525
.725					.0775					
.727	.0888									
.750							-.0621	-.3479		
.760				.0309						
.775					.1108	.0434				
.793	.3379									
.798			.0250							
.808				.1079						
.824		.0575								
.839			.1061							
.850					.0936	-.0217	.0388			
.857				.0684						
.862									-.1720	
.865		.0035								
.879			.0971							
.900		.0850			.0120					
.905				.0566				.0585		
.919			.0150							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (1) = -3.974 BETA (2) = .192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0302	.0869	.1638			
.953				.0162						
.955			.0508							
.965		.1232								

ALPHA (1) = -3.984 BETA (3) = 4.283 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.9180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1997	-.0978	-.0369	.2542	.5335	.4360	.3827	.3895	-.5600	
.010		-.1064	-.0005		.5699	.5339	.4941	.4329		
.020		-.1218		.0000	.5013	.4502	.4257	.3969	-.2098	
.040			.0267	.3001						
.041	-.2111									
.050					.3362	.2738	.2548	.2498		
.069									-.2421	
.080					.1802					
.081				.2095						
.086			.1136							
.094		-.0373								
.113	-.1691									
.150					-.0096	-.0368	-.0085	-.0024		
.157									-.3594	
.163			.0000							
.177				.0730						
.229		.0151								
.246			.0684							
.247	-.0232									
.250					-.1361	-.1704	-.1834	-.2038		
.274				-.0493						
.345									-.3867	
.362		.1355								
.390			-.0359							
.400					-.2493	-.2969		-.3974		
.402				-.1905						
.418										-.6246
.429	.0387									
.497		-.0297								
.503									-.3753	
.547	.0470									
.550					.0683	-.0704				
.565				.1558						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (1) = -3.994 BETA (3) = 4.283

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.4377		
.633	-.0728									
.637			.2050							
.650							-.1143			
.670									-.2872	
.700		.2010				.0135				
.723										-.5098
.725					.0724					
.727	.1226									
.750							.0074	-.1492		
.760				.0128						
.775					.0721	.0268				
.793	.3357									
.798			.0065							
.808				.0718						
.834		.0405								
.839			.0671							
.850					.0618	-.0598	.0245			
.857				.0228						
.862									-.1117	
.865		-.0302								
.879			.0385							
.900		.0474			-.0199			.1293		
.905				.0192						
.919			-.0186							
.950					-.0235	.0218	.1234			
.953				-.0142						
.955			-.0046							
.965		.0676								

ALPHA (2) = -.051 BETA (1) = -3.861 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0853	.0095	.0042	.4119	.7148	.6643	.6340	.6441	-.2526	
.010		-.0038	.0303		.5731	.6030	.5643	.4697		
.020		-.0299		.0000	.4674	.4585	.4416	.4138	-.0574	
.040			.0531	.2471						
.041	-.0844									
.050					.2402	.2096	.2017	.2032		
.059									-.1330	
.080					.0487					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (2) = -.051 BETA (1) = -3.861

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1184						
.086			.1111							
.094		-.0870								
.113	-.0602									
.150					-.1620	-.1470	-.1231	-.1073		
.157									-.3148	
.163			.0000							
.177				-.0725						
.229		-.0076								
.246			-.0259							
.247	-.0769									
.250					-.2711	-.3189	-.3103	-.2974		
.274				-.1858						
.345									-.3750	
.362		.0789								
.390			-.1552							
.400					-.3777	-.4477		-.4923		
.402				-.3250						
.418										-.2547
.429	.0083									
.497		-.0917								
.503									-.4342	
.547	-.0031									
.550					-.3996	-.4866				
.[illegible]				-.3014						
.[illegible]								-.5288		
.643	-.1495									
.647			-.1818							
.650							-.5271			
.670									-.5276	
.700		-.2098				-.3367				
.7[illegible]										-.2659
.7[illegible]					-.1067					
.727	-.2152									
.[illegible]							-.5421	-.5199		
.[illegible]				-.0570						
.[illegible]					.0057	-.1955				
.733	.1739									
.[illegible]			-.0315							
.[illegible]				.1344						
.[illegible]		.0385								
.839			.1314							
.850					.0758	-.1186	-.2708			
.857				.1017						
.862									-.5005	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (2) = -.051 BETA (1) = -3.861

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.855		.0280								
.879			.1029							
.910		.0760			.0513			-.4222		
.915				.0765						
.944			.0454							
.950					.0751	.0370	-.1478			
.963				.0428						
.984			.0682							
.994		.1145								

ALPHA (2) = -.007 BETA (2) = .182 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0988	-.0581	-.024	.3674	.6410	.5824	.5446	.5497	-.3021	
.010		-.0899	-.0036		.4816	.5133	.4771	.3880		
.020		-.1154		.0000	.3873	.3807	.3638	.3375	-.1282	
.040			.0165	.1767						
.041	-.1466									
.050					.1866	.1510	.1458	.1410		
.069									-.1998	
.080					.0077					
.081				.0738						
.086			.0694							
.094		-.1365								
.113	-.1297									
.150					-.1742	-.1787	-.1612	-.1375		
.157									-.3568	
.163			.0000							
.177				-.0787						
.229		-.0198								
.246			-.0416							
.247	-.1164									
.250					-.2707	-.3241	-.3279	-.3205		
.274				-.1781						
.295									-.3998	
.362		.0650								
.370			-.1495							
.411					-.3706	-.4477		-.5034		
.442				-.3230						
.454										-.1751
.479	-.0348									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (2) = -.007 BETA (2) = .182

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.887(	.9720	1.0000
X/CW										
.497		-.1104								
.503									-.4338	
.547	-.0188									
.550					-.3759	-.4652				
.565				-.2336						
.600								-.5301		
.633	-.1575									
.637			-.0415							
[illegible]							-.5352			
.670									-.5142	
.700		-.0911				-.2237				
.728										-.3207
.729					-.0984					
.767	-.1981									
.750							-.4473	-.5153		
.760				-.0718						
.775					.0329	-.1496				
.793	.2098									
.799			-.0480							
.809				.0769						
.834		-.0034								
.839			.0608							
.860					.0654	-.0755	-.2541			
.857				.0423						
.862									-.4657	
.865		-.0334								
.879			.0373							
.900		.0135			.0058			-.2216		
.905				.0226						
.919			-.0038							
.950					.0118	.0243	-.1272			
.953				-.0009						
.955			.0143							
.965		.0404								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (2) = -.013 BETA (3) = 4.263 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Cw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1164	-.1556	-.0854	.3180	.5758	.5005	.4622	.4632	-.2182	
.010		-.1912	-.0579		.3998	.4255	.3856	.3032		
.020		-.1988		.0000	.3126	.2993	.2777	.2532	-.1764	
.040			-.0188	.1355						
.041	-.1955									
.050					.1294	.0956	.0830	.0766		
.069									-.2343	
.080					-.0222					
.081				.0440						
.086			.0452							
.094		-.1556								
.113	-.1921									
.150					-.1810	-.2101	-.1987	-.1750		
.157									-.3804	
.163			.0000							
.177				-.0722						
.229		-.0378								
.246			-.0361							
.247	-.1259									
.250					-.2740	-.3256	-.3385	-.3458		
.274				-.1756						
.345									-.4051	
.352		.0620								
.390			-.1494							
.400					-.3575	-.4372		-.5098		
.402				-.3190						
.418										-.2139
.429	-.0071									
.497		-.1186								
.503									-.4369	
.547	-.0202									
.550					-.2428	-.4448				
.565				-.0960						
.600								-.5378		
.633	-.1739									
.637			.0024							
.650							-.5137			
.670									-.5067	
.700		-.0064				-.2044				
.723										-.4244
.725					-.0656					
.727	-.1265									
.750							-.3224	-.3933		
.761				-.0715						
.775					.0350	-.0654				

AMES 11-073(OA148) -140A/B/C/R OR^{B} LEFT WING TOP (XE8U19)

ALPHA (2) = -.013 BETA (3) = 4.263

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2095									
.799			-.0669							
.808				.0281						
.834		-.0295								
.839			.0103							
.850					.0374	-.0559	-.1310			
.857				-.0113						
.862									-.3018	
.865		-.0725								
.873			-.0173							
.880		-.0354			-.0325			-.1605		
.905				-.0242						
.919			-.0556							
.950					-.0392	-.0108	.0136			
.953				-.0459						
.955			-.0467							
.965		-.0303								

ALPHA (3) = 3.859 BETA (1) = -3.873 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.9214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0003	.0011	-.1042	.4005	.7304	.7066	.6842	.6641	.0429	
.010		-.0518	-.1218		.3471	.4433	.4105	.2763		
.020		-.0755		.0000	.2361	.2697	.2561	.2129	-.1297	
.040			-.0936	.0361						
.041	-.0748									
.050					.0307	.0237	.0162	-.0029		
.069									-.1829	
.080					-.1519					
.081				-.0874						
.096			-.0164							
.09[illegible]		-.1329								
.1[illegible]	-.0684									
.140					-.3494	-.3337	-.2837	-.2525		
.157									-.3807	
.163			.0000							
.[illegible]				-.2279						
.229		-.1047								
.248			-.1395							
.247	-.0945									
.300					-.4443	-.4723	-.4496	-.4187		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (3) = 3.859 BETA (1) = -3.873

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.3262						
.345									-.4591	
.362		-.0055								
.380			-.2572							
.400					-.5023	-.5837		-.5828		
.402				-.4228						
.418										-.2233
.429	-.0470									
.497		-.1837								
.503									-.5534	
.547	-.0760									
.550					-.5052	-.6140				
.565				-.4024						
.600								-.5978		
.633	-.2470									
.637			-.3508							
.650							.5992			
.672									-.6773	
.700		-.3266				-.5683				
.723										-.5817
.725					-.1826					
.727	-.2967									
.750							-.4544	-.4805		
.760				-.1474						
.775					-.1881	-.2213				
.793	.0054									
.798			-.1266							
.808				-.0132						
.834		-.0259								
.839			.0690							
.850					-.1347	-.1899	-.3871			
.857				.0285						
.862									-.7308	
.866		-.0283								
.879			.0624							
.900		.0721			-.0767			-.3316		
.905				.0411						
.919			.0363							
.930					.0192	-.1603	-.2996			
.953				.0444						
.955			.0384							
.966		.0434								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (3) = 3.906 BETA (2) = .178 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0278	-.1426	-.2874	.2806	.6372	.6213	.5992	.5774	-.0262	
.010		-.1998	-.2391		.2359	.3455	.3078	.1850		
.020		-.1922		.0000	.1485	.1853	.1694	.1169	-.2047	
.040			-.1416	-.0305						
.041	-.1305									
.050					-.0273	-.0335	-.0485	-.0710		
.069									-.2502	
.090					-.1885					
.091				-.1292						
.096			.0581							
.094		-.2045								
.113	-.1418									
.150					-.3539	-.3586	-.3190	-.2926		
.157									-.4223	
.163			.0000							
.177				-.2236						
.229		-.1032								
.246			-.1458							
.247	-.1544									
.250					-.4289	-.4831	-.4685	-.4469		
.274				-.3038						
.345									-.4878	
.362		-.0174								
.390			-.2478							
.400					-.4760	-.5736		-.5971		
.402				-.4080						
.418										-.3660
.429	-.0515									
.497		-.1948								
.503									-.5701	
.547	-.0855									
.550					-.4892	-.5997				
.565				-.3847						
.600								-.6149		
.633	-.2590									
.637			-.2717							
.650							-.6035			
.670									-.6757	
.700		-.3228				-.3345				
.723										-.7134
.725					-.2143					
.727	-.2967									
.750							-.4455	-.4642		
.761				-.1649						
.775					-.2002	-.2329				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (3) = 3.906 BETA (3) = .178

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1197									
.798			-.1137							
.808				-.0403						
.834		-.0382								
.833			-.0109							
.850					-.1037	-.2272	-.3711			
.857				-.0161						
.862								-.7315		
.865		-.1210								
.879			-.0130							
.900		-.0031			-.0647		-.3123			
.905				-.0149						
.913			-.0135							
.950					-.0074	-.1384	-.3033			
.953				-.0156						
.955			-.0218							
.965		-.0348								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0612	-.3073	-.3729	.1555	.5422	.5284	.5050	.4777	-.1271	
.010		-.3511	-.2749		.1366	.2367	.1952	.0659		
.040		-.3182		.0000	.0664	.0913	.0726	.0113	-.2959	
.040			-.2087	-.0715						
.041	-.1780									
.050					-.0863	-.1009	-.1230	-.1543		
.069									-.3256	
.080					-.2134					
.081				-.1355						
.086			-.1628							
.094		-.2663								
.113	-.2001									
.150					-.3538	-.3928	-.3621	-.3437		
.157									-.4652	
.163			.0000							
.177				-.2200						
.239		-.1088								
.246			-.1268							
.247	-.2012									
.250					-.4099	-.4935	-.4942	-.4809		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WI') (XE8U19)

ALPHA (3) = 3.928 BETA (3) = 4.253

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2817						
.345									-.5312	
.362		-.0019								
.390			-.2265							
.400					-.4660	-.5682		-.6148		
.402				-.3926						
.418										-.5977
.429	-.0450									
.437		-.1897								
.503									-.5970	
.547	-.0806									
.560					-.4593	-.5595				
.565				-.3207						
.600								.6105		
.643	-.2662									
.657			-.2092							
.660							-.6035			
.670									-.6825	
.700		-.2973				-.2798				
.723										-.7449
.725					-.2100					
.727	-.2858									
.750							-.4424	-.4251		
.760				-.1517						
.775					-.1441	-.2392				
.793	.1403									
.798			-.1037							
.808				-.0515						
.834		-.0598								
.839			-.0393							
.853					-.0566	-.2283	-.3388			
.857				-.0671						
.863									-.6958	
.875		-.1370								
.879			-.0623							
.900		-.0515			-.0698			-.2716		
.915				-.0732						
.919			-.0609							
.930					-.0477	-.0777	-.1775			
.933				-.0745						
.945			-.0703							
.965		-.0998								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (+) = 7.851 BETA (I) = -3.877 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	.0541	-.1138	-.3398	.2235	.6368	.6624	.6594	.6123	-.0848	
.010		-.2047	-.3569		.0391	.1940	.1490	.0043		
.020		-.1859		.0000	-.0724	.0167	.0158	-.0667	-.3885	
.040			-.2629	-.2412						
.041	-.0638									
.050					-.2422	-.1948	-.2009	-.2472		
.069									-.4066	
.080					-.3793					
.081				-.3601						
.086			-.1882							
.094		-.1741								
.113	-.0662									
.150					-.5465	-.4933	-.4583	-.4361		
.157									-.5441	
.163			.0000							
.177				-.4602						
.223		-.1677								
.246			-.3033							
.247	-.1017									
.250					-.6251	-.6081	-.5812	-.5513		
.274				-.4312						
.345									-.5778	
.362		-.1307								
.390			-.3415							
.400					-.6539	-.6820		-.5586		
.402				-.4932						
.418										-.5711
.429	-.1475									
.437		-.2789								
.503									-.5863	
.547	-.1549									
.550					-.5614	-.6193				
.567				-.4626						
.600								-.5442		
.633	-.3287									
.637			-.4384							
.650							-.5332			
.670									-.5281	
.700		-.4157				-.5427				
.723										-.5187
.725					-.3235					
.727	-.3595									
.750							-.4937	-.5010		
.760				-.2172						
.775					-.3223	-.4240				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (4) = 7.851 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.1902									
.798			-.1719							
.809				-.1508						
.824		-.0394								
.839			-.0442							
.850					-.2268	-.3709	-.4671			
.857				-.0814						
.862									-.5222	
.865		-.0880								
.879			.0051							
.900		.1086			-.1940			-.4805		
.905				-.0456						
.919			.0460							
.950					-.1213	-.3215	-.3959			
.953				-.0217						
.955			.0624							
.966		0243								

ALPHA (4) = 7.971 BETA (2) = .182 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION (2)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.0030	-.3251	-.5426	-.0262	.4962	.5432	.5423	.4911	-.2650	
.010		-.3994	-.5074		-.0986	.0716	.0241	-.1154		
.020		-.3726		.0000	-.2031	-.0824	-.0926	-.1719	-.5108	
.040			-.4055	-.3617						
.041	-.1273									
.060					-.3234	-.2716	-.2820	-.3296		
.069									-.5110	
.080					-.4216					
.081				-.3213						
.086			-.3132							
.094		-.2527								
.113	-.1491									
.140					-.5462	-.5284	-.5005	-.4847		
.157									-.5690	
.163			.0000							
.177				-.3660						
.229		-.2380								
.246			-.2769							
.247	-.1679									
.250					-.5944	-.6211	-.6046	-.5842		

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA = -.971 BETA = .182

SECTION : LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274										
.345				-.3886						
.362		-.1161							-.5951	
.390			-.3424							
.400										
.402					-.5680	-.6972		-.5927		
.418				-.4576						
.429	-.1475									-.6052
.497		-.2795								
.503										
.547	-.1541								-.5965	
.550										
.565					-.5338	-.6374				
.600				-.4631						
.633	-.3390							-.5695		
.637			-.4616							
.660										
.670							-.5704			
.700		-.4054							-.5495	
.723						-.5175				
.725										
.727	-.3560				-.2287					-.5310
.750										
.760							-.5126	.4861		
.775				-.2046						
.793	-.0188				-.2457	-.3967				
.798			-.1734							
.802				-.1663						
.834		-.0558								
.839			-.0807							
.850										
.857					-.2067	-.3782	-.4793			
.862				-.1445						
.865		-.1508							-.5289	
.879			-.0565							
.900		-.0245								
.905					-.1846					
.919				-.1106				.4541		
.920			-.0077							
.953					-.1161	-.2468	-.4128			
.965				-.0969						
.966			-.0119							
.980		-.0487								

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XEBU19)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0585	-.5318	-.5065	-.1845	.3624	.4193	.4148	.3539	-.4663	
.010		-.4796	-.4866		-.2103	-.0596	-.1141	-.2457		
.020		-.4718		.0000	-.2919	-.1907	-.2105	-.2945	-.6080	
.040			-.4601	-.2243						
.041	-.1749									
.050					-.3885	-.3550	-.3675	-.4266		
.069									-.5997	
.080					-.4633					
.081				-.2690						
.086			-.4097							
.094		-.4962								
.113	-.2085									
.150					-.5517	-.5650	-.5458	-.5431		
.157									-.5982	
.163			.0000							
.177				-.2987						
.229		-.2534								
.245			-.3543							
.247	-.2297									
.250					-.4933	-.6384	-.6356	-.6246		
.274				-.3515						
.345									-.6208	
.362		-.0281								
.390			-.2584							
.400					-.5079	-.6864		-.6424		
.408				-.4588						
.418										-.6155
.409	-.1334									
.447		-.2401								
.504									-.6220	
.547	-.1334									
[illegible]					-.5138	-.6467				
[illegible]				-.4783						
[illegible]								-.6154		
.633	-.3494									
.637			-.4150							
.650							-.6083			
[illegible]									-.5930	
.700		-.3852				-.4944				
[illegible]										-.5788
[illegible]					-.2560					
[illegible]	-.3564									
[illegible]							-.5375	-.5122		
[illegible]				-.2002						
[illegible]					-.2199	-.3007				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U19)

ALPHA (A) = 7.972 BETA (B) = -.053

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.783	.0478									
.788			-.1733							
.808				-.1750						
.814		-.1282								
.839			-.1117							
.850					-.1198	-.2386	-.4815			
.867				-.1458						
.882									-.5807	
.894		-.1955								
.903			-.1115							
.909		-.0781			-.1234			-.4593		
.926				-.1369						
.939			-.0982							
.950					-.1138	-.1321	-.3934			
.963				-.0915						
.982			-.1103							
.995		-.1147								

ALPHA (A) = 11.935 BETA (B) = -3.844 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0524	-.3173	-.4791	.0012	.5116	.5509	.5360	.4436	-.3636	
.010		-.3248	-.4477		-.1859	-.0408	-.1250	-.2782		
.020		-.3735		.0000	-.2989	-.2007	-.2480	-.3405	-.5725	
.040			-.3678	-.4511						
.041	-.0639									
.050					-.4416	-.3847	-.4097	-.4748		
.069									-.5709	
.080					-.5430					
.081				-.5108						
.086			-.2977							
.104		-.2563								
.113	-.0777									
.118					-.6723	-.6249	-.5968	-.6026		
.138									-.5756	
.163			.0000							
.171				-.5897						
.173		-.2263								
.191			-.3767							
.197	-.1042									
.210					-.6995	-.6304	-.5831	-.5682		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU19)

ALPHA (5) = 11.905 BETA (1) = -3.844

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5685						
.345									-.5913	
.362		-.1866								
.390			-.4660							
.400					-.6771	-.6271		-.5995		
.402				-.5702						
.418										-.5887
.429	-.1843									
.497		-.4467								
.503									-.5877	
.547	-.2791									
.550					-.6290	-.6015				
.565				-.5462						
[illegible]								-.5798		
.632	-.4604									
.637			-.5261							
.650							-.5636			
.670									-.5362	
.700		-.5126				-.5711				
.723										-.5210
.725					-.5600					
[illegible]	-.4435									
[illegible]							-.5261	-.5668		
[illegible]				-.3220						
[illegible]					-.5526	-.5415				
[illegible]	-.2030									
[illegible]			-.2374							
[illegible]				-.3482						
[illegible]		-.0794								
[illegible]			-.1898							
[illegible]					-.4717	-.4515	-.5030			
[illegible]				-.2832						
[illegible]									-.5362	
[illegible]		-.1034								
[illegible]			-.1581							
[illegible]		.0415			-.4516			-.5509		
[illegible]				-.2019						
[illegible]			-.1678							
[illegible]					-.3843	-.3781	-.4241			
.953				-.1266						
[illegible]			-.1925							
[illegible]		-.0537								

DATE [illegible]

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

AMES 11-073 CA148) -140A/B/C/P ORB LEFT WING TOP (XEBU19)

ALPHA [illegible] .1.915 BETA (B) = .187 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION [illegible] LEFT WING TOP S.RF DEPENDENT VARIABLE CP

BY BW / X CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.0283	-.4721	-.4676	-.2080	.3330	.3837	.3661	.2713	-.5259	
.010		-.4155	-.4600		-.3405	-.1975	-.2790	-.4287		
.020		-.4001		.0000	-.4355	-.3398	-.3891	-.4712	-.6318	
.040			-.4442	-.4794						
.041	-.1355									
.060					-.5575	-.4963	-.5237	-.5802		
.069									-.6110	
.080					-.6366					
.081				-.4960						
.086			-.4165							
.094		-.4588								
.113	-.1773									
.150					-.7364	-.6904	-.6644	-.6752		
.157									-.6055	
.163			.0000							
.177				-.4825						
.229		-.5276								
.246			-.4591							
.247	-.1687									
.250					-.7187	-.7097	-.6488	-.6700		
.274				-.5084						
.345									-.6089	
.362		-.3763								
.390			-.4448							
.400					-.7022	-.7088		-.6655		
.402				-.5162						
.418										
.429	-.2552									-.6017
.497		-.4019								
.503										
.547	-.2510								-.6100	
.550					-.6775	-.6639				
.555				-.5143						
.600								-.6224		
.633	-.4456									
.637			-.5597							
.650							-.6025			
.670									-.5892	
.700		-.4709				-.6122				
.723										
.775					-.3967					-.5711
.777	-.4287									
.780							-.5408	-.5932		
.790				-.2469						
.775					-.3874	-.5465				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U19)

ALPHA (5) = 11.915 BETA (2) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	-.1377									
.799			-.2461							
808				-.2835						
.83-		-.1389								
.839			-.2071							
.860					-.2857	-.4741	-.4855			
.857				-.2116						
.883									-.5790	
886		-.1801								
.879			-.1375							
.902		-.0732			-.2381			-.5764		
.915				-.2765						
.919			-.0648							
.950					-.2025	-.3537	-.4399			
.963				-.2471						
.965			-.0313							
.985		-.0517								

ALPHA (5) = 11.907 BETA (3) = 4.269 MACH = 1.2483 Q = 600.41 P = 550.41 PT/L = 3.0228

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	-.0947	-.5051	-.5143	-.4308	.1538	.1969	.1948	.0966	-.6344	
.011		-.4944	-.5129		-.4821	-.3463	-.4074	-.5321		
.031		-.4901		.0000	-.5581	-.4771	-.5044	-.5776	-.6202	
.040			-.5179	-.4239						
.041	-.2016									
.051					-.6496	-.5963	-.6095	-.6588		
.060									-.6069	
.082					-.6695					
.101				-.4151						
.102			-.4878							
.1		-.5823								
.1	-.2265									
.171					-.6695	-.7173	-.7066	-.7047		
.1									-.6024	
.183			.0000							
.1				-.4413						
.1		-.6621								
.1			-.4769							
.247	-.2607									
.2					-.6218	-.6955	-.6723	-.6997		

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AMES 11-073(.B/C/R ORB LEFT WING TOP (XE6U19)

ALPHA (5) = 11.907 BETA (3) = 4.269

SECTION (1)LEFT WING TOP SURF DEPENDEN

2Y/BW	.2350	.2990	.3640	.4270	.5340	.7800	.8870	.9720	1.0000
X/CW									
.274				.4575					
.345									
.362		-.3476						-.5981	
.390			-.5478						
.400					-.6218	-.6995			
.402				-.5151			-.6185		
.418									
.429	.2747								-.5898
.497		.3609							
.503									
.547	-.2108							-.6021	
.550					-.5586	-.6544			
.555				-.5303					
.600							-.6052		
.633	-.4094								
.637			-.5051						
.650						-.6226			
.670									
.700		-.4030						-.5862	
.723					-.5982				
.725									-.5683
.727	-.4020				-.2373				
.750									
.760						-.5827	-.5812		
.775				-.2655					
.793	-.0149				-.2744	-.5234			
.798			-.2308						
.808				-.3131					
.834		.2123							
.849			-.1650						
.850					-.2385	-.4882	-.5517		
.857				-.2699					
.862									
.865		-.2287						-.5720	
.879			-.1731						
.900		-.1196			-.2735				
.905				.2474			.5703		
.919			-.1370						
.950					-.2864	-.1347	.4560		
.953				.1838					
.955			-.1242						
.965		-.1112							

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20) (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 = .000
BDFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (1) = -4.047 BETA (1) = -3.843 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2885	-.1180	-.1640	.2606	.6932	.5218	.4762	.4939	-.8132	
.010		-.0573	-.0488		.7138	.6844	.6485	.5742		
.020		-.0507		.0000	.6366	.5926	.5657	.5249	-.1279	
.040			.0325	.4662						
.041	-.1517									
.050					.4314	.3916	.3649	.3383		
.069									-.1907	
.080					.2416					
.081				.3526						
.086			.2380							
.094		-.0163								
.113	-.1173									
.150					.0270	.0098	.0193	-.0050		
.157									-.3511	
.163			.0000							
.177				.0661						
.229		.0252								
.246			.1758							
.247	-.0023									
.250					-.1369	-.2007	-.2199	-.2537		
.274				-.0499						
.345									-.3634	
.362		.2056								
.390			-.0102							
.400					-.0810	-.2621		-.4673		
.402				-.1507						
.418										-.6996
.429	.1132									
.497		-.0042								
.503									-.3995	
.547	.1231									
.550					.0913	-.0471				
.555				.1833						
.600								-.2389		
.633	-.0324									
.637			.2310							
.650							-.1641			
.670									-.1862	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (1) = -4.047 BETA (1) = -3.843

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.2533				-.0556				
.723										-.6490
.725					-.0028					
.727	.2234									
.750							-.0884	-.1109		
.760				-.0599						
.775					.0211	-.0842				
.793	.3538									
.798			-.0467							
.808				.0483						
.934		-.0139								
.839			.0779							
.850					.0089	-.1151	.0158			
.857				.0316						
.862									.0200	
.865		-.0258								
.879			.0405							
.900		.0055			-.0303			.1248		
.905				-.0050						
.919			-.0327							
.950					.0703	.1369	.1534			
.953				.0221						
.955			.0452							
.965		.0804								

ALPHA (1) = -3.971 BETA (2) = .189 MACH = 1.1022 Q = 601.68 P = 707.48 RN/L = 3.1893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2711	-.1193	-.0953	.2762	.5404	.4457	.3910	.4069	-.6917	
.010		-.0946	-.0273		.6529	.6159	.5861	.5266		
.020		-.0830		.0000	.5836	.5428	.5181	.4884	-.2040	
.040			.0474	.4199						
.041	-.2358									
.050					.3938	.3554	.3413	.3262		
.069									-.2476	
.080					.2304					
.081				.3261						
.086			.2187							
.094		-.0421								
.113	-.1809									
.150					.0320	.0222	.0299	.0079		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (1) = -3.971 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157										
.163			.0800						-.3600	
.177				.0994						
.229		.0164								
.246			.1656							
.247	-.0170									
.250										
.274					-.1214	-.1633	-.1754	-.2303		
.345				-.0163						
.362		.1960							-.2833	
.390			-.0054							
.400					.0440	-.0350		-.2930		
.402				-.0469						
.418										
.429	.1100									-.7770
.497		.0259								
.503										
.547	.1273								-.2040	
.550										
.565					.0731	-.0617				
.600				.1695						
.633	.0356							-.3022		
.637			.2112							
.650										
.670							-.1872			
.700		.2419							-.2487	
.723						-.0827				
.725										-.6597
.727	.2188				-.0280					
.750										
.760							-.1358	-.1874		
.775				-.0797						
.793	.3320				-.0239	-.1152				
.798			-.0694							
.808				-.0032						
.834		-.0354								
.839			.0135							
.850					-.0402	-.1673	-.0820			
.857				-.0242						
.862										
.865		-.0835							-.0255	
.879			-.0118							
.900		-.0328								
.905					-.1842			.0344		
.919				-.0538						
			-.0956							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (1) = -3.971 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					-.0531	-.0141	.0712			
.953				-.0819						
.955			-.0291							
.955		.0129								

ALPHA (1) = -3.998 BETA (3) = 4.285 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2711	-.1396	-.0467	.3187	.5016	.3816	.3057	.3085	-.7550	
.010		-.0958	-.0002		.6002	.5504	.5096	.4513		
.020		-.0804		.0000	.5371	.4786	.4502	.4166	-.2985	
.040			.0657	.3986						
.041	-.2985									
.050					.3701	.3175	.2929	.2754		
.059									-.3129	
.080					.2197					
.081				.3149						
.086			.2247							
.094		-.0611								
.113	-.2389									
.150					.0426	.0174	.0161	-.0090		
.157									-.3692	
.165			.0000							
.177				.1270						
.229		.0246								
.246			.1801							
.247	-.0357									
.250					-.0851	-.1581	-.1703	-.2008		
.274				.0168						
.345									-.3210	
.362		.2031								
.390			.0233							
.400					.0340	-.0370		-.2973		
.402				-.0398						
.418										-.4112
.429	.1192									
.497		.0572								
.503									-.3051	
.547	.1419									
.550					.0538	-.0692				
.565				.1484						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (1) = -3.998 BETA (3) = 4.285

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7890	.8870	.9720	1.0000
X/CW										
.600										
.633	.0530							-.3189		
.637			.1878							
.650							-.2044			
.670									-.2223	
.700		.2145				-.1114				
.723										-.3695
.725					.0555					
.727	.1886									
.750							-.1750	-.2244		
.760				.1032						
.775					-.0672	-.1491				
.793	.3086									
.799			-.0928							
.808				.0555						
.834		-.0632								
.839			.0500							
.850					-.0849	-.2127	-.1558			
.857				-.0999						
.862									-.0206	
.865		-.1374								
.879			-.0715							
.900		-.0783			-.1674			.0173		
.905				-.1041						
.919			-.1524							
.950					-.1357	-.1178	-.0092			
.953				-.1469						
.955			-.1138							
.965		-.0704								

ALPHA (2) = -.036 BETA (1) = -3.867 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1491	-.0440	.0078	.4488	.6702	.6113	.5711	.5777	-.3911	
.010		-.0646	.0246		.5563	.5694	.5236	.4046		
.020		-.0973		.0000	.4459	.4181	.3907	.3477	.1598	
.040			.0555	.2883						
.041	-.1522									
.050					.2190	.1612	.1438	.1176		
.069									-.2402	
.080					.0134					

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (2) = -.036 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7808	.8870	.9720	1.0000
X/CW										
.081				.1480						
.086			.1450							
.094		-.0985								
.113	-.1153									
.150					-.2221	-.2548	-.2285	-.2136		
.157									-.4504	
.163			.0000							
.177				-.0747						
.223		-.0218								
.246			.0116							
.247	-.0854									
.250					-.3433	-.4068	-.4224	-.4320		
.274				-.2143						
.345									-.4890	
.387		.1100								
.390			-.1806							
.400					-.4650	-.5560		-.6439		
.402				-.3853						
.418										-.1627
.429	.0610									
.497		-.1004								
.503									-.5414	
.547	.0298									
.550					-.1821	-.4601				
.555				.0233						
.600								-.6214		
.633	-.2019									
.637			.1058							
.650							-.5788			
.670									-.3693	
.700		.1058				-.1396				
.723										-.3864
.725					-.0466					
.727	.0032									
.750							-.1360	.2771		
.760				-.0814						
.775					.0098	-.0701				
.793	.2752									
.798			-.0730							
.808				.0395						
.834		-.0341								
.833			.0552							
.850					.0000	-.0326	.1050			
.857				.0045						
.862									-.1920	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (2) = -.036 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0185								
.879			.0093							
.900		-.0178			-.0877			-.1461		
.905				-.0286						
.919			-.0463							
.950					.0681	.1225	.1861			
.953				.0244						
.955			.0053							
.965		.0338								

ALPHA (2) = -.059 BETA (2) = .183 MACH = 1.1011 Q = 601.17 P = 708.89 RN/L = 3.1906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1712	-.1215	-.0353	.4211	.6130	.5315	.4869	.5102	-.2347	
.010		-.1620	-.0128		.5821	.4843	.4392	.3405		
.020		-.1869		.0000	.3812	.3449	.3173	.2879	-.1575	
.040			.0252	.2359						
.041	-.2276									
.050					.1596	.1087	.0860	.0804		
.069									-.2345	
.080					-.0190					
.081				.1009						
.086			.1174							
.094		-.1113								
.113	-.1869									
.150					-.2296	-.2640	-.2284	-.2203		
.157									-.4404	
.163			.0000							
.177				-.0914						
.229		-.0312								
.246			-.0069							
.247	-.0988									
.250					-.3307	-.3685	-.4130	-.4308		
.274				-.2162						
.345									-.4607	
.362		.0972								
.390			-.1783							
.400					-.4483	-.5271		-.6119		
.402				-.3738						
.419										-.1847
.429	.0486									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (2) = -.059 BETA (2) = .183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1120								
.503									-.5055	
.547	.0081									
.550					-.0441	-.1583				
.565				.0847						
.600								-.5971		
.633	-.2013									
.637			.1317							
.650							-.1736			
.670									-.3288	
.700		.1244				-.1139				
.723										-.4355
.725					-.0481					
.727	.0870									
.750							-.0616	-.1229		
.760				-.0954						
.775					-.0321	.1049				
.793	.2626									
.798			-.0938							
.808				-.0065						
.834		-.0637								
.839			.0105							
.850					-.0438	-.1219	.0720			
.857				-.0392						
.862									-.1975	
.865		-.0601								
.879			-.0330							
.900		-.0582			-.0950			.0929		
.905				.0664						
.919			-.0818							
.950					.0071	.0773	.1373			
.953				-.0716						
.955			-.0621							
.965		-.0380								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (2) = -.052 BETA (3) = 4.261 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.190E

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1906	-.2344	-.0592	.4232	.5830	.4851	.4311	.4264	-.2008	
.010		-.2751	-.0243		.4227	.4154	.3622	.2541		
.020		-.2765		.0000	.3301	.2828	.2460	.1998	-.2240	
.040			.0320	.2171						
.041	-.2865									
.050					.1420	.0564	.0295	.0004		
.069									-.2796	
.080					-.0304					
.081				.1114						
.085			.1092							
.094		-.1134								
.113	-.2465									
.150					-.2053	-.2612	-.2598	-.2656		
.157									-.4714	
.163			.0000							
.177				-.0655						
.229		-.0135								
.246			.0206							
.247	-.0912									
.250					-.3032	-.3682	-.3914	-.4533		
.274				-.1795						
.345									-.4687	
.362		.1155								
.390			-.1516							
.400					-.3942	-.4982		-.6232		
.402				-.3123						
.418										-.2849
.429	.0670									
.497		-.0777								
.503									-.5160	
.547	.0272									
.550					-.0122	-.1076				
.565				.0751						
.600								-.5055		
.633	-.1570									
.637			.1136							
.650							-.1935			
.670									-.3021	
.700		.1245				-.1343				
.723										-.5340
.725					-.0842					
.727	.0873									
.750							-.1462	-.0249		
.760				-.1303						
.775					-.0893	-.1607				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (2) = -.052 BETA (3) = 4.261

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2296									
.798			-.1246							
.808				-.0646						
.834		-.0950								
.839			-.0607							
.850					-.1031	-.1945	-.0109			
.857				-.1038						
.862									-.2231	
.865		-.1248								
.879			-.0903							
.900		-.1094			-.1773			.1191		
.905				-.1311						
.919			-.1440							
.950					-.1433	-.0733	.0905			
.953				-.1515						
.955			-.1357							
.965		-.1248								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0769	-.0766	-.1313	.4632	.7125	.6797	.6697	.6355	.0069	
.010		-.1506	-.1195		.3272	.4011	.3382	.1535		
.020		-.1724		.0000	.2061	.2141	.1745	.0852	-.2419	
.040			-.0599	.0495						
.041	-.1461									
.050					-.0226	-.0585	-.0879	-.1458		
.069										
.080					-.2131				.3141	
.081				-.1088						
.086			-.0086							
.094		-.2239								
.113	-.1248									
.150					-.3881	-.4420	-.4081	-.3954		
.157										
.163			.0000						.5407	
.177				-.2632						
.229		-.0859								
.245			-.1392							
.247	-.1734									
.250					-.4999	-.5725	-.5850	-.5707		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (3) = 3.856 BETA (1) = 3.869

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3666						
.345									-.6351	
.362		.0370								
.390			-.3089							
.400					-.5772	-.7131		-.6666		
.402				-.5027						
.418										
.429	.0044									-.4258
.497		-.2037								
.503										
.547	-.0769								-.7114	
.550										
.565					-.3103	-.6792				
.600				-.2055						
.633	-.3137							-.5294		
.637			-.1300							
.650										
.670							-.5146			
.700		-.1710							-.6891	
.723						-.3638				
.725										-.7816
.727	-.3105				-.1148					
.750										
.760							-.4328	-.3874		
.775				-.0985						
.793	.1826				-.0331	-.1209				
.798			-.1030							
.808				.0766						
.834		-.0479								
.849			.0777							
.850										
.857					.0335	-.0801	-.3515			
.862				.0434						
.865		-.0475							-.5394	
.879			.0360							
.900		.0158								
.905					.0239			-.2618		
.919				.0302						
.950			.0125							
.953					.0581	.0245	-.2402			
.955				.0363						
.965		.0475	.0332							

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (3) = 3.924 BETA (2) = .1[illegible] MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1144	-.2307	-.2519	.3788	.6307	.6009	.5929	.5534	-.0881	
.010		-.2995	-.2010		.2218	.2914	.2310	.0596		
.020		-.3009		.0000	.1151	.1155	.0821	-.0104	-.3350	
.040			-.1126	-.0027						
.041	-.2215									
.050					-.0838	-.1238	-.1536	-.2097		
.069									-.3802	
.080					-.2548					
.081				-.1251						
.086			-.0225							
.094		-.2909								
.113	-.2035									
.150					-.3923	-.4672	-.4389	-.4282		
.157									-.5767	
.163			.0000							
.177				-.2621						
.229		-.0926								
.246			-.1468							
.247	-.2279									
.250					-.4885	-.5719	-.5954	-.5890		
.274				-.3608						
.345									-.6662	
.362		.0290								
.390			-.2991							
.400					-.5527	-.6810		-.7537		
.402				-.4861						
.418										-.5973
.429	.0006									
.497		-.2082								
.503									-.7242	
.547	-.0876									
.550					-.2517	-.6501				
.565				-.1632						
.630								-.5736		
.633	-.3170									
.637			-.1021							
.650							-.5726			
.670									-.6454	
.700		-.1248				-.2008				
.723										-.6517
.725					-.1430					
.727	-.2471									
.750							-.4484	-.3747		
.760				-.1399						
.775					-.0411	-.1313				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (3) = 3.924 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2067									
.798			-.1066							
.808				-.0100						
.834		-.0705								
.839			-.0206							
.850					-.0124	-.0476	-.2580			
.857				-.0380						
.862									-.5696	
.865		-.1227								
.879			-.0360							
.900		-.0452			-.0217			-.2538		
.905				-.0451						
.919			-.0725							
.950					.0220	.0325	-.0632			
.953				-.0245						
.965			-.0573							
.965		-.0688								

ALPHA (3) = 3.921 BETA (3) = 4.251 MACH = 1.1013 Q = 601.26 P = 708.18 RN/L = 3.1838

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1603	-.4315	-.3193	.2808	.5633	.5271	.4930	.4357	-.2737	
.010		-.4789	-.1918		.1358	.1884	.1060	-.0672		
.020		-.4381		.0000	.0438	.0262	-.0264	-.1411	-.4705	
.040			-.1081	-.0281						
.041	-.2836									
.050					-.1156	-.1871	-.2382	-.3069		
.069									-.4840	
.080					-.2661					
.091				-.1244						
.096			.0272							
.094		-.3161								
.113	-.2836									
.150					-.3973	-.4827	-.4879	-.4983		
.157									-.6386	
.163			.0000							
.177				-.2393						
.209		-.0833								
.245			-.1143							
.247	-.2414									
.250					-.4554	-.5904	-.6150	-.6328		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U201)

ALPHA (3) = 3.921 BETA (3) = 4.251

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3153						
.345									-.6981	
.362		.0290								
.390			-.2610							
.400					-.5335	-.6473		-.7727		
.402				-.4321						
.418										-.7278
.429	.0160									
.497		-.1800								
.503									-.6998	
.547	-.0679									
.550					-.2245	-.5691				
.565				-.1458						
.600								-.6571		
.633	-.2807									
.637			-.0481							
.650							-.6266			
.670									-.5891	
.700		-.0328				-.2395				
.723										-.5845
.725					-.1538					
.727	-.1644									
.750							-.2069	-.4109		
.760				-.1551						
.775					-.1048	-.1738				
.793	.1815									
.798			-.1338							
.808				-.1161						
.834		-.1110								
.843			-.1099							
.850					-.1065	-.1526	-.0044			
.857				-.1407						
.862									-.5284	
.865		-.1675								
.879			-.1265							
.900		-.1246			-.1648			-.3334		
.905				-.1568						
.919			-.1568							
.950					-.0953	-.0258	.0914			
.953				-.1649						
.955			-.1634							
.965		-.1753								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U20)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0338	-.2224	-.5180	.2487	.6214	.6241	.5965	.5036	-.2762	
.010		-.3201	-.5194		-.0380	.0863	-.0090	-.2116		
.020		-.3013		.0000	-.1230	-.0984	-.1512	-.2923	-.6537	
.040			-.3766	-.1983						
.041	-.1538									
.050					-.3001	-.3207	-.3791	-.4690		
.069									-.5877	
.080					-.4550					
.081				-.3148						
.086			-.2759							
.094		-.2771								
.113	-.1244									
.150					-.6560	-.6453	-.6393	-.6361		
.157									-.5744	
.163			.0000							
.177				-.4239						
.209		-.2416								
.245			-.2364							
.247	-.1851									
.250					-.6972	-.7702	-.6283	-.5920		
.274				-.4755						
.345									-.5238	
.362		-.0144								
.390			-.3760							
.400					-.7008	-.7049		-.5924		
.402				-.5791						
.418										-.5219
.429	-.0934									
.497		-.2850								
.503									-.5058	
.547	-.1104									
.550					-.5146	-.6332				
.565				-.3896						
.600								-.4912		
.633	-.3943									
.637			-.3419							
.650							-.5225			
.670									-.4618	
.700		-.5053				-.5635				
.723										-.4382
.725					-.2898					
.727	-.4419									
.750							-.4863	-.4618		
.760				-.1391						
.775					-.2640	-.4434				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (4) = 7.863 BETA (1) = -3.864

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1220									
.798			-.1143							
.808				-.0081						
.834		.0245								
.839			.0037							
.850					-.1336	-.3826	-.4514			
.857				.0113						
.862									-.4115	
.865		-.0267								
.879			-.0032							
.900		.0401								
.905					-.0746			-.4215		
.919				-.0053						
.950			-.0061							
.953					-.0061	-.2367	-.3974			
.955				.0189						
.965		.0300	.0302							

ALPHA (4) = 7.865 BETA (2) = .188 MACH = 1.1088 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1044	-.4582	-.6898	.0656	.5033	.6021	.4812	.3867	-.4604	
.010		-.5191	-.5861		-.1319	-.0351	-.1341	-.3202		
.020		-.4820		.0000	-.2185	-.1937	-.2504	-.3835	-.6235	
.040			-.4643	-.2248						
.041	-.2232									
.050					-.3485	-.3845	-.4451	-.5452		
.069									-.6052	
.080					-.4792					
.081				-.3104						
.086			-.3652							
.094		-.3647								
.113	-.2249									
.150										
.157					-.6477	-.6640	-.6693	-.6827		
.163									-.5827	
.177			.0000							
.229		-.2237		-.3865						
.246										
.247	-.2658		-.2676							
.250										
					-.6549	-.7740	-.6923	-.6545		

AMES 11-073(QA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (4) = 7.865 BETA (2) = .180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.4478						
.345									-.5666	
.362		.0036								
.390			-.4043							
.400					-.6621	-.8118		-.6827		
.402				-.5603						
.418										-.5729
.429	-.0581									
.497		-.3029								
.503									-.5607	
.547	-.1256									
.550					-.3963	-.6666				
.565				-.4506						
.600								-.5650		
.633	-.4050									
.637			-.3058							
.670							-.5833			
.670									-.5253	
.700		-.4539				-.5486				
.723										-.4887
.725					-.2137					
.727	-.4271									
.750							-.5235	-.5248		
.760				-.1430						
.775					-.2029	-.3835				
.793	.1046									
.798			-.1289							
.808				-.0706						
.834		-.0706								
.839			-.0306							
.850					-.1001	-.2511	-.4741			
.857				-.0836						
.862									-.4703	
.865		-.1084								
.879			-.0356							
.900		-.0097			-.0770			-.4667		
.905				-.0898						
.919			-.0568							
.950					-.0091	-.0922	-.4339			
.953				-.0760						
.955			-.0534							
.965		-.0743								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (A) = 7.863 BETA (B) = 4.247 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1595	-.6748	-.4461	-.0242	.3749	.3805	.3412	.2323	-.6715	
.010		-.5991	-.3987		-.2552	-.1680	-.2829	-.4646		
.020		-.5758		.0000	-.3210	-.3021	-.3827	-.5197	-.7306	
.040			-.3623	-.1178						
.041	-.2802									
.050					-.3982	-.4733	-.5390	-.6449		
.069									-.6793	
.080					-.4898					
.081				-.1721						
.085			-.2374							
.094		-.6335								
.113	-.3051									
.150					-.5897	-.7003	-.7192	-.7528		
.157									-.6758	
.163			.0000							
.177				-.2830						
.229		-.1417								
.246			-.2447							
.247	-.3169									
.250					-.5766	-.7891	-.8145	-.8186		
.274				-.3837						
.345									-.6639	
.362		.0721								
.390			-.3361							
.400					-.5892	-.8143		-.7978		
.402				-.5125						
.418										-.6595
.429	.0589									
.497		-.2513								
.503									-.8644	
.547	-.0919									
.550					-.4515	-.7151				
.565				-.2823						
.600								-.6694		
.633	-.3774									
.637			-.1815							
.650							-.6411			
.670									-.6459	
.700		-.2774				-.3623				
.723										-.6278
.725					-.1752					
.727	-.3757									
.750							-.5319	-.6309		
.762				-.2121						
.775					-.1149	-.2596				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (4) = 7.863 BETA (3) = 4.247

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1112									
.798			-.1645							
.808				-.1804						
.834		-.1493								
.839			-.1607							
.850					-.1197	-.2081	-.4782			
.857				-.1870						
.862									-.6284	
.865		-.1910								
.879			-.1405							
.900		-.1260			-.1735			-.5773		
.905				-.1535						
.919			-.1453							
.950					-.1070	-.1198	-.4094			
.953				-.1818						
.955			-.1533							
.965		-.1699								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0535	-.4641	-.6466	-.1587	.3737	.3957	.3706	.2571	-.6008	
.010		-.5261	-.5964		-.4399	-.2922	-.4002	-.5674		
.020		-.5116		.0000	-.5493	-.4540	-.3250	-.6234	-.6328	
.040			-.5096	-.6106						
.041	-.1542									
.050					-.6866	-.6310	-.6801	-.7549		
.069									-.5818	
.080					-.7852					
.081				-.6979						
.086			-.4246							
.094		-.3694								
.113	-.1468									
.150					-.8053	-.7471	-.7217	-.7725		
.157									-.5794	
.163			.0000							
.177				-.5837						
.229		-.3238								
.246			-.3732							
.247	-.1948									
.250					-.7879	-.7448	-.7448	-.7665		

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (XEBU20)

ALPHA (S) = 11.903 BETA ( ) = -3.846

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4539						
.345									-.5742	
.362		-.2333								
.390			-.4506							
.400					-.7153	-.7121		-.6033		
.402				-.5866						
.418										-.5648
.429	-.2660									
.497		-.3805								
.503									-.5713	
.547	-.1672									
.560					-.6765	-.6894				
.565				-.4651						
.600								-.5952		
.633	-.4488									
.637			-.4342							
.650							-.6097			
.670									-.5409	
.700		-.5767				-.6474				
.723										-.5255
.725					-.4964					
.727	-.4958									
.750							-.5731	-.5731		
.760				-.2773						
.775					-.5407	-.5757				
.793	.0251									
.798			-.2717							
.808				-.3933						
.834		-.0867								
.839			-.1495							
.850					-.3635	-.4558	-.5434			
.857				-.3732						
.862									-.5074	
.865		-.1480								
.879			-.1822							
.900		-.0365			-.3137			-.5627		
.905				-.3114						
.919			-.1715							
.950					-.2074	-.3729	-.5023			
.953				-.2211						
.955			-.1022							
.965		-.1516								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU20)

ALPHA (5) = 11.911 BETA (2) = .188 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1358	-.6315	-.6110	-.3883	.2050	.2474	.2168	.1096	-.7269	
.010		-.5472	-.5994		-.5708	-.4122	-.5088	.6752		
.020		-.5242		.0000	-.6515	-.5708	-.6318	.7278	-.6660	
.040			-.5791	-.3537						
.041	-.2378									
.050					-.7230	-.7041	-.7568	-.8247		
.069									-.6335	
.080					-.7111					
.081				-.3190						
.086			-.5367							
.094		-.6025								
.113	-.2606									
.150					-.6732	-.8228	-.7885	-.8617		
.157									-.6264	
.163			.0000							
.177				-.3580						
.229		-.6901								
.246			-.4676							
.247	-.2632									
.250					-.6612	-.8063	-.8070	-.6906		
.274				-.5145						
.345									-.6209	
.362		-.1733								
.380			-.5964							
.400					-.7054	-.7600		-.6411		
.402				-.6288						
.418										-.6115
.429	-.2392									
.497		-.3344								
.503									-.6208	
.547	-.1104									
.550					-.6231	-.7218				
.555				-.6109						
.600								-.6378		
.633	-.5011									
.637			-.6490							
.650							-.6629			
.670									-.5946	
.700		-.5377				-.6609				
.723										-.5742
.725					-.3707					
.727	-.5190									
.750							-.6418	-.6186		
.760				-.2433						
.775					-.3838	-.5684				

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (5) = 11.911 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0511									
.798			-.1905							
.808				-.3242						
.834		-.1282								
.839			-.1161							
.850					-.3280	-.4690	-.6116			
.857				-.3452						
.862									-.5603	
.865		-.1398								
.873			-.1052							
.930		-.0446			-.2745			-.6060		
.935										
.919			-.1605		.3355					
.950					-.1767	.2687	-.5526			
.953				-.2980						
.955			-.1626							
.965		-.1351								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.2097	-.6684	-.6566	-.4610	.0896	.1020	.0570	-.0652	-.7995	
.010		-.6442	-.6491		-.6361	-.5301	-.6319	.7776		
.020		-.6376		.0080	-.7039	-.6647	-.7279	.8196	-.7179	
.040			-.6172	-.1542						
.041	-.3255									
.050					-.7412	.7780	-.8391	-.7788		
.059									-.6975	
.080					-.7247					
.081				.2526						
.086			-.5295							
.094		-.7099								
.113	-.3243									
.130					-.6816	-.8611	-.8541	-.7584		
.157									.6847	
.163			.0000							
.177				-.4560						
.220		-.8178								
.245			-.4483							
.247	-.3725									
.250					-.6242	-.8531	-.8365	.7349		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U20)

ALPHA (5) = 11.905 BETA (3) = 4.263

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4526						
.345									-.6762	
.362		-.0018								
.390			-.4451							
.400					-.6397	-.7818		-.7242		
.402				-.5619						
.418										-.6748
.429	-.2038									
.497		-.3122								
.503									-.6783	
.547	-.1122									
.550					-.5284	-.7464				
.565				-.6325						
.600								-.6980		
.633	-.4607									
.637			-.4742							
.650							-.7339			
.670									-.6855	
.700		-.4311				-.6292				
.723										-.6308
.725					-.3102					
.727	-.4733									
.750							-.7161	-.6863		
.760				-.2844						
.775					-.4004	-.5050				
.793	-.0183									
.798			-.2014							
.808				-.3412						
.844		-.1805								
.849			-.2167							
.850					-.3351	-.4113	-.6726			
.857				-.3133						
.862									-.6133	
865		-.2030								
.879			-.1978							
.900		-.1292			-.3645			-.6597		
.905				-.2744						
.919			-.1914							
.950					-.3236	-.2115	-.5751			
.953				-.2998						
.955			-.1768							
.965		-.1630								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TCP (XE8U21) (05 AUG 75)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0480 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = -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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4423	-.0438	-.0930	.1532	.4095	.3191	.2545	.2673	-1.0649	
.010		.0359	.0588		.6096	.5740	.5338	.4356		
.020		.0449		.0000	.5380	.4854	.4520	.3918	-.3968	
.040			.1665	.3848						
.041	-.0355									
.060					.3212	.2646	.2398	.1884	-.4684	
.069										
.080					.1249					
.081				.2635						
.086			.2898							
.094		.0579								
.113	.0444									
.150					-.1028	-.1380	-.1393	-.2017	-.5739	
.157										
.163			.0000							
.177				-.0095						
.229		.1635								
.246			.0728							
.247	.0761									
.250					-.3022	-.3517	-.4056	-.5029		
.274				-.1629					-.5260	
.345										
.352		.1547								
.390			-.1398							
.400					-.2200	-.3463		-.6468		
.402				-.2007						-.6004
.419										
.429	.1632									
.497		-.0862							-.4326	
.503										
.547	.0260				-.1699	-.3281				
.550										
.565				-.0418				-.3392		
.600										
.633	-.1147									
.637			.0091							
.650							-.2086			
.670									-.0514	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (1) = -4.037 BETA (1) = -3.849

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0537				-.1333				
.723										-.5084
.725					-.1400					
.727	.0190									
.750							.0558	.0590		
.760				-.1840						
.775					.0145	-.0579				
.793	.1635									
.799			-.1805							
.808				.0468						
.834		-.1581								
.839			.0510							
.850					.0680	.0360	.0966			
.857				.0357						
.862									.0363	
.865		-.0204								
.879			.0288							
.900		-.0370			.0496			.1119		
.905				.0397						
.919			.0271							
.950					.0575	.1159	.1343			
.953				.0418						
.955			.0304							
.965		.0541								

ALPHA (1) = -4.030 BETA (2) = .192 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4654	-.0041	-.0285	.1602	.3488	.2301	.1572	.1560	-.8653	
.010		.0342	.0723		.5420	.4958	.4529	.3755		
.020		.0337		.0003	.4794	.4236	.3902	.3311	-.4732	
.040			.1447	.3296						
.041	-.1045									
.050					.2825	.2315	.2022	.1527		
.069									-.5251	
.080					.1012					
.091				.2188					-	
.086			.2454							
.094		.0294								
.113	.0256									
.150					-.1004	-.1393	-.1396	-.2128		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU21)

ALPHA (1) = -4.030 BETA (2) = .192

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.5985	
.163			.0000							
.177				-.0199						
.229		.1311								
.246			.0511							
.247	.0536									
.250					-.2799	-.3236	-.3717	-.5146		
.274				-.1571						
.345									-.4910	
.382		.1292								
.390			-.1354							
.400					-.2258	-.3428		-.6266		
.402				-.2072						
.418										-.4733
.429	.1341									
.437		-.0959							-.4727	
.503										
.547	.0056									
.550					-.2107	-.3693				
.565				-.0899						
.600								-.5748		
.633	-.1259									
.637			-.0386							
.650							-.4779			
.670									-.0586	
.700		.0047				-.3281				
.723										-.4356
.725					-.3060					
.727	-.0190									
.750							.0141	.0678		
.760				-.3053						
.775					-.0642	-.1253				
.793	.1085									
.798			-.2575							
.808				-.0511						
.834		-.2459								
.839			-.0474							
.850					.0126	-.0111	.0784			
.857				-.0343						
.862									.0269	
.865		-.1482								
.878			-.0424							
.900		-.1399			.0074			.1014		
.905				-.0134						
.910			-.0339							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (1) = -4.030 BETA (2) = .192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0251	.0867	.1195			
.953				-.0025						
.955			T.0254							
.985		.0020								

ALPHA (1) = -4.042 BETA (3) = 4.289 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4907	.0158	.0213	.1781	.3021	.1577	.0761	.0755	-.7378	
.010		.0308	.0774		.4745	.4244	.3823	.3105		
.020		.0201		.0000	.4193	.3589	.3292	.2720	-.5232	
.040			.1318	.2713						
.041	-.1138									
.050					.2417	.1899	.1660	.1123		
.069									-.5671	
.080					.0815					
.081				.1786						
.085			.2123							
.094		.0132								
.113	-.0036									
.150					-.0943	-.1361	-.1342	-.2223		
.157									-.8113	
.163			.0000							
.177				T.0229						
.229		.1123								
.245			.0376							
.247	.0428									
.250					-.2579	-.3041	-.3590	-.4919		
.274				-.1512						
.345									-.5030	
.362		.1082								
.390			-.1321							
.430					T.2199	-.3329		-.6059		
.432				-.2071						
.438										-.4786
.429	.1126									
.497		-.1020								
.503									-.4909	
.547	-.0067									
.550					-.2340	-.3750				
.566				-.1239						

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (1) = -4.042 BETA (3) = 4.289

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	-.1319							-.6125		
.637			-.0752							
.650										
.670							.5108			
.700		-.0318				-.3892			-.0558	
.723										
.725										-.3394
.727	-.0462				-.3419					
.750										
.760							-.1511	-.0334		
.775				-.3500						
.793	.0630				-.3081	-.4107				
.798			-.3202							
.808				-.3041						
.834		-.3297								
.839			-.3105							
.850					-.0897	-.1290	.0304			
.857				-.1694						
.862										
.855		-.3376							.0249	
.879			-.1763							
.900		-.2823								
.905					-.0519			.0924		
.919				-.0915						
.950			-.1252							
.953					-.0341	.0652	.0901			
.955				-.0557						
.965			-.0757							
		-.0621								

ALPHA (2) = .024 BETA (1) = -3.875 MACH = .89917 Q = 509.08 P = 1058.5 RN/L = 3.5682

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3749	.0408	.0952	.3720	.5455	.4810	.4455	.4488	-.3824	
.010		.0367	.1399		.4520	.4583	.4104	.2555		
.020		.0222		.0000	.3294	.2900	.2540	.1860	-.3146	
.040			.1800	.1940						
.041	-.1616									
.050					.0595	-.0008	-.0297	-.0727		
.069									-.3964	
.030					-.1616					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (2) = .024 BETA (1) = -3.875

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.0248						
.095			.2107							
.094		.0000								
.113	-.0425									
.150					-.3776	-.4460	-.4413	-.4599		
.157									-.6974	
.163			.0000							
.177				-.2942						
.229		.0353								
.246			.1050							
.247	.0181									
.250					-.5486	-.6416	-.6720	-.6857		
.274				-.4108						
.345									-.7476	
.382		.0267								
.386			-.3503							
.403					-.3419	-.5660		-.9523		
.422				-.4536						
.419										-.3383
.429	.0855									
.497		-.2699								
.503									-.8150	
.544	-.1235									
.555					-.2146	-.3898				
.565				-.1050						
.630								-.1947		
.633	-.3079									
.637			-.0383							
.650							-.1064			
.670									-.1661	
.700		-.0152				-.1098				
.723										-.2433
.726					-.1060					
.727	-.0455									
.750							.0616	.0694		
.760				-.1575						
.775					.0254	-.0335				
.793	.1244									
.799			-.1559							
.823				.0494						
.834		-.1589								
.839			.0520							
.850					.0729	.0687	.0988			
.857				.0458						
.862									-.0310	

AMES 11-073(OA148) +140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (2) = .024 BETA (1) = -3.875

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0297								
.879			.0325							
.900		-.0393								
.905				.0419	.0544			.1084		
.919			.0251							
.950					.0544	.1124	.0990			
.953				.0332						
.955			.0273							
.965		.0589								

ALPHA (2) = .031 BETA (2) = .186 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4025	.0109	.0917	.3458	.4953	.4130	.3722	.3698	-.3856	
.010		-.0033	.1183		.3666	.3709	.3227	.1829		
.020		-.0181		.0000	.2510	.2123	.1818	.1163	-.3768	
.040			.1617	.1355						
.041	-.1924									
.050					.0071	-.0550	-.0787	-.1229		
.069									-.4520	
.080					-.1823					
.081				.0013						
.086			.1739							
.094		-.0185								
.113	-.0360									
.150					-.3890	-.4338	-.4452	-.4830		
.157									-.7391	
.163			.0000							
.177				-.2634						
.203		.0772								
.246			-.1204							
.247	.0103									
.250					-.5092	-.6265	-.6771	-.7067		
.274				-.3826						
.345									-.7510	
.362		.0152								
.390			T.3378							
.400					-.3349	-.4388		-.9338		
.402				-.4131						
.418									-.4115	
.429	.0728									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (2) = .031 BETA (2) = .186

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.2606								
.503									-.8055	
.547	-.1269									
.550					-.2623	-.4374				
.565				-.1373						
.600								-.3707		
.633	-.3031									
.637			-.0843							
.650							-.4013			
.670									-.1406	
.700		-.0475				-.2165				
.723										-.2381
.725					-.2791					
.727	-.0801									
.750							.0913	.0744		
.760				-.2713						
.775					-.0458	-.0757				
.793	.0641									
.798			-.2296							
.808				-.0285						
.834		-.2081								
.839			-.0748							
.850					.0129	.0142	.0913			
.857				-.0338						
.862									-.0090	
.865		-.1252								
.879			-.0584							
.900		-.1086			.0167			.1122		
.905			.0012							
.919			-.0264							
.950					.0256	.0877	.1054			
.953				-.0025						
.955			-.0140							
.958		.0044								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (2) = .021 BETA (3) = 4.265 MACH = .89917 Q = 599.08 P = 1058.9 RN/L = 3.5682

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4443	-.0310	.0542	.3130	.4481	.3626	.3194	.3046	-.3514	
.010		-.0403	.0779		.2872	.2888	.2395	.1023		
.020		-.0398		.0000	.1818	.1425	.1057	.0386	-.4175	
.040			.1183	.0947						
.041	-.3411									
.050					-.0291	-.0966	-.1277	-.1853		
.069									-.4911	
.080					-.2006					
.081				-.0291						
.085			.1446							
.094		-.0222								
.113	-.0452									
.150					-.3787	-.4187	-.4532	-.5005		
.157									-.7613	
.163			.0000							
.177				-.2413						
.229		.0703								
.246			-.1245							
.247	.0016									
.250					-.4856	-.6090	-.6687	-.7244		
.274				-.3351						
.345									-.6992	
.362		.0114								
.390			-.2865							
.400					-.3182	-.4393		-.8069		
.402				-.3801						
.418										-.5000
.429	.0590									
.497		-.2478								
.503									-.6178	
.547	-.1251									
.560					-.2833	-.4497				
.565				-.1644						
.600								-.5680		
.633	-.2773									
.647			-.1099							
.650							-.5462			
.670									-.1680	
.730		-.0744				-.4090				
.733										-.2583
.735					-.3531					
.737	-.0993									
.760							-.0542	.0306		
.763				-.3313						
.775					-.3464	-.3835				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (2) = .021 BETA (3) = 4.265

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0297									
.798			-.2881							
.809				-.3258						
.834		-.3043								
.839			-.2815							
.850					-.1085	-.0895	.0470			
.857				-.1392						
.862									-.0010	
.865		-.3610								
.879			-.1820							
.900		-.3335			-.0375			.0987		
.905				.0841						
.919			-.0952							
.950					-.0028	.0568	.0665			
.953				-.0408						
.955			-.0659							
.965		-.0527								

ALPHA (3) = 3.922 BETA (1) = -3.878 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3024	-.0391	.0517	.4041	.6058	.5701	.5434	.4827	-.2133	
.010		-.0910	.0686		.1598	.2072	.0979	-.1417		
.020		-.0965		.0000	.0238	-.0167	-.0919	-.2174	-.5487	
.040			.0999	-.0490						
.041	-.1817									
.050					-.2440	-.3366	-.3948	-.4899		
.069									-.6492	
.080					-.4748					
.088				-.2267						
.098			.0951							
.099		-.0617								
.113	-.1015									
.150					-.7090	-.7451	-.7293	-.7391		
.157									-.9105	
.163			.0000							
.177				-.4722						
.209		.0456								
.245			-.2791							
.247	-.0131									
.253					-.7670	-.9372	-.9768	-.8120		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (3) = 3.922 BETA ( ) = -3.878

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2993	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6021						
.345									-.6721	
.362		-.0760								
.390			-.5487							
.400					-.8539	-.9529		-.6069		
.402				-.7215						
.418										-.7784
.429	.0430									
.497		-.4323								
.503									-.5541	
.547	-.2215									
.550					-.1811	-.3625				
.565				-.1340						
.600								-.5036		
.633	-.5207									
.637			-.0792							
.650							-.4306			
.670									-.3689	
.700		-.0867				-.1547				
.723										-.6788
.725					-.0967					
.727	-.1479									
.750							-.2788	-.3280		
.760				-.0848						
.775					-.0338	-.0941				
.793	.1348									
.798			-.0904							
.808				.0482						
.834		-.1055								
.839			.0615							
.850					.0451	.0182	-.1263			
.857				.0366						
.862									-.2955	
.865		-.0082								
.879			.0522							
.900		-.0105			.0410			-.1784		
.905				.0416						
.919			.0411							
.930					.0597	.0992	.0075			
.953				.0364						
.965			.0406							
.985		.0701								

AMES 11-073(OA148) -140A/B/C/R GRB LEFT WING TOP (XEBU21)

ALPHA (3) = 3.975 BETA (2) = .188 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7890	.8870	.9720	1.0000
X/CW										
.000	-.3621	-.1463	-.0627	.3066	.5187	.4770	.4501	.3812	-.3411	
.010		-.1791	-.0329		.0472	.0890	-.0152	-.2424		
.020		-.1565		.0000	-.0688	-.1152	-.1906	-.3254	-.6514	
.040			.0372	-.1128						
.041	-.3955									
.050										
.060					-.3006	-.4010	-.4619	-.5610		
.080					-.5077				-.7172	
.081				-.2707						
.086			.0453							
.094		-.0813								
.113	-.1174									
.150					-.7107	7653	-.7654	-.7800		
.157									-.9421	
.163			.0000							
.177				-.4863						
.229		.0268								
.246			-.2875							
.247	-.0365									
.260					-.7559	-.9074	-.9749	-.8496		
.274				-.6025						
.345									-.6557	
.362		-.0851								
.380			-.5406							
.400					-.7974	-.9702		-.6559		
.402				-.6978						
.418										-.9845
.429	.0193									
.497		-.4289								
.503									-.5549	
.547	-.2358									
.550					-.2660	-.1904				
.595				-.1893						
.600								-.5019		
.653	-.5264									
.657			-.1374							
.659							-.3982			
.670									-.3240	
.701		-.1300				-.1883				
.725										-.5575
.725					-.1597					
.727	-.1705									
.750							-.2321	-.3285		
.759				-.1691						
.775					-.0718	-.1251				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (3) = 3.975 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0809									
.796			-.1736							
.809				-.0265						
.834		-.1936								
.839			-.0247							
.850					.0164	-.0117	-.0475			
.857				-.0192						
.862									-.2310	
.865		-.1235								
.870			-.0212							
.900		-.0929			.0147			-.1600		
.905				-.0076						
.919			-.0058							
.950					.0321	.0772	.0282			
.953				.0052						
.955			.0001							
.965		.0185								

ALPHA (3) = 3.972 BETA (3) = 4.260 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4300	-.2774	-.1677	.1908	.4256	.3741	.3424	.2542	-.5495	
.010		-.2609	-.0757		-.0679	-.0356	-.1460	.3759		
.020		-.2012		.0000	-.1636	-.2252	-.3089	.4677	-.7953	
.040			.0057	-.1718						
.041	-.5044									
.050					-.3657	-.4757	-.5554	-.6524		
.069									-.8082	
.080					-.5490					
.081				-.2970						
.086			.0142							
.094		-.0972								
.113	-.1171									
.150					-.7197	-.7917	-.8014	-.8329		
.157									-1.0127	
.163			.0000							
.177				-.4869						
.209		-.0080								
.245			-.2733							
.247	-.0405									
.250					-.7310	-.8609	-.9897	-1.0072		

AMES ..-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (3) = 3.972 BETA (3) = 4.260

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/3W	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5729						
.345									-.6864	
.362		-.0986								
.390			-.5197							
.400					-.6816	-.9422		-.9068		
.402				-.6422						
.418										-.6975
.429	.0114									
.497		-.4306								
.503									-.6434	
.547	-.2287									
.550					-.3331	-.4461				
.565				-.2380						
.600								-.5641		
.633	-.4971									
.637			-.1951							
.650							-.3752			
.670									-.4717	
.700		-.1296				-.2802				
.723										-.4514
.725					-.2881					
.737	-.1767									
.750							-.1454	-.3405		
.760				-.2872						
.775					-.1976	-.1783				
.793	.0085									
.798			-.2716							
.808				-.2406						
.834		-.2843								
.839			-.2231							
.850					-.0652	-.0697	.0055			
.857				-.1231						
.862									-.3122	
.865		-.3245								
.879			-.1043							
.900		-.2148			-.0300			-.1605		
.905				-.0696						
.919			-.0672							
.950					-.0109	.0509	.0942			
.953				-.0470						
.955			-.0477							
.965		-.0308								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (A) = 7.905 BETA (B) = -3.870 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2716	-.2950	-.2828	.2065	.4821	.4587	.4159	.2896	-.5875	
.010		-.3812	-.2125		-.2724	-.1844	-.3229	-.5790		
.020		-.3191		.0000	-.3783	-.4042	-.4880	-.6837	-1.0751	
.040			-.1036	-.3834						
.041	-.2163									
.050					-.5934	-.6507	-.7496	-.8821		
.059									-1.0601	
.060					-.7761					
.081				-.5450						
.086			-.0822							
.094		-.1508								
.113	-.1740									
.150					-.9855	-1.0432	-.9333	-.8762		
.157									-1.0278	
.163			.0000							
.177				-.5756						
.203		-.0141								
.246			-.4330							
.247	-.0750									
.250					-1.0101	-1.0439	-.8211	-.6942		
.274				-.7675						
.345									-.6244	
.362		-.1658								
.390			-.6660							
.400					-.8506	-.7409		-.5842		
.402				-.9046						
.418										-.9112
.429	-.0043									
.497		-.5407								
.503									-.5214	
.547	-.3401									
.550					-.4154	-.6387				
.565				-.3059						
.600								-.5170		
.633	-.6885									
.637			-.1269							
.650							-.5749			
.670									-.4598	
.700		-.1703				-.4824				
.723										-.4608
.725					-.2242					
.727	-.2036									
.750							-.5066	-.4460		
.760				-.1533						
.775					-.1727	-.3847				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (4) = 7.906 BETA (1) = -3.870

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1484									
.798			-.1466							
.808				-.0377						
.834		-.1336								
.839			-.0375							
.850					-.0424	-.2920	-.4203			
.857				-.0299						
.862									-.4031	
.866		-.0894								
.879			-.0586							
.900		-.0584			-.0161			-.3963		
.905				-.0163						
.919			-.0648							
.950					.0244	-.1571	-.3549			
.953				-.0023						
.965			-.0351							
.966		.0379								

ALPHA (4) = 8.017 BETA (2) = .186 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3575	-.3837	-.3940	.0347	.3491	.3230	.2806	.1485	-.8430	
.010		-.4747	-.1966		-.4168	-.3285	-.4763	-.7141		
.020		-.3545		.0000	-.4832	-.5234	-.6037	-.7910	-.8435	
.040			-.0786	-.4352						
.041	-.4059									
.050					-.6534	-.7381	-.8358	-.9782		
.060									-.5857	
.080					-.8192					
.081				-.5722						
.086			-.0731							
.094		-.1859								
.113	-.1965									
.150					-.9583	-1.0726	-.9962	-.9854		
.157									-.5828	
.163			.0000							
.177				-.6559						
.229		-.1227								
.245			-.4199							
.247	-.0661									
.250					-.9853	-1.0929	-.9190	-.8795		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (4) = 8.017 BETA (2) = .186

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7340					-.5026	
.345										
.362		-.1804								
.390			-.6613							
.400					-.9810	-.8642		-.6484		
.402				-.8717						-.5364
.418										
.429	-.0081									
.497		-.5519							-.5313	
.503										
.547	-.3508				-.4304	-.6613				
.550				-.2620						
565								-.5666		
.600										
.633	-.7058									
.637			-.1745				-.6023			
.650									-.4850	
.670						-.4993				
.700		-.1726								-.4642
.723										
.725					-.2567					
.727	-.2511						-.5082	-.5297		
.750										
.760				-.2069						
.775					-.2244	-.3749				
.793	.0512									
.798			-.1987							
.808				-.1424						
.834		-.1873								
.839			-.1330							
.850					-.0970	-.2587	-.4240			
.857				-.1052						
.862									-.4423	
.865		-.1816								
.879			-.0898							
.900		-.1457			-.0715			-.4626		
.905				-.0726						
.919			-.0613							
.950					-.0148	-.1067	-.3308			
.953				-.0546						
.955			-.0317							
.965		-.0254								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (4) = 8.014 BETA (3) = 4.257 MACH = .89843 Q = 999.41 P = 1058.5 RN/L = 3.5684

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4433	-.5848	-.2492	-.1311	.1935	.1722	.1147	-.0222	-.7875	
.010		-.3824	-.1743		-.5396	-.4846	-.6554	-.8883		
.020		-.3415		.0000	-.6145	-.6469	-.7873	-.9568	-.7162	
.040			-.1556	-.4028						
.041	-.5291									
.050					-.7087	-.8389	-.9471	-1.0976		
.069									-.6289	
.080					-.8341					
.081				-.4809						
.086			-.1637							
.094		-.3187								
.113	-.2144									
.150					-.9142	-1.1133	-1.0828	-1.0594		
.157									-.5969	
.163			.0000							
.177				-.6055						
.229		-.2424								
.246			-.5148							
.247	-.0859									
.250					-.9166	-1.1003	-.9685	-.9181		
.274				-.7030						
.345									-.5843	
.3[illegible]		-.1153								
.390			-.7080							
.400					-.9161	-.8935		-.6305		
.402				-.8331						
.418										-.5832
.429	-.0291									
.497		-.5454								
.503									-.5814	
.547	-.3474									
.550					-.4100	-.6654				
.565				-.2631						
.600								-.8123		
.633	-.6751									
.637			-.2290							
.650							-.5763			
.670									-.5431	
.700		-.2298				-.4737				
.723										-.4951
.725					-.2548					
.727	-.2654									
.750							-.5313	-.5794		
.760				-.2948						
.775					-.2895	-.3451				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (4) = 8.014 BETA (3) = 4.257

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0167									
.798			-.2371							
.808				-.3365						
.834		-.2382								
.839			-.2423							
.850					-.1474	-.2544	-.4620			
.857				-.2442						
.862									-.4861	
.865		-.2679								
.879			-.1662							
.900		-.2441			-.1355			-.5070		
.905				-.1719						
.919			-.1332							
.950					-.0659	-.1208	-.3622			
.953				-.1201						
.955			-.0829							
.965		-.1123								

ALPHA (5) = 11.899 BETA (1) = -3.861 MACH = .98017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2863	-.6797	-.5503	-.1732	.2272	.2174	.1600	.0103	-.8017	
.010		-.6783	-.2727		-.6933	-.5970	-.7680	-.8960		
.020		-.5836		.0000	-.8228	-.7892	-.9052	-.7623	-.7165	
.040			-.1828	-.6538						
.041	-.2780									
.050					-.9591	-.9978	-1.0566	-.7402		
.069									-.5755	
.080					-1.0511					
.081				-.7402						
.085			-.1771							
.094		-.3483								
.113	-.2660									
.152					-1.1731	-1.0382	-.9437	-.7144		
.157									-.5830	
.163			.0000							
.177				-.7952						
.229		-.2257								
.246			-.5549							
.247	-.1253									
.250					-1.0406	-.9254	-.8395	-.6788		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (5) = 11.899 BETA (1) = 3.861

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8501						
.345									-.5521	
.362		-.3777								
.390			-.7620							
.400					-.8194	-.8107		.6188		
.402				-.8937						
.418										.5384
.429	-.0328									
.497		-.7580								
.503									-.5430	
.547	-.4791									
.550					-.7014	-.6821				
.565				-.4764						
.600								-.5719		
.633	-.8211									
.637			-.3012							
.650							-.6356			
.670									-.5281	
.700		-.2477				-.6386				
.723										-.6849
.725					-.4334					
.727	-.2572									
.750							-.5995	-.5572		
.760				-.2796						
.775					-.4602	-.5646				
.793	.0619									
.798			-.2820							
.808				-.2658						
.819		-.2537								
.823			-.3303							
.840					-.3064	-.5130	-.5714			
.857				-.2436						
.867									-.4700	
.885		-.2385								
.879			-.2417							
.900		-.1576			-.2791			-.5275		
.905				-.2086						
.919			-.1775							
.950					-.2013	-.3941	-.5458			
.953				-.1799						
.955			-.1126							
.965		-.0334								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U21)

ALPHA (5) = 11.956 BETA (2) = .190 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3975	-.7844	-.3350	-.3690	.0568	.0389	-.0183	-.1623	-.8024	
.010		-.5452	-.2650		-.8459	-.7493	-.9033	-.9068		
.020		-.5044		.0000	-.9577	-.9306	-1.0454	-.6876	-.7046	
.040			-.2670	-.5353						
.041	-.4585									
.050					-1.0589	-1.1027	-1.0951	-.6717		
.069									-.6197	
.080					-1.1031					
.081				-.6240						
.086			-.2554							
.094		-.4802								
.113	-.2863									
.150					-1.2117	-1.0218	-1.0238	-.6650		
.157									-.6010	
.163			.0000							
.177				-.7314						
.229		-.5874								
.246			-.5736							
.247	-.1776									
.250					-.9949	-.9230	-.9263	-.6610		
.274				-.8329						
.345									-.5884	
.362		-.2893								
.390			-.7782							
.400					-.8082	-.8252		-.6363		
.402				-.9516						
.418										-.5838
.429	-.0683									
.497		-.7329								
.503									-.5773	
.547	-.4946									
.550					-.6790	-.7178				
.565				-.3850						
.600								-.6138		
.633	-.8395									
.637			-.3426							
.650							-.6587			
.670									-.5545	
.700		-.2464				-.6230				
.723										-.5594
.725					-.4056					
.727	-.2707									
.750							-.6292	-.5924		
.769				-.3216						
.775					-.4414	-.5426				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (5) = 11.956 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0275									
.798			-.3175							
.808				-.4810						
.834		-.2843								
.839			-.4094							
.850					-.2857	-.4967	-.5950			
.857				-.3631						
.862									-.5092	
.865		-.3074								
.879			-.3689							
.900		-.2737			-.2799			-.5635		
.905				-.3236						
.919			-.2644							
.950					-.1940	-.3797	-.5651			
.953				-.2888						
.955			-.1743							
.965		-.1377								

ALPHA (5) = 11.948 BETA (3) = 4.274 MACH = .9007 Q = 600.38 P = 1058.5 RN/L = 3.5727

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5037	-.7429	-.3634	-.5223	-.1112	-.390	-.1967	-.3550	-.7595	
.010		-.6219	-.3373		-.9779	-.8947	-1.0443	-.9683		
.020		-.6071		.0000	-1.0688	-1.0648	-1.1345	-1.0[illegible]7	-.7024	
.040			-.3335	-.4524						
.041	-.6136									
.050					-1.1187	-1.1958	-.8387	-.7029		
.069									-.6473	
.080					-1.0950					
.081				-.5572						
.086			-.3136							
.094		-.5985								
.113	-.2418									
.150					-1.0700	-1.2341	-.7581	-.6877		
.157									-.6279	
.163			.0000							
.177				-.6706						
.229		-.6604								
.245			-.5982							
.247	-.2513									
.250					-1.0017	-1.0189	-.7458	-.6823		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU21)

ALPHA (5) = 11.948 BETA (3) = 4.274

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8102						
.345										
.362		-.3002							-.6148	
.390			-.8107							
.400					-.6524	-.8153				
.402								.6723		
.418				-.9708						
.429	-.1051									-.6249
.497		-.7173								
.503										
.547	-.4794								-.8158	
.560					-.5479	-.7314				
.565				-.3741						
.600								.6480		
.633	-.8417									
.637			-.2317							
.660										
.670							.6980			
.700		-.1896							-.5923	
.723						-.6564				
.725										-.5823
.727	-.2806				-.3625					
.750										
.760							-.6688	-.6233		
.775				-.4433						
.793	.0190				-.5097	-.6271				
.798			-.3247							
.808				-.5154						
.834		-.3169								
.839			-.3813							
.850										
.857					-.3942	-.5272	-.6230			
.862				-.5614						
.865		-.3554							-.6608	
.879			-.4064							
.900		-.3281			-.3327					
.905				-.5235				-.6015		
.919			-.4668							
.950					-.2556	-.3837	-.5847			
.953				-.2661						
.955			-.3261							
.965		-.2362								

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

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. ZQ
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = -11.700 L-ELVN = .000
R-ELVN = .000 MACH = .600

ALPHA (1) = -4.045 BETA (1) = -7.856 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.6340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1533	-.1495	-.2923	-.1202	.1139	.0310	-.0043	.0866	-.9381	
.010		-.0087	.0538		.6052	.6007	.5818	.5224		
.020		.0260		.0000	.5482	.5451	.5198	.4860	-.1232	
.040			.1055	.3627						
.041	.0295									
.050					.3353	.3191	.2989	.2629		
.069									-.1237	
.080					.1407					
.081				.2351						
.086			.2550							
.094		.0557								
.113	.0472									
.150					-.0880	-.0990	-.0951	-.1182		
.157									-.1588	
.163			.0000							
.177				-.0246						
.229		.1478								
.236			.0435							
.247	.0750									
.270					-.2302	-.2719	-.3148	-.3417		
.279				-.1425						
.295									-.1455	
.342		.1050								
.350			-.1105							
.400					-.1704	-.2362		-.3953		
.402				-.1477						
.418										-.8161
.429	.1202									
.447		-.0766								
.503									.1962	
.547	.0008									
.550					-.0880	-.1475				
.565				-.0166						
.600								-.1929		
.633	-.0768									
.637			.0266							
.650							.1265		-.0943	
.670										

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (1) = -4.045 BETA (1) = -7.856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0618				-.0786				
.723										
.725										-.4973
.727	.0405				-.0351					
.750							-.0003	-.0018		
.760				-.0728						
.775					.0208	-.0121				
.793	.1793									
.799			-.0621							
.808				.0695						
.834		-.0448								
.839			.0853							
.850					.0823	.0634	.0622			
.857				.0641						
.862									-.0107	
.865		.0257								
.879			.0600							
.900		.0170			.0521			.0684		
.905				.0483						
.919			.0302							
.950					.0643	.0944	.0984			
.953				.0488						
.955			.0292							
.965		.0484								

ALPHA (1) = -3.970 BETA (2) = -3.843 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.6530

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1565	-.0951	-.2040	-.0491	.0999	-.0123	-.0676	.0049	-.8688	
.010		-.0031	-.0216		.5384	.5260	.5030	.4529		
.020		.0124		.0000	.4875	.4779	.4570	.4160	-.1991	
.040			.0915	.3100						
.041	-.0166									
.060					.2916	.2710	.2544	.2147		
.079									-.1803	
.080					.0994					
.091				.1890						
.096			.2210							
.094		.0238								
.113	.0097									
.150					-.1041	-.1192	-.1189	-.1407		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE6U22)

ALPHA (1) = -3.970 BETA (2) = +3.843

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2029	
.163			.0080							
.177				-.0465						
.229		.1166								
.246			.0178							
.247	.0438									
.250					-.2458	-.2823	-.3212	-.3531		
.274				-.1613						
.345									-.1537	
.362		.0829								
.390			-.1332							
.400					-.1963	-.2541		-.3086		
.402				-.1753						
.418										-.5811
.429	.0973									
.497		-.1053								
.503									-.1941	
.547	-.0253									
.550					-.1251	-.1752				
.565				-.0536						
.600								-.1971		
.633	-.1106									
.637			-.0122							
.650							-.1455			
.670									-.0848	
.700		.0193				-.1029				
.723										-.5068
.725					-.0668					
.727	.0009									
.750							-.0058	-.0091		
.760				-.0999						
.775					-.0059	-.0358				
.793	.1401									
.798			-.0887							
.808				.0344						
.834		-.0790								
.839			.0515							
.850					.0570	.0343	.0587			
.857				.0387						
.862									-.0051	
.865		-.0152								
.879			.0387							
.900		-.0095			.0379			.0726		
.905				.0337						
.919			.0112							

AMES 11-073(OA148) +140A/B/C/R ORG LEFT WING TOP (XE8U22)

ALPHA (1) = -3.970 BETA (2) = -3.843

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0640	.0845	.0924			
.953				.0401						
.955			.0157							
.965		.0256								

ALPHA (1) = -3.957 BETA (3) = .189 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1528	-.0473	-.1011	.0036	.0923	-.0460	-.1346	-.0770	-.8092	
.010		-.0026	-.0004		.4725	.4539	.4312	.3893		
.020		.0003		.0000	.4226	.4102	.3917	.3553	-.2565	
.040			.0806	.2556						
.041	-.0603									
.050					.2372	.2220	.2057	.1835		
.059									-.2299	
.060					.0722					
.081				.1587						
.086			.1887							
.094		-.0021								
.113	-.0207									
.150					-.1208	-.1406	-.1341	-.1582		
.157									-.2209	
.163			.0000							
.177				-.0577						
.209		.0942								
.246			-.0037							
.247	.0258									
.250					-.2593	-.2871	-.3267	-.3500		
.274				-.1776						
.345									-.1636	
.362		.0640								
.390			-.1531							
.400					-.2113	-.2709		-.3167		
.402				-.1983						
.418										-.5144
.429	.0722									
.437		-.1224								
.503									-.1923	
.547	-.0444									
.550					-.1506	-.1992				
.555				-.0933						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (1) = -3.957 BETA (3) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.500								-.1979		
.633	-.1343									
.637			-.0490							
.650							-.1573			
.670									-.0739	
.700		-.0173				-.1190				
.723										-.4985
.725					-.0876					
.727	-.0376									
.750							-.0191	-.0118		
.760				-.1294						
.775					-.0340	-.0616				
.793	.0975									
.798			-.1199							
.808				.0010						
.834		-.1101								
.839			.0188							
.850					.0412	.0165	.0502			
.857				.0159						
.862									-.0002	
.865		-.0544								
.879			.0058							
.900		-.0473			.0203			.0746		
.905				.0118						
.919			-.0084							
.950					.0456	.0751	.0931			
.953				.0238						
.955			-.0023							
.965		.0047								

ALPHA (1) = -3.965 BETA (4) = 4.271 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1625	-.0261	-.0433	.0525	.1050	-.0459	-.1336	-.0897	-.6646	
.010		-.0070	.0205		.4106	.3836	.3569	.3096		
.020		-.0104		.0000	.3628	.3359	.3155	.2783	-.2798	
.040			.0762	.2064						
.041	-.0902									
.050					.1842	.1572	.1425	.1235		
.063									-.2658	
.080					.0307					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (1) = -3.955 BETA (4) = 4.271

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1217						
.086			.1593							
.094		-.0177								
.113	-.0437									
.150					-.1482	-.1642	-.1641	-.1894		
.157									-.2584	
.163			.0000							
.177				-.0748						
.229		.0802								
.246			-.0231							
.247	.0062									
.250					-.2728	-.3078	-.3369	-.3661		
.274				-.1869						
.345									-.1664	
.362		.0507								
.390			-.1623							
.400					-.2433	-.2900		-.3201		
.402				-.2209						
.418										-.3878
.429	.0581									
.497		-.1395								
.503									-.1814	
.547	-.0591									
.550					-.1870	-.2167				
.565				-.1279						
.600								-.2025		
.633	-.1601									
.637			-.0893							
.650							-.1637			
.670									-.0711	
.700		-.0561				-.1312				
.723										-.4147
.725					-.1136					
.727	-.0792									
.750							-.0269	-.0126		
.760				-.1567						
.775					-.0607	-.0755				
.793	.0628									
.799			-.1440							
.809				-.0251						
.834		-.1412								
.833			-.0149							
.950					.0203	-.0012	.0429			
.857				-.0050						
.852									.0096	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (1) = -3.955 BETA (4) = 4.271

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0924								
.879			-.0147							
.900		-.0678			.0071			.0737		
.905				-.0050						
.919			-.0254							
.950					.0420	.0682	.0952			
.963				.0174						
.955			-.0147							
.965		-.0132								

ALPHA (1) = -4.005 BETA (5) = 8.350 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1720	-.0236	.0122	.1108	.1315	-.0330	-.1516	-.0990	-.5661	
.010		-.0181	.0505		.3398	.3146	.2862	.2450		
.020		-.0238		.0000	.2949	.2678	.2464	.2094	-.3147	
.040			.0812	.1677						
.041	-.1160									
.050					.1303	.1059	.0919	.0700		
.059									-.2911	
.080					-.0089					
.081				.0847						
.085			.1432							
.094		-.0303								
.113	-.0595									
.150					-.1607	-.1815	-.1800	-.2092		
.157									-.2659	
.163			.0000							
.177				-.0863						
.229		.0673								
.246			-.0435							
.247	.0023									
.250					-.2823	-.3116	-.3357	-.3590		
.274				-.2004						
.345									-.1747	
.352		.0366								
.390			-.1800							
.400					-.2624	-.3019		-.3142		
.405				-.2396						
.419										
.420	.0472								-.2988	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT W! (XEBU22)

ALPHA (1) = -4.005 BETA (5) = 8.350

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1562								
.503									-.1687	
.547	-.0739									
.550					-.2076	-.2289				
.565				-.1547						
.600								-.1908		
.633	-.1777									
.637			-.1216							
.650							-.1713			
.670									-.0568	
.700		-.0931				-.1329				
.723										-.3233
.725					-.1290					
.727	-.1097									
.750							-.0327	-.0150		
.760				-.1645						
.775					-.0781	-.0851				
.793	.0309									
.799			-.1619							
.808				-.0406						
.834		-.1607								
.839			-.0347							
.850					.0123	-.0138	.0455			
.857				-.0187						
.862									.0261	
.865		-.1124								
.879			-.0319							
.900		-.0810			-.0011			.0810		
.905				-.0157						
.919			-.0430							
.950					.0412	.0660	.0974			
.953				.0087						
.955			-.0195							
.965		-.0199								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (2) = -.025 BETA (1) = -7.896 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0698	.0447	.0538	.2849	.4866	.4578	.4407	.4909	-.1619	
.010		.0716	.1339		.4603	.5001	.4461	.2885		
.020		.0590		.0000	.3308	.3162	.2750	.2191	-.0945	
.040			.1739	.1765						
.041	-.0114									
.050					.0483	-.0050	-.0211	-.0496		
.069									-.1981	
.080					-.1647					
.081				-.0007						
.086			.2079							
.094		.0214								
.113	.0076									
.150					-.3312	-.3891	-.3958	-.3944		
.157									-.3169	
.163			.0000							
.177				-.2413						
.229		.0895								
.246			-.1296							
.247	.0335									
.253					-.4078	-.4887	-.5428	-.5781		
.274				-.3021						
.345									-.3121	
.352		-.0103								
.390			-.2390							
.400					-.2622	-.3410		-.4163		
.402				-.2367						
.418										.0687
.429	.0494									
.497		-.1924								
.503									-.3464	
.547	-.1061									
.550					-.1272	-.1922				
.595				-.0483						
.600								-.2308		
.633	-.1566									
.637			.0058							
.650							-.1484			
.670									-.1795	
.700		.0255				-.0830				
.723										-.1413
.725					-.0385					
.727	.0038									
.750							-.0064	-.0228		
.760				-.0552						
.775					.745	-.0079				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (2) = -.025 BETA (1) = -7.896

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1585									
.798			-.0481							
.808				.0743						
.834		-.0324								
.839			.0918							
.850					.0831	.0756	.0664			
.857				.0742						
.862									-.0191	
.865		.0409								
.879			.0709							
.900		.0302			.0625			.0822		
.905				.0598						
.919			.0464							
.950					.0764	.1129	.1149			
.953				.0616						
.955			.0457							
.965		.0625								

ALPHA (2) = -.014 BETA (2) = -3.863 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8589

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1002	.0295	.0668	.2839	.4574	.4156	.3930	.4258	-.1798	
.010		.0369	.1077		.3774	.4135	.3672	.2091		
.020		.0164		.0000	.2549	.2402	.1974	.1504	-.1582	
.040			.1398	.1154						
.041	-.0548									
.050					-.0106	-.0515	-.0800	-.1202		
.069									-.2461	
.080					-.2011					
.081				-.0367						
.086			.1600							
.094		-.0155								
.113	-.0332									
.150					-.3559	-.4047	-.4229	-.4001		
.157									-.3245	
.163			.0000							
.177				-.2476						
.229		.0612								
.245			-.1555							
.247	.0043									
.250					-.4291	-.4903	-.5511	-.5840		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (2) = +.014 BETA (2) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3212						
.345										
.362		-.0355							-.2966	
.390			-.2614							
.400					-.2930	-.3600		-.4229		
.402				-.2711						
.418										
.429	.0252									-.0934
.497		-.2217								
.503										
.547	-.1323								-.3154	
.550					-.1659	-.2152				
.585				-.0902						
.600								-.2262		
.633	-.1990									
.637			-.0418							
.650							-.1636			
.670										
.700		-.0148							-.1575	
.723						-.1066				
.725										-.1558
.727	-.0401				-.0694					
.750										
.760							-.0186	-.0252		
.775				-.0912						
.793	.1112				-.0066	-.0362				
.798			-.0829							
.808				.0372						
.834		.0734								
.839			.0560							
.850					.0607	.0486	.0567			
.857				.0429						
.862										
.865		-.0072							-.0072	
.879			.0372							
.900		-.0043			.0450			.0829		
.905				.0360						
.919			.0223							
.950					.0679	.0990	.1086			
.953				.0467						
.955			.0256							
.965		.0367								

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AMES 11-073(OA148) T140A/B/C/R ORL LEFT WING TOP (XE8U22)

ALPHA (2) = .070 BETA (3) = .189 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1329	-.0061	.0574	.2732	.4259	.3844	.3462	.3641	-.1964	
.010		-.0147	.0824		.2907	.3328	.2835	.1356		
.020		-.0323		.0000	.1799	.1566	.1214	.0684	-.2037	
.040			.1043	.0585						
.041	-.1025									
.050					-.0595	-.0988	-.1358	-.1613		
.069									-.2867	
.080					-.2423					
.081				-.0754						
.086			.1202							
.094		-.0461								
.113	-.0634									
.150					-.3725	-.4112	-.4331	-.4145		
.157									-.3369	
.163			.0000							
.177				.2644						
.229		.0355								
.246			-.1718							
.247	-.0237									
.250					-.4463	-.5017	-.5405	-.5740		
.274				-.3371						
.345									-.2841	
.362		-.0511								
.390			-.2780							
.400					-.3105	-.3780		-.4164		
.402				-.2977						
.418										-.1195
.429	.0048									
.497		-.2458								
.503									-.2848	
.547	-.1483									
.550					-.2023	-.2448				
.565				-.1329						
.600								-.2212		
.633	-.2214									
.637			-.0885							
.650							-.1713			
.670									-.1312	
.700		-.0568				-.1263				
.723										-.1602
.725					-.0954					
.727	-.0775									
.750							-.0244	.0234		
.762				-.1215						
.775					-.0346	-.0573				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (2) = .070 BETA (3) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0692									
.798			-.1146							
.808				.0015						
.834		-.1096								
.839			.0142							
.850					.0374	.0268	.0499			
.857				.0189						
.862									.0080	
.865		-.0558								
.879			.0087							
.900		-.0390								
.905					.0263			.0846		
.919				.0125						
.950			-.0048							
.953					.0547	.0918	.1074			
.955				.0327						
.965		.0127	.0066							

ALPHA (2) = .063 BETA (4) = 4.250 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1744	-.0499	.0239	.2426	.3897	.3369	.3071	.3163	-.1895	
.010		-.0616	.0494		.2096	.2456	.1842	.0483		
.020		-.0678		.0000	.1090	.0890	.0403	-.0207	-.2570	
.040			.0734	.0165						
.041	-.1389									
.050					-.1102	-.1499	-.1908	-.2260		
.059									-.3183	
.080					-.2597					
.081				-.1032						
.086			.0843							
.094		-.0666								
.113	-.0898									
.150					-.3817	-.4237	-.4290	-.4414		
.157									-.3437	
.163			.0000							
.177				-.2745						
.229		.0237								
.246			-.1864							
.247	-.0348									
.250					-.4476	-.5008	-.5446	-.5878		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (2) = .063 BETA (4) = 4.250

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3378						
.345									-.2677	
.352		-.0651								
.390			-.2873							
.400					-.3330	-.3986		.4137		
.402				-.3145						
.418										-.1691
.429	-.0071									
.497		-.2581								
.503									-.2834	
.547	-.1649									
.550					.2246	-.2605				
.565				-.1682						
.600								.2231		
.633	-.2455									
.637			-.1231							
.650							-.1814			
.670									-.1057	
.700		.0983				-.1307				
.723										-.1754
.725					-.1195					
.727	-.1207									
.750							-.0332	.0181		
.760				-.1497						
.775					-.0622	-.0728				
.793	.0304									
.798			-.1371							
.808				-.0269						
.834		-.1357								
.839			-.0184							
.850					.0191	.0076	.0455			
.857				-.0074						
.862									.0198	
.865		-.0894								
.879			-.0203							
.900		-.0687			.0143			.0864		
.905				-.0076						
.919			.0241							
.950					.0482	.0769	.1015			
.953				.0212						
.965			-.0144							
.985		-.0162								

AMES 11-073(OA148) T140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (2) = .058 BETA (5) = 8.310 MACH = .59678 Q = 694.66 P = 2385.3 RN/L = 4.8568

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.6340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2188	-.1343	-.0421	.1904	.3496	.2892	.2586	.2457	T.2108	
.010		-.1281	T.0015		.1131	.1597	.0915	T.0364		
.020		-.1139		.0000	.0144	.0003	-.0269	-.0979	T.3028	
.040			.0321	-.0451						
.041	-.1743									
.050					-.1653	-.1997	-.2258	-.2718		
.069									-.3384	
.080					-.2980					
.081				-.1354						
.086			.0492							
.094		-.0771								
.113	-.1030									
.150					-.3937	-.4348	-.4325	-.4423		
.157									-.3377	
.163			.0000							
.177				-.2851						
.229		.0100								
.246			-.1934							
.247	-.0407									
.250					-.4541	-.4994	-.5314	-.5551		
.274				-.3424						
.345									T.2395	
.362		-.0707								
.390			-.2912							
.400					-.3478	-.3931		-.4004		
.402				-.3327						
.418										T.2191
.429	-.0171									
.437		-.2605								
.503									-.2360	
.547	-.1766									
.560					-.2541	-.2684				
.565				-.1977						
.600								-.2127		
.633	-.2664									
.637			-.1558							
.650							-.1826			
.670									-.0724	
.700		-.1345				-.1393				
.723										-.1748
.725					-.1427					
.727	-.1500									
.752							-.0370	-.0102		
.760				-.1617						
.775					-.0855	-.0855				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (2) = .058 BETA (5) = 8.310

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0000									
.799			-.1548							
.808				-.0541						
.834		-.1571								
.839			-.0502							
.850					.0812	-.0045	.0441			
.857				-.0298						
.862									.0412	
.865		-.1184								
.879			-.0417							
.900		-.0937			.0029			.0988		
.905				-.0208						
.919			-.0450							
.950					.0444	.0756	.1054			
.953				.0152						
.955			-.0237							
.955		-.0374								

ALPHA (3) = 3.933 BETA (1) = -7.911 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0439	.0493	.1005	.3983	.6049	.5902	.5715	.5071	-.0645	
.010		.0010	.0943		.0776	.1141	-.0106	-.2808		
.020		-.0246		.0080	-.0754	-.1380	-.2187	-.3615	-.4440	
.040			.1019	-.1222						
.041	-.0503									
.050					-.3610	-.4729	-.5344	-.5794		
.069									-.5673	
.080					-.5693					
.081				-.3026						
.085			.0678							
.094		-.0471								
.113	-.0314									
.150					-.6325	-.7453	-.7633	-.7220		
.157									-.6861	
.163			.0000							
.177				-.4752						
.229		.0157								
.246			-.3236							
.247	-.0049									
.250					-.6108	-.7202	-.7902	-.8443		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (3) = 3.933 BETA (1) = -7.911

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7890	.8870	.9720	1.0000
X/CW										
.274				-.4677						
.345									-.6180	
.362		-.1438								
.390			-.3694							
.400					-.3460	-.4336		-.5190		
.402				-.3223						
.418										-.3721
.429	-.0177									
.497		-.3146								
.503									-.6068	
.547	-.2482									
.560					-.1516	-.2291				
.585				-.0722						
.600								-.2903		
.633	-.2451									
.637			-.0231							
.650							-.1668			
.670									-.4522	
.700		-.0135				-.0820				
.723										-.6181
.725					-.0300					
.727	-.0373									
.750							-.0120	-.0558		
.760				-.0310						
.775					.0377	.0010				
.793	.1621									
.798			-.0307							
.809				.0758						
.834		-.0227								
.839			.0927							
.850					.0873	.0885	.0665			
.857				.0801						
.862									-.2367	
.865		.0332								
.879			.0775							
.900		.0524			.0783			.0737		
.905				.0736						
.919			.0610							
.950					.0926	.1311	.1168			
.953				.0751						
.965			.0593							
.985		.0815								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (3) = 3.936 BETA (2) = -3.866 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4278	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1003	-.0388	.0131	.3174	.5280	.5038	.4799	.4040	-.1818	
.010		-.0853	.0121		-.0313	.0178	-.1051	-.3947		
.020		-.0891		.0000	-.1536	-.2176	-.3290	-.4670	-.5286	
.040			.0351	-.1862						
.041	-.1063									
.050					-.4186	-.5200	-.6010	-.6435		
.069									-.6066	
.080					-.5968					
.081				-.3493						
.086			.0117							
.094		-.0879								
.113	-.0776									
.150					-.6441	-.7457	-.7813	-.7400		
.157									-.6782	
.163			.0000							
.177				-.5039						
.229		-.0124								
.246			-.3429							
.247	-.0416									
.250					-.6245	-.7190	-.7997	-.8417		
.274				-.4909						
.345									-.5862	
.352		-.1650								
.390			-.3935							
.403					-.3757	-.4554		-.5262		
.402				-.3612						
.418										-.5305
.429	-.0440									
.497		-.3466								
.503									-.5818	
.547	-.2759									
.550					-.1926	-.2535				
.565				-.1161						
.600								-.2839		
.633	-.2849									
.637			-.0717							
.650							-.1804			
.670									-.4752	
.700		-.0625				-.1045				
.723										-.7174
.725					-.0611					
.727	-.0862									
.750							-.0289	-.0559		
.760				-.0681						
.775					.0022	-.0335				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (3) = 3.936 BETA (2) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1161									
.798			-.0663							
.808				.0366						
.834		-.0687								
.839			.0546							
.850					.0638	.0611	.0560			
.857				.0484						
.862									-.3106	
.865		-.0236								
.879			.0468							
.900		.0122			.0550			.0676		
.905				.0497						
.919			.0333							
.930					.0784	.1094	.1110			
.953				.0593						
.955			.0402							
.965		.0524								

ALPHA (3) = 3.935 BETA (3) = .172 MACH = .59760 Q = 598.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1342	-.1439	-.1022	.2171	.4396	.4180	.3884	.3081	-.2938	
.010		-.1802	-.0768		-.1302	-.0885	-.1993	-.4591		
.020		-.1586		.0000	-.2298	-.3043	-.3832	-.5020	-.5625	
.040			-.0294	-.2434						
.041	-.1500									
.050					-.4609	-.5566	-.6287	-.6564		
.059									-.6209	
.060					-.6104					
.081				-.3740						
.086			-.0337							
.094		-.1150								
.113	-.1090									
.150					- 6439	-.7274	-.7678	-.7296		
.157									-.6506	
.163			.0000							
.177				-.4958						
.209		-.0338								
.245			-.3611							
.247	-.0580									
.250					-.6277	-.7056	-.7770	-.8042		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (3) = 3.935 BETA (3) = .172

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4878						
.345									-.5319	
.362		-.1764								
.390			-.3960							
.400					-.3971	-.4640		-.5086		
.402				-.3814						
.418										-.6512
.429	-.0642									
.497		-.3613								
.503									-.5150	
.547	-.2916									
.550					-.2279	-.2730				
.565				-.1633						
.600								-.2765		
.633	-.3177									
.637			-.1177							
.650							-.1917			
.670									-.3997	
.700		-.1036				-.1141				
.723										-.7508
.725					-.0865					
.727	-.1269									
.750							-.0382	-.0483		
.760				-.0963						
.775					-.0255	-.0501				
.793	.0784									
.798			-.1033							
.808				-.0010						
.834		-.1057								
.839			.0105							
.850					.0466	.0406	.0530			
.857				.0199						
.862									.2758	
.865		-.0782								
.879			.0065							
.900		-.0260			.0390			.0725		
.905				.0224						
.919			.0058							
.927					.0672	.0965	.1095			
.953				.0436						
.955			.0167							
.965		.0256								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (3) = 4.026 BETA (4) = 4.240 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2328	-.2689	-.2248	.1002	.3395	.3085	.2719	.1649	-.4765	
.010		-.2708	-.1479		-.2336	-.2088	-.3543	-.5989		
.020		-.2235		.0000	-.3256	-.4083	-.4954	-.6652	-.6793	
.040			-.0794	-.2978						
.041	-.1923									
.050					-.5069	-.6130	-.6900	-.7241		
.069									-.6669	
.080					-.6303					
.081				-.3874						
.086			-.0751							
.094		-.1365								
.113	-.1385									
.150					-.6359	-.7395	-.7911	-.7374		
.157									-.6653	
.163			.0000							
.177				-.4924						
.229		-.0496								
.246			-.3561							
.247	-.0786									
.250					-.6220	-.7132	-.7744	-.8090		
.274				-.4879						
.345									-.5081	
.362		-.1799								
.390			-.3959							
.400					-.4120	-.4760		-.5125		
.402				-.3874						
.418										-.9026
.429	-.0779									
.497		-.3747								
.503									-.4813	
.547	-.2953									
.550					-.2539	-.2898				
.565				-.1995						
.600								-.2677		
.633	-.3365									
.637			-.1747							
.650							-.1939			
.670									-.3697	
.700		-.1353				-.1318				
.725										-.8689
.725					-.1139					
.727	-.1537									
.740							-.0463	-.0448		
.740				-.1324						
.775					-.0515	-.0707				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (3) = 4.026 BETA (4) = 4.240

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0379									
.798									I	
.808			-.1378							
.834				-.0499						
.839		-.1360								
.850			-.0146							
.857					.0132	.0158	.0470			
.862				-.0214						
.855		-.1009							-.2004	
.879			-.0161							
.900		-.0650								
.905					.0213			.0683		
.919				-.0150						
.950			-.0213							
.953					.0508	.0837	.1039			
.955				.0162						
.955		-.0069	-.0002							

ALPHA (3) = 4.030 BETA (5) = 8.292 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3123	-.4099	-.2480	-.0585	.2128	.1856	.1419	.0296	-.6758	
.010		-.3304	-.1301		-.3732	-.3253	-.4736	-.7106		
.020		-.2525		.0000	-.4381	-.4631	-.5947	-.7438	-.7401	
.040			-.1152	-.3294						
.041	-.2304									
.050					-.5425	-.6524	-.7274	-.7798		
.069					-.6622				-.6793	
.080				-.3931						
.081			-.1275							
.088		-.2314								
.094	-.1700									
.113										
.150					-.6384	-.7305	-.7569	-.7295		
.157									-.6212	
.163			.0000							
.177				-.4622						
.189		-.0356								
.206			-.4302							
.207	-.0831									
.250					-.6169	-.6983	-.7468	-.7734		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (3) = 4.030 BETA (5) = 8.292

SECTION (1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4648						
.345									-.4755	
.362		-.1666								
.390			-.4057							
.400					-.4184	-.4863		-.4913		
.402				-.3973						
.418										-1.1045
.429	-.0741									
.497		-.3738								
503									-.4498	
.547	-.2984									
.550					-.2713	-.3016				
.555				-.2571						
.600								-.2595		
.633	-.3481									
.637			-.1797							
.650							-.2802			
.670									-.3097	
.700		-.1633				-.1411				
.723										-.7503
.725					-.1403					
.727	-.1744									
.750							-.0479	-.0372		
.760				-.1906						
.775					-.1183	-.0808				
.793	-.0075									
.799			-.1527							
.808					-.0705					
.834		-.1500								
.849			-.0527							
.850					-.0083	-.0057	.0326			
.857				-.0309						
.862									-.0798	
.865		-.1331								
.879			-.0437							
.900		-.0866			-.0067			.0672		
.905				-.0157						
.919			-.0404							
.930					.0404	.0717	.0946			
.943				.0167						
.955			-.0160							
.965		-.0371								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 7.901 BETA (1) = -7.896 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0622	-.1312	-.1785	.1833	.4011	.3488	.2658	.0635	-.6769	
010		-.2216	-.1757		-.5579	-.5644	-.8384	-1.2545		
.020		-.2131		.0000	-.6800	-.8170	-1.0123	-1.3290	-1.2887	
.040			-.1351	-.5420						
.041	-.0894									
.050					-.9151	-1.1022	-1.2707	-1.3732		
.069									-1.2371	
.080					-1.0729					
.081				-.6760						
.086			-.1650							
.094		-.1464								
.113	-.0717									
.150					-.9678	-1.1384	-1.2154	-1.1429		
.157									-1.2923	
.163			.0000							
.177				-.7485						
.229		-.0696								
.246			-.5333							
.247	-.0489									
.250					-.7985	-.9217	-1.0561	-1.1527		
.274				-.6213						
.345									-1.0626	
.352		-.2682								
.390			-.4743							
.400					-.4047	-.5196		-.6938		
.402				-.3691						
.418										-1.5059
.429	-.1082									
.497		-.4385								
.503									-.9933	
.547	-.3657									
.550					-.1491	-.2574				
.565				-.1134						
.600								-.3681		
.633	-.3401									
.637			-.0889							
.658							-.1899			
.670									-.8776	
.720		-.0541				-.0838				
.723										1.7830
.725					-.0126					
.727	-.0496									
.750							.0381	-.1228		
.760				-.0554						
.775					.0515	.0044				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 7.901 BETA (1) = -7.896

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2007									
.798			-.0385							
.808				.0278						
.834		-.0261								
.839			.1047							
.850					.0822	.0991	.0427			
.857				.0556						
.862										
.865		.0106							-.5036	
.879			.0917							
.900		.0723								
.905					.0882			.0110		
.919			.0626							
.950			.0711							
.953					.0949	.1398	.0971			
.955				.0777						
.965		.1001	.0725							

ALPHA (4) = 7.913 BETA (2) = -3.861 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8582

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1564	-.2935	-.3720	.0067	.2527	.1907	.0933	-.1268	-.9975	
.010		-.3576	-.3157		-.6963	-.7070	+1.0008	+1.4430		
.020		-.3053		.0000	-.7835	-.9451	-1.1436	-1.4867	-1.4568	
.040			-.2306	-.6106						
.041	-.1550									
.060					-.9674	-1.1762	-1.3359	-1.4509		
.080					-1.0908				-1.2860	
.081				-.7203						
.096			-.2282							
.094		-.1781								
.113	-.1270									
.150					-.9659	-1.1350	-1.2168	-1.1349		
.163			.0000						+1.2907	
.177				-.7548						
.229		-.0933								
.246			-.5471							
.247	-.0948									
.250					-.8856	-.9315	-1.0192	-1.1478		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (4) = 7.913 BETA (2) = -3.861

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6354						
.345									-1.0152	
.362		-.3023								
.390			-.4916							
.400					-.4277	-.5410		-.6810		
.402				-.4035						
.418										-1.8413
.429	-.1275									
.497		-.4950								
.503									-.9273	
.547	-.3930									
.560					-.1879	-.2769				
.565				-.1687						
.600								-.3660		
.633	-.3717									
.637			-.1334							
.650							-.2059			
.670									-.8673	
.700		-.1292				-.1040				
.723										-1.7578
.725					-.0485					
.727	-.1121									
.750							-.0451	-.1180		
.760				-.0950						
.775					.0076	-.0225				
.793	.1353									
.798			-.0915							
.808				.0026						
.834		-.0539								
.839			.0311							
.850					.0460	.0672	.0340			
.857				.0323						
.862									-.5898	
.865		-.0155								
.879			.0352							
.900		.0370			.0405			.0101		
.905				.0317						
.919			.0278							
.950					.0571	.1139	.0896			
.953				.0623						
.955			.0472							
.965		.0694								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 8.049 BETA (3) = .175 MACH = .69758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2651	-.4883	-.5624	-.1834	.0981	.0376	-.0671	-.3050	-1.2707	
.010		-.4895	-.3950		-.8388	-.8679	-1.1511	-1.5578		
.020		-.3909		.0000	-.8742	-1.0433	-1.2470	-1.5951	-1.6429	
.040			-.2422	-.6674						
.041	-.2208									
.050					-1.0142	-1.2078	-1.3477	-1.4753		
.069									-1.3022	
.080					-1.1030					
.081				-.7312						
.086			-.2239							
.094		-.2158								
.113	-.1883									
.150					-.9529	-1.1121	-1.1877	-1.0768		
.157									-1.1689	
.163			.0000							
.177				-.7298						
.229		-.1731								
.246			-.5426							
.247	-.1063									
.250					-.7937	-.9215	-1.0049	-1.1064		
.274				-.6214						
.345									-.9318	
.362		-.3479								
.390			-.5204							
.400					-.4428	-.5458		-.6580		
.402				-.4381						
.418										-2.0906
.419	-.1345									
.497		-.5166								
.503									-.8474	
.547	-.4184									
.550					-.2345	-.2896				
.565				-.2323						
.600								-.3608		
.633	-.4033									
.647			-.2197							
.650							-.2138			
.670									-.8092	
.700		-.1099				-.1186				
.723										-1.6469
.725					-.0981					
.727	-.1504									
.750							-.0598	-.1184		
.760				-.1270						
.775					-.0852	-.0369				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 8.049 BETA (3) = .175

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0654									
.798			-.1242							
.809				-.0431						
.834		-.1061								
.839			.0175							
.850					-.0048	.0258	.0219			
.857				-.0174						
.862									-.7721	
.865		-.0517								
.879			.0274							
.900		-.0170			-.0036			.0111		
.905				-.0319						
.919			.0144							
.950					.0435	.0884	.0821			
.953				-.0065						
.955			.0345							
.965		.0274								

ALPHA (4) = 8.049 BETA (4) = 4.238 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8592

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3494	-.6361	-.5391	-.3489	-.0621	-.1405	-.2703	-.5409	-1.6953	
.010		-.4998	-.2786		-.9476	-1.0148	-1.3095	-1.7493		
.020		-.3507		.0000	-.9622	-1.1574	-1.3739	-1.7980	-1.7584	
.040			-.2444	-.6252						
.041	-.2804									
.050					-1.0202	-1.2381	-1.4170	-1.5806		
.069									-1.3431	
.080					-1.0784					
.081				-.6484						
.086			-.2762							
.094		-.3875								
.113	-.2278									
.150										
.157					-.9112	-1.0815	-1.1325	-1.0994		
.165									-1.1395	
.166			.0000							
.177				-.6636						
.209		-.2279								
.217			-.6293							
.247	-.1131									
.250					-.7724	-.9060	-.9858	-1.0631		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (4) = 8.049 BETA (4) = 4.238

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6264						
.345									-.9127	
.362		-.2595								
.390			-.6814							
.400					-.4512	-.5427		-.6389		
.402				-.4527						
.418										-2.5263
.429	-.1489									
.497		-.4913								
.503									-.8290	
.547	-.4300									
.550					-.3084	-.3004				
.565				-.2635						
.600								-.3532		
.633	-.4188									
.637			-.1933							
.650							-.2229			
.670									-.9739	
.700		-.1565				-.1393				
.723										-1.5455
.725					-.1498					
.727	-.1821									
.750							-.0663	-.1213		
.760				-.2061						
.775					-.1309	-.0839				
.793	.0121									
.798			-.1409							
.808				-.1250						
.824		-.1358								
.839			-.0277							
.850					.0309	-.0294	.0081			
.867				-.0710						
.882									-.8037	
.886		-.1056								
.899			-.0159							
.900		-.0591			.0214			.0110		
.915				-.0399						
.919			-.0241							
.950					.0589	.0516	.0617			
.953				.0025						
.975			-.0028							
.986		-.0151								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 8.046 BETA (5) = 8.297 MACH = .59758 Q = 596.20 R = 2385.1 RN/L = 4.8692

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4580	-.7230	-.3679	-.5026	-.2553	-.3334	-.4644	-.7341	-2.0244	
.010		-.4171	-.3161		+1.0572	-1.1622	-1.4745	-1.8349		
.020		-.4000		.0000	-1.0008	-1.2243	-1.4422	-1.8858	-1.5993	
.040			.3263	-.5163						
.041	-.3884									
.050					-1.0077	-1.2241	-1.4044	-1.5726		
.069									-1.2704	
.080					+1.0219					
.091				-.5818						
.095			-.3567							
.094		-.4214								
.113	-.2173									
.150					-.8511	-1.0340	-1.0861	-1.0538		
.157									-1.0626	
.163			.0000							
.177				-.6190						
.229		-.3197								
.246			-.7890							
.247	-.1446									
.250					-.6996	-.8632	-.9269	-.9950		
.274				-.6124						
.345									-.8226	
.382		-.2356								
.390			-.5461							
.400					-.5067	-.5051		-.6927		
.402				-.5960						
.418										-1.9757
.429	-.1515									
.497		-.4902								
.503									-.6959	
.547	-.4232									
.550					-.3061	-.2980				
.595				-.3892						
.600								-.3275		
.633	-.4221									
.637			-.2074							
.650							-.1973			
.670									-.7590	
.700		-.1872				-.1623				
.723										-1.1274
.725					-.1494					
.727	-.2021									
.750							-.0619	-.1027		
.760				-.2017						
.775					-.1308	-.1244				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (4) = 8.046 BETA (5) = 8.297

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0350									
.798			-.1503							
.808				-.0919						
.834		-.1494								
.839			-.0559							
.850					-.0533	-.0584	.0050			
.857				-.0446						
.862									-.5549	
.865		-.1247								
.879			-.0437							
.900		-.0893			-.0623			.0072		
.905				-.0239						
.919			-.0468							
.950					-.0308	.0564	.0551			
.952				.0191						
.955			-.0260							
.965		-.0460								

ALPHA (5) = 11.963 BETA (1) = -7.860 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1554	-.5093	-.7845	-.3610	-.1176	-.2368	-.3790	-.6721	-1.8699	
.010		-.6099	-.6621		-1.5081	-1.5613	-1.9957	-2.4310		
.020		-.4854		.0000	-1.5086	-1.7744	-2.1433	-2.5463	-2.6351	
.040			-.4931	-1.0738						
.041	-.1530									
.050					-1.6159	-1.9158	-2.2860	-2.5375		
.069									-2.5798	
.080					-1.7251					
.081				-1.1148						
.086			-.4407							
.094		-.2238								
.113	-.1712									
.150					-1.2682	-1.4261	-1.5732	-1.3660		
.157									-1.9983	
.163			.0000							
.177				-.9729						
.223		-.2020								
.246			-.6886							
.247	-.0952									
.270					-.9336	-1.1238	-1.2184	-1.4194		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (5) = 11.963 BETA (1) = -7.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.774				-.7108						
.345									-1.8097	
.362		-.4882								
.390			-.6224							
.400					-.3844	-.5473		-.8098		
.402				-.4806						
.419										-2.2799
.429	-.1954									
.497		-.7304								
.503									-1.7959	
.547	-.5009									
.550					T.1852	-.2310				
.555				-.2364						
.600								-.4869		
.633	-.4332									
.637			-.1345							
.650							-.2167			
.670									-1.2287	
.700		-.1168				-.0827				
.723										-1.7000
.725					-.0775					
.727	-.0674									
.750							-.0560	-.2895		
.760				-.0751						
.775					T.1265	-.0191				
.793	.1865									
.798			-.1395							
.808				.0002						
.834		-.0099								
.839			-.0056							
.850					-.0315	.0334	-.0125			
.857				.0020						
.862									-.9857	
.865		.0622								
.879			.0356							
.900		.1014			-.0289			-.1228		
.905				-.0196						
.919			.0500							
.930					.0196	.1036	.0429			
.953				-.0213						
.955			.0794							
.965		.1237								

AMES 11-073(OA148) -140A/L/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (5) = 11.985 BETA (2) = -3.840 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2752	-.7268	-.8896	-.5897	-.3046	-.4340	-.5953	-.8922	-2.3146	
.010		-.7116	-.5698		-1.6744	-1.7868	-2.1824	-2.6314		
.020		-.5225		.0000	-1.6114	-1.9365	-2.3767	-2.7435	-2.6306	
.040			-.3395	-1.0469						
.041	-.2376									
.050					-1.6364	-1.9983	-2.4331	-2.6481		
.069									-2.5847	
.080					-1.7128					
.081				-1.0450						
.085			-.3654							
.094		-.3810								
.113	-.2310									
.150					-1.2391	-1.4346	-1.3543	+1.5283.		
.157									-2.0105	
.163			.0000							
.177				-.8870						
.200		-.4623								
.205			-.7411							
.247	-.1212									
.250					-.8967	-1.1121	-1.2071	-1.3095		
.274				-.7837						
.345									-1.8395	
.362		-.6145								
.390			-.6189							
.400					-.4630	-.5562		-.8022		
.402				-.5625						
.418										-2.1861
.429	-.2014									
.437		-.6960								
.503									-1.9726	
.547	-.5375									
.550					-.3003	-.2635				
.565				-.1606						
.600								-.4815		
.633	-.4803									
.637			-.2628							
.650							-.2228			
.670									-1.4555	
.700		-.1193				-.1221				
.703										-1.5680
.725					-.1825					
.727	-.1521									
.750							-.0876	+.3257		
.770				-.0837						
.775					-.1955	-.0627				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBL22)

ALPHA (5) = 11.985 BETA (2) = -3.840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.793	.0936									
.798			-.1263							
.808				-.0229						
.834		-.0738								
.839			-.0209							
.850					.0069	-.0126	-.0248			
.867				-.0088						
.882									-1.0814	
.885		-.0124								
.879			-.0010							
.900		.0329			.0282			-.1185		
.905				-.0265						
.919			-.0093							
.950					.0915	.0558	.0339			
.953				-.0095						
.955			.0298							
.985		.0662								

ALPHA (5) = 12.000 BETA (3) = .181 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.4110	-.8999	-.8971	-.7937	-.4960	-.6317	-.8016	-1.0781	-2.5124	
.010		-.6073	-.4445		-1.7755	-1.9265	-2.3099	-2.7648		
.020		-.4755		.0000	-1.6764	-2.0623	-2.5041	-2.8549	-2.1100	
.040			-.4045	-.9202						
.041	-.3651									
.050					-1.5935	-2.0038	-2.5051	-2.6919		
.069									-1.8328	
.080					-1.5690					
.081				-.8677						
.095			-.4632							
.094		-.5215								
.113	-.2370									
.150					-1.1535	-1.4041	-1.4147	-1.5558		
.157									-1.6872	
.183			.0000							
.197				-.8995						
.229		-.6882								
.248			-.8104							
.247	-.1641									
.280					-.8064	-1.0400	-1.1515	-1.1811		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (5) = 12.000 BETA (3) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8039						
.345									-1.6671	
.362		-.5552								
.390			-.7216							
.400					-.5300	-.5084		-.7651		
.402				-.5114						
.418										-1.8861
.429	-.2410									
.497		-.6887								
.503									-1.6683	
.547	-.5521									
.550					-.3960	-.2953				
.566				-.2729						
.600								-.4568		
.633	-.5035									
.637			-.3306							
.650							-.2091			
.673									-1.1899	
.700		-.1464				-.1643				
.723										-1.3539
.725					-.1178					
.727	-.1760									
.750							-.1153	-.2713		
.760				-.1931						
.775					-.0772	-.1605				
.793	.0455									
.798			-.1325							
.808				-.2224						
.934		-.1084								
.939			-.0158							
.950					.0217	-.1068	-.0570			
.957				-.1613						
.982									-.8355	
.995		-.0555								
.979			-.0011							
.991		-.0093			.0296			-.1270		
.995				-.1315						
.919			-.0004							
.991					.0568	-.0184	.0027			
.993				-.0812						
.995			.0220							
.995		.0297								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (5) = 12.027 BETA (4) = 4.252 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
X/CW										
.000	-.5299	-.9851	-.6141	-.9012	-.6813	-.8451	-1.0490	-1.3140	-2.5847	
.010		-.5494	-.4724		-1.8364	-2.1099	-2.5303	-2.6527		
.020		-.5330		.0000	-1.6678	-2.2009	-2.6853	-2.6288	-1.7813	
.040			-.4769	-.7526						
.041	-.5033									
.050					-1.5269	-1.9957	-2.5554	-2.4030		
.069									-1.6824	
.080					-1.4506					
.081				-.8186						
.086			-.5058							
.094		-.5743								
.113	-.2588									
.150					-1.0274	-1.3374	-1.3938	-1.7908		
.157									-1.6176	
.163			.0000							
.177				-.8388						
.229		-.7057								
.246			-.8743							
.247	-.2121									
.250					-.8150	-.9702	-1.1057	-1.1938		
.274				-.7699						
.345									-1.4629	
.362		-.5078								
.390			-.8554							
.400					-.5996	-.5325		-.6716		
.402				-.6328						
.418										-1.3713
.429	-.2524									
.497		-.6369								
.503									-1.3924	
.547	-.5367									
.550					-.3392	-.3741				
.565				-.5235						
.600								-.3371		
.633	-.5180									
.637			-.2655							
.650							-.2521			
.670									-1.0580	
.700		-.1815				-.2347				
.723										-1.0643
.725					-.1682					
.727	-.2019									
.750							-.2111	-.1824		
.760				-.2291						
.775					-.1897	-.1540				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (5) = 12.027 BETA (4) = 4.252

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0022									
.798			-.1431							
.808				-.1791						
.834		-.1364								
.859			-.0370							
.850					-.1456	-.0634	-.1440			
.857				-.0942						
.862									-.7384	
.865		-.1024								
.879			-.0221							
.900		-.0568								
.905					-.1091			-.1169		
.919			-.0204	-.0537						
.950					-.0691	.0384	-.0600			
.953				.0007						
.955			.0073							
.965		-.0138								

ALPHA (5) = 12.070 BETA (5) = 8.324 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/CW										
.000	-.6907	-1.0977	-.5571	-.9846	-.9076	-1.1100	-1.2870	-1.5460	-1.9480	
.010		-.6082	-.5274		-1.8769	-2.2708	-2.7087	-2.4099		
.020		-.6139		.0000	-1.6347	-2.3504	-2.8276	-2.4133	-1.5158	
.040			-.5348	-.7542						
.041	-.7066									
.050					-1.4085	-1.8593	-2.6906	-2.1449		
.060									-1.4270	
.080					-1.2744					
.081				-.7929						
.085			-.5804							
.094		-.6391								
.113	-.3435									
.150										
.157					-.9351	-1.2330	-1.3460	-1.9103		
.163			.0000						-1.3392	
.177				-.8041						
.229		-.8507								
.245			-1.0231							
.247	-.2669									
.250					-.8277	-.8630	-1.0362	-1.4083		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U22)

ALPHA (S) = 12.070 BETA (S) = 8.324

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Sw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.8010						
.345										
.362		-.4228							-1.1814	
.390			-.7491							
.400										
.402					-.5523	-.5851		-.6986		
.418				-.8110						
.429	-.2520									-1.1197
.497		-.6386								
.503										
.547	-.5354								-1.1701	
.580					-.4163	-.4409				
.586				-.5509						
.600										
.633	-.5107							-.3334		
.657			-.2908							
.659							-.3246			
.670										
.700		-.2222				-.2787			-.9288	
.723										-.8034
.726					-.2863					
.727	-.2240									
.750							-.2812	-.1788		
.760				-.2242						
.775					-.3978	-.1421				
.793	-.0506									
.798			-.1642							
.808				-.1563						
.834		-.1630								
.839			-.0938							
.850					-.2607	-.0759	-.1884			
.857				-.1012						
.862										
.885		-.1442							-.6327	
.879			-.0753							
.900		-.0988								
.905				-.0565	-.2658			-.1076		
.919			-.0568							
.922										
.953				-.0042	-.1797	-.0125	-.0716			
.965			-.0217							
.955		-.0443								

AMES 11-073(OA148) -140A/B4C/R ORB LEFT WING TOP (XEBU23) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 674.8000 IN. YMRP = .0000 IN. YO
BREF = 956.0000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.400

ALPHA (1) = -3.999 BETA (1) = -3.856 MACH = 1.3924 Q = 598.36 P = 440.89 RN/L = 2.9021

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7880	.8878	.9720	1.0000
X/CW										
.000	-.1363	-.0978	-.1032	.2884	.7014	.6489	.6132	.6287	-.3187	
.010		-.0346	-.0011		.7480	.7378	.6976	.6261		
.020		-.0243		.0000	.6663	.6358	.6110	.5844	.0165	
.040			.0512	.3878						
.041	-.0516									
.050					.4597	.4277	.4154	.4083		
.069									-.0389	
.080					.2773					
.081				.2989						
.086			.1649							
.094		-.0222								
.113	-.0313									
.150					.0486	.0573	.0931	.1225		
.157									-.1722	
.163			.0000							
.177				.1087						
.229		.0558								
.246			.1010							
.247	-.0313									
.250					-.0862	-.0944	-.0826	-.0851		
.274				-.0231						
.345									-.2087	
.362		.1386								
.390			-.0152							
.400					-.2099	-.2529		.2812		
.402				-.1817						
.418										-.3863
.429	.0512									
.497		-.0007								
.503									-.2474	
.547	.0686									
.550					-.2615	-.2975				
.565				-.1807						
.600								-.3591		
.633	-.0342									
.637			-.1502							
.650							-.3545			
.670									-.3288	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (1) = -3.999 BETA (1) = -3.856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.1262				-.3129				
.723										-.3743
.725					-.0457					
.727	-.1046									
.750							-.3392	-.3470		
.750				.0003						
.775					.1059	-.1158				
.793	.2447									
.799			.0556							
.808				.2168						
.934		.1152								
.839			.2077							
.850					.1723	-.0263	-.3093			
.857				.1811						
.962									.2748	
.865		.0890								
.879			.1612							
.900		.1619			.1471			.2604		
.905				.1685						
.919			.1333							
.950					.1800	.1145	-.1826			
.953				.1375						
.955			.1279							
.965		.2187								

ALPHA (1) = -3.926 BETA (2) = .190 MACH = 1.3924 Q = 598.36 P = 440.89 RN/L = 2.9021

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1594	-.0753	-.0603	.2540	.6290	.5635	.5190	.5327	.3791	
.010		-.0523	-.0052		.6562	.6435	.6098	.5398		
.020		-.0624		.0000	.5817	.5497	.5279	.5040	.0668	
.040			.0286	.3090						
.041	-.1104									
.050					.3913	.3616	.3450	.3396		
.069									-.1082	
.090					.2180					
.081				.2327						
.086			.1235							
.094		-.0495								
.113	-.0934									
.150					.0242	.0295	.0574	.0878		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (1) = -3.926 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2243	
.163			.0000							
.177				.0772						
.229		.0294								
.246			.0645							
.247	-.0566									
.250					-.0967	-.1011	-.1082	-.1110		
.274				-.0333						
.345									-.2475	
.362		.1106								
.390			-.0259							
.400					-.2074	-.2516		-.2917		
.402				-.1883						
.418										-.4460
.429	.0263									
.497		-.0323								
.503									-.2733	
.547	.0432									
.550					.2521	-.2832				
.565				-.1726						
.600								-.3684		
.633	-.0648									
.637			-.0515							
.650							-.3422			
.670									-.3349	
.700		-.0822				-.2753				
.723										-.4384
.725					-.0168					
.727	-.1015									
.750							- 3259	-.3682		
.760				.0310						
.779					.0951	-.0277				
.793	.2909									
.798			.0467							
.808				.1451						
.834		.0822								
.839			.1381							
.850					.1699	.0081	-.2780			
.857				.1227						
.862									-.2797	
.865		.0184								
.879			.0947							
.900		.1072			.1184			-.2690		
.905				.1068						
.919			.0839							

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (1) = -3.926 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.1041	.1126	-.0541			
.953				.0972						
.955			.0673							
.965		.1592								

ALPHA (1) = -3.986 BETA (3) = 4.279 MACH = 1.3924 Q = 598.36 P = 440.89 RN/L = 2.8021

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1655	-.0820	-.0293	.2512	.5584	.4772	.4267	.4294	-.4302	
.010		-.0868	-.0034		.5700	.5489	.5132	.4469		
.020		-.1034		.0000	.4976	.4593	.4425	.4201	-.1474	
.040			.0224	.2607						
.041	-.1603									
.050					.3291	.2889	.2746	.2747		
.069									-.1754	
.080					.1772					
.081				.1962						
.086			.1013							
.094		-.0683								
.113	-.1489									
.150					.0050	-.0024	.0178	.0425		
.157									-.2714	
.163			.0000							
.177				.0614						
.229		.0151								
.246			.0450							
.247	-.0672									
.250					-.1097	-.1194	-.1258	-.1367		
.274				-.0305						
.345									- 2826	
.362		.1053								
.390			-.0301							
.400					-.2162	-.2557		-.3061		
.422				-.1864						
.418										r.4935
.429	.0243									
.497		-.0426								
.503									-.3049	
.507	.0907									
.560					-.2483	-.2917				
.565				-.1569						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (1) = -3.986 BETA (3) = 4.279

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3776		
.633	-.0878									
.637			.0269							
.650							-.3354			
.670									-.3446	
.700		-.0281				-.1480				
.723										-.4852
.725					.0123					
.727	-.0982									
.750							-.3242	-.3634		
.760				.0319						
.775					.0987	.0011				
.793	.2977									
.798			.0352							
.808				.1230						
.834		.0740								
.839			.1058							
.850					.1453	.0333	-.1170			
.857				.0854						
.862									-.2857	
.865		-.0034								
.873			.0552							
.900		.0716			.0832			-.2327		
.905				.0587						
.919			.0431							
.950					.0625	.0912	.0182			
.953				.0595						
.970			.0253							
.980		.1034								

ALPHA (2) = .006 BETA (1) = -3.877 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0367	.0163	.0126	.4043	.7568	.7089	.6782	.6881	-.1498	
.010		.0194	.0309		.6101	.6436	.6046	.5112		
.020		-.0018		.0000	.5043	.5072	.4849	.4580	.0113	
.040			.0538	.2398						
.041	-.0374									
.050					2876	.2731	.2623	.2613		
.069									-.0598	
.080					.1140					

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (2) = .036 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C										
.081				.1209						
.096			.1127							
.094		-.0547								
.113	-.0360									
.150					-.0867	-.0777	.0423	-.0080		
.157										
.163			.0000						-.2172	
.177				-.0196						
.229		-.0035								
.245			-.0009							
.247	-.0570									
.250					-.2282	-.2278	-.2119	-.1976		
.274				-.14.						
.345										
.362		.0661							-.2742	
.390			-.1199							
.403					-.3277	-.3706		-.3758		
.402				-.2741						
.419										
.429	.0090									-.1781
.437		-.0814								
.503										
.547	.0048								-.3250	
.550					-.3584	-.4033				
.565				-.2748						
.600								-.4196		
.623	-.1185									
.637			-.2309							
.650							-.4465			
.670									-.4125	
.700		-.1979				-.4061				
.723										-.2193
.745					-.1904					
.727	-.1723									
.750							-.4489	-.4292		
.760				-.1123						
.775					-.0761	-.2380				
.793	.0291									
.799			-.0735							
.819				.0648						
.834		.0234								
.839			.1254							
.850					-.0153	-.1927	-.4106			
.857				.1132						
.862									-.3958	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (2) = .006 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		.0189								
.879			.1123							
.900		.1030			.0280			-.3510		
.905				.1133						
.919			.0911							
.950					.0823	-.1555	-.2017			
.953				.1056						
.955			.0928							
.965		.1446								

ALPHA (2) = .011 BETA (2) = .183 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9068

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0516	-.0248	-.0285	.3517	.6655	.6139	.5860	.5895	-.1998	
.010		-.0477	-.0112		.4931	.5445	.5094	.5239		
.020		-.0669		.0000	.4038	.4151	.3984	.3734	-.0599	
.040			.0128	.1694						
.041	-.0924									
.050					.2168	.2060	.1956	.1945		
.069									-.1211	
.080					.0630					
.081				.0645						
.086			.0687							
.094		-.1129								
.113	-.1016									
.150					-.1165	-.1107	-.0821	-.0450		
.157									-.2594	
.163			.0000							
.177				-.0517						
.229		-.0267								
.246			-.0270							
.247	-.1052									
.250					-.2350	-.2460	-.2365	-.2201		
.274				-.1549						
.345									-.3025	
.352		.0381								
.390			-.1272							
.400					-.3115	-.3634		-.3888		
.402				-.2716						
.419										
.429	-.0128								-.1946	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (2) = .011 BETA (2) = .183

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1043								
.503										
.547	-.0169								-.3418	
.550					-.3429	-.3924				
.565				-.2716						
.600								.4314		
.633	-.1505									
.637			-.2248							
.650							-.4400			
.670									-.4069	
.700		-.1970				-.3782				
.723										-.2302
.725					-.1363					
.727	-.1720									
.750										
.760				-.1027			-.4223	-.4360		
.775					-.0737	-.1792				
.793	.1262									
.798			-.0501							
.808				.0406						
.834		.0159								
.838			.0535							
.850					.0071	-.1595	-.3653			
.857				.0670						
.862									-.3704	
.865		-.0367								
.879			.0513							
.900		.0278			.0419			-.3559		
.905				.0630						
.919			.0346							
.950					.0729	-.0619	-.1669			
.953				.0528						
.955			.0351							
.965		.0639								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (2) = .023 BETA (3) = 4.256 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9065

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0681	-.1019	-.0915	.2909	.5802	.5313	.4854	.4890	-.2094	
.010		-.1351	-.0645		.3835	.4380	.4012	.3207		
.020		-.1427		.0000	.3100	.3180	.3012	.2820	-.1263	
.040			-.0218	.1153						
.041	-.1334									
.050										
.069					.1511	.1320	.1140	.1196		
.080									-.1797	
.081					.0122					
.086				.0361						
.094			.0334							
.095		-.1615								
.113	-.1591									
.150										
.157					-.1364	-.1499	-.1238	-.0934		
.163			.0000						-.3014	
.177				-.0702						
.229		-.0340								
.246			-.0373							
.247	-.1351									
.250										
.274					-.2304	-.2704	-.2636	-.2540		
.345				-.1480						
.352		.0402							-.3256	
.390			-.1250							
.400										
.402					-.3078	-.3611		-.4102		
.418				-.2643						
.429	-.0163									-.1570
.497		-.1095								
.503										
.547	-.0208								-.3534	
.550										
.565					-.3423	-.3850				
.600				-.2631						
.633	-.1690							-.4512		
.637			-.1591							
.650										
.670							-.4317			
.700		-.1772							-.4057	
.723						-.3238				
.725										-.3050
.727	-.1739				-.1381					
.750										
.769							-.4148	-.4449		
.775				-.0871						
					-.0645	-.1685				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (2) = .023 BETA (3) = 4.256

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1679									
.798			-.0431							
.808				.0187						
.834		.0012								
.839			.0206							
.850					.0184	-.1251	-.2515			
.857				.0267						
.862									-.3648	
.865		-.0639								
.879			.0011							
.900		-.0116			.0336			-.3358		
.905				.0164						
.919			-.0091							
.950					.0404	-.0187	-.1685			
.953				.0146						
.955			-.0070							
.955		.0015								

ALPHA (3) = 3.926 BETA (1) = -3.879 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0502	.0277	-.0406	.3823	.7504	.7393	.7154	.7030	.0726	
.010		-.0177	-.0598		.3855	.4963	.4601	.3498		
.020		-.0351		.0000	.2824	.3708	.3218	.2831	-.0533	
.040			-.0472	.0407						
.041	-.0233									
.050					.0841	.1045	.0982	.0900		
.069									-.1004	
.080					-.0774					
.081				-.0634						
.086			-.0095							
.094		-.0835								
.113	-.0402									
.150					-.2806	-.2331	-.1931	-.1483		
.157									-.2742	
.163			.0000							
.177				-.1918						
.229		-.0845								
.246			-.1268							
.247	-.0631									
.250					-.3536	-.3652	-.3371	-.3056		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (3) = 3.926 BETA (1) = -3.879

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2783						
.345									-.3430	
.362		-.0248								
.390			-.2225							
.400					-.4348	-.4763		-.4552		
.402				-.3619						
.418										-.1330
.429	-.0381									
.497		-.1625								
.503									-.4178	
.547	-.0661									
.550					-.4471	-.5113				
.565				-.3572						
.600								-.4817		
.633	-.2115									
.637			-.3068							
.650							-.4983			
.670									-.5304	
.700		-.2742				-.5044				
.723										-.4210
.725					-.2534					
727	-.2-23									
.750							-.5274	-.4780		
.760				-.1718						
.773					-.2134	-.3508				
.793	-.1696									
.798			-.1650							
.808				-.1130						
.834		-.0655								
.839			-.0236							
.850					-.1858	-.2525	-.4895			
.857				-.0464						
.862									-.5866	
.865		-.0646								
.879			.0368							
.900		.0593			-.1682			-.4223		
.905				.0038						
.919			.0530							
.950					-.1042	-.1910	-.2634			
.953				.0483						
.965			.0579							
.955		.0661								

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (3) = 3.958 BETA (2) = .193 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION : 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0242	-.0781	-.2019	.2644	.6458	.6411	.6225	.5986	.0213	
.010		-.1302	-.2009		.2677	.3827	.3537	.2[illegible]9		
.020		-.1328		.0000	.1784	.2353	.2306	.1904	-.1199	
.040			-.1526	-.0234						
.041	-.0718									
.050					.0111	.0301	.0275	.0166		
.069									-.1611	
.080					-.1315					
.081				-.1068						
.086			-.0727							
.094		-.1452								
.113	-.0996									
.150					-.3154	-.2737	-.2329	-.1924		
.157									-.3147	
.163			.0000							
.177				-.2084						
.223		-.1226								
.246			-.1413							
.247	-.1146									
.250					-.3644	-.3894	-.3632	-.3360		
.274				-.2796						
.345									-.3734	
.362		-.0346								
.390			-.2195							
.400					-.4282	-.4855		-.4710		
.402				-.3503						
.418										-.2541
.429	-.0702									
.497		-.1758								
.503									-.4391	
.547	-.0802									
.560					-.4175	-.5018				
.565				-.3429						
.600								-.4928		
.633	-.2302									
.637			-.3013							
.653							-.5115			
.670									-.5392	
.700		-.2752				-.4841				
.723										-.5464
.725					-.1972					
.727	-.2425									
.755							-.5277	-.4869		
.760				-.1691						
.775					-.2020	-.2505				

AMES 11-073(OA148) -140A/B/C/K ORB LEFT WING TOP (X28.93)

ALPHA (3) = 3.958 BETA (2) = .183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0066									
.798			-.1345							
.808				-.0996						
.834		-.0225								
.839			-.0280							
.850					-.182*		3596			
.857				-.0704						
.862									-.5775	
.865		-.0798								
.879			-.0323							
.900		-.0163				-.1445		-.4330		
.905				-.0263						
.919			.0034							
.950						-.0709	-.1582	-.2440		
.953				.0030						
.955			.0089							
.965		-.0098								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0113	-.2189	-.4166	.1284	.5351	.5423	.5258	.5080	-.0632	
.010		-.2764	-.3677		.1445	.2620	.2337	.1369		
.020		-.2550		.0000	.0630	.1266	.1222	.0900	-.2019	
.040			-.2297	-.0919						
.041	-.1139									
.050					-.0673	-.0497	-.0567	-.0638		
.069									-.2314	
.080					-.1831					
.081				-.1505						
.086			-.1235							
.094		-.2068								
.113	-.1564									
.150					-.3246	-.3107	-.2799	-.2458		
.157									-.3599	
.163			.0000							
.177				-.2015						
.229		-.1267								
.245			-.1340							
.247	-.1588									
.250					-.3567	-.4111	-.3962	-.3712		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (3) = 3.971 BETA (3) = 4.247

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2611						
.345									-.4131	
.362		-.0321								
.390			-.2066							
.400					-.3965	-.4954		-.4934		
.402				-.3340						
.418										-.4163
.429	-.0703									
.497		-.1771								
.503									-.4679	
.547	-.0798									
.550					-.4054	-.4837				
.565				-.3340						
.600								-.5050		
.633	-.2440									
.637			-.2995							
.650							-.5210			
.670									-.5514	
.700		-.2745				-.3607				
.723										-.6489
.725					-.1920					
.727	-.2389									
.750							-.5093	-.4970		
.760				-.1629						
.775					-.2065	-.2331				
.793	.1039									
.799			-.0888							
.803				-.1022						
.834		-.0264								
.839			-.0455							
.850					-.1563	-.2090	-.3042			
.857				-.0847						
.862									-.5887	
.865		-.1122								
.879			-.0678							
.900		-.0513			-.1203			-.2988		
.905				-.0498						
.919			-.0272							
.950					-.0528	-.1576	-.2512			
.953				-.0287						
.955			-.0324							
.965		-.0681								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (A) = 7.933 BETA (B) = -3.869 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0928	-.0606	-.2184	.2623	.6902	.7127	.7021	.6720	.0191	
.010		-.1511	-.2431		.1587	.3039	.2680	.1373		
.020		-.1395		.0000	.0475	.1373	.1329	.0749	-.2310	
.040			-.1831	-.1577						
.041	-.0216									
.059					-.1219	-.0744	-.0778	-.1033		
.069									-.2553	
.080					-.2522					
.081				-.2601						
.096			-.1258							
.094		-.1178								
.113	-.0394									
.150					-.4247	-.3670	-.3384	-.2963		
.157									-.3974	
.163			.0000							
.177				-.3896						
.229		-.1245								
.246			-.2725							
.247	-.0630									
.250					-.5144	-.4784	-.4475	-.4155		
.274				-.4316						
.345									-.4884	
.362		-.1207								
.390			-.3352							
.400					-.5738	-.5682		-.4786		
.402				-.4541						
.418										-.3911
.429	-.1138									
.497		-.2616								
.503									-.5179	
.547	-.1700									
.550					-.5571	-.5268				
.565				-.4261						
.600								-.4769		
.633	-.3056									
.637			-.3966							
.650							-.4802			
.670									-.6151	
.700		-.3650				-.4706				
.723										-.6262
.725					-.3732					
.727	-.3161									
.750							-.4150	-.4390		
.760				-.2336						
.775					-.3529	-.4433				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (4) = 7.933 BETA (1) = -3.869

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2871									
.798			-.2178							
.808				-.2369						
.834		-.1409								
.839			-.1523							
.850					-.2705	-.4049	-.4184			
.857				-.1877						
.862									-.6032	
.865		-.1271								
.879			-.0607							
.900		.0096			-.2108			-.4171		
.905				-.0951						
.919			.0281							
.950					-.1789	-.3263	-.3950			
.953				-.0282						
.955			.0662							
.965		.0510								

ALPHA (4) = 7.908 BETA (2) = .178 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8370	.9720	1.0000
X/CW										
.000	.0357	-.2212	-.4402	.0568	.5419	.5814	.5819	.5464	-.1396	
.010		-.3003	-.3968		-.0027	.1489	.1248	.0088		
.020		-.2740		.0000	-.1057	.0069	.0102	-.0464	-.3468	
.040			-.3185	-.2901						
.041	-.0646									
.050					-.2492	-.1847	-.1741	-.1982		
.069									-.3532	
.080					-.3505					
.081				-.3434						
.086			-.2296							
.094		-.1837								
.113	-.0998									
.150					-.4834	-.4225	-.3914	-.3555		
.157									-.4541	
.163			.0000							
.177				-.4403						
.229		-.1818								
.245			-.2790							
.247	-.1173									
.250					-.5376	-.5110	-.4853	-.4552		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (4) = 7.908 BETA (2) = .178

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3708						
.345										
.362		-.1551							-.5178	
.390			-.3039							
.400					-.5499	-.5830		-.5037		
.402				-.4096						
.418										
.429	-.1670									-.5353
.497		-.2690								
.503										
.547	-.1590								-.5514	
.550										
.565					-.4754	-.5588				
.600				-.4006						
.633	-.3065							-.5003		
.637			-.3937							
.650										
.670							-.5130			
.700		-.3536							-.5449	
.723						-.4904				
.725										-.5350
.727	-.3017				-.2410					
.750										
.760							-.4415	-.4582		
.775				-.2101						
.793	-.1352				-.2357	-.4187				
.798			-.1882							
.808				-.2199						
.834		-.0489								
.839			-.1176							
.850					-.2125	-.3970	-.4338			
.857				-.1844						
.862										
.865		-.1095							-.5423	
.879			-.1093							
.900		-.0432								
.905					-.2308			-.4347		
.919			-.0365	-.1321						
.950										
.953					-.1766	-.3234	-.3995			
.955				-.0716						
.965		-.0445	.0060							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (4) = 7.872 BETA (3) = 4.245 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0210	-.3995	-.4144	-.1486	.3672	.4423	.4494	.4082	-.3118	
.010		-.3840	-.4096		-.1702	.0125	-.0145	-.1143		
.020		-.3829		.0000	-.2615	-.1134	-.1114	-.1600	-.4541	
.040			-.3971	-.3279						
.041	-.1114									
.050					-.3789	-.2722	-.2624	-.2925		
.069									-.4819	
.080					-.4513					
.081				-.3086						
.085			-.3719							
.094		-.3705								
.113	-.1558									
.150					-.5048	-.4686	-.4412	-.4135		
.157									-.5052	
.163			.0000							
.177				-.3174						
.229		-.2053								
.246			-.4323							
.247	-.1744									
.250					-.4780	-.5417	-.5183	-.4944		
.274				-.3369						
.345									-.5259	
.362		-.1187								
.390			-.2867							
.400					-.4505	-.5962		-.5179		
.402				-.3862						
.418										-.5253
.429	-.1629									
.497		-.2409								
.503									-.5330	
.547	-.1406									
.550					-.4445	-.5630				
.565				-.4083						
.620								-.5153		
.633	-.2932									
.637			-.3758							
.650							-.5281			
.670									-.5019	
.700		-.3270				-.4627				
.723										-.4788
.725					-.2594					
.727	-.2977									
.750							-.4629	-.4433		
.760				-.1993						
.775					-.2558	-.3654				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (4) = 7.872 BETA (3) = 4.245

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0249									
.798			-.1563							
.808				-.1869						
.834		-.1078								
.839			-.1278							
.850					-.2063	-.2739	-.4386			
.857				-.1628						
.862									-.4893	
.865		-.1570								
.879			-.1097							
.900		-.0900			-.1772			-.4095		
.905				-.1476						
.919			-.0644							
.950					-.1155	-.1884	-.3813			
.953				-.0940						
.955			-.0865							
.965		-.0862								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0188	-.2441	-.3740	.1027	.5972	.6399	.6333	.5728	-.1867	
.010		-.2918	-.3370		-.0338	.1183	.0557	-.0831		
.020		-.2809		.0000	-.1447	-.0353	-.0652	-.1336	-.4948	
.040			-.2761	-.3296						
.041	-.0173									
.050					-.2926	-.2202	-.2348	-.2830		
.069									-.4945	
.080					-.3931					
.081				-.3904						
.086			-.2083							
.094		-.2070								
.113	-.0404									
.150					-.5204	-.4668	-.4416	-.4241		
.157									-.5317	
.163			.0000							
.177				-.4804						
.229		-.1770								
.246			-.2926							
.247	-.0594									
.250					-.5847	-.5094	-.5021	-.5015		

AMES 11-073'OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (5) = 11.931 BETA (1) = -3.857

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4759						
.345									-.5386	
.362		-.1606								
.390			-.3776							
.400					-.5454	-.4981		-.4953		
.402				-.4952						
.418										-.5468
.429	-.1345									
.497		-.3627								
.503									-.5528	
.547	-.2018									
.550					-.4997	-.4945				
.565				-.4761						
.600								-.4864		
.633	-.4026									
.637			-.4693							
.650							-.4763			
.670									-.5124	
.700		-.4717				-.4950				
.723										-.4849
.725					-.4854					
.727	-.4122									
.750							-.4432	-.4710		
.760				-.3522						
.775					-.4729	-.4526				
.793	-.3824									
.798			-.2404							
.808				-.3982						
.834		-.1687								
.839			-.2727							
.850					-.4329	-.4432	-.4487			
.857				-.3815						
.862									-.5119	
.865		-.1450								
.879			-.2157							
.900		.0590			-.4124			-.4924		
.905				-.3084						
.919			-.2121							
.950					-.3792	-.3675	-.4135			
.953				-.2372						
.965			-.1630							
.965		-.0350								

AMES 11-073(0A148) -140A/B/C/R ORS LEFT WING TOP (XEBU23)

ALPHA (5) = 11.869 BETA (2) = .183 MACH = 1.3942 Q = 599.92 P = 440.89 RN/L = 2.9149

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8670	.9720	1.0000
X/CW										
.000	-.0664	-.3662	-.3640	-.0927	-.4339	.4843	.4832	.4198	-.3482	
.010		-.3177	-.3660		-.1782	-.0281	-.0844	-.2017		
.020		-.3065		.0000	-.2758	-.1658	-.1921	-.2545	-.5526	
.040			-.3444	-.3764						
.041	-.0826									
.050										
.069					-.3988	-.3260	-.3341	-.3731		
.080									-.5283	
.081					-.4784					
.086				-.4133						
.094			-.3181							
.113	-.1233	-.3524								
.150										
.157					-.5770	-.5240	-.4990	-.4845		
.163									-.5233	
.177			.0000							
.229				-.4360						
.246		-.4189								
.247	-.1125		-.3903							
.250										
.274					-.6151	-.5813	-.5447	-.5392		
.345				-.4650						
.362		-.2930							-.5438	
.390			-.4105							
.400										
.402					-.5746	-.5522		-.5318		
.418				-.5017						
.429	-.1939									-.5505
.497		-.4128								
.503										
.547	-.2671								-.5580	
.550										
.565					-.5543	-.5527				
.600				-.4762						
.633	-.4127							-.5283		
.637			-.4918							
.650										
.670							-.5183			
.700		-.4301							-.5171	
.723						-.5278				
.725										-.4959
.727	-.3971				-.4871					
.750										
.760							-.4852	-.4959		
.775				-.2494						
					-.5083	-.4897				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (5) = 11.869 BETA (2) = .183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1989									
.798			-.2306							
.808				-.2942						
.834		-.1589								
.839			- [illegible]							
.850					-.4408	-.4154	-.4675			
.857				-.2952						
.862									-.5216	
.865		-.1777								
.879			-.1743							
.900		-.0643			-.3482			-.5054		
.905				-.2846						
.919			-.0914							
.950					-.2896	-.3388	-.4113			
.953				-.3339						
.955			-.1510							
.965		-.0400								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1485	-.3905	-.4106	-.3068	.2483	.3083	.3046	.2398	-.4711	
.010		-.3857	-.4118		-.3190	-.1760	-.2255	-.3370		
.020		-.3836		.0000	-.3973	-.3016	-.3224	-.3779	-.5555	
.040			-.4156	-.3911						
.041	-.1778									
.050					-.4931	-.4254	-.4343	-.4704		
.069									-.5534	
.080					-.5526					
.081				-.4175						
.086			-.3873							
.094		-.4396								
.113	-.1645									
.150					-.5872	-.5800	-.5579	-.5498		
.157									-.5553	
.163			.0000							
.177				-.4285						
.229		-.5364								
.245			-.4281							
.247	-.1956									
.250					-.5836	-.6325	-.6100	-.5912		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (5) = 11.865 BETA (3) = 4.258

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4182						
.345									-.3672	
.362		-.3935								
.390			-.4149							
.400					-.6079	-.6181		-.5831		
.402				-.4675						
.418										-.5828
.429	-.2742									
.497		-.3733								
.503									-.5748	
.547	-.2374									
.550					-.5487	-.6138				
.555				-.4878						
.600								-.5684		
.633	-.3845									
.637			-.4700							
.650							-.5886			
.670									-.5500	
.700		-.3736				-.5369				
.723										-.5375
.725					-.2860					
.727	-.3695									
.750							-.5322	-.5508		
.760				-.2739						
.775					-.3226	-.5229				
.793	-.0537									
.798			-.2562							
.808				-.3156						
.834		-.1904								
.839			-.2403							
.850					-.3101	-.5050	-.5045			
.857				-.3026						
.862									-.5443	
.865		-.2412								
.879			-.1679							
.900		-.1614			-.3058			-.5246		
.905				-.2411						
.919			-.1567							
.950					-.2851	-.3066	-.4150			
.953				-.1888						
.955			-.1531							
.965		-.1603								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE9U23)

ALPHA (6) = 15.857 BETA (1) = -3.836 MACH = 1.3942 = 599.51 P = 440.65 RN/L = 2.5096

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0349	-.3265	-.3066	-.0211	.4900	.5259	.5122	.4163	-.3480	
.010		-.2860	-.2964		-.1857	-.0524	-.1312	-.2792		
.020		-.2775		.0000	-.2850	-.2021	-.2475	-.3256	-.6023	
.040			-.2748	-.3416						
.041	-.1594									
.050					-.4101	-.3532	-.3815	-.4322		
.069									-.5742	
.080					-.4901					
.081				-.3714						
.086			-.2534							
.094		-.2917								
.113	-.0452									
.150					-.5866	-.5436	-.5291	-.5312		
.157									-.5709	
.163			.0000							
.177				-.3935						
.223		-.3666								
.246			-.3658							
.247	-.0810									
.250					-.5670	-.5580	-.5450	-.5621		
.274				-.4405						
.345									-.5823	
.362		-.3819								
.390			-.4056							
.400					-.5598	-.5503		-.5552		
.402				-.5341						
.418										-.6039
.429	-.1663									
.497		-.4846								
.503									-.5901	
.547	-.2531									
.550					-.5575	-.5613				
.565				-.5353						
.600								-.5663		
.633	-.4790									
.637			-.5195							
.650							-.5467			
.670									-.5571	
.700		-.5207				-.5592				
.723										-.5272
.726					-.5335					
.727	-.5317									
.750							-.5095	-.5505		
.750				-.3273						
.775					-.5451	-.5090				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU23)

ALPHA (6) = 15.857 BETA (1) = -3.836

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.3973									
.798			-.3027							
.808				-.[illegible]52						
.834		-.2637								
.839			-.3443							
.850					-.4709	-.4846	-.5129			
.857				-.4234						
.862									-.5537	
.865		-.2192								
.879			-.2595							
.900		-.1855			-.4636			-.5705		
.905				-.4408						
.919			-.2407							
.950					-.4217	-.4330	-.4837			
.953				-.4134						
.955			-.2606							
.965		-.1397								

ALPHA (6) = 15.871 BETA (2) = .184 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1455	-.3764	-.3682	-.2371	.3080	.3504	.3349	.2378	-.4612	
.010		-.3731	-.3670		-.3240	-.1933	-.2578	-.3816		
.020		-.3723		.0000	-.4013	-.3247	-.3581	-.4259	-.5718	
.040			-.3642	-.3677						
.041	-.3185									
.050					-.4987	-.4452	-.4674	-.5115		
.069									-.[illegible]	
.080					-.5597					
.081				-.4099						
.085			-.3312							
.094		-.3923								
.113	-.1355									
.150					-.6136	-.5929	-.5812	-.5839		
.157									-.576[illegible]	
.163			.0000							
.177				-.4613						
.229		-.4363								
.245			-.4463							
.247	-.1919									
.250					-.6093	-.5986	-.5802	-.6008		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U23)

ALPHA (6) = 15.871 BETA (2) = .184

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5016						
.345									-.5899	
.362		-.4794								
.390			-.4678							
.400					-.5931	-.5913		-.5896		
.402				-.5474						
.418										-.5983
.429	-.2640									
.497		-.5355								
.503									-.6016	
.547	-.3544									
.550					-.5907	-.5979				
.565				-.5271						
.600								-.5875		
.633	-.5095									
.637			-.5268							
.650							-.5864			
.670									-.5645	
.700		-.5115				-.5922				
.723										-.5539
.725					-.5322					
.727	-.5237									
.750							-.5417	-.5670		
.760				-.3541						
.775					-.5659	-.5370				
.793	-.3198									
.798			-.2883							
.808				-.3803						
.834		-.2427								
.839			-.2470							
.850					-.5505	-.4658	-.5317			
.857				-.3795						
.862									-.5621	
.865		-.2549								
.879			-.2160							
.900		-.1573			-.5115			-.5717		
.905				-.3704						
.919			-.2755							
.950					-.4524	-.3933	-.4871			
.953				-.3993						
.958			-.3050							
.965		-.1677								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2390	-.4180	-.4419	-.4176	.1290	.1770	.1614	.0715	-.5360	
.010		-.4206	-.4426		-.4326	-.3200	-.3761	-.4878		
.020		-.4239		.0000	-.5006	-.4321	-.4577	-.5209	-.5657	
.040			-.4414	-.4150						
.041	-.4324									
.050					-.5701	-.5255	-.5426	-.5795		
.069									-.5629	
.080					-.6116					
.081				-.4362						
.086			-.4008							
.094		-.4530								
.113	-.2255									
.150					-.6173	-.6334	-.6254	-.5985		
.157									-.5617	
.163			.0000							
.177				-.5023						
.229		-.4896								
.246			-.5074							
.247	-.2686									
.250					-.6299	-.6239	-.6082	-.5911		
.274				-.5068						
.345									-.5591	
.362		-.5270								
.390			-.4749							
.400					-.6371	-.6199		-.5804		
.402				-.5070						
.418										-.5604
.429	-.3440									
.497		-.5101								
.503									-.5693	
.547	-.3795									
.550					-.6337	-.6156				
.565				-.5221						
.600								-.5642		
.633	-.4617									
.637			-.4663							
.650							-.5834			
.670									-.5469	
.700		-.4337				-.5832				
.723										-.5392
.725					-.4835					
.727	-.4330									
.750							-.5514	-.5440		
.760				-.3801						
.775					-.5011	-.5414				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U23)

ALPHA (6) = 15.861 BETA (3) = 4.289

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2239									
.798			-.2979							
.808				-.3906						
.834		-.2439								
.839			-.3160							
.850					-.4763	-.4886	-.5366			
.857				-.3417						
.862									-.5419	
.865		-.2901								
.879			-.2228							
.900		-.2016			-.4828			-.5433		
.905				-.3607						
.919			-.2516							
.950					-.4999	-.4889	-.5193			
.953				-.3798						
.955			-.2713							
.965		-.2138								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 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 = .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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1994	-.0827	-.1180	.2618	.6623	.5962	.5601	.5821	-.4356	
.010		-.0339	-.0133		.7288	.7085	.6691	.5945		
.020		-.0370		.0000	.6463	.6040	.5021	.5533	-.0492	
.040			.0444	.4128						
.041	-.0995									
.050					.4422	.3923	.3780	.3696		
.069									-.1101	
.080					.2559					
.081				.2973						
.086			.1652							
.094		-.0058								
.113	-.0574									
.150					.0135	.0142	.0349	.0506		
.157									-.2497	
.163			.0000							
.177				.0974						
.229		.0520								
.246			.0985							
.247	-.0049									
.250					-.1244	-.1399	-.1282	-.1527		
.274				-.0431						
.345									-.2944	
.362		.1522								
.390			-.0239							
.400					-.2633	-.3117		-.3810		
.402				-.2813						
.418										-.5069
.429	.0479									
.497		.0158								
.503									-.3380	
.547	.0753									
.550					-.1971	-.3579				
.565				.0041						
.600							-.4562			
.633	-.0462									
.637			.1400							
.650							-.4279			
.670									-.4258	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (1) = -3.982 BETA (1) = -3.844

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.1143				-.1193				
.723										-.4801
.725					.0602					
.727	-.0649									
.750							-.3111	-.4296		
.760				.0466						
.775					.1586	.0289				
.793	.3428									
.798			.0489							
.808				.1628						
.834		.0884								
.839			.1600							
.850					.1329	.0266	-.0646			
.857				.1249						
.862									-.3580	
.865		.0579								
.879			.1424							
.900		.1227			.0640			-.1313		
.905				.1072						
.919			.0591							
.950					.0984	.1552	.1642			
.953				.0603						
.955			.1072							
.965		.1686								

ALPHA (1) = -3.977 BETA (2) = .190 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2206	-.0806	-.0718	.2321	.5953	.5081	.4654	.4802	-.5088	
.010		-.0702	-.0099		.6506	.6202	.5857	.5170		
.020		-.0804		.0000	.5792	.5308	.5046	.4809	-.1303	
.040			.0280	.3484						
.041	-.1750									
.050					.3931	.3426	.3188	.3111		
.059									-.1726	
.080					.2240					
.081				.2538						
.086			.1292							
.094		-.0281								
.113	-.1198									
.150					.0112	-.0057	.0098	.0272		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3045	
.153			.0000							
.177				.0856						
.229		.0268								
.246			.0708							
.247	-.0250									
.250					-.1244	-.1499	-.1467	-.1707		
.274				-.0430						
.345									-.3282	
.362		.1342								
.390			-.0328							
.400					-.2539	-.3033		-.3871		
.402				-.1940						
.418										-.5793
.429	.0316									
.497		-.0036								
.503									-.3603	
.547	.0534									
.550					.0069	-.3333				
.565				.1118						
.600								-.4504		
.633	-.0573									
.637			.1909							
.650							-.3770			
.670									-.4161	
.700		.1837				-.0383				
.723										-.5539
.725					.0807					
.727	.0925									
.750							-.0494	-.3384		
.760				.0308						
.775					.1112	.0445				
.793	.3358									
.798			.0205							
.808				.1083						
.834		.0570								
.839			.1042							
.850					.0943	-.0224	.0407			
.857				.0657						
.862									-.1629	
.865		.0030								
.879			.0950							
.900		.0848			.0122			-.0486		
.905				.0686						
.919			.0135							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0317	.0877	.1667			
.953				.0138						
.955			.0510							
.965		.1234								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2012	-.0958	-.0387	.2540	.5318	.4374	.3790	.3874	-.5632	
.010		-.1063	-.0031		.5716	.5346	.4957	.4335		
.020		-.1215		.0000	.5038	.4530	.4252	.3993	-.2120	
.040			.0261	.3026						
.041	-.2133									
.050					.3398	.2762	.2573	.2479		
.069									-.2448	
.080					.1817					
.081				.2121						
.086			.1133							
.094		-.0364								
.113	-.1689									
.150					-.0093	-.0373	-.0154	-.0006		
.157									-.3608	
.163			.0000							
.177				.0729						
.229		.0139								
.246			.0692							
.247	-.0236									
.250					-.1314	-.1710	-.1850	-.2057		
.274				-.0497						
.345									-.3677	
.362		.1351								
.390			-.0354							
.400					-.2515	-.2957		-.3964		
.402				-.1919						
.418										-.6289
.429	.0339									
.497		-.0281								
.503									-.3760	
.547	.0453									
.550					.0716	-.0653				
.565				.1549						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU24)

ALPHA (1) = -3.980 BETA (3) = 4.277

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.4391		
.633	-.0702									
.637			.2117							
.650							-.1109			
.670									-.2782	
.700		.2030				.0157				
.723										-.5171
.725					.0745					
.727	.1242									
.750							.0072	-.1080		
.760				.0124						
.775					.0700	.0273				
.793	.3382									
.799			.0068							
.808				.0701						
.834		.0410								
.839			.0676							
.850					.0813	-.0622	.0218			
.857				.0244						
.862									-.1000	
.865		-.0305								
.879			.0393							
.900		.0458			-.0208			.1276		
.905				.0175						
.919			-.0179							
.950					-.0247	.0223	.1249			
.953				-.0126						
.955			-.0050							
.965		.0695								

ALPHA (2) = .038 BETA (1) = -3.875 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0878	.0099	.0012	.4137	.7201	.6672	.6319	.6438	-.2517	
.010		-.0015	.0268		.5769	.6045	.5590	.4688		
.020		-.0286		.0000	.4681	.4553	.4383	.4089	-.0588	
.040			.0521	.2482						
.041	-.0870									
.060					.2415	.2060	.1980	.1994		
.069									-.1356	
.080					.0453					

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U24)

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

ALPHA (2) = .038 BETA (1) = -3.875

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1168						
.086			.1100							
.094		-.0862								
.113	-.0588				-.1611	-.1496	-.1368	-.1097		
.150									-.3169	
.157										
.163			.0000							
.177				-.0729						
.229		-.0046								
.246			-.0216							
.247	-.0778				-.2724	-.3233	-.3135	-.3013		
.250				-.1920						
.274									-.3773	
.345										
.362		.0788								
.390			-.1518							
.400					-.3781	-.4483		-.4950		
.402				-.3278						-.2558
.418										
.429	.0056									
.497		-.0976							-.4358	
.503										
.547	-.0053				-.4028	-.4881				
.550				-.3054						
.565								-.5285		
.600										
.633	-.1493									
.637			-.1784				-.5297			
.650									-.5314	
.670										
.700		-.2150				-.3515				-.2667
.723										
.725					-.1099					
.727	-.2105						-.5445	-.5229		
.750				-.0600						
.760					.0044	-.2002				
.775										
.793	.1775									
.798			-.0321							
.808				.1354						
.834		.0344								
.839			.1310							
.850					.0719	-.1221	-.2694			
.857				.1037						
.862									-.5026	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (2) = .038 BETA (1) = -3.875

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		.0275								
.879			.1032							
.900		.0752			.0489			-.4225		
.905				.0778						
.919			.0469							
.950					.0726	.0356	-.1492			
.953				.0443						
.955			.0693							
.965		.1146								

ALPHA (2) = .042 BETA (2) = .180 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0958	-.0578	-.0235	.3692	.6399	.5812	.5444	.5506	-.3019	
.010		-.0886	-.0031		.4862	.5146	.4807	.3917		
.020		-.1143		.0000	.3878	.3810	.3641	.3402	-.1277	
.040			.0156	.1726						
.041	-.1483									
.050					.1865	.1539	.1471	.1426		
.069									-.1964	
.080					.0123					
.081				.0710						
.086			.0684							
.094		-.1380								
.113	-.1345									
.150					-.1725	-.1765	-.1657	-.1369		
.157									-.3547	
.163			.0000							
.177				-.0816						
.229		-.0210								
.246			-.0401							
.247	-.1183									
.250					-.2680	-.3209	-.3242	-.3179		
.274				-.1799						
.345									-.3955	
.362		.0621								
.390			-.1469							
.400					-.3671	-.4424		-.4993		
.402				-.3227						
.418										-.1776
.429	-.0072									

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (2) = .042 BETA (2) = .180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1114								
.503									-.4307	
.547	-.0210									
.550					-.3748	-.4613				
.565				-.2325						
.600								-.5303		
.633	-.1616									
.637			-.0385							
.650							-.5300			
.670									-.5110	
.700		-.0872				-.2193				
.723										-.3177
.725					-.0967					
.727	-.1948									
.750							-.4339	-.5121		
.760				-.0694						
.775					.0355	-.1441				
.793	.2112									
.799			-.0475							
.808				.0755						
.834		-.0037								
.839			.0599							
.850					.0672	-.0656	-.2554			
.857				.0422						
.862									-.4599	
.865		-.0343								
.879			.0322							
.900		.0094			.0079			-.2143		
.905				.0239						
.919			-.0050							
.950					.0142	.0277	-.1280			
.953				-.0001						
.955			.0132							
.965		.0417								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (2) = .044 BETA (3) = 4.251 MACH = 1.2466 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1103	-.1542	-.0867	.3232	.5755	.5027	.4595	.4600	-.2155	
.010		-.1927	-.0557		.3982	.4228	.3826	.2972		
.020		-.1981		.0000	.3118	.2943	.2740	.2501	-.1785	
.040			-.0154	.1344						
.041	-.1939									
.050					.1265	.0904	.0770	.0714		
.069									-.2381	
.080					-.0251					
.081				.0422						
.085			.0450							
.094		-.1547								
.113	-.1891									
.150					-.1835	-.2143	-.2089	-.1774		
.157									-.3823	
.163			.0000							
.177				-.0737						
.229		-.0348								
.245			-.0379							
.247	-.1219									
.250					-.2771	-.3304	-.3427	-.3482		
.274				-.1721						
.345									-.4044	
.352		.0624								
.390			-.1486							
.400					-.3626	-.4395		-.5132		
.402				-.3166						
.418										-.2150
.429	.0009									
.457		-.1179								
.503									-.4398	
.547	-.0203									
.550					-.2567	-.4468				
.565				-.0914						
.600								-.5367		
.633	-.1730									
.637			.0021							
.650							-.5164			
.670									-.5103	
.700		-.0098				-.2041				
.723										-.4285
.725					-.0751					
.727	-.1308									
.750							-.3222	-.3863		
.763				-.0735						
.775					.0313	-.0730				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (2) = .044 BETA (3) = 4.251

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2120									
.799			-.0639							
.808				.0291						
.834		-.0255								
.839			.0130							
.850					.0370	-.0570	-.1372			
.857				-.0098						
.862									-.3013	
.865		-.0685								
.879			-.0176							
.900		-.0314			-.0338			-.1631		
.905				-.0269						
.919			-.0537							
.950					-.0410	-.0113	.0169			
.953				-.0430						
.955			-.0449							
.965		-.0302								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0022	-.0027	-.1033	.3957	.7291	.7049	.6844	.6686	.0476	
.010		-.0544	-.1182		.3485	.4482	.4067	.2785		
.020		-.0769		.0000	.2394	.2735	.2602	.2130	-.1258	
.040			-.0853	.0320						
.041	-.0727									
.050					.0310	.0289	.0177	-.0001		
.059									-.1799	
.080					-.1494					
.091				-.0984						
.098			-.0183							
.104		-.1341								
.113	-.0683									
.157					-.3478	-.3502	-.2848	-.2530		
.159									-.3836	
.163			.0000							
.177				-.2287						
.209		-.1022								
.245			-.1383							
.247	-.0981									
.340					-.4394	-.4697	-.4503	-.4158		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (3) = 3.904 BETA (1) = -3.872

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3247						
.345									-.4578	
.362		-.0029								
.390			-.2595							
.400					-.4962	-.5789		-.5810		
.402				-.4194						
.418										-.2190
.429	-.0473									
.497		-.1849								
.503									-.5501	
.547	-.0779									
.550					-.5027	-.6110				
.565				-.4001						
.600								-.5990		
.633	-.2488									
.637			-.3522							
.650							-.5958			
.670									-.6762	
.700		-.3227				-.5642				
.723										-.5813
.725					-.1736					
.727	-.2943									
.750							-.4529	-.4697		
.760				-.1471						
.775					-.1866	-.2227				
.795	.0016									
.798			-.1302							
.808				-.0176						
.8[illegible]		-.0259								
.8[illegible]			.0668							
.8[illegible]					-.1300	-.1836	-.3884			
.857				.0258						
.862									-.7313	
.865		-.0259								
879			.0587							
.900		.0699			-.0695			-.3280		
.905				.0434						
.919			.0334							
.950					.0283	-.1501	-.3035			
.953				.0419						
.955			.0372							
.965		.0443								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U24)

ALPHA (3) = 3.905 BETA (2) = .182 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0333	-.1423	-.2853	.2768	.6359	.6159	.5935	.5748	-.0284	
.010		-.1995	-.2285		.2406	.3478	.3112	.1887		
.020		-.1950		.0000	.1529	.1881	.1750	.1228	-.1993	
.040			-.1345	-.0273						
.041	-.1372									
.050					-.0254	-.0326	-.0449	-.0644		
.069									-.2439	
.080					-.1843					
.081				-.1248						
.086			-.0545							
.094		-.2080								
.113	-.1471									
.150					-.3515	-.3563	-.3291	-.2885		
.157									-.4198	
.163			.0000							
.177				-.2216						
.229		-.1005								
.246			-.1404							
.247	-.1590									
.250					-.4297	-.4816	-.4667	-.4427		
.274				-.3023						
.345									-.4865	
.362		-.0115								
.390			-.2504							
.400					-.4747	-.5716		-.5957		
.402				-.4067						
.418										-.3592
.429	-.0499									
.497		-.1943								
.503									-.5868	
.547	-.0850									
.550					-.4893	-.5870				
.565				-.3798						
.600								-.6160		
.633	-.2591									
.637			-.2650							
.650							-.6074			
.670									-.6729	
.700		-.3227				-.3289				
.723										-.7083
.725					-.2128					
.727	-.2900									
.750							-.4425	-.4546		
.760				-.1650						
.775					-.1927	-.2349				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (3) = 3.905 BETA (2) = .182

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1172									
.798			-.1145							
.808				-.0415						
.834		-.0414								
.839			-.0105							
.850					-.0973	-.2344	-.3733			
.857				-.0178						
.862									.7306	
.865		-.1230								
.879			-.0164							
.900		-.0041			-.0573			-.3080		
.905				-.0150						
.919			-.0178							
.950					-.0026	-.1413	-.3043			
.953				-.0207						
.955			-.0233							
.965		-.0370								

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0628	-.3096	-.3802	.1556	.5463	.5276	.5061	.4799	-.1304	
.010		-.3533	-.2700		.1396	.2319	.1923	.0646		
.020		-.3215		.0000	.0661	.0881	.0701	.0075	-.2961	
.040			-.2191	-.0752						
.041	-.1809									
.050					-.0843	-.1042	-.1228	-.1565		
.069									-.3270	
.080					-.2126					
.081				-.1368						
.086			-.1650							
.094		-.2692								
.113	-.2004									
.150					-.3553	-.3948	-.3773	-.3448		
.157									-.4669	
.163			.0000							
.177				-.2187						
.229		-.1098								
.246			-.1241							
.247	-.2013									
.250					-.4127	-.4947	-.4971	-.4834		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (3) = 3.915 BETA (3) = 4.245

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2823						
.345									-.5332	
.362		-.0041								
.388			-.2290							
.400					-.4682	-.5712		-.6172		
.402				-.3935						
.418										-.5845
.429	-.0443									
.497		-.1956								
.503									-.5988	
.547	-.0813									
.550					-.4593	-.5615				
.565				-.3273						
.600								-.6116		
.633	-.2700									
.637			-.2059							
.650							-.6052			
.670									-.6763	
.700		-.2963				-.2811				
.723										-.7223
.725					-.2068					
.727	-.2868									
.750							-.4442	-.4175		
.760				-.1487						
.775					-.1460	-.2427				
.793	.1436									
.798			-.1036							
.808				-.0528						
.834		-.0595								
.839			-.0404							
.850					-.0540	-.2271	-.3323			
.857				-.0642						
.862									-.6730	
.865		-.1345								
.879			-.0616							
.900		-.0533			-.0691			-.2694		
.905				-.0713						
.918			-.0637							
.950					-.0478	-.0821	-.1965			
.953				-.0737						
.955			-.0720							
.965		-.0954								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (4) = 7.877 BETA (1) = -3.867 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0470	-.1153	-.3377	.2178	.6397	.6595	.6642	.6138	-.0778	
.010		-.2065	-.3621		.0451	.2044	.1608	.0105		
.020		-.1906		.0000	-.0683	.0222	.0200	-.0600	-.3826	
.040			-.2656	-.2424						
.041	-.0694									
.050					-.2386	-.1916	-.1997	-.2427		
.069									-.3983	
.080					-.3740					
.081				-.3596						
.086			-.1917							
.094		-.1792								
.113	-.0709									
.150					-.5424	-.4905	-.4689	-.4347		
.157									-.5406	
.163			.0000							
.177				-.4602						
.229		-.1726								
.246			-.2971							
.247	-.1074									
.250					-.6220	-.6045	-.5773	-.5502		
.274				-.4392						
.345									-.5902	
.362		-.1336								
.390			-.3496							
.400					-.6507	-.6935		-.5588		
.402				-.5030						
.418										-.5684
.429	-.1526									
.497		-.2847								
.503									-.6092	
.547	-.1623									
.550					-.5675	-.6270				
.565				-.4690						
.600								-.5532		
.633	-.3357									
.637			-.4435							
.650							-.5371			
.670									-.5532	
.700		-.4206				-.5428				
.723										-.5359
.725					-.3059					
.727	-.3568									
.750							-.4936	-.5041		
.760				-.2253						
.775					-.3033	-.4551				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (4) = 7.877 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2077									
.798			-.1759							
.808				-.1552						
.834		-.0504								
.839			-.0446							
.850					-.2131	-.3848	-.4698			
.857				-.0753						
.862									-.5380	
.865		-.0953								
.879			-.0031							
.900		.0990			-.1942			-.4856		
.905				-.0343						
.919			.0534							
.950					-.1287	-.3200	-.4118			
.953				-.0261						
.955			.0612							
.965		.0330								

ALPHA (4) = 7.882 BETA (2) = .178 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0018	-.3170	-.5479	-.0202	.5025	.5479	.5465	.4953	-.2639	
.010		-.3943	-.5082		-.0914	.0761	.0293	-.1103		
.020		-.3623		.0000	-.1940	-.0792	-.0884	-.1692	-.5075	
.040			-.4052	-.3636						
.041	-.1259									
.050					-.3189	-.2727	-.2821	-.3271		
.069									-.5080	
.080					-.4169					
.081				-.3131						
.085			-.3030							
.094		-.2500								
.113	-.1487									
.150					-.5459	-.5270	-.5117	-.4831		
.157									-.5652	
.163			.0000							
.177				-.3636						
.229		-.2353								
.245			-.2665							
.247	-.1681									
.250					-.5960	-.6194	-.6042	-.5830		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (4) = 7.882 BETA (2) = .178

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3914						
.345									-.5939	
.362		-.1155								
.390			-.3409							
.400					-.5674	-.6950		-.5899		
.402				-.4595						
.418										-.6025
.429	-.1487									
.497		-.2783								
.503									-.5965	
.547	-.1499									
.550					-.5341	-.6433				
.565				-.4628						
.600								-.5703		
.633	-.3340									
.637			-.4654							
.650							-.5695			
.670									-.5476	
.700		-.4031				-.5277				
.723										-.5293
.725					-.2294					
.727	-.3530									
.750							-.5108	-.4871		
.760				-.2017						
.775					-.2453	-.3833				
.793	-.0227									
.798			-.1760							
.808				-.1644						
.834		-.0647								
.839			-.0781							
.850					-.2060	-.3779	-.4792			
.857				-.1408						
.862									-.5265	
.865		-.1503								
.879			-.0440							
.900		- 0210			-.1822			-.4524		
.905				-.1045						
.919			-.0036							
.950					-.1206	-.2529	-.4158			
.953				-.0934						
.955			-.0065							
.965		-.0491								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (4) = 7.882 BETA (3) = 4.244 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0544	-.5311	-.5061	-.1853	.3624	.4226	.4128	.3556	-.4684	
.010		-.4770	-.4935		-.2119	-.0629	-.1175	-.2478		
.020		-.4698		.0000	-.2971	-.1919	-.2127	-.2968	-.6062	
.040			-.4556	-.2198						
.041	-.1679									
.050					-.3915	-.3571	-.3703	-.4299		
.069									-.5984	
.080					-.4643					
.081				-.2641						
.086			-.4030							
.094		-.4936								
.113	-.2055									
.150					-.5625	-.5686	-.5625	-.5460		
.157									-.5981	
.163			.0000							
.177				-.2979						
.229		-.2437								
.246			-.3613							
.247	-.2287									
.250					-.4996	-.6432	-.6403	-.6280		
.274				-.3537						
.345									-.6229	
.362		-.0224								
.390			-.2595							
.400					-.5149	-.6927		-.6444		
.402				-.4587						
.418										-.6190
.429	-.1295									
.497		-.2347								
.503									-.6198	
.547	-.1283									
.550					-.5164	-.6434				
.565				-.4756						
.600								-.6118		
.633	-.3482									
.637			-.4173							
.650							-.6092			
.670									-.5936	
.700		-.3846				-.4915				
.723										-.5786
.725					-.2537					
.727	-.3622									
.750							-.5411	-.5196		
.760				-.1967						
.775					-.2198	-.3043				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (4) = 7.882 BETA (3) = 4.244

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0505									
.798			-.1691							
.808				-.1712						
.834		-.1267								
.839			-.1100							
.850					-.1211	-.2432	-.4849			
.857				-.1446						
.862									-.5798	
.865		-.1955								
.879			-.1130							
.900		-.0737			-.1231			-.4597		
.905				-.1401						
.919			-.0941							
.950					-.1132	-.1339	-.3927			
.953				-.0881						
.955			-.1038							
.965		-.1125								

ALPHA (5) = 11.916 BETA (1) = -3.850 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0484	-.3209	-.4899	-.0018	.5153	.5488	.5404	.4455	-.3640	
.010		-.3890	-.4520		-.1833	-.0375	-.1257	-.2789		
.020		-.3798		.0000	-.2945	-.1984	-.2455	-.3430	-.5723	
.040			-.3760	-.4568						
.041	-.0648									
.050					-.4423	-.3824	-.4098	-.4742		
.069									-.5697	
.080					-.5437					
.081				-.5156						
.086			-.3004							
.094		-.2587								
.113	-.0829									
.150					-.6736	-.6248	-.6180	-.6047		
.157									-.5761	
.163			.0000							
.177				-.6002						
.229		-.2264								
.245			-.3749							
.247	-.1109									
.250					-.6985	-.6293	-.5842	-.5713		

AMES 11-073(OA,48) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (5) = 11.916 BETA (1) = -3.850

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5778						
.345									-.5925	
.362		-.1965								
.390			-.4734							
.400					-.6777	-.6274		-.6009		
.402				-.5856						
.418										-.5883
.429	-.1912									
.497		-.4522								
.503									-.5884	
.547	-.2860									
.550					-.6295	-.6010				
.565				-.5585						
.600								-.5837		
.633	-.4679									
.637			-.5344							
.650							-.5652			
.670									-.5382	
.700		-.5203				-.5724				
.723										-.5236
.725					-.5629					
.727	-.4410									
.750							-.5288	-.5691		
.760				-.3346						
.775					-.5543	-.5414				
.793	-.2006									
.798			-.2416							
.808				-.3577						
.834		-.0843								
.839			-.1951							
.850					-.4764	-.4531	-.5075			
.857				-.2956						
.862									-.5384	
.865		-.1054								
.879			-.1585							
.900		.0306			-.4534			-.5530		
.905				-.2029						
.919			-.1751							
.930					-.3908	-.3789	-.4320			
.953				-.1299						
.955			-.1934							
.965		-.0539								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (5) = 11.928 BETA (2) = .186 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0281	-.4742	-.4692	-.2054	.3341	.3840	.3656	.2684	-.5263	
.010		-.4172	-.4585		-.3398	-.1966	-.2822	-.4330		
.020		-.4020		.0000	-.4397	-.3423	-.3934	-.4776	-.6360	
.040			-.4450	-.4806						
.041	-.1368									
.059					-.5581	-.4966	-.5271	-.5842		
.069									-.6101	
.089					-.6386					
.091				-.5029						
.096			-.4168							
.094		-.4602								
.113	-.1786									
.150					-.7395	-.6926	-.6850	-.6775		
.157									-.6070	
.163			.0000							
.177				-.4913						
.229		-.5300								
.246			-.4672							
.247	-.1696									
.250					-.7213	-.7042	-.6443	-.6661		
.274				-.5117						
.345									-.6049	
.362		-.3830								
.390			-.4462							
.400					-.6949	-.7061		-.6613		
.402				-.5198						
.418										-.6018
.429	-.2548									
.497		-.4096								
.503									-.6063	
.547	-.2558									
.550					-.6851	-.6645				
.565				-.5136						
.600								-.6235		
.633	-.4528									
.637			-.5614							
.650							-.6027			
.670									-.5856	
.700		-.4773				-.6113				
.723										-.5710
.725					-.4191					
.727	-.4349									
.750							-.5411	-.5932		
.760				-.2418						
.775					-.4001	-.5487				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U24)

ALPHA (5) = 11.928 BETA (2) = .186

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1439									
.798			-.2541							
.808				-.2722						
.834		-.1390								
.839			-.2175							
.850					-.3021	-.4657	-.4904			
.857				-.2228						
.862									-.5754	
.865		-.1817								
.879			-.1395							
.900		-.0706			-.2592			-.5759		
.905				-.2956						
.919			-.0679							
.950					-.2099	-.3510	-.4553			
.953				-.2624						
.955			-.0989							
.965		-.0520								

ALPHA (5) = 11.922 BETA (3) = 4.256 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0948	-.5105	-.5181	-.4321	.1503	.1924	.1855	.0901	-.6377	
.010		-.4970	-.5197		-.4876	-.3562	-.4147	-.5372		
.020		-.4922		.0000	-.5636	-.4840	-.5115	-.5842	-.6218	
.040			-.5249	-.4297						
.041	-.2059									
.050					-.6564	-.5993	-.6178	-.6659		
.069									-.6116	
.080					-.6735					
.081				-.4209						
.085			-.4838							
.094		- 5616								
.113	-.2265									
.150					-.6780	-.7217	-.6983	-.6910		
.157									-.6000	
.163			.0130							
.177				-.4482						
.229		-.6881								
.245			-.4778							
.247	- 2622									
.250					-.6362	-.6879	-.6675	-.6905		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU24)

ALPHA (5) = 11.922 BETA (3) = 4.256

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4629						
.345									-.5955	
.362		-.3619								
.390			-.5524							
.400					-.6252	-.6872		-.6182		
.402				-.5219						
.418										-.5941
.429	-.2890									
.497		-.3688								
.503									-.6031	
.547	-.2194									
.550					-.5530	-.6423				
.565				-.5359						
.600								-.6097		
.633	-.4148									
.637			-.5090							
.650							-.6237			
.670									-.5865	
.700		-.4058				-.5904				
.723										-.5733
.725					-.2356					
.727	-.4090									
.750							-.5864	-.5854		
.760				-.2671						
.775					-.2649	-.5407				
.793	-.0252									
.798			-.2281							
.809				-.3135						
.844		-.2121								
.849			-.1654							
.850					-.2438	-.5048	-.5629			
.857				-.2804						
.862									-.5737	
.865		-.2239								
.879			-.1704							
.900		-.1278			-.2769			-.5712		
.905				-.2433						
.919			-.1251							
.950					-.3079	-.1469	-.4606			
.953				-.1881						
.955			-.1039							
.985		-.1208								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000
BDFLAP = .000 L-ELVN = .000
R-ELVN = .000 MACH = 1.100

ALPHA (1) = -3.988 BETA (1) = -3.842 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7900	.8870	.9720	1.0000
X/CW										
.000	-.2878	-.1145	-.1569	.2656	.5942	.5173	.4748	.4887	-.6239	
.010		-.0523	-.0445		.7193	.6819	.6487	.5670		
.020		-.0463		.0000	.6412	.5915	.5641	.5243	-.1342	
.040			.0423	.4673						
.041	-.1526									
.050					.4311	.3814	.3598	.3402		
.059									-.1980	
.080					.2473					
.081				.3565						
.085			.2433							
.094		-.0142								
.113	-.1184									
.150					.0247	.0015	-.0162	-.0118		
.157									-.3508	
.163			.0000							
.177				.0888						
.229		.0266								
.246			.1758							
.247	.0011									
.250					-.1454	-.2025	-.2245	-.2611		
.274				-.0338						
.345									-.3648	
.352		.2108								
.380			-.0126							
.400					-.0812	-.2158		-.4710		
.402				-.1379						
.418										-.7040
.439	.1197									
.491		.0217								
.503									-.4082	
.547	.1277									
.550					.0870	-.0512				
.555				.1822						
.610								-.2510		
.638	-.0222									
.647			.2299							
.650							-.1718			
.670									-.1921	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU29)

ALPHA (1) = -3.988 BETA (1) = -3.842

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.2546				-.0602				
.723										-.6510
.725					-.0081					
.727	.2238									
.750							-.0925	-.1207		
.760				-.0631						
.775					.0135	-.0887				
.793	.3525									
.798			-.0489							
.802				.0463						
.834		-.0147								
.839			.0746							
.850					.0031	-.1208	.0114			
.857				.0278						
.862									.0139	
.885		-.0283								
.879			.0365							
.900		.0019			-.0369			.1158		
.905				-.0076						
.919			-.0318							
.950					.0623	.1290	.1516			
.953				.0274						
.965			.0427							
.985		.0772								

ALPHA (1) = -3.992 BETA (2) = .191 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2843	-.1253	-.1074	.2703	.5361	.4375	.3869	.3966	-.7070	
.010		-.0998	-.0377		.6522	.6261	.5929	.5265		
.020		-.0877		.0000	.5861	.5481	.5282	.4904	-.2147	
.040			.0427	.4124						
.041	-.2489									
.050					.4116	.3697	.3527	.3292		
.069									-.2553	
.090					.2373					
.091				.3139						
.095			.2065							
.094		-.0499								
.113	-.1904									
.150					.0331	.0330	.0094	.0107		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (1) = -3.982 BETA (2) = .191

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3645	
.163			.0000							
.177				.0855						
.229		.0184								
.246			.1667							
.247	-.0283									
.250					-.0985	-.1546	-.1732	-.2301		
.274				-.0256						
.345									-.2952	
.362		.1916								
.380			-.0116							
.400					.0408	-.0462		-.3023		
.402				-.0457						
.418										.7947
.429	.1003									
.497		.0288								
.503									-.3083	
.547	.1196									
.550					.0684	-.0680				
.565				.1589						
.600								-.3111		
.633	.0438									
.637			.2067							
.650							-.1944			
.670									-.2558	
.700		.2337				-.0893				
.723										-.6779
.725					-.0342					
.727	.2121									
.750							-.1426	-.1969		
.760				-.0895						
.775					-.0333	-.1222				
.793	.3250									
.799			-.0760							
.808				-.0151						
.834		-.0447								
.839			.0038							
.850					-.0477	-.1747	-.0893			
.857				-.0344						
.862									-.0309	
.875		-.0941								
.879			-.0192							
.900		-.0425			-.1133			.0292		
.905				-.0630						
.919			-.1054							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (1) = -3.982 BETA (-2) = .191

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					-.0616	-.0233	.0632			
.953				-.0923						
.955			-.0392							
.965		.0025								

ALPHA (1) = -3.987 BETA (3) = 4.273 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2766	-.1354	-.0478	.3348	.4986	.3735	.3015	.3037	-.7659	
.010		-.0849	.0083		.6000	.5477	.5100	.4490		
.020		-.0794		.0000	.5402	.4813	.4496	.4172	-.2994	
.040			.0658	.3998						
.041	-.3037									
.050					.3696	.3168	.2939	.2755		
.069									-.3149	
.080					.2213					
.081				.3164						
.085			.2344							
.094		-.0611								
.113	-.2443									
.150					.0395	.0198	-.0230	-.0083		
.157									-.3756	
.163			.0000							
.177				.1211						
.229		.0319								
.246			.1776							
.247	-.0352									
.250					-.0859	-.1575	-.1673	-.2019		
.274				.0130						
.345									-.3279	
.352		.2220								
.390			.0238							
.400					.0354	-.0398		-.3016		
.402				-.0428						
.418										-.4236
.429	.1426									
.497		.0542								
.503									-.3106	
.547	.1433									
.550					.0493	-.0724				
.565				1442						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (1) = -3.987 BETA (3) = 4.273

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600										
.633	.0486							-.3267		
.637			.1832							
.650							-.2077			
.670										
.700		.2115							-.2304	
.723						-.1149				
.725										-.3769
.727	.1872				-.0680					
.750										
.760							.1783	-.2235		
.775				-.1095						
.793	.3031				.0725	-.1516				
.798			-.0968							
.808				-.0623						
.834		-.0666								
.839			-.0569							
.850					-.0895	-.2057	-.1569			
.857				-.1089						
.862										
.865		-.1435							-.0113	
.879			-.0764							
.900		-.0825								
.905					-.1727			-.0166		
.919				-.1089						
.950			-.1575							
.953					-.1407	-.1201	-.0121			
.955				-.1532						
.965			-.1198							
		-.0773								

ALPHA (2) = .056 BETA (1) = -3.867 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/CW										
.000	-.1475	-.0441	-.0048	.4577	.6731	.6100	.5718	.5813	-.3631	
.010		-.0654	.0331		.5591	.5733	.5241	.4112		
.020		-.0956		.0000	.4499	.4221	.3909	.3460	-.1553	
.040			.0597	.2954						
.041	-.1510									
.050					.2146	.1626	.1388	.1214		
.069									-.2292	
.080					.0091					

AMES 11 073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (2) = .056 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1450						
.086			.1684							
.094		-.0923								
.113	-.1142									
.150					-.2253	-.2568	-.2587	-.2104		
.157									-.4489	
.163			.0000							
.177				-.0741						
.229		-.0170								
.246			.0177							
.247	-.0809									
.250					-.3371	-.4093	-.4280	-.4336		
.274				-.2143						
.345									-.4697	
.352		.1176								
.370			-.1803							
.400					-.4635	-.5536		-.6472		
.402				-.3784						
.418										-.1450
.429	.0719									
.497		-.0987								
.503									-.5371	
.547	.0350									
.550					-.0664	-.3537				
.565				.0579						
.600								-.6266		
.633	-.1769									
.637			.1272							
.650							-.5311			
.670									-.3767	
.700		.1283				-.1232				
.723										-.3883
.725					-.0426					
.727	.0435									
.750							-.0761	-.2478		
.760				-.0792						
.775					.0091	-.0672				
.793	.2801									
.798			-.0704							
.808				.0362						
.834		-.0317								
.839			.0533							
.850					.0076	-.0105	.1127			
.857				.0029						
.862									-.1999	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (2) = .056 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0141								
.879			.0130							
.900		-.0162								
.905					.0031			-.1163		
.919				-.0226						
.950			-.0462							
.953					.0713	.1351	.1837			
.955				.0226						
.965			.0058							
		.0356								

ALPHA (2) = .058 BETA (2) = .181 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1725	-.1268	-.0301	.4235	.6151	.5422	.4908	.5105	-.2277	
.010		-.1696	-.0121		.4800	.4812	.4364	.3470		
.020		-.1915		.0000	.3756	.3433	.3258	.2925	-.1615	
.040			.0353	.2325						
.041	-.2283									
.050					.1608	.1005	.0865	.0819		
.059									-.2367	
.080					-.0232					
.081				.009						
.086			.1300							
.094		-.1094								
.113	-.1910									
.150										
.157					-.2356	-.2684	-.2715	-.2260		
.163			.0000						-.4491	
.177				-.0925						
.229		-.0298								
.246			-.0089							
.247	-.0993									
.250										
.274					-.3368	-.3758	-.4202	-.4395		
.345				-.2177						
.362		.0970							-.4541	
.390			-.1804							
.400										
.402					-.4503	-.5265		-.6159		
.418				-.3663						
.429	.0613									-.1815

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (2) = .058 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1101								
.503									-.5148	
.547	.0079									
.550					-.0052	-.1401				
.565				.0992						
.600								-.5943		
.633	-.2034									
.637			.1384							
.650							-.1969			
.670									-.3424	
.700		.1505				-.1212				
.723										-.4462
.725					-.0568					
.727	.1124									
.750							-.0758	-.1318		
.760				-.1023						
.775					-.0446	-.1212				
.793	.2636									
.798			-.0982							
.808				-.0136						
.834		-.0652								
.839			-.0010							
.850					-.0539	-.1359	.0679			
.857				-.0506						
.862									-.2098	
.865		-.0678								
.879			-.0405							
.900		-.0571			-.1077			.0945		
.905				-.0744						
.919			-.0873							
.950					-.0112	.0699	.1344			
.953				-.0853						
.955			-.0751							
.965		-.0513								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (2) = .056 BETA (3) = 4.249 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1912	-.2406	-.0629	.4165	.5776	.4797	.4275	.4236	-.1921	
.010		-.2826	-.0312		.4143	.4028	.3500	.2453		
.020		-.2835		.0000	.3208	.2686	.2354	.1905	r.2231	
.040			.0269	.2162						
.041	-.2902									
.050					.1345	.0458	.0170	-.0076		
.069									-.2836	
.080					-.0421					
.081				.1028						
.086			.1520							
.094		-.1192								
.113	-.2489									
.150					-.2190	-.2761	-.2922	-.2767		
.157									-.4776	
.163			.0000							
.177				-.0773						
.229		-.0144								
.246			.0128							
.247	-.0902									
.250					-.3152	-.3778	-.3973	-.4593		
.274				-.1869						
.345									-.4805	
.362		.1259								
.390			-.1611							
.400					-.4035	-.5049		-.6215		
.402				-.3291						
.418										-.2724
.429	.0803									
.497		-.0868								
.503									-.5276	
.547	.0318									
.550					-.0147	-.1180				
.565				.0732						
.600								-.5249		
.633	-.1715									
.637			.1094							
.650							-.2021			
.670									-.3191	
.700		.1221				-.1386				
.723										-.5527
.725					-.0889					
.727	.0805									
.750							-.1513	-.0321		
.760				-.1324						
.775					-.0958	-.1657				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (2) = .056 BETA (3) = 4.249

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2267									
.798			-.1252							
.808				-.0678						
.834		-.0973								
.839			-.0650							
.850					-.1074	-.1920	-.0071			
.857				-.1093						
.862									-.2283	
.865		-.1256								
.879			-.1008							
.900		-.1135			-.1827			.1205		
.905				-.1363						
.919			-.1464							
.950					-.1494	-.0687	.0891			
.953				-.1542						
.955			-.1426							
.965		-.1328								

ALPHA (3) = 3.948 BETA (1) = -3.871 MACH = 1.0978 Q = 589.38 P = 710.48 RN/L = 3.1840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0806	-.0822	-.1366	.4352	.7106	.6796	.6638	.6295	.0042	
.010		-.1558	-.1236		.3254	.3945	.3722	.1496		
.020		-.1806		.0000	.2041	.2078	.1684	.0795	-.2516	
.040			-.0640	.0469						
.041	-.1525									
.050					-.0304	-.0639	-.0961	-.1537		
.069									-.3224	
.080					-.2194					
.081				-.1110						
.086			-.0098							
.094		-.2299								
.113	-.1308									
.150					-.3923	-.4521	-.4432	-.4042		
.157									-.5449	
.163			.0000							
.177				-.2663						
.229		-.0908								
.246			-.1441							
.247	-.1756									
.250					-.5050	-.5780	-.5965	-.5784		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (3) = 3.948 BETA (1) = -3.871

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3729						
.345									-.6428	
.362		.0318								
.390			-.3063							
.400					-.5844	-.7219		-.6792		
.402				-.5066						
.418										-.4355
.429	-.0023									
.497		-.2061								
.503									-.7160	
.547	-.0784									
.550					-.3122	-.6843				
.565				-.2087						
.600								-.4959		
.633	-.3187									
.637			-.1262							
.650							-.5223			
.670									-.6987	
.700		-.1672				-.4031				
.723										-.7854
.725					-.1266					
.727	-.3079									
.750							-.4399	-.3837		
.760				-.0953						
.775					-.0563	-.1295				
.793	.1995									
.798			-.1076							
.808				.0748						
.834		-.0527								
.839			.0756							
.850					.0362	-.0803	-.3358			
.857				.0473						
.862									-.6583	
.865		-.0479								
.879			.0451							
.900		.0123			.0319			-.2768		
.905				.0331						
.919			.0135							
.950					.0581	.0281	-.2360			
.953				.0442						
.955			.0292							
.965		.0566								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (3) = 3.948 BETA (2) = .177 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1176	-.2360	-.2417	.3861	.6303	.5959	.5935	.5514	-.0888	
.010		-.3032	-.1832		.2230	.2953	.2352	.0582		
.020		-.3004		.0000	.1159	.1243	.0824	-.0108	-.3365	
.040			-.1066	.0037						
.041	-.2217									
.050					-.0828	-.1191	-.1576	-.2129		
.069									-.3827	
.080					-.2552					
.081				-.1255						
.086			-.0165							
.094		-.2925								
.113	-.2008									
.150					-.4014	-.4688	-.4654	-.4340		
.157									-.5800	
.163			.0000							
.177				-.2540						
.229		-.0924								
.246			-.1481							
.247	-.2250									
.250					-.4899	-.5768	-.5899	-.5955		
.274				-.3515						
.345									-.6687	
.362		.0341								
.390			-.2963							
.400					-.5464	-.6814		-.7636		
.402				-.4805						
.418										-.5994
.429	.0025									
.497		-.2082								
.503									-.7308	
.547	-.0883									
.550					-.2243	-.6473				
.565				-.1496						
.600								-.5656		
.633	-.3185									
.637			-.0836							
.650							-.5761			
.670									-.6571	
.700		-.0603				-.1700				
.723										-.6893
.725					-.1303					
.727	-.2386									
.750							-.4340	-.3691		
.760				-.1408						
.775					-.0459	-.1387				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE0U25)

ALPHA (3) = 3.948 BETA (2) = .177

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2171									
.798			-.1059							
.808				-.0142						
.834		-.0641								
.839			-.0242							
.850					-.0244	-.0580	-.2243			
.857				-.0455						
.862									-.5715	
.865		-.1150								
.879			-.0423							
.900		-.0482			-.0407			-.2585		
.905				-.0585						
.919			-.0767							
.950					.0152	.0223	.0533			
.953				-.0370						
.955			-.0646							
.965		-.0750								

ALPHA (3) = 3.950 BETA (3) = 4.239 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1623	-.4418	-.3167	.3094	.5637	.5199	.4913	.4344	-.2835	
.010		-.4853	-.1843		.1235	.1826	.0957	-.0747		
.020		-.4434		.0000	.0385	.0182	-.0379	-.1508	-.4833	
.040			-.0993	-.0155						
.041	-.2889									
.050					-.1255	-.1961	-.2482	-.3168		
.069									-.4933	
.080					-.2767					
.081				-.1218						
.086			-.0145							
.094		-.3142								
.113	-.2858									
.150					-.4087	-.4939	-.5189	-.5056		
.157									-.6476	
.163			.0000							
.177				-.2365						
.229		-.0811								
.246			-.1186							
.247	-.2463									
.250					-.4649	-.6023	-.6285	-.6415		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (3) = 3.950 BETA (3) = 4.239

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3191					-.7052	
.345										
.362		.0617								
.390			-.2668							
.400					-.3415	-.6561		-.7773		
.402				-.4448						-.7480
.418										
.429	.0362									
.497		-.1790							-.6990	
.503										
.547	-.0583									
.550					-.2318	-.5764				
.565				-.1491						
.600								-.6917		
.633	-.2939									
.637			-.0475							
.650							-.6197			
.570									-.5890	
.700		-.0354				-.2554				
.723										-.6005
.725					-.1547					
.727	-.1678									
.750							-.2969	-.4166		
.760				-.1536						
.775					-.1072	-.1835				
.793	.1788									
.798			-.1346							
.808				-.1192						
.834		-.1114								
.849			-.1060							
.850					-.1077	-.1598	-.0288			
.857				-.1447						
.862									-.5256	
.865		-.1718								
.879			-.1265							
.900		-.1259			-.1696			-.3501		
.905				-.1627						
.919			-.1586							
.950					-.1000	-.0332	.0895			
.953				-.1728						
.955			-.1681							
.965		-.1809								

AMES 11-073(OA148) -140A/B/C/R GRB LEFT WING TOP (XEBU25)

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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0371	-.2242	-.5171	.2495	.6190	.6226	.5952	.4980	-.2797	
.010		-.3209	-.5249		-.0405	.0790	-.0190	-.2159		
.020		-.3007		.0000	-.1304	-.1030	-.1594	-.3004	-.6647	
.040			-.3784	-.1976						
.041	-.1564									
.050					-.3046	-.3244	-.3822	-.4803		
.069									-.6114	
.080					-.4586					
.081				-.3142						
.086			-.2812							
.094		-.2784								
.113	-.1267									
.150					-.6596	-.6513	-.6723	-.6502		
.157									-.6110	
.163			.0000							
.177				-.4275						
.229		-.2408								
.246			-.2360							
.247	-.1873									
.250					-.6999	-.7779	-.6747	-.6593		
.274				-.4822						
.345									-.5605	
.362		-.0050								
.380			-.3812							
.400					-.7107	-.7943		-.6793		
.402				-.5850						
.418										-.5825
.429	-.0920									
.497		-.2876								
.503									-.5548	
.547	-.1115									
.550					-.4483	-.6039				
.585				-.4046						
.600								-.5634		
.633	-.3973									
.637			-.3204							
.650							-.5707			
.670									-.5239	
.700		-.5061				-.5774				
.723										-.5035
.725					-.2516					
.727	-.4403									
.750							-.4945	-.5415		
.760				-.1289						
.775					-.2875	-.4422				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (4) = 7.932 BETA (1) = -3.857

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1204									
.798			-.1076							
.808				-.0091						
.834		.0268								
.839			.0150							
.850					-.1686	-.3673	-.4182			
.857				-.0161						
.862									-.4770	
.865		-.0020								
.879			-.0111							
.900		.0401			-.1052			-.4875		
.905				-.0348						
.919			-.0214							
.950					-.0033	-.2180	-.3600			
.953				-.0028						
.955			-.0019							
.965		-.0140								

ALPHA (4) = 7.938 BETA (2) = .185 MACH = 1.0996 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1044	-.4625	-.6895	.0588	.4978	.4946	.4698	.3757	-.4784	
.010		-.5253	-.5996		-.1558	-.0516	-.1541	-.3468		
.020		-.4958		.0000	-.2339	-.2091	-.2671	-.4048	-.6420	
.040			-.4724	-.2365						
.041	-.2209									
.050					-.3631	-.4013	-.4647	-.5605		
.069									-.6306	
.080					-.4931					
.081				-.3069						
.086			-.3633							
.094		-.3664								
.113	-.2216									
.150					-.6600	-.6767	-.7026	-.6985		
.157									-.6109	
.163			.0000							
.177				-.3877						
.229		-.2384								
.245			-.2774							
.247	-.2651									
.250					-.6693	-.7859	-.7107	-.6968		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEQU25)

ALPHA (4) = 7.938 BETA (2) = .185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CR

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4431						
.345									-.5992	
.362		.0045								
.390			-.4146							
.400					-.6657	-.7999		-.7262		
.402				-.5614						
.418										-.5976
.429	-.0486									
.497		-.3017								
.503									-.5937	
.547	-.1237									
.550					-.3806	-.6521				
.565				-.4307						
.600								-.6109		
.633	-.4073									
.637			-.3217							
.650							-.5872			
.670									-.5836	
.700		-.4261				-.5361				
.723										-.5429
.725					-.2097					
.727	-.4147									
.750							-.5230	-.5729		
.760				-.1356						
.775					-.2183	-.4015				
.793	.0996									
.798			-.1261							
.808				-.0660						
.834		-.0637								
.839			-.0175							
.850					-.1429	-.2493	-.4364			
.857				-.1021						
.862									-.5140	
.865		-.0980								
.879			-.0380							
.900		-.0040			-.1249			-.5035		
.905				-.1237						
.919			-.0722							
.950					-.0215	-.0819	-.3973			
.953				-.1069						
.965			-.0777							
.965		-.0878								

AMES 11-073(OA148) -140A/C/R ORG LEFT WING TOP (XE8W25)

ALPHA (4) = 7.937 BETA (3) = 4.238 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1645	-.6822	-.4563	-.0273	.3618	.3638	.3254	.2193	-.6870	
.010		-.6051	-.4198		-.2798	-.1922	-.3099	-.4868		
.020		-.5788		.0000	-.3404	-.3221	-.4058	-.5446	-.7381	
.040			-.3864	-.1246						
.041	-.2840									
.050					-.4139	-.4916	-.5572	-.6815		
.069									-.6813	
.080					-.5056					
.081				-.1849						
.085			-.2361							
.094		-.6513								
.113	-.3123									
.150					-.5898	-.7169	-.7526	-.7700		
.157									-.6739	
.163			.0000							
.177				-.2905						
.229		-.1654								
.246			-.2573							
.247	-.3218									
.250					-.5814	-.8031	-.8281	-.8078		
.274				-.3945						
.345									-.6660	
.362		.0747								
.390			-.3346							
.422					-.6015	-.8192		-.8033		
.422				-.5211						
.418										-.6591
.429	-.0205									
.497		-.2600								
.503									-.6670	
.547	-.0994									
.550					-.4645	-.7181				
.555				-.3005						
.600								-.6747		
.633	-.3886									
.637			-.1942							
.650							-.6500			
.670									-.6487	
.700		-.2831				-.3991				
.723										-.6280
.725					-.1749					
.727	-.3785									
.750							-.5451	-.6372		
.760				-.2107						
.775					-.1293	-.2677				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (4) = 7.937 BETA (3) = 4.238

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1056									
.798			-.1707							
.808				-.1868						
.834		-.1545								
.839			-.1634							
.850					-.1298	-.2104	-.4936			
.857				-.2021						
.862									-.6264	
.865		-.1992								
.879			-.1382							
.900		-.1307			-.1799			-.5830		
.905				-.1624						
.919			-.1539							
.950					-.1092	-.1309	-.4251			
.953				-.1892						
.955			-.1593							
.965		-.1767								

ALPHA (5) = 11.970 BETA (1) = -3.845 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0424	-.4526	-.6311	-.1502	.3638	.4011	.3596	.2476	-.6077	
.010		-.5137	-.5832		-.4524	-.3026	-.4096	-.5812		
.020		-.4990		.0000	-.5632	-.4671	-.5369	-.6358	-.6499	
.040			-.4936	-.6029						
.041	-.1421									
.050					-.6957	-.6418	-.6906	-.7653		
.069									-.5920	
.080					-.7944					
.091				-.6861						
.096			-.4064							
.094		-.3647								
.113	-.1281									
.150					-.8088	-.7549	-.7352	-.7883		
.157									-.5758	
.163			.0000							
.177				-.5057						
.229		-.3168								
.245			-.3750							
.247	-.1816									
.250					-.7969	-.7535	-.7521	-.7802		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (5) = 11.970 BETA (1) = -3.845

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4359						
.345									-.5777	
.362		-.2124								
.390			-.4424							
.400					-.7226	-.7186		-.6058		
.402				-.5791						
.418										-.5899
.429	-.2531									
.497		-.3649								
.503									-.5782	
.547	-.1366									
.550					-.6823	-.6994				
.565				-.4166						
.600								-.5794		
.633	-.4435									
.637			-.4114							
.650							-.6198			
.670									-.5475	
.700		-.5556				-.6504				
.723										-.5308
.725					-.5047					
.727	-.4986									
.750							-.5841	-.5793		
.760				-.2622						
.775					-.5467	-.5788				
.793	.0380									
.798			-.2503							
.808				-.3860						
.834		-.0686								
.839			-.1305							
.850					-.3504	-.4612	-.5540			
.857				-.3722						
.862									-.5099	
.865		-.1318								
.879			-.1741							
.900		-.0267			-.3076			-.5655		
.905				-.3086						
.919			-.1580							
.950					-.2112	-.3668	-.4876			
.953				-.2124						
.955			-.0704							
.985		-.1404								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (5) = 11.981 BETA (2) = .187 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1356	-.6314	-.6120	-.4004	.1973	.2399	.2114	.0987	-.7337	
.010		-.5451	-.5973		-.5873	-.4259	-.5163	-.6844		
.020		-.5226		.0000	-.6727	-.5821	-.6417	-.7340	-.6784	
.040			-.5810	-.3666						
.041	-.2385									
.050					-.7172	-.7163	-.7675	-.8350		
.069									-.6433	
.080					-.7115					
.081				-.3580						
.085			-.5397							
.094		-.5993								
.113	-.2620									
.150					-.6636	-.8257	-.7953	-.8846		
.157									-.6331	
.163			.0000							
.177				-.3544						
.229		-.6870								
.246			-.4692							
.247	-.2651									
.250					-.6775	-.8146	-.8129	-.6768		
.274				-.5271						
.345									-.6295	
.382		-.1734								
.390			-.5915							
.400					-.7191	-.7692		-.6559		
.402				-.6298						
.418										-.6213
.429	-.2544									
.497		-.3370								
.503									-.6297	
.547	-.0976									
.550					-.5619	-.7340				
.565				-.6195						
.600								-.6464		
.633	-.5066									
.637			-.6548							
.650							-.6707			
.670									-.5994	
.700		-.5449				-.6638				
.723										-.5778
.725					-.3792					
.727	-.5193									
.750							-.6476	-.6272		
.760				-.2308						
.775					-.3875	-.5651				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU25)

ALPHA (5) = 11.981 BETA (2) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0646									
.798			-.1851							
.808				-.3225						
.834		-.1366								
.839			-.1132							
.850					-.3177	-.4710	-.6175			
.857				-.3450						
.862									-.5562	
.865		-.1470								
.879			-.0981							
.900		-.0498			-.2847			-.6135		
.905				-.3545						
.919			-.1566							
.950					-.1797	-.2598	-.5525			
.953				-.3123						
.955			-.1623							
.965		-.1334								

ALPHA (5) = 11.975 BETA (3) = 4.250 MACH = 1.0981 C = 599.46 P = 710.25 RN/L = 3.1817

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2225	-.6817	-.6706	-.4016	.0695	.0823	.0402	-.0858	-.8193	
.010		-.6555	-.6622		-.6593	-.5544	-.6533	-.7996		
.020		-.6529		.0000	-.7269	-.6901	-.7515	-.9406	-.7363	
.040			-.6346	-.1538						
.041	-.3382									
.050					-.7531	-.8037	-.8603	-.7958		
.069									-.7143	
.080					-.7519					
.081				-.2580						
.095			-.5350							
.094		-.7187								
.113	-.3284									
.150					-.6922	-.9194	-.8813	-.7750		
.157									-.7017	
.163			.0000							
.177				-.4554						
.229		-.8437								
.246			-.4782							
.247	-.3843									
.250					-.6419	-.8939	-.8677	-.7555		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U25)

ALPHA (5) = 11.975 BETA (3) = 4.250

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4477						
.345									-.6953	
.362		-.0407								
.390			-.4595							
.400					-.6549	-.8287		-.7478		
.402				-.5848						
.418										-.6927
.429	-.1894									
.497		-.3230								
.503									-.6934	
.547	-.1390									
.550					-.5448	-.7719				
.555				-.6511						
.600								-.7236		
.633	-.4816									
.637			-.4971							
.650							-.7549			
.670									-.6647	
.700		-.4608				-.6367				
.723										-.8484
.725					-.3285					
.727	-.4871									
.750							-.7362	-.7013		
.760				-.3011						
.775					-.4158	-.4931				
.793	-.0348									
.798			-.2176							
.808				-.3633						
.834		-.1870								
.839			-.2476							
.850					-.3338	-.4268	-.6899			
.857				-.3396						
.862									-.6204	
.865		-.2234								
.879			-.2221							
.900		-.1469			-.3475			-.6808		
.905				-.2829						
.919			-.2009							
.950					-.2900	-.1937	-.5952			
.953				-.3034						
.955			-.1790							
.965		-.1766								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0680 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 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4491	-.0414	-.1013	.1556	.4110	.3170	.2589	.2721	-1.0702	
.010		.0341	.0496		.6128	.5753	.5344	.4389		
.020		.0430		.0000	.5395	.4886	.4549	.3934	-.3949	
.040			.1618	.3826						
.041	-.0425									
.050					.3285	.2676	.2379	.1866		
.069									-.4711	
.080					.1299					
.081				.2548						
.086			.2842							
.094		.0556								
.113	.0407									
.150					-.1042	-.1470	-.1997	-.2037		
.157									-.5833	
.163			.0000							
.177				-.0159						
.229		.1573								
.246			.0735							
.247	.0711									
.250					-.3048	-.3610	-.4108	-.5095		
.274				-.1741						
.345									-.5376	
.362		.1509								
.390			-.1428							
.400					-.2237	-.3446		-.6586		
.402				-.2063						
.418										-.5574
.429	.1562									
.497		-.0921								
.503									-.4599	
.547	.0199									
.550					-.1690	-.3353				
.565				-.0474						
.600								-.2228		
.633	-.1227									
.637			.0131							
.650							-.2488			
.670									-.0439	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (1) = -3.986 BETA (1) = -3.845

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0461				-.1480				
.723										-.5013
.725					-.1335					
.727	.0191									
.750							.0614	.0698		
.760				-.1960						
.775					.0191	-.0554				
.793	.1652									
.798			-.1885							
.809				.0503						
.834		-.1779								
.839			.0600							
.850					.0704	.0361	.0996			
.857				.0489						
.862									.0391	
.865		-.0207								
.879			.0419							
.900		-.0333			.0555			.1148		
.905				.0468						
.913			.0338							
.950					.0709	.1190	.1332			
.953				.0553						
.955			.0371							
.965		.0660								

ALPHA (1) = -3.977 BETA (2) = .190 MACH = .8990 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4714	-.0065	-.0294	.1548	.3502	.2274	.1606	.1612	-.7784	
.010		.0295	.0671		.5425	.4962	.4623	.3796		
.020		.0273		.0000	.4799	.4281	.3957	.3411	-.4582	
.040			.1431	.3207						
.041	-.0990									
.050					.2855	.2318	.2107	.1569		
.069									-.5075	
.080					.1076					
.081				.2126						
.086			.2444							
.094		.0245								
.113	.0203									
.150					-.0935	-.1327	-.1908	-.2026		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157										
.163			.0000						-.5647	
.177				-.0201						
.229		.1265								
.246			.0581							
.247	.0494									
.250					-.2766	-.3125	-.3641	-.5047		
.274				-.1635						
.345										
.362		.1250							-.4677	
.390			-.1420							
.400					-.2215	-.2744		-.6122		
.402				-.2116						
.418										
.429	.1306									-.4291
.497		-.1014								
.503										
.547	.0029								-.4089	
.550					-.2043	-.3564				
.565				-.0945						
.600								-.5731		
.633	-.1307									
.637			-.0401							
.650							-.4398			
.670										
.700		.0021							-.0581	
.723						-.3004				
.725										-.4211
.727	-.0127				-.3060					
.750										
.760				-.3301			.0597	.0689		
.775					-.0445	-.1013				
.793	.1036									
.799			-.2671							
.808				-.0371						
.854		-.2446								
.859			-.0525							
.860					.0390	.0100	.0920			
.857				-.0206						
.862										
.865		-.1278							.0354	
.879			-.0446							
.900		-.1150			.0262			.1085		
.905				.0016						
.919			-.0223							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (1) = -3.977 BETA (2) = .190

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0491	.1071	.1223			
.953				.0094						
.955			-.0099							
.965		.0149								

ALPHA (1) = -3.985 BETA (3) = -.276 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4937	.0153	.0226	.1842	.3053	.1630	.0643	.0625	-.7301	
.010		.1354	.0818		.4723	.4116	.3731	.2939		
.020		.0255		.0000	.4160	.3480	.3165	.2609	-.5338	
.040			.1381	.2754						
.041	.1316									
.050					.2337	.1717	.1488	.1021		
.069									-.5837	
.080					.0703					
.081				.1797						
.086			.2179							
.094		.0189								
.113	-.0053									
.150					-.1110	-.1570	-.2019	-.2380		
.157									-.6241	
.163			.0000							
.177				-.0256						
.229		.1177								
.246			.0374							
.247	.0464									
.250					-.2825	-.3168	-.3684	-.5058		
.274				-.1511						
.342									-.5160	
.352		.1155								
.390			-.1302							
.400					-.2373	-.3449		-.6145		
.402				-.2063						
.418										-.5104
.429	.1162									
.437		-.1032								
.503									-.5246	
.547	-.0025									
.560					-.2430	-.3887				
.565				-.1182						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (1) = -3.985 BETA (3) = 4.276

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.6088		
.633	-.1235									
.637			-.0749							
.650							-.5195			
.670									-.0692	
.700		-.0293				-.4060				
.723										-.2957
.725					-.3588					
.727	-.0474									
.750							-.1329	-.0280		
.760				-.3411						
.775					-.3645	-.4086				
.793	0661									
.798			-.3042							
.808				-.2615						
.834		-.3214								
.839			-.2736							
.850					-.1560	-.1220	.0244			
.857				-.1335						
.862									.0192	
.965		-.3344								
.879			-.1700							
.900		-.2525			-.0732			.0955		
.905				-.0822						
.919			-.1057							
.950					-.0299	.0614	.0971			
.953				-.0467						
.955			-.0583							
.965		-.0438								

ALPHA (2) = .061 BETA (1) = -3.869 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3781	.0420	.0973	.3690	.5486	.4783	.4448	.4479	-.3780	
.010		.0416	.1385		.4531	.4582	.4085	.2610		
.020		.0244		.0000	.3328	.2921	.2624	.1852	-.3147	
.040			.1772	.1905						
.041	-.1554									
.050					.0674	.0017	-.0248	-.0691		
.069									-.3987	
.080					-.1568					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (2) = .061 BETA (1) = -3.869

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.0287						
.086			.2105							
.094		-.0004								
.113	-.0417									
.150					-.3661	-.4523	-.4829	-.4462		
.157									-.6914	
.163			.0000							
.177				-.2864						
.229		.0948								
.246			-.0972							
.247	.0184									
.250					-.5471	-.6401	-.6684	-.6783		
.274				-.4101						
.345									-.7400	
.302		.0251								
.390			-.3518							
.400					-.3364	-.5681		-.9539		
.402				-.4757						
.418										-.3327
.429	.0814									
.497		-.2690								
.503									-.7315	
.547	-.1249									
.550					-.2137	-.3710				
.565				-.1079						
.600								-.1745		
.633	-.3259									
.637			-.0367							
.650							-.1023			
.670									-.1553	
.700		-.0155				-.1056				
.723										-.2298
.725					-.1091					
.727	-.0378									
.750							.0714	.0796		
.760				-.1694						
.775					.0311	-.0264				
.793	.1236									
.799			-.1560							
.808				.0512						
.834		-.1650								
.853			.0600							
.850					.0727	.0638	.1037			
.857				.0576						
.852									-.0602	

AMES 11-073(OA14B) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (2) = .061 BETA (1) = -3.869

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.855		-.0231								
.879			.0338							
.900		-.0352			.0634			.1140		
.905				.0537						
.919			.0326							
.950					.0710	.1201	.1058			
.953				.0435						
.955			.0341							
.965		.0722								

ALPHA (2) = .067 BETA (2) = .174 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4043	.0175	.0895	.3470	.4893	.4213	.3698	.3689	-.3911	
.019		.0028	.1161		.3629	.3667	.3192	.1789		
.020		-.0148		.0000	.2505	.2091	.1773	.1107	-.3778	
.040			.1510	.1386						
.041	-.2031									
.058					.0127	-.0519	-.0838	-.1263		
.059									-.4553	
.080					-.1923					
.081				.0005						
.096			.1761							
.099		-.0167								
.113	-.0351									
.150					-.3920	-.4393	-.5112	-.4861		
.151									-.7424	
.154			.0000							
.177				-.2661						
.229		.0903								
.246			-.1240							
.247	.0076									
.250					-.5056	-.6244	-.6831	-.7129		
.274				-.3819						
.345									-.7541	
.262		.0171								
.380			-.3325							
.400					-.3414	-.4424		-.9415		
.409				-.4153						
.418										-.4148
.429	.0722									

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (2) = .067 BETA (2) = .174

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.2615								
.503									-.7987	
.547	-.1271									
.550					-.2679	-.4405				
.565				-.1368						
.600								-.2666		
.623	-.3003									
.637			.0187							
.650							-.3394			
.670									-.1411	
.700		-.0471				-.2163				
.723										-.2376
.725					-.2478					
.727	-.0851									
.750							.0906	.0742		
.760				-.2692						
.775					-.0360	-.0766				
.793	.0651									
.798			-.2261							
.808				-.0233						
.834		-.2121								
.839			-.0334							
.850					.0237	.0211	.0932			
.857				.0034						
.862									-.0005	
.865		-.1234								
.879			-.0239							
.900		-.0980			.0220			.1136		
.905				-.0001						
.919			-.0104							
.950					.0386	.0972	.1045			
.953				.0210						
.955			.0091							
.965		.0286								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU26)

ALPHA (2) = .063 BETA (3) = 4.252 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4453	-.0382	.0537	.3110	.4476	.3608	.3183	.3025	-.3476	
.010		-.0463	.0740		.2805	.2823	.2328	.0915		
.020		-.0491		.0000	.1817	.1354	.1002	.0316	-.4256	
.040			.1174	.0839						
.041	-.2534									
.050					-.0408	-.1032	-.1334	-.1910		
.069									-.5022	
.080					-.2153					
.091				-.0315						
.086			.1383							
.094		-.0275								
.113	-.0486									
.150										
.157					-.3806	-.4261	-.5130	-.5050		
.163			.0000						-.7630	
.177				-.2443						
.229		.0647								
.246			-.1262							
.247	-.0032									
.250					-.4888	-.6119	-.6778	-.7271		
.274				-.3454						
.345										
.362		.0069							-.7112	
.330			-.2928							
.400					-.3237	-.4420		-.8251		
.402				-.3871						
.418										
.429	.0571									-.5115
.437		-.2516								
.503										
.507	-.1329								-.6211	
.550					-.2866	-.4541				
.565				-.1649						
.600										
.633	-.2850							-.5758		
.637			-.1150							
.655										
.675							-.5535			
.700		-.0760							-.1571	
.723						-.4122				
.725										-.2541
.727	-.1004				-.3548					
.750										
.760							-.0263	.0368		
.775				-.3282						
					-.3409	-.3335				

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (2) = .063 BETA (3) = 4.252

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0248									
.798			-.2864							
.808				-.3106						
.834		-.3003								
.839			-.3016							
.850					-.0705	-.0963	.0561			
.857				-.1473						
.862									.0045	
.865		-.3564								
.879			-.1402							
.900		-.2654			-.0289			.1070		
.905				-.0666						
.919			-.0901							
.950					.0089	.0681	.0859			
.953				-.0316						
.955			-.0514							
.965		-.0513								

ALPHA (3) = 3.954 BETA (1) = -3.877 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3044	-.0463	.0523	.4022	.6063	.5667	.5440	.4811	-.2061	
.010		-.1966	.0635		.1636	.2029	.1045	-.1335		
.020		-.0956		.0000	.0286	-.0136	-.0848	-.2139	-.5399	
.040			.0967	-.0542						
.041	-.1859									
.050					-.2378	-.3323	-.3870	-.4889		
.069									-.6441	
.080					-.4707					
.081				-.2287						
.086			.0936							
.094		-.0647								
.113	-.1090									
.150					-.7065	-.7386	-.7854	-.7409		
.157									-.9824	
.163			.0000							
.177				-.4747						
.223		.0389								
.245			-.2720							
.247	-.0182									
.260					-.7649	-.9275	-.9699	-.8115		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (3) = 3.954 BETA (1) = -3.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6065						
.345									-.6745	
.362		-.0801								
.390			-.5523							
.400					-.8542	-.9429		-.6061		
.402				-.7228						
.418										-.7720
.429	.0382									
.497		-.4334								
.503									-.5641	
.547	-.2154									
.550					-.1736	-.3449				
.565				-.1339						
.600								-.4933		
.633	-.5215									
.637			-.0847							
.650							-.4206			
.670									-.3558	
.700		-.0878				-.1669				
.723										-.8615
.725					-.0908					
.727	-.1290									
.750							-.2530	-.3230		
.760				-.0888						
.775					-.0200	-.0878				
.793	.1327									
.798			-.1039							
.808				.0492						
.854		-.1130								
.859			.0627							
.860					.0593	.0264	-.0999			
.867				.0512						
.882									-.2781	
.865		-.0044								
.879			.0572							
.900		- 0030			.0499			-.1642		
.905				.0598						
.919			.0456							
.950					.0652	.1136	.0171			
.953				.0459						
.955			.0432							
.965		.0843								

AMES 11-073 OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (3) = 3.955 BETA (2) = .186 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3605	-.1469	-.0529	.3081	.5174	.4767	.4445	.3742	-.3421	
.010		-.1781	-.0180		.0529	0894	-.0189	-.2435		
.020		-.1574		.0000	-.0650	.1134	-.1903	-.3255	-.6526	
.040			.0437	-.1075						
.041	-.3462									
.050					-.2989	-.4031	-.4681	-.5601		
.069									-.7247	
.080					-.5133					
.081				-.2708						
.086			.0532							
.094		-.0777								
.113	-.1028									
.150					-.7184	-.7701	-.8188	-.7851		
.157									-.9549	
.163			.0000							
.177				-.4837						
.229		.0266								
.246			-.2852							
.247	-.0300									
.250					-.7587	-.9175	-.9866	-.8676		
.274				-.5880						
.345									-.6781	
.362		-.0867								
.390			-.5410							
.400					-.7969	-.9934		-.6760		
.402				-.6802						
.418										-.9787
.429	.0223									
.497		-.4288								
.503									-.5554	
.547	-.2325									
.550					-.2782	-.1879				
.565				-.1822						
.600								-.4923		
.633	-.5194									
.637			-.1333							
.650							-.4150			
.670									-.3164	
.700		-.1162				-.1964				
.723										-.5459
.725					-.1603					
.727	-.1655									
.750							-.1998	-.3430		
.760				-.1471						
.775					-.0638	-.1239				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU26)

ALPHA (3) = 3.955 BETA (2) = .186

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0802									
.798			-.1733							
.808				-.0179						
.834		-.1629								
.839			-.0116							
.850					.0080	-.0223	-.0375			
.857				.0085						
.862									-.2428	
.865		-.0927								
.879			-.0028							
.900		-.0674			.0136			-.1373		
.905				.0086						
.919			.0065							
.950					.0357	.0852	.0913			
.953				.0183						
.955			.0186							
.965		.0440								

ALPHA (3) = 3.963 BETA (3) = 4.243 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5852

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4309	-.2680	-.1711	.1886	.4226	.3765	.3413	.2532	-.5494	
.010		-.2625	-.0784		-.0763	-.0430	-.1591	-.3896		
.020		-.2062		.0000	-.1709	-.2295	-.3197	-.4792	-.8024	
.040			.0034	-.1763						
.041	-.5060									
.050					-.3736	-.4810	-.5635	-.6668		
.069									-.8160	
.080					-.5542					
.081				-.3061						
.086			.0186							
.094		-.1017								
.113	-.1183									
.150					-.7295	-.7950	-.8647	-.8370		
.157									-1.0123	
.163			.0000							
.177				-.4901						
.229		-.0045								
.245			-.2720							
.247	-.0400									
.250					-.7331	-.8707	-.9964	-.9951		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (3) = 3.963 BETA (3) = 4.243

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5749						
.345										
.362		-.0962							-.7705	
.390			-.5104							
.400					-.6769	-.9483		-.8728		
.402				-.6383						
.418										-.8682
.429	.0117									
.497		-.4319								
.503									-.6438	
.547	-.2279									
.560					-.3306	-.4428				
.585				-.2404						
.600								-.5533		
.633	-.4957									
.637			-.1911							
.650							-.3705			
.670									-.4108	
.700		-.1322				-.2641				
.723										-.4258
.725					-.2638					
.727	-.1714									
.750							-.1460	-.3454		
.760				-.2406						
.775					-.1413	-.1609				
.793	.0141									
.798			-.2587							
.808				-.1864						
.834		-.2796								
.839			-.1806							
.850					-.0484	-.0551	.0102			
.857				-.0817						
.862									-.2814	
.865		-.2796								
.879			-.0869							
.900		-.1889			-.0162			-.1307		
.905				-.0434						
.919			-.0631							
.950					.0126	.0634	.1034			
.953				-.0072						
.955			-.0151							
.995		-.0198								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU26)

ALPHA (4) = 7.926 BETA (1) = -3.870 MACH = .89930 Q = 600.20 P = 1080.2 RN/L = 3.5747

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2694	-.2946	-.2753	.2130	.4863	.4642	.4240	.2948	-.5829	
.010		-.3707	-.1965		-.2707	-.1757	-.3131	-.5708		
.020		-.3112		.0000	-.3718	-.3968	-.4854	-.6751	-1.0706	
.040			-.1020	-.3807						
.041	-.2076									
.050					-.5900	-.6453	-.7464	-.8792		
.069									-1.0425	
.080					-.7744					
.081				-.5430						
.086			-.0768							
.094		-.1470								
.113	-.1629									
.150					-.9878	-1.0396	-.9618	-.8694		
.157									-.9909	
.163			.0000							
.177				-.6693						
.229		-.0104								
.246			-.4362							
.247	-.0739									
.250					-1.0106	-1.0436	-.8246	-.6794		
.274				-.7687						
.345									-.5932	
.362		-.1660								
.390			-.6681							
.400					-.8596	-.7792		-.5689		
.402				-.9062						
.418										-.9031
.479	-.0048									
.497		-.5376								
.503									-.4999	
.547	-.3399									
.550					-.4030	-.6107				
.565				-.3124						
.600								-.5114		
.633	-.5873									
.637			-.1236							
.650							-.5563			
.670									-.4416	
.700		-.1537				-.4592				
.723										-.4409
.725					-.2220					
.727	-.2219									
.750							-.4894	-.4195		
.760				-.1369						
.775					-.1622	-.3359				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (4) = 7.926 BETA (1) = -3.870

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1477									
.798			-.1433							
.808				-.0144						
.834		-.1213								
.839			-.0204							
.850					-.0285	-.2481	-.4046			
.857				-.0096						
.862									-.3793	
.865		-.0718								
.879			-.0406							
.900		-.0430			-.0064			-.3777		
.905				-.0178						
.919			-.0456							
.950					.0382	-.1250	-.3219			
.953				.0083						
.955			-.0164							
.965		.0722								

ALPHA (4) = 7.938 BETA (2) = .179 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3485	-.4987	-.4011	.0297	.3500	.3250	.2811	.1516	-.8353	
.010		-.4892	-.2029		-.4101	-.3272	-.4746	-.7152		
.020		-.3610		.0000	-.4832	-.5175	-.6022	-.7953	-.8325	
.040			-.0807	-.4348						
.041	-.4082									
.050					-.6578	-.7373	-.8385	-.9797		
.069									-.5792	
.080					-.8144					
.081				-.5759						
.096			-.0724							
.098		-.1897								
.113	-.2118									
.150					-.9651	-1.0747	-1.0014	-.9882		
.157									-.5685	
.163			.0000							
.177				-.6596						
.229		-.1201								
.245			-.4253							
.247	-.0690									
.250					-.9900	-1.0822	-.8904	-.8795		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (4) = 7.938 BETA (2) = .179

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7393						
.345									-.5297	
.362		-.1825								
.390			-.6621							
.400					-.9981	-.8449		-.6596		
.402				-.8760						
.418										-.5293
.429	-.0093									
.497		-.5628								
.503									-.5271	
.547	-.3508									
.550					-.4213	-.6340				
.565				-.2674						
.600								-.5628		
.633	-.7066									
.637			-.1898							
.650							-.5913			
.670									-.4785	
.700		-.1799				-.4868				
.723										-.4409
.725					-.2620					
.727	-.2871									
.750							-.5059	-.5080		
.760				-.1946						
.775					-.2379	-.3533				
.793	.0576									
.798			-.2154							
.809				-.1184						
.834		-.1925								
.839			-.1400							
.850					-.0636	-.2415	-.4210			
.857				-.0744						
.862									-.4198	
.865		-.1844								
.879			-.0945							
.900		-.1379			-.0425			-.4633		
.905				-.0699						
.919			-.0625							
.950					.0000	-.0877	-.3498			
.953				-.0312						
.955			-.0252							
.955		-.0040								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U26)

ALPHA (4) = 7.933 BETA (3) = 4.243 MACH = .89930 Q = 600.20 P = 1080.2 R#/L = 3.574?

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4384	-.5930	-.2456	-.1367	.1906	.1714	.1160	-.0212	-.7721	
.010		-.3744	-.1828		-.5477	-.4997	-.6581	-.8906		
.020		-.3301		.0000	-.6229	-.6516	-.7706	-.9620	-.6940	
.040			-.1565	-.4073						
.041	-.5121									
.050					-.7132	-.8442	-.9509	-1.0992		
.069									-.6185	
.080					-.8403					
.081				-.4792						
.086			-.1634							
.094		-.3199								
.113	-.2094									
.150					-.9201	-1.1200	-1.0879	-1.0501		
.157									-.5775	
.163			.0000							
.177				-.6023						
.229		-.2442								
.246			-.5232							
.247	-.0916									
.250					-.9258	-1.1042	-.9618	-.8794		
.274				-.7081						
.345									-.5737	
.362		-.1153								
.390			-.7104							
.400					-.9071	-.8579		-.6209		
.402				-.8415						
.416										-.5512
.429	-.0325									
.497		-.5442								
.503									-.5654	
.547	-.3589									
.550					-.3930	-.6252				
.565				-.2658						
.600								-.5980		
.633	-.6759									
.637			-.2235							
.650							-.5596			
.670									-.5173	
.700		-.2006				-.4649				
.723										-.4963
.725					-.2406					
.727	-.2669									
.750							-.5029	-.5495		
.760				-.2920						
.775					-.2834	-.3278				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU26)

ALPHA (4) = 7.933 BETA (3) = 4.243

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0137									
.798			-.2276							
.808				-.3088						
.834		-.2270								
.839			-.2454							
.850					-.1119	-.2248	-.4252			
.857				-.2500						
.862									-.4468	
.865		-.2575								
.879			-.1607							
.900		-.2299			-.0893			-.4880		
.905				-.1758						
.919			-.1093							
.950					-.0326	-.0830	-.3595			
.953				-.0957						
.955			-.0544							
965		-.0809								

ALPHA (5) = 11.953 BETA (1) = -3.854 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5873

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2905	-.6802	-.5463	-.1675	.2250	.2164	.1599	.0090	-.8095	
.010		-.6928	-.2706		-.6974	-.6105	-.7724	-.8916		
.020		-.5848		.0000	-.8298	-.7972	-.9194	-.7757	-.7050	
.040			-.1907	-.6521						
041	-.2644									
.050					-.9695	-1.0077	-.9630	-.7443		
.069									-.5701	
.080					-1.0601					
.081				-.7402						
086			-.1827							
.094		-.3538								
.113	-.2546									
.150					-1.1847	-1.0046	-1.0416	-.6876		
.157									-.5518	
.163			.0000							
.177				-.7975						
.229		-.2314								
.245			-.5561							
.247	-.1181									
.250					-1.0680	-.9025	-.8701	-.6810		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (5) = 11.953 BETA (1) = -3.854

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8540						
.345									-.5496	
.362		-.3828								
.390			-.7623							
.400					-.8242	-.8124		-.6093		
.402				-.8656						
.418										-.5335
.429	-.0334									
.497		-.7619								
.503									-.5427	
.547	-.4830									
.550					-.7032	-.6889				
.565				-.4933						
.600								-.5739		
.633	-.8224									
.637			-.3045							
.650							-.6387			
.670									-.5206	
.700		-.2193				-.6197				
.723										-.5703
.725					-.4299					
.727	-.2385									
.750							-.5982	-.5589		
.760				-.2701						
.775					-.4578	-.5472				
.793	.0642									
.798			-.2784							
.808				-.2639						
.834		-.2496								
.839			-.3173							
.850					-.2825	-.4986	-.5648			
.857				-.2157						
.862									-.4613	
.865		-.2250								
.879			-.2307							
.900		-.1518			-.2750			-.5258		
.905				-.1867						
.919			-.1750							
.950					-.1859	-.3884	-.5427			
.953				-.1454						
.955			-.1055							
.955		-.0185								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBL26)

ALPHA (S) = 11.965 BETA (C) = .189 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5873

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3978	-.7830	-.3377	-.3724	.0465	.0291	-.0217	-.1620	-.7901	
.010		-.5362	-.2773		-.8626	-.7625	-.9143	-.9145		
.020		-.4919		.0000	-.9687	-.9449	-1.0593	-.6797	-.6873	
.040			-.2701	-.5465						
.041	-.4579									
.060					-1.0707	-1.1126	-1.0791	-.6602		
.069									-.6093	
.083					-1.1198					
.091				-.6287						
.096			-.2623							
.099		-.4776								
.113	-.2715									
.150					-1.2194	-1.0078	-1.0101	-.6459		
.157									-.6021	
.163			.0000							
.177				-.7390						
.229		-.5977								
.246			-.5839							
.247	-.1626									
.260					-.9870	-.9256	-.9189	-.6621		
.274				-.8394						
.295									-.5835	
.302		-.3084								
.320			-.7837							
.335					-.8051	-.8074		-.6463		
.352				-.9435						
.376										-.5822
.388	-.0580									
.397		-.7408								
.403									-.5640	
.417	-.5017									
.430					-.6719	-.7038				
.445				-.3796						
.458								-.6104		
.473	-.8466									
.487			-.3427							
.500							-.6576			
.520									-.5444	
.530		-.2402				-.6195				
.546										-.5432
.565					-.3938					
.577	-.2739									
.600							-.5136	-.5896		
.620				-.3239						
.675					-.4383	-.5537				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U26)

ALPHA (5) = 11.965 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0332									
.798			-.3148							
.808				-.4554						
.834		-.2738								
.839			-.4120							
.850					-.2858	-.4979	-.5954			
.857				-.3552						
.862									-.5129	
.865		-.2995								
.879			-.3120							
.900		-.2521			-.2659			-.5591		
.905				-.3289						
.919			-.2341							
.950					-.1737	-.3720	-.5501			
.953				-.2680						
.955			-.1543							
.965		-.1186								

ALPHA (5) = 11.949 BETA (3) = 4.257 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5085	-.7387	-.3622	-.5225	-.1248	-.1442	-.2010	-.3457	-.7647	
.010		-.6097	-.3389		-.9940	-.9116	-1.0418	-.7733		
.020		-.6083		.0000	-1.0845	-1.0756	-1.0468	-.7780	-.7019	
.040			-.3278	-.4535						
.041	-.6179									
.050					-1.1387	-1.2042	-.8686	-.7274		
.069									-.6284	
.080					-1.1080					
.081				-.5603						
.086			-.3152							
.094		-.6023								
.113	-.2474									
.150					-1.0787	-.9983	-.7738	-.6962		
.157									-.6153	
.163			.0000							
.177				-.6765						
.223		-.6635								
.246			-.6045							
.247	-.2512									
.250					-.8019	-.8766	-.7511	-.6841		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (5) = 11.949 BETA (3) = 4.257

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8103						
.345									-.6132	
.362		-.3028								
.390			-.8108							
.400					-.6747	-.8171		-.6810		
.402				-.9418						
.418										-.6121
.429	-.1049									
.497		-.7221								
.503									-.6239	
.547	-.4786									
.550					-.5850	-.7391				
.565				-.3754						
.600								-.6430		
.633	-.8360									
.637			-.3079							
.650							-.7178			
.670									-.5996	
.700		-.2026				-.6761				
.723										-.5724
.725					-.4233					
.727	-.2905									
.750							-.6789	-.6472		
760				-.4327						
.775					-.6023	-.6441				
.793	.0121									
.796			-.3452							
808				-.5677						
.834		-.3307								
.839			-.4572							
.850					-.4622	-.5420	-.6611			
.857				-.5880						
.862									-.5691	
.865		-.3976								
.879			-.4092							
.890		-.3269			-.3777			-.6143		
.895				-.5481						
.919			-.4610							
.950					-.2731	-.4003	-.5858			
.953				-.3006						
.955			-.2261							
.965		-.2476								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27) (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 = .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/L = 4.8484

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1523	-.1372	-.2739	-.1024	.1276	.0406	-.0073	.0876	-.9292	
.010		-.0046	-.0430		.6032	.5973	.5794	.5211		
.020		.0296		.0000	.5517	.5413	.5182	.4860	-.1225	
.040			.1058	.3651						
.041	.0339									
.060					.3317	.3163	.2940	.2662		
.069									-.1201	
.080					.1296					
.081				.2332						
.086			.2640							
.094		.0572								
.113	.0512									
.150					-.0870	-.1026	-.2361	-.1175		
.157									-.1582	
.163			.0800							
.177				-.0256						
.229		.1527								
.246			.0435							
.247	.0775									
.250					-.2285	-.2725	-.3105	-.3440		
.274				-.1411						
.345									-.1446	
.362		.1056								
.390			-.1129							
.400					-.1703	-.2338		-.3031		
.402				-.1449						
.418										-.6005
.429	.1254									
.497		-.0792								
.503									-.1963	
.547	.0042									
.550					-.0867	-.1458				
.565				-.0132						
.600								-.1840		
.633	-.0683									
.637			.0375							
.650							-.1203			
.670									-.0885	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (1) = -3.986 BETA (1) = -7.853

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0648				-.0767				
.723										
.725										-.4879
.727	.0428				-.0347					
.750										
.760							.0081	.0050		
.775				-.0649						
.793	.1824				.0265	-.0084				
.798			-.0576							
.808				.0772						
.834		-.0374								
.839			.1001							
.850					.0869	.0695	.0697			
.857				.0751						
.862										
.865		.0386							-.0071	
.879			.0752							
.900		.0315								
.905					.0581			.0738		
.919			.0609							
.950			.0465							
.953					.0722	.1018	.1020			
.955				.0651						
.965		.0668	.0460							

ALPHA (1) = -3.969 BETA (2) = -3.841 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1523	-.0913	-.1875	-.0461	.0921	-.0142	-.0692	.0873	-.8626	
.010		-.0059	-.0208		.5457	.5297	.5078	.4580		
.020		.0146		.0000	.4985	.4805	.4570	.4204	-.1955	
.040			.0941	.3145						
.041	-.0111									
.050					.2863	.2758	.2557	.2231		
.059									-.1776	
.080					.1025					
.081				.1914						
.086			.2274							
.094		.0277								
.113	.0151									
.150					-.1065	-.1208	-.2516	-.1371		

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

ALPHA (1) = -3.969 BETA (2) = -3.841

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									.1962	
.163			.0000							
.177				-.0430						
.229		.1231								
.246			.0146							
.247	.0494									
.250					-.2515	-.2837	-.3180	-.3488		
.274				-.1595						
.345									-.1530	
.362		.0845								
.390			-.1365							
.400					-.1951	-.2554		-.3093		
.402				-.1726						
.418										-.5840
.429	.0982									
.497		-.1004								
.503									-.1881	
.547	-.0211									
.550					-.1225	-.1712				
.565				-.0490						
.600								-.1896		
.633	-.1051									
.637			-.0062							
.650							-.1392			
.670									-.0800	
.700		.0248				-.0928				
.723										-.5064
.725					-.0584					
.727	.0021									
.750							-.0062	-.0031		
.760				-.0980						
.775					-.0005	-.0295				
.793	.1415									
.798			-.0908							
.808				.0435						
.834		-.0761								
.839			.0614							
.850					.0646	.0423	.0631			
.857				.0460						
.862									-.0023	
.875		-.0031								
.879			.0489							
.900		.0027			.0444			.0770		
.905				.0359						
.919			.0243							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U27)

ALPHA (1) = -3.969 BETA (2) = -3.841

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0643	.0906	.1026			
.953				.0470						
.955			.0297							
.965		.0436								

ALPHA (1) = -3.949 BETA (3) = .187 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1570	-.0519	-.1054	.0033	.0872	-.0503	-.1328	-.0860	-.8203	
.010		-.0012	.0067		.4754	.4541	.4321	.3841		
.020		-.0055		.0000	.4271	.4074	.3931	.3561	-.2564	
.040			.0832	.2629						
.041	-.0616									
.050					.2383	.2191	.2030	.1824		
.069									-.2300	
.080					.0633					
.081				.1557						
.086			.1910							
.094		-.0022								
.113	-.0199									
.150					-.1224	-.1386	-.2600	-.1552		
.167									-.2201	
.183			.0000							
.177				-.0588						
.209		.0943								
.248			-.0066							
.247	.0242									
.280					-.2602	-.2873	-.3186	-.3463		
.314				-.1756						
.345									-.1597	
.380		.0620								
.380			-.1532							
.400					-.2185	-.2664		-.3100		
.402				-.1981						
.418										-.5243
.429	.0707									
.497		-.1201								
.503									-.1868	
.547	-.0417									
.550					-.1537	-.1957				
.565				-.0899						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (1) = -3.949 BETA (3) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0800
X/CW										
.600										
.633	-.1329							-.1943		
.637			-.0525							
.650							-.1522			
.670									-.0763	
.700		-.0148				-.1153				
.723										-.5001
.725					-.0865					
.727	-.0369									
.750							-.0145	-.0082		
.760				-.1269						
.775					-.0298	-.0513				
.793	.1010									
.798			-.1208							
.808				.0147						
.834		-.1099								
.839			.0252							
.850					.0443	.0196	.0533			
.857				.0226						
.862									.0026	
.865		-.0431								
.879			.0162							
.900		-.0312			.0292			.0745		
.905				.0215						
.919			-.0002							
.950					.0561	.0796	.0965			
.953				.0390						
.955			.0138							
.965		.0231								

ALPHA (1) = -3.957 BETA (4) = 4.268 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1608	-.0229	-.0410	.0600	.1060	-.0341	-.1292	-.0854	-.6552	
.010		-.0070	.0274		.4125	.3969	.3611	.3152		
.020		-.0079		.0000	.3621	.3368	.3178	.2825	-.2790	
.040			.0794	.2141						
.041	-.0952									
.058					.1817	.1602	.1467	.1212		
.069									-.2595	
.080					.0310					

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (1) = -3.957 BETA (4) = 4.268

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1253						
.086			.1635							
.094		-.0191								
.113	-.0413									
.150					-.1441	-.1664	-.2883	-.1836		
.157									-.2469	
.163			.0000							
.177				-.0658						
.223		.0800								
.246			-.0195							
.247	.0089									
.250					-.2774	-.3043	-.3339	-.3644		
.274				-.1842						
.345									-.1677	
.362		.0477								
.384			-.1584							
.400					-.2425	-.2846		-.3183		
.402				-.2176						
.418										-.3888
.433	.0582									
.437		-.1365								
.503									-.1765	
.547	-.0586									
.550					-.1832	-.2136				
.565				-.1249						
.600								-.1966		
.633	-.1586									
.647			-.0816							
.650							-.1628			
.670									-.0683	
.700		-.0495				-.1244				
.723										-.4045
.725					-.1128					
.727	-.0757									
.750							-.0230	-.0114		
.760				-.1529						
.775					-.0570	-.0686				
.793	.0712									
.798			-.1446							
.808				-.0133						
.834		-.1408								
.839			-.0036							
.850					.0252	.0024	.0506			
.857				.0016						
.862									.0118	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (1) = -3.957 BETA (4) = 4.268

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.0904								
.879			.0004							
.900		-.0529			.0159			.0780		
.905				.0071						
.919			-.0178							
.950					.0495	.0721	.0971			
.953				.0271						
.955			.0002							
.965		.0030								

ALPHA (1) = -3.972 BETA (5) = 8.340 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1717	-.0210	.0130	.1209	.1347	-.0320	-.1274	-.0967	-.5510	
.010		-.0160	.0474		.3436	.3171	.2866	.2448		
.020		-.0225		.0000	.2968	.2691	.2478	.2123	-.3023	
.040			.0821	.1676						
.041	-.1193									
.050					.1275	.1065	.0926	.0691		
.069									-.2904	
.080					-.0135					
.081				.0830						
.085			.1421							
.094		-.0277								
.113	-.0577									
.150					-.1619	-.1874	-.2930	-.2091		
.157									-.2619	
.163			.0000							
.177				-.0869						
.229		.0721								
.246			-.0427							
.247	-.0017									
.250					-.2885	-.3077	-.3379	-.3607		
.274				-.1971						
.345									-.1694	
.352		.0393								
.390			-.1770							
.400					-.2601	-.2961		-.3147		
.402				-.2401						
.419										-.2917
.428	.0478									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (1) = -3.972 BETA (5) = 8.340

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1558								
.503									-.1701	
.547	-.0719									
.550					-.2087	-.2282				
.565				-.1542						
.600								-.1885		
.633	-.1812									
.637			-.1185							
.650							-.1697			
.670									-.0560	
.700		-.0911				-.1266				
.723										-.3126
.725					-.1281					
.727	-.1135									
.750							-.0304	-.0139		
.760				-.1696						
.775					-.0755	-.0813				
.793	.0315									
.798			-.1590							
.808				-.0302						
.824		-.1574								
.839			-.0238							
.860					.0189	-.0122	.0498			
.867				-.0113						
.882									.0262	
.885		-.1080								
.879			-.0193							
.900		-.0702			.0074			.0819		
.905				-.0050						
.919			-.0297							
.950					.0444	.0714	.1036			
.953				.0230						
.965			-.0041							
.988		-.0037								

DATE 11 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (2) = .056 BETA (1) = -7.886 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0684	.0477	.0645	.2962	.4880	.4684	.4507	.4948	-.1505	
.010		.0740	.1340		.4578	.4927	.4460	.2867		
.020		.0592		.0000	.3286	.3143	.2711	.2085	-.0953	
.040			.1773	.1716						
.041	-.0042									
.050					.0358	-.0006	-.0308	-.0549	-.2007	
.069										
.080					-.1760					
.081				-.0017						
.086			.2054							
.094		.0201								
.113	.0095									
.150					-.3410	-.3850	-.5594	-.3882	-.3220	
.157										
.163			.0000							
.177				-.2402						
.229		.0887								
.246			-.1332							
.247	.0340									
.250					-.4159	-.4891	-.5497	-.5799		
.274				-.3023						
.345									-.3127	
.362		-.0101								
.390			-.2415							
.400					-.2609	-.3425		-.4196		
.402				-.2374						
.418										-.0646
.429	.0523									
.497		-.1957								
.503									-.3408	
.547	-.1076									
.560					-.1227	-.1935				
.585				-.0481						
.600								-.2304		
.633	-.1562									
.657			.0065							
.658							-.1469			
.670									-.1776	
.700		.0332				-.0780				
.723										-.1396
.725					-.0308					
.727	.0040									
.750							-.0050	-.0205		
.760				-.0521						
.775					.0330	-.0058				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (2) = .056 BETA (1) = -7.886

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1623									
.798			-.0489							
.808				.0796						
.834		-.0316								
.839			.0998							
.850					.0896	.0604	.0716			
.857				.0848					-.0198	
.862										
.865		.0489								
.879			.0820							
.900		.0475			.0666			.0819		
.905				.0675						
.919			.0580							
.950					.0845	.1180	.1158			
.953				.0741						
.955			.0585							
.985		.0803								

ALPHA (2) = .065 BETA (2) = -3.860 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0971	.0239	.0695	.2899	.4630	.4162	.3995	.4369	-.1752	
.010		.0330	.1119		.3788	.4150	.3646	.2080		
.020		.0170		.0000	.2542	.2372	.1921	.1352	-.1556	
.040			.1439	.1168						
.041	-.0571									
.060					-.0198	-.0559	-.0926	-.1175		
.069									-.2515	
.080					-.2117					
.081				-.0386						
.099			.1656							
.099		-.0128								
.118	-.0333									
.120					-.3503	-.3994	-.5621	-.4082		
.157									-.3332	
.163			.0000							
.177				-.2581						
.229		.0607								
.248			-.1539							
.247	.0031									
.250					-.4327	-.4886	-.5514	-.5747		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB027)

ALPHA (2) = .065 BETA (2) = -3.850

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3238						
.345									-.2930	
.352		-.0360								
.390			-.2653							
.400					-.2949	-.3575		-.4203		
.402				-.2745						
.418										-.0925
.429	.0231									
.497		-.2237								
.503									-.3170	
.547	-.1330									
.550					-.1614	-.2173				
.565				-.0910						
.600								-.2219		
.633	-.1937									
.637			-.0405							
.650							-.1609			
.670									-.1559	
.700		-.0123				-.1042				
.723										-.1608
.725					-.0674					
.727	-.0390									
.750							-.0145	-.0209		
.760				-.0903						
.775					-.0010	-.0282				
.793	.1146									
.799			-.0807							
.808				.0397						
.834		-.0760								
.840			.0620							
.850					.0668	.0541	.0602			
.857				.0520						
.862									-.0078	
.865		.0013								
.879			.0492							
.900		.0091								
.905					.0513			.0856		
.909				.0484						
.919			.0352							
.950					.0736	.1077	.1142			
.953				.0525						
.955			.0409							
.965		.0539								

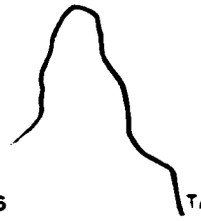
DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU27)

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

ALPHA (2) = .070 BETA (3) = .184 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1315	-.0001	.0566	.2739	.4261	.3749	.3426	.3629	-.1946	
.012		-.0159	.0799		.2936	.3263	.2814	.1329		
.020		-.0306		.0000	.1804	.1684	.1225	.0751	-.2022	
.048			.1056	.0638						
.041	- .047									
.060					-.0585	-.0961	-.1270	-.1568	-.2814	
.089					-.2349					
.099				-.0704						
.100			.1190							
.120		-.0444								
.139	-.0517				-.3660	-.4067	-.5605	-.4066	-.3303	
.159										
.179			.0000	-.2667						
.180		.0375								
.198			-.1706							
.219	-.0208				-.4454	-.4979	-.5406	-.5660		
.239				-.3349					-.2719	
.259										
.280		-.0542								
.299			-.2760		-.3194	-.3728		-.4166		
.320				-.2950						-.1160
.340										
.359	.0042									
.379		-.2406							-.2838	
.399										
.419	-.1545				-.1975	-.2383				
.439				-.1315				-.2201		
.459										
.479	-.2259									
.499			-.0813				-.1754		-.1266	
.519						-.1233				-.1570
.539		-.0561								
.559					-.0928					
.579	-.0740						-.0252	-.0239		
.599				-.1225						
.619					-.0320	-.0545				
.639										
.659										
.679										
.699										
.719										
.739										
.759										
.779										



AMES 11-073(OA14[illegible] R ORB LEFT WING TOP (XE8U27)

ALPHA (2) = .070 BETA (3) = .184

SECTION (1)LEFT WING TOP SURF DEPENDENT V

2Y/BW	.2350	.2990	.3640	.4270	.5340	.675[illegible]	.7[illegible]	.8870	.9720	1.0000
X/CW										
.793	.0744									
.798			-.1115							
.808				.0047						
.834		-.1049								
.839			.0208							
.850					.0411	.0282	.0526			
.857				.0235						
.862									.0055	
.865		-.0411								
.879			.0168							
.900		-.0263			.0346			.0827		
.905				.0240						
.919			.0077							
.950					.0613	.0927	.1099			
.953				.0454						
.955			.0218							
.965		.0282								

ALPHA (2) = .066 BETA (4) = 4.247 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1730	-.0514	.0239	.2463	.3943	.3459	.3135	.3176	-.1201	
.010		-.0609	.0477		.2123	.2397	.1830	.0418		
.020		-.0680		.0000	.1043	.0830	.0389	-.0292	-.2554	
.040			.0764	.0104						
.041	-.1391									
.050					-.1070	-.1462	-.1931	-.2257		
.069									-.3142	
.080					-.2707					
.091				-.1023						
.086			.0902							
.094		-.0588								
.113	-.0845									
.150					-.3763	-.4217	-.5305	-.4439		
.157									-.3448	
.163			.0000							
.177				-.2774						
.229		.0228								
.245			-.1793							
.247	-.0314									
.250					-.4494	-.4975	-.5420	-.5635		

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (2) = .066 BETA (4) = 4.247

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3371						
.345									-.2672	
.362		-.0633								
.390			-.2842							
.400					-.3354	-.3885		-.4143		
.402				-.3108						
.418										-.1584
.429	-.0034									
.497		-.2561								
.503									-.2663	
.547	-.1623									
.550					-.2288	-.2557				
.565				-.1661						
.600								-.2190		
.633	-.2415									
.637			-.1251							
.650							-.1813			
.670									-.1005	
.700		-.0937				-.1277				
.723										-.1812
.725					-.1144					
.727	-.1098									
.750							-.0292	-.0172		
.760				-.1457						
.775					-.0552	-.0692				
.793	.0311									
.798			-.1390							
.808				-.0235						
.834		-.1318								
.839			-.0152							
.850					.0257	.0059	.0488			
.857				.0024						
.862									.0179	
.865		-.0802								
.879			-.0131							
.900		-.0538			.0178			.0899		
.905				.0036						
.919			-.0160							
.950					.0576	.0818	.1060			
.953				.0296						
.955			.0028							
.965		-.0057								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (2) = .060 BETA (5) = 8.305 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2170	-.1356	-.0360	.1934	.3538	.2942	.2630	.2586	-.2070	
.010		-.1242	.0012		.1032	.1435	.1024	-.0255		
.020		1142		.0000	.0240	.0028	-.0416	-.0918	-.2960	
.040			.0354	-.0467						
.041	-.1677									
.050					-.1697	-.1928	-.2357	-.2737		
.069									-.3364	
.080					-.2945					
.081				-.1364						
.086			.0506							
.094		-.0745								
.113	-.1016									
.150					-.3904	-.4330	-.5782	-.4465		
.157									-.3342	
.163			.0000							
.177				-.2766						
.229		.0113								
.246			-.1963							
.247	-.0387									
.250					-.4479	-.4984	-.5319	-.5455		
.274				-.3443						
.345									-.2426	
.362		-.0719								
.390			-.2884							
.400					-.3511	-.4015		-.4017		
.402				-.3262						
.418										-.2148
.429	-.0158									
.497		-.2625								
.503									-.2293	
.547	-.1741									
.550					-.2485	-.2689				
.565				-.1969						
.600								-.2109		
.633	-.2653									
.637			-.1599							
.650							-.1873			
.670									-.0694	
.700		-.1313				-.1322				
.723										-.1787
.725					-.1341					
.727	-.1550									
.750							-.0322	-.0143		
.760				-.1556						
.775					-.0786	-.0839				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (2) = .060 BETA (5) = 8.305

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0011									
.798			-.1540							
.808				-.0467						
.834		-.1539								
.839			-.0393							
.850					.0073	-.0107	.0477			
.857				-.0246						
.862									.0384	
.865		-.1061								
.879			-.0359							
.900		-.0814			.0050			.0918		
.905				-.0134						
.919			-.0338							
.950					.0489	.0782	.1009			
.953				.0171						
.955			-.0118							
.965		-.0181								

ALPHA (3) = 3.957 BETA (1) = -7.887 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0443	.0496	.0970	.3962	.6030	.5928	.5680	.5048	-.0660	
.010		-.0027	.0932		.0709	.1023	-.0180	-.3041		
.020		-.0251		.0000	-.0823	-.1581	-.2426	-.3763	-.4581	
.040			.0962	-.1304						
.041	-.0481									
.060					-.3783	-.4749	-.5491	-.6093		
.069									-.5748	
.080					-.5689					
.087				-.3125						
.086			.0592							
.094		-.0479								
.113	-.0329									
.150					-.6320	-.7394	-.9609	-.7344		
.157									-.6851	
.163			.0000							
.177				-.4866						
.229		.0137								
.245			-.3278							
.247	-.0120									
.250					-.6035	-.7183	-.8040	-.8519		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.957 BETA (1) = -7.887

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4774						
.345									-.6353	
.362		-.1443								
.390			-.3725							
.400					-.3437	-.4402		-.5266		
.402				-.3228						
.418										-.4011
.429	-.0184									
.497		-.3189								
.503									-.6099	
.547	-.2402									
.550					-.1505	-.2270				
.565				-.0707						
.600								-.2907		
.633	-.2480									
.637			-.0203							
.660							-.1651			
.670									-.4569	
.700		-.0101				-.0824				
.723										-.6543
.725					-.0273					
.727	-.0369									
.750							-.0185	-.0545		
.760				-.0273						
.775					.0468	-.0019				
.793	.1664									
.799			-.0236							
.808				.0822						
.834		-.0196								
.839			.1014							
.850					.0960	.0912	.0680			
.857				.0900						
.862									-.2459	
.865		.0406								
.879			.0919							
.900		.0613			.0828			.0671		
.905				.0798						
.919			.0694							
.950					.1046	.1296	.1246			
.953				.0891						
.955			.0710							
.965		.0960								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.961 BETA (2) = -3.863 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1001	-.0381	.0103	.3100	.5228	.5004	.4797	.3964	-.1927	
.010		-.0894	.0069		-.0403	-.0123	-.1327	-.4048		
.020		-.0978		.0000	-.1791	-.2426	-.3399	-.4838	-.5482	
.040			.0255	-.1955						
.041	-.1046									
.050					-.4224	-.5274	-.6134	-.6666		
.069									-.6176	
.080					-.6116					
.081				-.3489						
.086			.0055							
.094		-.0887								
.113	-.0754									
.150					-.6527	-.7577	-.9626	-.7509		
.157									-.6880	
.163			.0000							
.177				-.5049						
.229		-.0145								
.246			-.3526							
.247	-.0409									
.250					-.6265	-.7294	-.8037	-.8462		
.274				-.4937						
.345									-.5963	
.362		-.1644								
.390			-.3921							
.400					-.3759	-.4581		-.5186		
.402				-.3618						
.418										-.5497
.429	-.0475									
.437		-.3445								
.503									-.5775	
.547	-.2767									
.560					-.1923	-.2545				
.565				-.1224						
.600								-.2855		
.633	-.2922									
.637			-.0718							
.650							-.1823			
.670									-.4811	
.700		-.0622				-.1042				
.723										-.7524
.725					-.0580					
.727	-.0873									
.750							-.0261	-.0559		
.760				-.0685						
.775					.0055	-.0306				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.961 BETA (2) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1208									
.798			-.0599							
.808				.0392						
.834		-.0639								
.839			.0569							
.850					.0673	.0635	.0586			
.857				.0553						
.862									-.3160	
.865		-.0133								
.879			.0491							
.900		.0211			.0624			.0712		
.905				.0532						
.919			.0424							
.950					.0875	.1159	.1150			
.953				.0713						
.955			.0479							
.965		.0713								

ALPHA (3) = 3.981 BETA (3) = .188 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1642	-.1514	-.1041	.2175	.4378	.4073	.3817	.2957	-.3036	
.010		-.1797	-.0784		-.1444	-.1115	-.2380	-.4978		
.020		-.1671		.0000	-.2561	-.3215	-.4144	-.5567	-.5880	
.040			-.0304	-.2454						
.041	-.1569									
.050					-.4839	-.5695	-.6422	-.6826		
.059									-.6390	
.080					-.6294					
.081				-.3795						
.085			-.0433							
.094		-.1202								
.113	-.1106									
.150					-.6514	-.7424	-.9413	-.7372		
.157									-.6682	
.163			.0000							
.177				-.5100						
.[illegible]		-.0341								
.[illegible]			-.3620							
.247	-.0655									
.250					-.6319	-.7239	-.7845	-.8211		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U27)

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

ALPHA (3) = 3.991 BETA (3) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4929					-.5428	
.345										
.362		-.1706								
.390			-.4041							
.400					-.3992	-.4706		-.5111		
.402				-.3785						-.6966
.418										
.429	-.0684									
.497		-.3585							-.5197	
.503										
.547	-.2935				-.2266	-.2711				
.550										
.565				-.1592				-.2788		
.600										
.633	-.3187									
.637			-.1144				-.1876			
.650									-.4184	
.670										
.700		-.1055				-.1229				-.7923
.723										
.725					-.0879					
.727	-.1261						-.0360	-.0496		
.750										
.760				-.0901						
.775					-.0228	-.0469				
.793	.0809									
.798			-.0991							
.808				.0089						
.834		-.1019								
.839			.0183							
.854					.0401	.0418	.0563			
.857				.0289						
.862									-.2884	
.865		-.0658								
.873			.0174							
.900		-.0130			.0390			.0731		
.905				.0311						
.919			.0148							
.950					.0705	.1009	.1134			
.953				.0534						
.965			.0311							
.965		.0415								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.978 BETA (4) = 4.237 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2296	-.2642	-.2193	.0984	.3404	.3070	.2676	.1576	-.4774	
.010		-.2642	-.1449		-.2340	-.2157	-.3523	-.6129		
.020		-.2265		.0000	-.3307	-.4030	-.5076	-.6623	-.6810	
.040			-.0782	-.2930						
.041	-.1902									
.050					-.5098	-.6213	-.6955	-.7342		
.069									-.6775	
.080					-.6334					
.081				-.3901						
.086			-.0689							
.094		-.1348								
.113	-.1388									
.150					-.6390	-.7470	-.9201	-.7423		
.157									-.6824	
163			.0000							
.177				-.4925						
.229		-.0478								
.246			-.3498							
.247	-.0812									
.250					-.6288	-.7084	-.7740	-.8003		
.274				-.4889						
.345									-.5149	
.362		-.1778								
.390			-.3930							
.400					-.4117	-.4699		-.5080		
.402				-.3877						
.418										-.9123
.429	-.0743									
.497		-.3718								
.503									-.4834	
.547	-.2970									
.550					-.2505	-.2865				
.565				-.1958						
.600								-.2672		
.643	-.3329									
.657			-.1701							
.650							-.1925			
.670									-.3737	
.700		-.1291				-.1281				
.723										-.8673
.725					-.1099					
.727	-.1458									
.750							-.0433	-.0416		
.760				-.1258						
.775					-.0533	-.0667				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.978 BETA (4) = 4.237

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0384									
.798			-.1297							
.808				-.0420						
.834		-.1325								
.839			-.0162							
.850					.0167	.0173	.0411			
.857				-.0176						
.862									-.2051	
.865		-.0967								
.879			-.0001							
.900		-.0497			.0274			.0727		
.905				-.0042						
.919			-.0141							
.950					.0606	.0868	.1065			
.953				.0237						
.955			.0097							
.965		.0055								

ALPHA (3) = 3.980 BETA (5) = 8.292 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CF

2Y/BW	.2350	.2990	3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3078	-.4161	-.2492	-.0612	.2088	.1853	.1465	.0346	-.6853	
.010		-.3290	-.1357		-.3668	-.3258	-.4559	-.7068		
.020		-.2539		.0000	-.4289	-.4957	-.5873	-.7451	-.7335	
.040			-.1114	-.3401						
.041	-.2317									
.050					-.5618	-.6371	-.7306	-.7568		
.069									-.6893	
.080					-.6447					
.081				-.3940						
.086			-.1279							
.094		-.2255								
.113	-.1702									
.150					-.6361	-.7248	-.9524	-.7354		
.157									-.6227	
.163			.0000							
.177				-.4602						
.229		-.0423								
.245			-.4293							
.247	-.0814									
.250					-.5164	-.7036	-.7505	-.7759		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (3) = 3.980 BETA (5) = 8.292

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4654						
.345									-.4653	
.362		-.1711								
.390			-.4018							
.400					-.4198	-.4831		-.4931		
.402				-.4049						
.418										-1.1201
.429	-.0760									
.497		-.3705								
.503									-.4460	
.547	-.2965									
.550					-.2758	-.3015				
.565				-.2575						
.600								-.2569		
.633	-.3509									
.637			-.1776							
.650							-.2003			
.670									-.3059	
.700		-.1656				-.1444				
.723										-.7622
.725					-.1343					
.727	-.1800									
.750							-.0481	-.0380		
.760				-.1877						
.775					-.1094	-.0791				
.793	-.0058									
.798			-.1493							
.808				-.0748						
.834		-.1527								
.849			-.0508							
.850					-.0074	-.0054	.0353			
.857				-.0300						
.862									-.0766	
.865		-.1282								
.879			-.0348							
.900		-.0765			-.0016			.0670		
.905				-.0137						
.919			-.0341							
.930					.0477	.0749	.0946			
.953				.0241						
.955			-.0127							
.965		-.0268								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (A) = 7.936 BETA (B) = -7.885 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0665	-.1351	-.1836	.1777	.3914	.3420	.2401	.0397	-.7151	
.010		-.2297	-.1798		-.5829	-.5887	-.8494	-1.3133		
.020		-.2097		.0000	-.6850	-.8358	-1.0408	-1.3562	-1.3148	
.040			-.1488	-.5427						
.041	-.0872									
.050					-.9125	-1.1061	-1.2618	-1.3747		
.069									-1.2495	
.080					-1.0787					
.081				-.6913						
.086			-.1736							
.094		-.1439								
.113	-.0727									
.150					-.9741	-1.1428	-1.3867	-1.1370		
.157									-1.3069	
.163			.0000							
.177				-.7414						
.209		-.0698								
.245			-.5259							
.247	- 0557									
.250					-.7903	-.9215	-1.0439	-1.1517		
.274				-.6276						
.346									-1.0642	
.358		-.2692								
.390			-.4764							
.400					-.4028	-.5175		-.6898		
.402				-.3745						
.418										-1.5225
.429	-.1078									
.497		-.4445								
.503									-.9998	
.547	-.3679									
.550					-.1431	-.2538				
.588				-.1138						
.600								-.3680		
.643	- 3439									
.650			-.0788							
.654							-.1907			
.670									-.8754	
.700		-.0504				-.0821				
.723										-1.8154
.750					-.0091					
.777	-.0463						-.0357	-.1234		
.800				-.0486						
.825					.0543	.0113				
.775										

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AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (4) = 7.936 BETA (1) = -7.885

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	42"	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2014									
.798			-.0364							
.808				.0387						
.834		-.0231								
.839			.1019							
.850					.0883	.1004	.0434			
.857				.0679						
.862									-.5229	
.865		.0120								
.879			.0938							
.900		.0830			.0958			.0120		
.905				.0647						
.919			.0752							
.950					.1065	.1360	.0955			
.953				.0856						
.955			.0792							
.965		.1158								

ALPHA (4) = 7.944 BETA (2) = -3.857 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1616	-.3029	-.3791	.0026	.2423	.1822	.0849	-.1406	-1.004	
.010		-.3693	-.3165		-.7291	-.7504	-1.0357	-1.4753		
.020		-.3026		.0000	-.8070	-.9625	-1.1634	-1.5361	-1.4732	
.040			-.2320	-.6200						
.041	-.1508									
.050					-.9787	-1.1818	-1.3616	-1.4874		
.069									-1.3237	
.080					-1.1057					
.081				-.7271						
.086			-.2272							
.094		-.1856								
.113	-.1252									
.150					-.9801	-1.1462	-1.3880	-1.1551		
.157									-1.3046	
.163			.0000							
.177				-.7481						
.229		-.1034								
.245			-.5483							
.247	-.0941									
.250					-.8150	-.9499	-1.0355	-1.1648		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (4) = 7.944 BETA (2) = -3.857

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6353						
.345									-1.0337	
.362		-.2990								
.390			-.4932							
.400					-.4315	-.5476		-.6932		
.402				-.4033						
.418										-1.8701
.429	-.1343									
.497		-.4936								
.503									-.9330	
.547	-.3935									
.550					-.1870	-.2816				
.565				-.1669						
.600								-.3660		
.633	-.3722									
.637			-.1269							
.650							-.2111			
.670									-.8587	
.700		-.1244				-.1062				
.723										-1.7800
.725					-.0403					
.727	-.1079									
.750							-.0501	-.1269		
.760				-.0862						
.775					.0144	-.0213				
.793	.1344									
.798			-.1001							
.808				.0100						
.834		-.0467								
.839			.0320							
.850					.0482	.0672	.0357			
.857				.0446						
.862									-.6119	
.865		-.0057								
.879			.0403							
.900		.0442			.0435			.0087		
.905				.0451						
.919			.0341							
.950					.0609	.1170	.0940			
.953				.0614						
.955			.0521							
.965		.0857								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (4) = 8.045 BETA (3) = .182 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8070	.9720	1.0000
X/CW										
.000	-.2527	-.4844	-.5582	-.1884	.0884	.0254	-.0748	-.3102	-1.2772	
.010		-.4956	-.3930		-.8361	-.8755	-1.1567	-1.5756		
.020		-.3915		.0000	-.8909	-1.0516	-1.2737	-1.6123	-1.5717	
.040			-.2397	-.6658						
.041	-.2142									
.050					-1.0114	-1.2182	-1.3748	-1.4933		
.069									-1.3148	
.080					-1.1014					
.081				-.7298						
.086			-.2173							
.094		-.2166								
.113	-.1887									
.150					-.9469	-1.1319	-1.3366	-1.0888		
.157									-1.1895	
.163			.0000							
.177				-.7253						
.229		-.1703								
.246			-.5393							
.247	-.1058									
.250					-.7982	-.9364	-1.0193	-1.1130		
.274				-.6187						
.345									-.9418	
.362		-.3433								
.390			-.5215							
.400					-.4405	-.5508		-.6681		
.402				-.4398						
.418										-2.0960
.429	-.1333									
.497		-.5099								
.503									-.8542	
.547	-.4153									
.550					-.2368	-.2916				
.565				-.2229						
.600								-.3663		
.633	-.3963									
.637			-.2133							
.650							-.2164			
.670									-.8122	
.700		-.1012				-.1184				
.723										-1.8493
.725					-.0977					
.727	-.1502									
.750							-.0594	-.1181		
.760				-.1127						
.775					-.0877	-.0376				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (4) = 8.045 BETA (3) = .182

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0651									
.798			-.1271							
.808				-.0214						
.834		-.1041								
.839			.0164							
.850					-.0068	.0262	.0243			
.857				-.0025						
.862									-.7802	
.865		-.0488								
.879			.0319							
.900		-.0028			-.0017			.0112		
.905				-.0108						
.919			.0188							
.950					.0503	.0920	.0825			
.953				.0061						
.955			.0421							
.965		.0433								

ALPHA (4) = 8.043 BETA (4) = 4.239 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3504	-.6382	-.5427	-.3610	-.0701	-.1459	-.2712	-.5288	-1.7176	
.010		-.4972	-.2799		-.9483	-1.0352	-1.3371	-1.7542		
.020		-.3627		.0000	-.9659	-1.1532	-1.3800	-1.8206	-1.7531	
.040			-.2478	-.6302						
.041	-.2831									
.050					-1.0317	-1.2382	-1.4330	-1.5887		
.069									-1.3364	
.080					-1.0806					
.081				-.6614						
.086			-.2732							
.094		-.3879								
.113	-.2282									
.150					-.9179	-1.0844	-1.3990	-1.1165		
.157									-1.1496	
.163			.0000							
.177				-.6685						
.229		-.2241								
.245			-.6317							
.247	-.1165									
.250					-.7709	-.9083	-1.0015	-1.0758		

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

ALPHA (4) = 8.043 BETA (4) = 4.239

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6350					-.9267	
.345										
.362		-.2581								
.390			-.6641							
.400					-.4571	-.5477		-.6465		
.402				-.4456						-2.5432
.418										
.429	-.1484									
.497		-.4932							-.8372	
.503										
.547	-.4293									
.550					-.2982	-.3031				
.565				-.2497				-.3583		
.600										
.633	-.4186									
.637			-.1942				-.2158			
.650									-.9873	
.670										
.700		-.1564				-.1410				-1.5470
.723										
.725					-.1423					
.727	-.1791						-.0679	-.1143		
.750										
.760				-.1977						
.775					-.1410	-.0870				
.793	.0141									
.798			-.1361							
.808				-.1266						
.834		-.1305								
.839			-.0240							
.850					.0416	-.0214	.0058			
.857				-.0760					-.8082	
.862										
.865		-.1019								
.879			-.0147							
.900		-.0524			.0249			.0085		
.905				-.0403						
.919			-.0154							
.950					.0645	.0563	.0622			
.953				-.0056						
.955			.0085							
.955		-.0049								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (4) = 8.041 BETA (5) = 8.297 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4659	-.7249	-.3679	-.5078	-.2569	-.3405	-.4727	-.7450	-2.0474	
.010		-.4154	-.3109		-1.0666	-1.1478	-1.4916	-1.8558		
.020		-.4008		.0000	-1.0239	-1.2469	-1.4496	-1.8839	-1.5982	
.040			-.3228	-.5056						
.041	-.3812									
.050					-1.0150	-1.2267	-1.4011	-1.5634		
.069									-1.2651	
.080					-1.0198					
.081				-.5823						
.086			-.3636							
.094		-.4175								
.113	-.2164									
.150					-.8418	-1.0291	-1.3112	-1.0475		
.157									-1.0633	
.163			.0000							
.177				-.6231						
.229		-.3155								
.246			-.7828							
.247	-.1466									
.250					-.6857	-.8505	-.9411	-.9960		
.274				-.6119						
.345									-.8256	
.362		-.2340								
.390			-.5426							
.400					-.4899	-.5060		-.5951		
.402				-.5946						
.418										-1.9682
.429	-.1528									
.497		-.4876								
.503									-.6912	
.547	-.4208									
.550					-.2988	-.2965				
.565				-.3908						
.600								-.3182		
.633	-.4232									
.637			-.2065							
.650							-.1951			
.670									-.7584	
.700		-.1800				-.1640				
.723										-1.1383
.725					-.1447					
.727	-.1914									
.750							-.0549	-.0994		
.760				-.2030						
.775					-.1254	-.1280				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (4) = 8.041 BETA (5) = 8.297

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0288									
.798			-.1451							
.808				-.0946						
.834		-.1503								
.839			-.0475							
.850					-.0453	-.0608	.0038			
.857				-.0388						
.862									-.5705	
.865		-.1225								
.879			-.0356							
.900		-.0792			-.0529			.0115		
.905				-.0198						
.919			-.0363							
.950					-.0280	.0844	.0522			
.953				.0222						
.955			-.0117							
.965		-.0333								

ALPHA (5) = 11.909 BETA (1) = -7.850 MACH = .59648 Q = 594.33 P = 2388.5 RN/L = 4.8458

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1562	-.5034	-.7747	-.3630	-.1140	-.2327	-.3913	-.6844	-1.8833	
.010		-.5998	-.6581		-1.5138	-1.5815	-2.0247	-2.4784		
.020		-.4817		.0000	-1.5239	-1.7929	-2.1626	-2.5727	-2.6510	
.040			-.4939	-1.0789						
.041	-.1508									
.050					-1.6176	-1.9335	-2.2954	-2.5439		
.069									-2.6212	
.080					-1.7326					
.081				-1.1173						
.086			-.4380							
.094		-.2223								
.113	-.1681									
.150					-1.2683	-1.4371	-1.6123	-1.3491		
.157									-1.9908	
.163			.0000							
.177				-.9603						
.229		-.2004								
.246			-.6709							
.247	-.0921									
.250					-.9404	-1.1162	-1.2208	-1.4150		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (5) = 11.909 BETA (1) = -7.850

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7082						
.345									-1.8337	
.362		-.4855								
.390			-.5944							
.400					-.3896	-.5468		-.8116		
.402				-.4731						
.418										-2.3063
.429	-.1866									
.497		-.7277								
.503									-1.8051	
.547	-.5051									
.550					-.1836	-.2334				
.565				-.2230						
.600								-.4781		
.633	-.4259									
.637			-.1266							
.650							-.2090			
.670									-1.2585	
.700		-.1104				-.0786				
.723										-1.7106
.725					-.0761					
.727	-.0607									
.750							-.0937	-.2861		
.760				-.0542						
.775					-.1263	-.0167				
.793	.1921									
.798			-.1388							
.808				.0292						
.834		-.0077								
.840			-.0136							
.850					-.0242	.0414	-.0148			
.857				.0326						
.862									-.9813	
.865		.0664								
.879			.0342							
.900		.1164			-.0202			-.1208		
.905				.0000						
.919			.0530							
.950					.0315	.1096	.0478			
.953				-.0016						
.955			.0886							
.965		.1378								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U27)

ALPHA (5) = 11.929 BETA (2) = -3.836 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2742	-.7306	-.8930	-.5810	-.3213	-.4316	-.6088	-.8975	-2.3315	
.010		-.7246	-.5734		-1.6801	-1.7802	-2.1905	-2.6566		
.020		-.5233		.0000	-1.6197	-1.9322	-2.3855	-2.7652	-2.6273	
.040			-.3425	-1.0611						
.041	-.2434									
.050					-1.6436	-1.9925	-2.4341	-2.6509		
.069									-2.6062	
.080					-1.7170					
.081				-1.0551						
.096			-.3723							
.094		-.3841								
.113	-.2368									
.150					-1.2475	-1.4354	-1.6604	-1.4908		
.157									-1.9968	
.163			.0000							
.177				-.8874						
.229		-.4486								
.246			-.7385							
.247	-.1213									
.250					-.8985	-1.1094	-1.2060	-1.3064		
.274				-.7832						
.345									-1.7984	
.362		-.6179								
.390			-.6326							
.400					-.4598	-.5622		-.7965		
.402				-.5620						
.418										-2.1916
.429	-.2003									
.497		-.6960								
.503									-1.9559	
.547	-.5405									
.550					-.2935	-.2664				
.565				-.1487						
.600								-.4775		
.633	-.4812									
.637			-.2636							
.650							-.2160			
.670									-1.4723	
.700		-.1179				-.1183				
.723										-1.5704
.725					-.1830					
.727	-.1518									
.750							-.0948	-.3134		
.760				-.0775						
.775					-.2030	-.0566				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (5) = 11.929 BETA (2) = -3.836

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0970									
.798			-.1313							
.808				-.0182						
.834		-.0738								
.839			-.0186							
.850					.0305	.0001	-.0221			
.857				-.0013						
.862									-1.0903	
.865		-.0026								
.879			.0031							
.900		.0423			.0470			-.1271		
.905				-.0143						
.919			-.0017							
.950					.1110	.0579	.0330			
.953				.0051						
.955			.0300							
.965		.0787								

ALPHA (5) = 11.930 BETA (3) = .181 MACH = .59648 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3392	-.8944	-.8935	-.7926	-.5027	-.6389	-.7944	-1.0820	-2.5312	
.010		-.6192	-.4335		-1.7828	-1.9376	-2.3312	-2.7692		
.020		-.4729		.0000	-1.6843	-2.0543	-2.5117	-2.8734	-2.1319	
.040			-.4049	-.9281						
.041	-.3507									
.060					-1.5907	-2.0036	-2.4721	-2.6998		
.069									-1.8626	
.080					-1.5844					
.081				-.8766						
.085			-.4537							
.094		-.5182								
.113	-.2283									
.150										
.157					-1.1739	-1.4098	-1.7224	-1.5341		
.163									-1.7073	
.177			.0000							
.229				-.8872						
.246		-.6701								
.247	-.1577		-.8117							
.250					-.8245	-1.0558	-1.1532	-1.1944		

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

ALPHA (5) = 11.930 BETA (3) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7897					-1.6242	
.345										
.362		-.5513								
.390			-.7213							
.400					-.5373	-.5280		-.7617		
.402				-.4894						-1.9020
.418										
.429	-.2452									
.497		-.6854							-1.6912	
.503										
.547	-.5511									
.550					-.3934	-.2942				
.565				-.2531						
.600								-.4543		
.633	-.4865									
.637			-.3131							
.650							-.2083			
.670									-1.2755	
.700		-.1464				-.1594				-1.3923
.723										
.725					-.0926					
.727	-.1812									
.750							-.1151	-.2780		
.760				-.1736						
.775					-.0662	-.1479				
.793	.0455									
.798			-.1381							
.808				-.1782						
.834		-.1067								
.839			-.0181							
.850					.0486	-.0979	-.0491			
.857				-.1382						
.862									-.8672	
.865		-.0533								
.879			.0002							
.900		-.0031			.0437			-.1263		
.905				-.1178						
.919			-.0046							
.950					.0766	-.0139	.0128			
.953				-.0709						
.955			.0275							
.965		.0350								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (5) = 11.930 BETA (4) = 4.251 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5266	-.9847	-.6145	-.9089	-.6743	-.8396	-1.0222	-1.3101	-2.6218	
.010		-.5438	-.4651		-1.8352	-2.0866	-2.5120	-2.6671		
.020		-.5226		.0000	-1.6572	-2.1982	-2.6878	-2.6441	-1.7870	
.040			-.4708	-.7547						
.041	-.4975									
.050					-1.5185	-1.9481	-2.5809	-2.4179		
.069									-1.6868	
.080					-1.4339					
.081				-.8177						
.086			-.5031							
.094		-.5694								
.113	-.2559									
.150					-1.0177	-1.3397	-1.6669	-1.8295		
.157									-1.6'24	
.161			.0000							
.177				-.8436						
.229		-.7163								
.246			-.8717							
.247	-.2051									
.250					-.8085	-.9797	-1.1024	-1.2000		
.274				-.7628						
.345									-1.5175	
.362		-.4998								
.390			-.8607							
.400					-.5913	-.5336		-.6696		
.402				-.6231						
.418										-1.3932
.429	-.2459									
.497		-.6391								
.503									-1.4116	
.547	-.5368									
.550					-.3317	-.3749				
.565				-.5195						
.600								-.3437		
.633	-.5098									
.637			-.2615							
.650							-.2536			
.670									-1.0639	
.700		-.1828				-.2382				
.723										-1.0545
.725					-.1522					
.727	-.2031									
.750							-.2071	-.1844		
.760				-.2242						
.775					-.1697	-.1533				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE6U27)

ALPHA (5) = 11.930 BETA (4) = 4.251

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0036									
.798			-.1393							
.808				-.1799						
.834		-.1288								
.839			-.0291							
.850					-.1295	-.6703	-.1393			
.857				-.0993						
.862									-.7480	
.865		-.0906								
.879			-.0175							
.900		-.0399			-.0942			-.1183		
.905				-.0583						
.919			-.0132							
.950					-.0492	.0484	-.0528			
.953				.0016						
.955			.0116							
.965		-.0045								

ALPHA (5) = 11.920 BETA (5) = 8.317 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6592	-1.0619	-.5495	-.9710	-.8845	-1.0635	-1.2791	-1.5437	-2.0549	
.010		-.5875	-.5036		-1.8657	-2.2409	-2.6934	-2.5014		
.020		-.5903		.0000	-1.6124	-2.2795	-2.8224	-2.4605	-1.5371	
.040			-.7098	-.7243						
.041	-.6826									
.050					-1.4020	-1.8156	-2.6397	-2.2356		
.069									-1.4340	
.080					-1.2623					
.081				-.7747						
.086			-.5507							
.094		-.6228								
.113	-.3290									
.150					-.9216	-1.2407	-1.5817	-1.8563		
.157									-1.3430	
.163			.0000							
.177				-.7946						
.229		-.8201								
.246			-1.0120							
.247	-.2536									
.250					-.8266	-.8781	-1.0228	-1.2735		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU27)

ALPHA (5) = 11.920 BETA (5) = 8.317

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7754						
.345									-1.3170	
.382		-.3936								
.390			-.7426							
.400					-.5568	-.5928		-.6374		
.402				-.8051						
.418										-1.1495
.429	-.2328									
.497		-.6076								
.503									-1.2806	
.547	-.5139									
.550					-.4039	-.4256				
.585				-.5132						
.600								-.3138		
.633	-.5039									
.637			-.2723							
.650							-.3272			
.670									-.9638	
.700		-.2104				-.2684				
.723										-.8059
.725					-.2666					
.727	-.2131									
.750							-.2875	-.1863		
.760				-.2164						
.775					-.3900	-.1335				
.793	-.0455									
.799			-.1573							
.809				-.1633						
.834		-.1533								
.839			-.0760							
.850					-.2537	-.0807	-.1722			
.857				-.0854						
.882									-.6251	
.885		-.1314								
.879			-.0597							
.900		-.0716			-.2648			-.1157		
.905				-.0533						
.919			-.0453							
.950					-.1728	-.0178	-.0653			
.953				.0070						
.965			-.0089							
.985		-.0298								