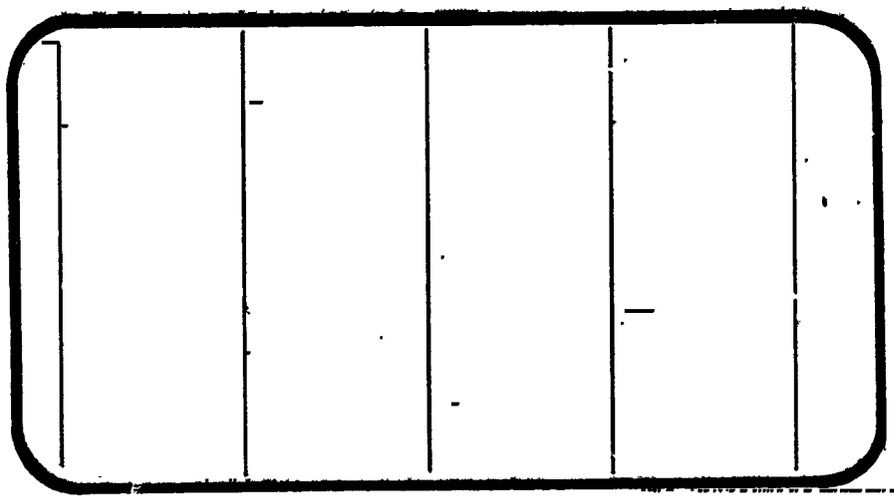
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-
149628



(NASA-CR-149628) TERMINAL AREA ENERGY MANAGEMENT FLIGHT INVESTIGATIONS USING AN 0.030-SCALE MODEL (87-0) OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION 140A/B/C/D IN THE MASS RESEARCH CENTER 11 X 63/16

N76-30270
HC $21.25
Unclas
49192

SEP 1976
RECEIVED
NASA STI FACILITY
INPUT BRANCH

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA-MANagement services
SPACE DIVISION CHRYSLER CORPORATION

DMS-DR-2254
NASA CR-144,628

VOLUME 10 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

Data Management Services
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

FACILITY COORDINATOR:

Stuart L. Treon
Mail Stop 227-5
Ames Research Center
Moffett Field, Calif. 94035

Phone: (415) 922-5850

AERODYNAMICS ANALYSIS ENGINEERS:

S. Kraus
J. H. Reichert
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AC07
Downey, Calif. 90241

Phone: (213) 922-4831

PROJECT ENGINEERS:

P. J. Hawthorne
J. Marroquin
M. D. Milam
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AD38
Downey, Calif. 90241

Phone: (213) 922-3785

R. E. Ellington
J. J. Brownson
Ames Research Center
Mail Stop 227-5
Moffett Field, Calif. 94035

Phone: (415) 965-6262

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver
Operations--W. B. Meinders

Reviewed by: D. E. Poucher

Approved: J. L. Glynn, Manager
Data Operations

Concurrence: N. D. Kemp, Manager-
Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

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

by

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.

INDEX OF MODEL FIGURES

Figures	Title	Page
1.	Axis systems and sign conventions.	
	a. Orbiter Axis Systems	50
	b. Definition of Angular Measurements	51
	c. Elevon Hinge Moment Sign Convention	52
2.	Model sketches.	
	a. Configuration - 140A/B/C/R	53
	b. Base Pressure Taps and Areas	54
	c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations	56
3.	Model installation photographs.	
	a. Three-Quarter Front View of Model 47-0 in the ARC 11 x 11 Foot UPWT	60
	b. Three-Quarter Rear View of Model 47-0 in the ARC 11 x 11 Foot UPWT	61

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
VOLUME 1				
4	VARIATION OF LATERAL DIRECTIONAL AERODYNAMIC CHARACTERISTICS WITH BETA	ALPHA,MACH,BDFLAP, SPDBRK,ELVN-L,ELVN-R, RUDDER	A	1-252
5	VARIATION OF LONGITUDINAL AERODYNAMIC CHARACTERISTICS WITH ALPHA	BETA,MACH,BDFLAP,SPDBRK, ELVN-L,ELVN-R,RUDDER	B	253-507
6	VARIATION OF HINGE MOMENT CHARACTER-ISTICS WITH ALPHA	BETA,MACH,BDFLAP,SPDBRK, ELVN-L,ELVN-R,RUDDER	C	508-762
VOLUME 2				
7	ORBITER FUSELAGE BODY FLAP DEFLECTION 0 DEGREES	ALPHA, MACH PHI, BETA	D	763-864
8	ORBITER FUSELAGE BODY FLAP DEFLECTION 16.3 DEGREES	ALPHA, MACH PHI, BETA	D	865-966
9	LEFT WING BOTTOM SURFACE ELEVON DEFLECTION 0 DEGREES	ALPHA, MACH 2Y/BW, BETA	E	967-1051
10	LEFT WING BOTTOM SURFACE ELEVON DEFLECTION 10 DEGREES	ALPHA, MACH 2Y/BW, BETA	E	1052-1136
11	LEFT WING TOP SURFACE ELEVON DEFLECTION 0 DEGREES	ALPHA, MACH 2Y/BW, BETA	E	1137-1221
12	LEFT WING TOP SURFACE ELEVON DEFLECTION 10 DEGREES	ALPHA, MACH 2Y/BW, BETA	E	1222-1306
13	VERTICAL TAIL SPEEDBRAKE DEFLECTION 0 DEGREES	ALPHA, MACH Z/BV, BETA	F	1307-1374

INDEX OF DATA FIGURES (Concluded)

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

NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
X/C	X/CW	chordwise location on wing surface, fraction of local chord
X/C_v	X/CV	chordwise location on vertical tail, fraction of local chord
η_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 in the coefficient. The reason for this was not determined, but possible sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

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

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

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

CONFIGURATION INVESTIGATED

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

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

The following nomenclature denotes the model components:

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

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

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

-140 ASC ≡ $B_{26}\ C_9\ E_{44}\ E_9\ M_{16}\ N_{28}\ R_5\ V_8\ W_{116}$

TEST FACILITY DESCRIPTION

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

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

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

DATA REDUCTION

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

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

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

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

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

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

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

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

Moment Transfer Distances

X_T = 0.572 in.
Y_T = 0
Z_T = 0.450 in.

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

	Orbiter (Full Scale)
X_o	1076.68
Y_o	0
Z_o	375.00

Balance coefficients were grouped into datasets RE80$$.

DATA REDUCTION (Continued)

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

Elevon hinge moments (inboard and outboard).

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

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

where

HMi = measured moment on strain gage i

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

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

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

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

Elevon hinge moment coefficients

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

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

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

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

c_e = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

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

HM_{bf} = measured body flap hinge moment

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

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

Hinge moment coefficients are part of datasets RE8X$$.

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

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

where P_i = pressure at model orifice i

P_∞ = tunnel static pressure

q = tunnel dynamic pressure

Other data reduction constants include:

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

c = wing reference chord, 14.2443 in.

b = wing reference span, 28.1004 in.

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

U - uncorrected coefficients.

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

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

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

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

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

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

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

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

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

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

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

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

These orbiter coefficients are part of datasets KE80$$.

DATA REDUCTION (Continued)

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

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

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

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

Lower base area

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

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

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

Total base area, A_2

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

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

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

OMS pod base area, A_3

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

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

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

OMS pod base area, A_4

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

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

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

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

Upper surface of body flap

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

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

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

where:

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

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

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

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

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

These orbiter coefficients are part of datasets KE80$$.

Vertical tail "undercarriage" area, A_5

Top Segment:

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

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

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

Middle Segment:

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

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

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

Bottom Segment:

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

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

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

Total area, A_5:

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

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

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

Vertical Tail base area, A_6:

Segment above rudder

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

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

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

Rudder/Speed brake base:

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

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

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

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

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

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

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

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

Total area, A_6:

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

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

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

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

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

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

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

BASE GEOMETRIC PROPERTIES MATRIX

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

NOTES: Sting cavity and Orbiter balance cavity are synonymous.
NA - not applicable.

DATA REDUCTION (Continued)

δ_{sb}	$A6_\ell$ ft²
0	0.0066036
25	0.0456000
35	0.0621000
55	0.0950800
85	0.1551400

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

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

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

DATA REDUCTION (Continued)

OA148 Bad Pressure Data

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

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

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

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

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

DATA REDUCTION (Concluded)

VOLUME NO.

CONTENTS

3 Tabulated Force Data

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

Tabulated Pressure Data

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

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

REFERENCES

1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 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

LOC I-073

TABLE II.

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

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{SF}	δ_{EL}	δ_{ER}	α: -4	0	4	8	12	16	MACH NUMBERS			
2E8001	-140 ABCR	B	D	0	55	16.5	0	0	32	33	34	35	58	59		1.4		
002		A	D						38	39	40	41	42			1.25		
003		A	D						43	44	45	46	47			1.1		
004		A	D						48	49	50	51	52			0.9		
005		A	C						53	54	55	56	57			0.6		
006	-140 ABCR	A	C	0	55	22.5	0	0	60	61	62	63	64			0.6		
007		A	D						68	66	67	69	70			0.9		
008	-140 ABCR	B	D	0	85	22.5	0	0	71	72	73	74	75	76		1.4		
009		A	D						77	78	79	80	81			1.25		
010		A	D						82	83	84	85	86			1.1		
011		A	D						87	88	89	90	91			0.9		
012		A	C						92	93	94	95	96			0.6		

TEST MACH NUMBER

13 19 43

COEFFICIENTS — IDVAR (1) IDVAR (2) IDV

α OR β SCHEDULES

A_α = -4, 0, 4, 8, 12

B_α = -4, 0, 4, 8, 12, 16

C_β = -8, -4, 0, 4, 8

D_β = -4, 0, 4

NASA-MSFC-MAF

82

TABLE II - Continued.

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

OA & SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{BF}	δ_{EL}	δ_{ER}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
RE3013	-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 73 76

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

α OR β SCHEDULES

NASA-MSFC-MAF

TABLE II. - Continued.

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

DATA SET IDENTIFIER	CONFIGURATION	α	β	S_r	S_{SB}	S_{BF}	S_{EL}	S_{EF}	α: -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
RE8028	140 ABCR	B	D	-10	35	163	10	0	175	176	177	178	179	180	1.4	
029		A	D						181	182	183	184	185		1.25	
030		A	D						186	187	188	189	190		1.1	
031		A	D						191	192	193	194	195		0.9	
032		A	C						196	197	198	199	200		0.6	
033	140 ABCR	B	D	+10	35	163	0	10	201	202	203	204	205	206	1.4	
034		A	D						207	208	209	210	211		1.25	
035		A	D						212	213	214	215	216		1.1	
036		A	D						217	218	219	220	221		0.9	
037		A	C						222	223	224	225	226		0.6	
038	140 ABCR	B	D	+10	85	163	10	10	227	228	229	230	231	232	1	
039		A	D						233	234	235	236	237		1.25	
040		A	D						238	239	240	241	242		1.1	
041		A	D						243	244	245	246	247		0.9	
042		A	C						248	249	250	251	252		0.6	

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

COEFFICIENTS — IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

NASA-MSFC-MAF

TABLE II. - Continued.

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

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_{β_2}	δ_{α_2}	δ_{β_1}	δ_{α_1}	δ_{α_0}	α: -4	0	4	8	12	16	MACH NUMBERS
RE8043	140 ABCR	A	D	0	55	225	10	10	253	254	255	256	257		0.9
044		A	C						258	259	260	261	262		0.6
045	140 ABCR	A	D	0	55	225	4	4	263	264	265	266	267		0.9
046		A	C						268	269	270	271	272		0.6
047	140 ABCR	B	D	-10	85	163	4	4	273	274	275	276	277	278	1.4
048		A	D						279	280	281	282	283		1.25
049		A	D						284	285	286	287	288		1.1
050		A	D						289	290	291	292	293		0.9
051		A	D						294	295	296	297	298		0.6
052	140 ABCR	B	D	-10	55	163	-4	+4	299	300	301	302	303	304	1.4
053		A	D						305	306	307	308	309		1.25
054		A	D						310	311	312	313	314		1.1
055		A	D						315	316	317	318	319		0.9
056		A	C						320	321	322	323	324		0.6

TEST RUN NUMBER

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

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

α OR β SCHEDULE

NASA-MSFC-MAF

TABLE II. - Continued.

TEST: CA 148 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{SF}	δ_{SL}	δ_{SR}	α = -4	0	4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
CE5057	-140ABCR	B	D	10	55	163	4	-4	325	326	327	328	329	330	1.4	
058		A	D						331	332	333	334	335		1.25	
059		A	D						336	337	338	339	340		1.1	
060		A	D						341	342	343	344	345		0.9	
061		A	C						346	347	348	349	350		0.6	
062	-140ABCR	B	D	+5	55	163	-4	-4	351	352	353	354	355	356	1.4	
063		A	D						357	358	359	360	361		1.25	
064		A	D						362	363	364	365	366		1.1	
065		A	D						367	368	369	370	371		0.9	
066		A	C						372	373	374	375	376		0.6	
067	-140ABCR	A	D	0	55	163	-4	-4	377	378	379	380	381		0.9	
068		A	C						382	383	384	385	386		0.6	
069	-140ABCR	A	D	0	55	163	-10	-10	387	388	389	390	391		0.9	
070		A	C						392	393	394	395	396		0.6	

1 7 13 19 25 31 37 43 49 ... 76

COEFFICIENTS — IDVAR (1) IDVAR (2) IDV

α OR β SCHEDULES

NASA-MSFC-MAF

TABLE II. - Concluded.

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

DATA SET IDENTIFIER	CONFIGURATION	α	β	δ_R	δ_{SB}	δ_{BF}	δ_{EL}	δ_{EB}	X: -4	0	+4	8	12	16	MACH NUMBERS	TEST RUN NUMBER
RE071	-140 ABC	B	D	-5	55	16.3	-10	-10	397	398	399	400	401	402	1.4	
072		A	D						403	404	405	406	407		1.25	
073		A	D						408	409	410	411	412		1.1	
074		A	D						413	414	415	416	417		0.9	
075		A	C						418	419	420	421	422		0.6	
076	-140 ABC	B	D	+10	0	-11.7	+10	-10	423	424	425	426	427	428	1.4	
077		A	D						429	430	431	432	433		1.25	
078		A	D						434	435	436	437	438		1.1	
079		A	D						439	440	441	442	443		0.9	
080		A	C						444	445	446	447	448		0.6	
081	-140 ABC	B	E	10	0	-11.7	-10	+10	449	450	451	452	453	454	1.4	
082		A	E						455	456	457	458	459		1.25	
083		A	E						460	461	462	463	464		1.1	
084		A	F						465	466	467	468	469		0.9	
085		A	O						470	471	472	473	474		0.6	

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

α OR β SCHEDULES

COEFFICIENTS

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

IDVAR (1) IDVAR (2) NDV

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

NASA-MSFC-MAF

TABLE III
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B_{26}

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

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

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

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

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

TABLE III (Continued)

MODEL COMPONENT : BODY - B_{70}

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

MODEL SCALE: 0.030

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

DIMENSIONS :

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

TABLE III (Cont'd)

MODEL COMPONENT : CANOPY - C_9

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

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

DRAWING NUMBER : VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X_0=434.643 to 578), In.	143.357	4.301
Max Width (@ X_0 = 513.127), In.	1[illegible].412	4.572
Max Depth (@ X_0 = 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. caps machined into E_{26} elevon. Flipper doors centerbody pieces, and tipseals are not simulated. (Data are for one of two sides.)

MODEL SCALE: 0.030

DRAWING NUMBER

DIMENSIONS

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

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - F_9

GENERAL DESCRIPTION : Configuration 140A/B

MODEL SCALE: 0.030

DRAWING NUMBER . VL70-000140B, -000200

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

TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M_{16}

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

MODEL SCALE: 0.015

DRAWING NUMBER : VL70-008401, -008410

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

TABLE III (Cont'd)

MODEL COMPONENT: OMS NOZZLES - N_{28}

GENERAL DESCRIPTION: Configuration 140A/B orbiter OMS nozzles.

MODEL SCALE: 0.030

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

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

TABLE III (Cont'd)

MODEL COMPONENT RUDDER - R_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_{111} except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.030

TEST NO. DWG. NO. VL70-000140A, -000200

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

TABLE IV.

FUSELAGE PRESSURE TAP LOCATIONS -

ORBITER - IN.			Φ RADIAL LOCATION - DEGREES																				
FULL	MODEL	X/L	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	.046		24	25	26	27	28			29			30							31	8	21
325	9.75	.070		36	37	38	39	40			41			42							43	8	29
330	11.40	.112	47	48	49	50	51	52			53			54							55	9	38
440	13.20	.158																		59		1	39
450	13.50	.166	60	61	62	63	64	65			66			67					68		69	10	49
465	13.95	.177													73		74					2	51
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	11	62
560	16.80	.251	89		90		91	92			93			94				95			96	8	70
625	18.75	.301	98		99		100	101			102			103				104			105	8	78
725	21.75	.378	107		108		109	110			111			112				113			114	8	86
880	26.40	.497	116		117		118	119			120			121				122			123	8	94
980	29.40	.574	125		126																	2	96
1080	32.40	.652	128		129		130	131			132			133				134			135	8	104
1180	35.40	.729	137		138		139	140			141			142							143	7	111

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

ORBITER-IN.			Φ RADIAL LOCATION ~ DEGREES																								
FULL	MODEL	X/L₀	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ NO TAPS
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154				10	10
1300	39.0	.821	156		157		158	159	160		161	162		163							164				9	19
1375	41.25	.879	166		167		168	169	170		171	172		173				174							9	28
1430	42.9	.921	176		177		178	179	180		181	182		183				184							9	37
1480	44.4	.960	186		187		188	189	190		191	192		193				194							9	46
1530	45.9	.999								196 198	197 199														4	50

TABLE V.

η	y_0	LEFT WING PRESSURE TAP LOCATIONS																No TAPS	Σ No TAPS
.235	110	X/C	0	.041	.113	.247	.429	.547	.633	.727	.793								9
		TOP	208	209	210	211	212	213	214	215	216							9	
		BOT	—	—	—	—	—	—	—	—	—							0	
.299	140	X/C	0	.010	.020	.050	.094	.229	.362	.497		.700	.830	.865	.900	.965			
		TOP	217	218	219	220	221	222	223	224		225	226	227	228	229		13	34
		BOT		230	231	232	233	234	235	236		237	238	239	240	241		12	
.364	170	X/C	0	.010	.020	.040	.086	.163	.246	.390		.637	.798	.839	.879	.919	.955		
		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	
.427	200	X/C	0	.010	.020	.040	.083	.177	.274	.402	.565	.760	.808	.857	.905	.953	1.00		
		TOP	269	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	
.534	250	X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950			
		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
.641	300	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00				123
		TOP										333	334	335				3	
		BOT										341	345	346	347			4	
.673	315	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00				140
		TOP	324	325	326	327	328	329	330	331	332							9	
		BOT		336	337	338	339	340	341	342	343							8	
.780	365	X/C	0	.010	.020	.050	.150	.250	.650	.750	.850	.950							159
		TOP	349	349	350	351	352	353	354	355	356	357						10	
		BOT		358	359	360	361	362	363	364	365	366						9	
.887	415	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.0						179
		TOP	367	368	369	370	371	372	373	374	375	376						10	
		BOT		377	378	379	380	381	382	383	384	385	386					10	
.972	455	X/C	0	.020	.069	.157	.345	.503	.620	.862									194
		TOP	387	388	389	390	391	392	393	394								8	
		BOT		395	396	397	398	399	400	401								7	
1.0	46834	X/C	.418	.723															196
		TOP	402	403														2	
		BOT																	

TABLE VI.

ORBITER VERTICAL TAIL & SPEED BRAKE

PRESSURE TAP LOCATIONS

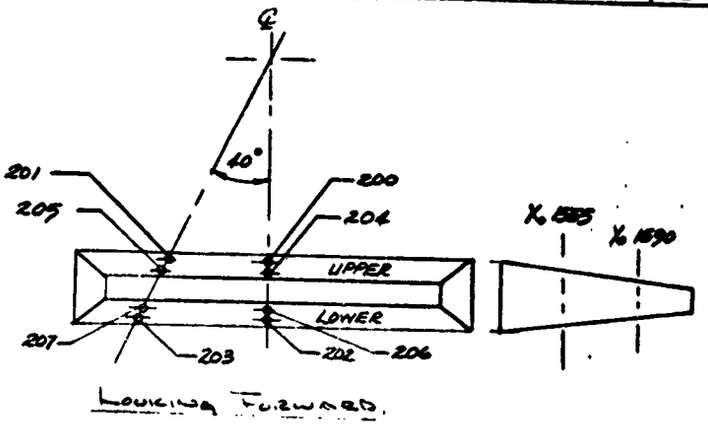
VERTICAL (LH ONLY)		X/C_V											
Z_o FULL SCALE	Z_o MODEL SCALE	η_V	0	.025	.05	.15	.30	.52	.685	.775	.90	NO TAPS	Σ NO TAPS
550	16.5	.153	430	431	432	433	434	435	436	437		8	8
600	18.0	.316	438	439	440	441	442	443	444	445	446	9	17
645	19.35	.458							1444	1445	1446	3	20
690	20.70	.600	447	448	449	450	451	452	453	454	455	9	29
720	21.6	.720							1453	1454	1455	3	32
765	22.95	.820	456	457	458	459	460	461	462	463	464	9	41
792	23.76	.925	465	466	467	468	469	470	471	472	473	9	50

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

TABLE VII.

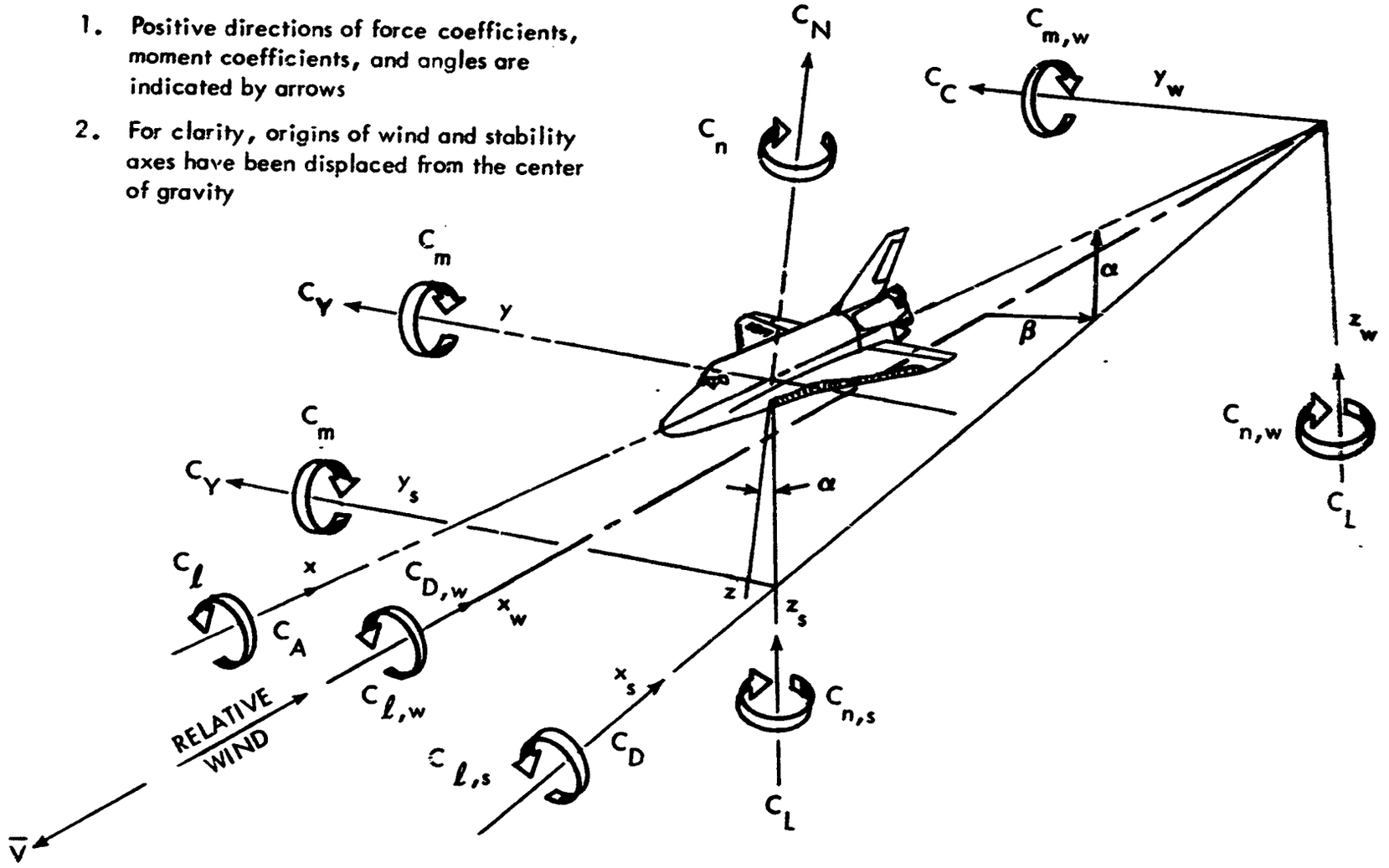
BODYFLAP PRESSURE TAP LOCATIONS

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



Notes:

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

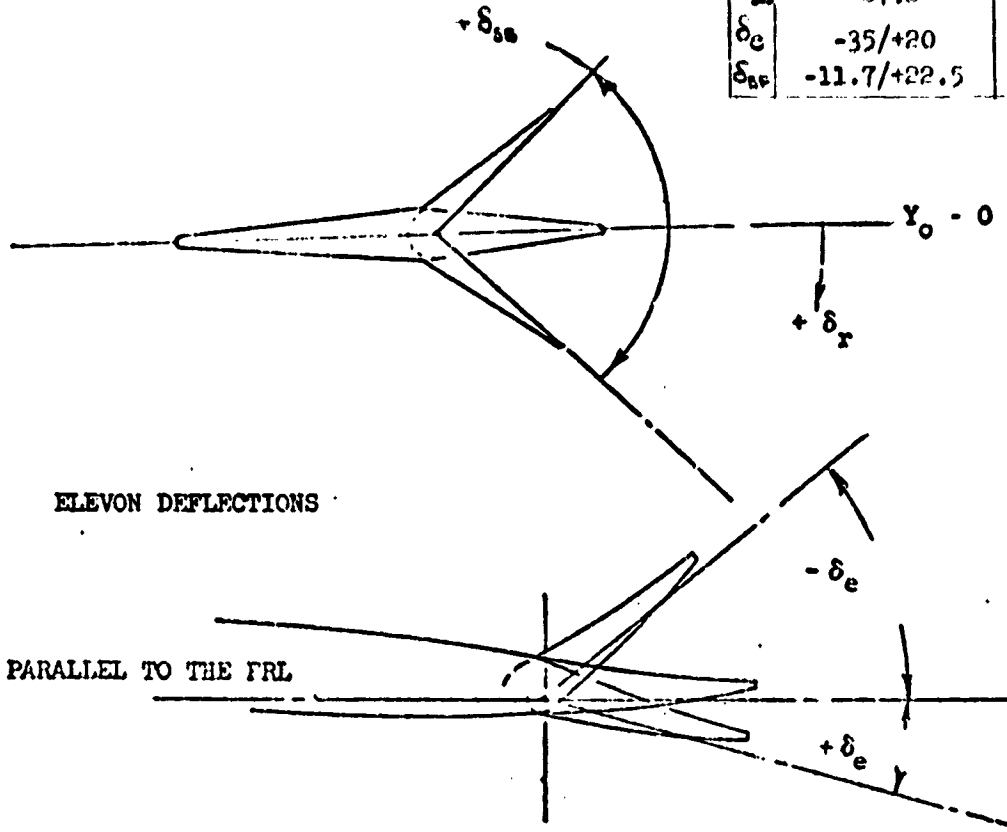


a. Orbiter Axis Systems

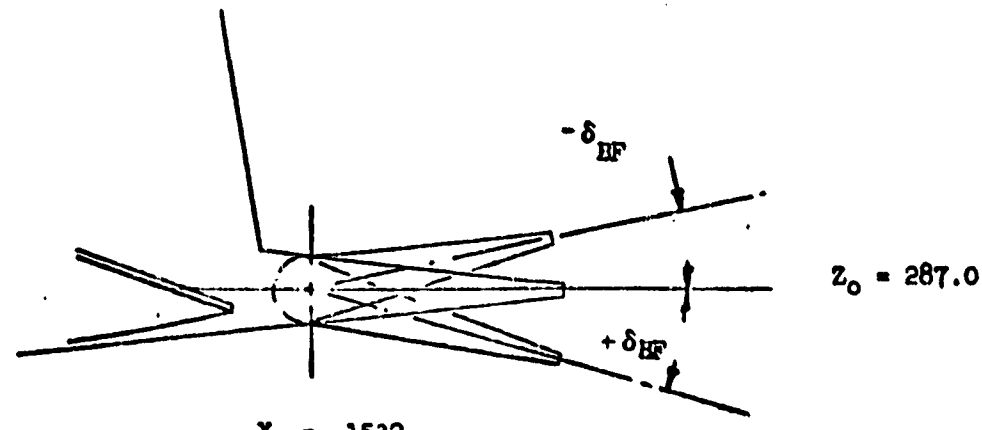
Figure 1. - Axis systems and sign conventions

RUDDER AND SPEED BRAKE DEFLECTIONS
(PARALLEL TO THE FRL)

	Maximum Deflections	
	Vehicle [illegible]	Test CAIAA
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

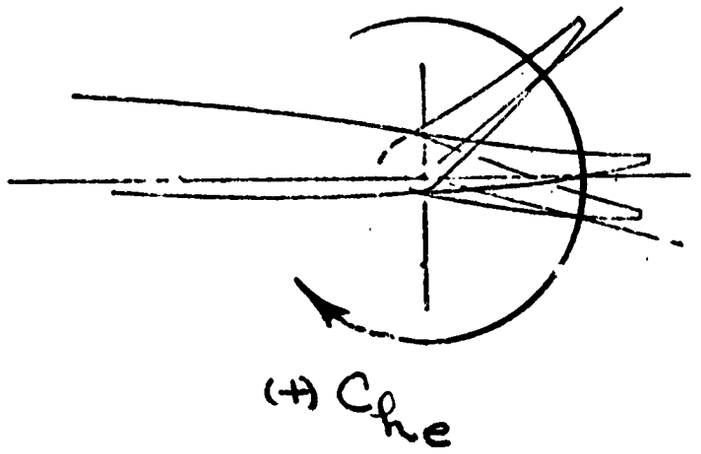


BODY FLAP DEFLECTIONS



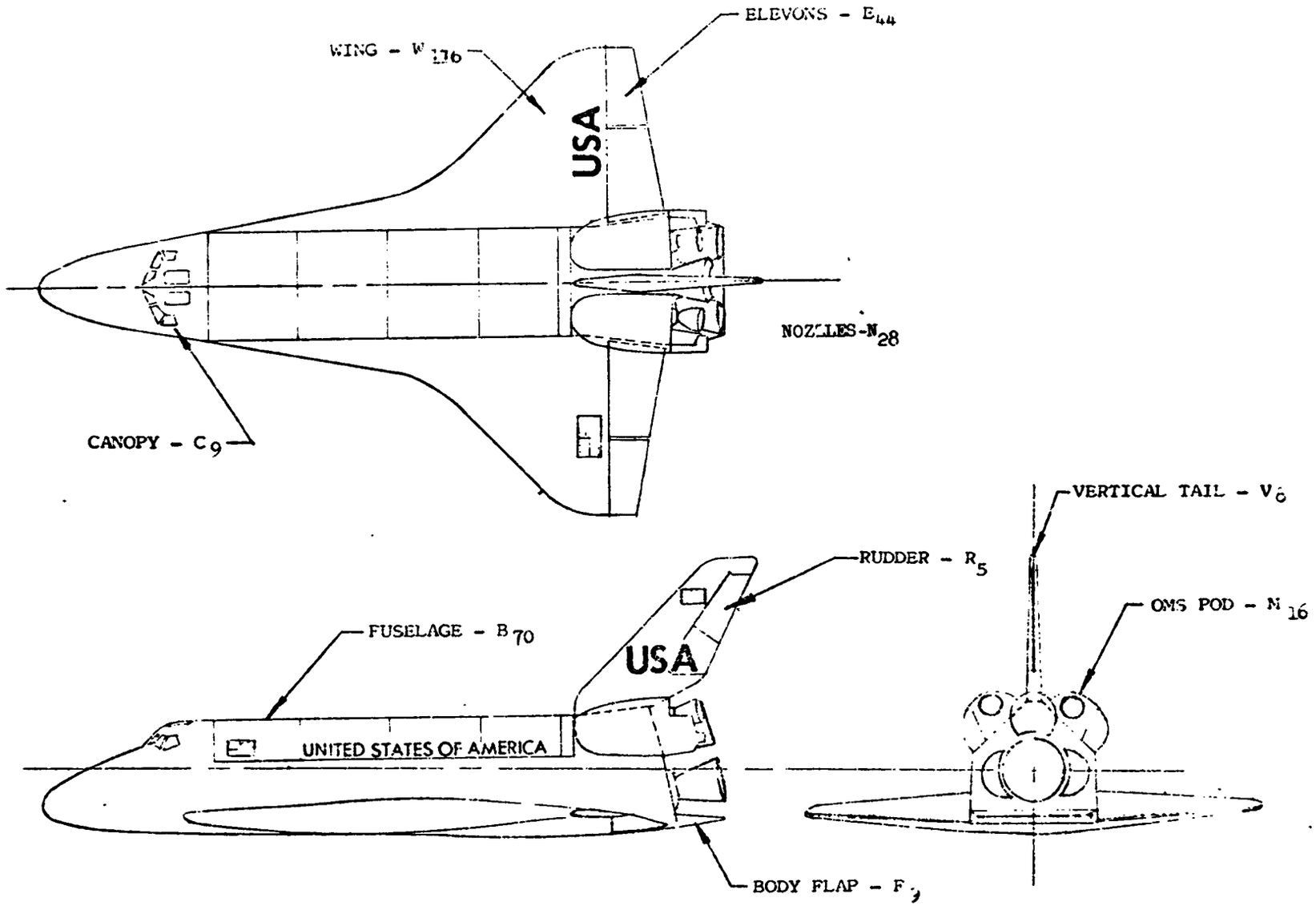
b. Definition of Angular Measurements

Figure 1. - Continued.



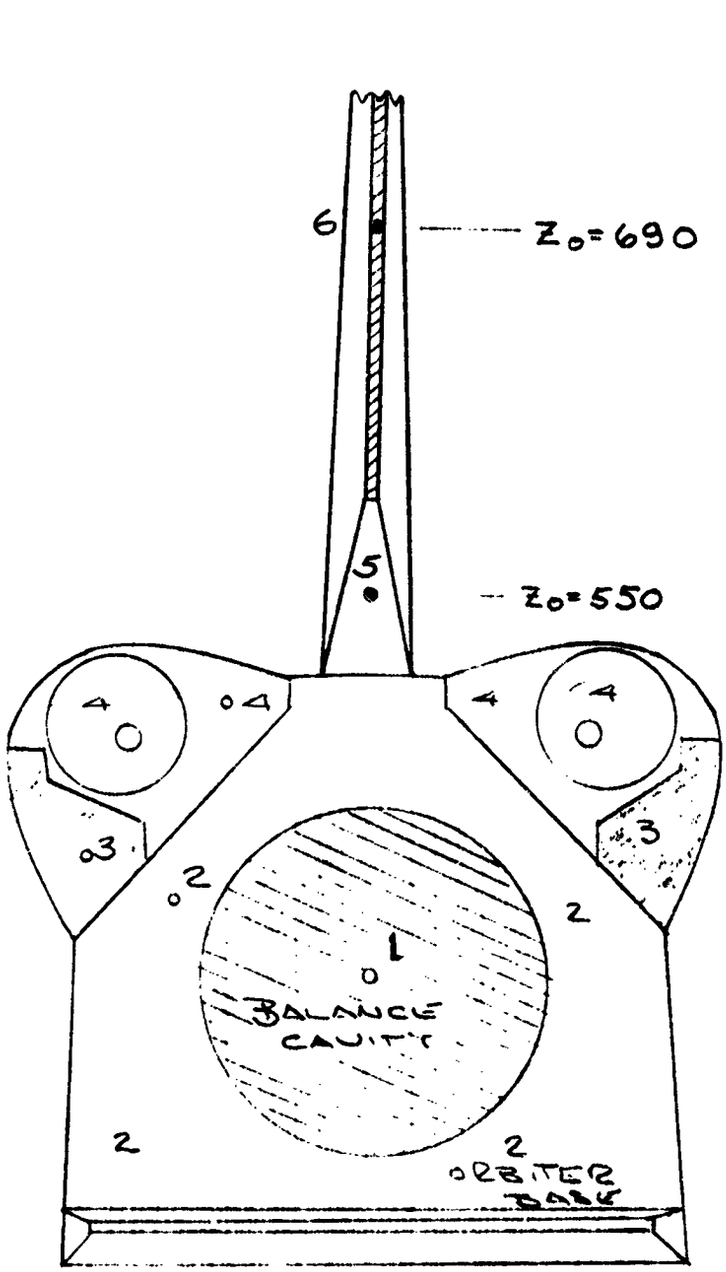
c. Elevon Hinge Moment Sign Convention

Figure 1. - Concluded.



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

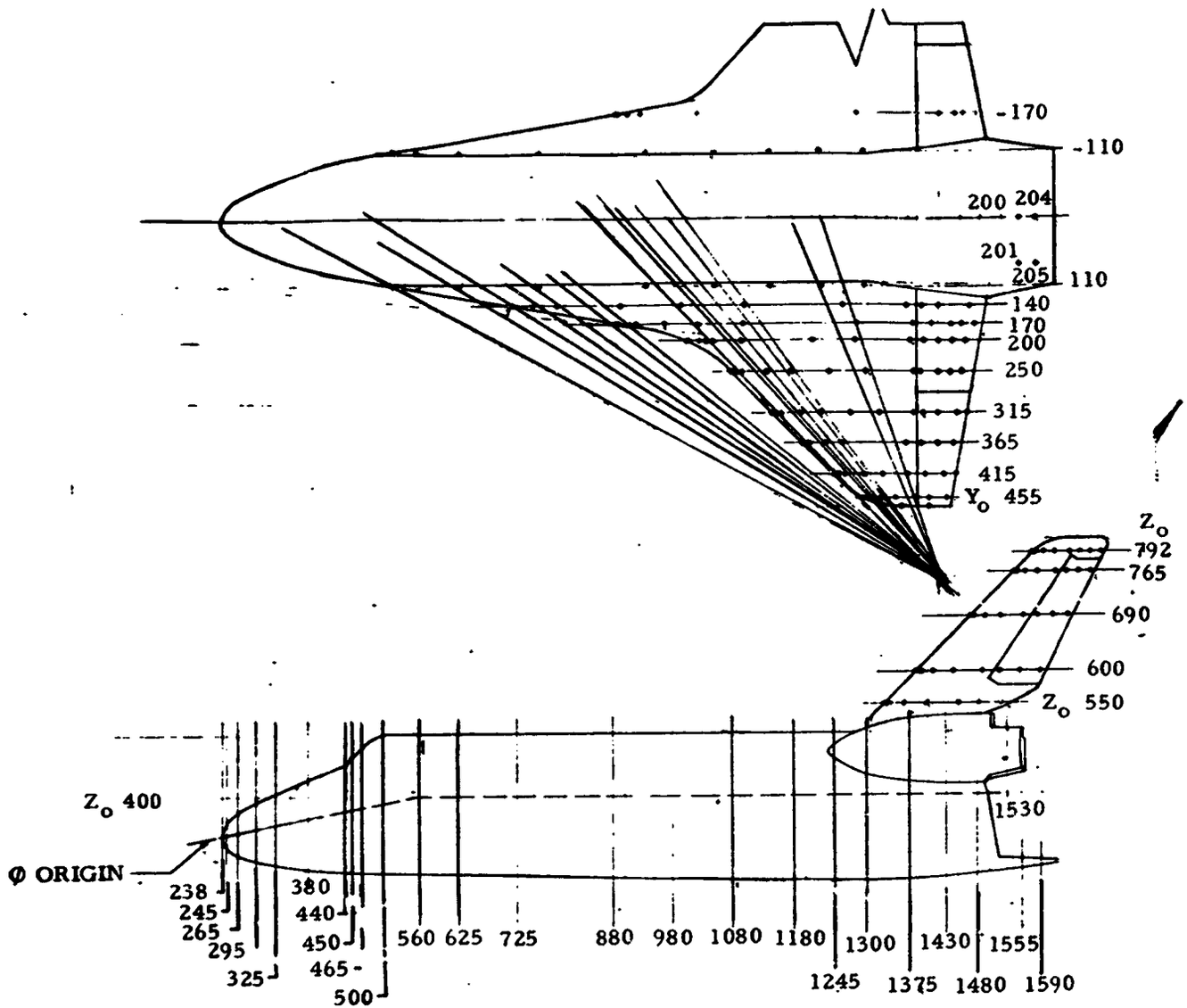
Figure 2. - Model sketches.



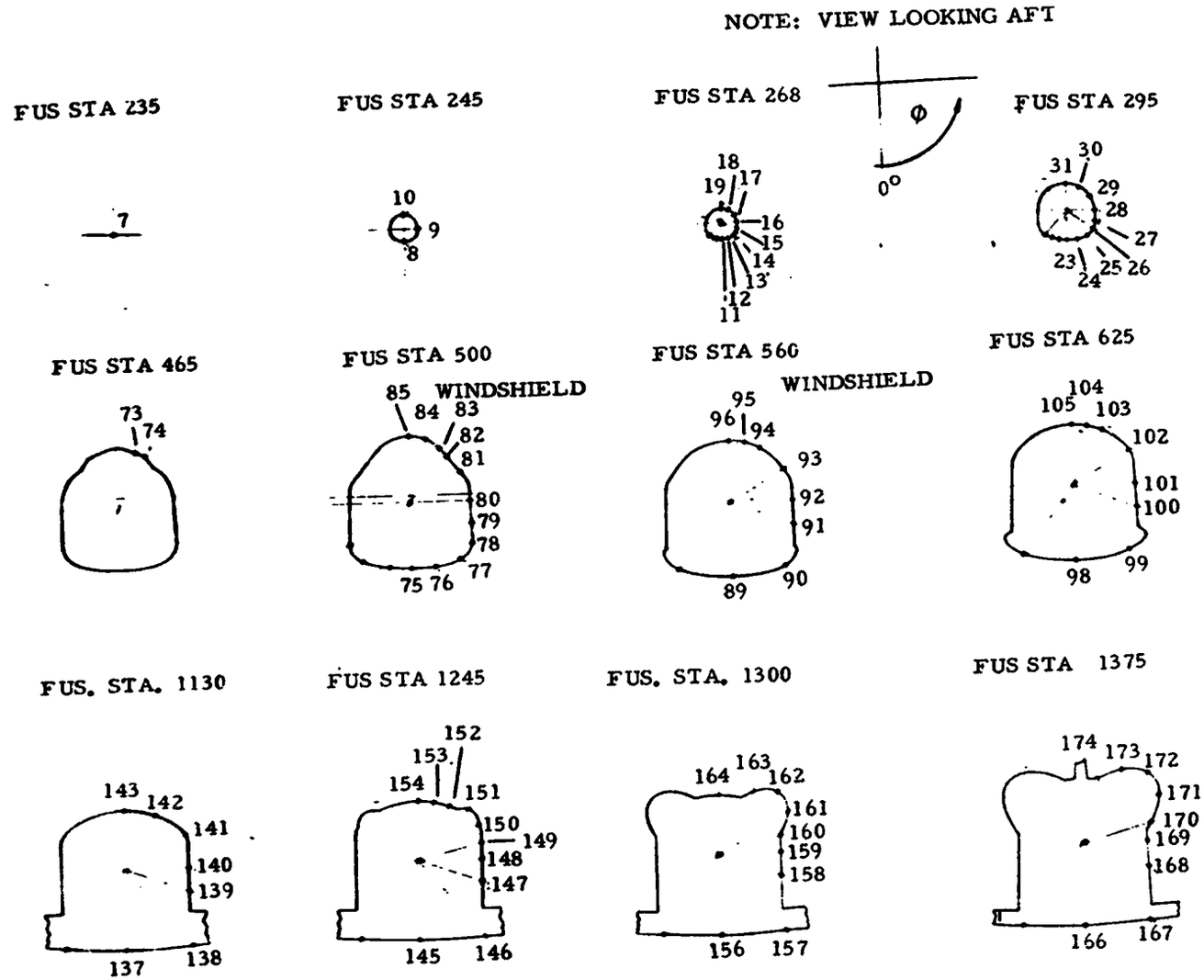
AREA NO.	PROJECTED AXIAL VALUE
A1	0.076699 ft²
A2	0.215695 ft²
A3	0.034072 ft²
A4	0.074167 ft²

b. Base Pressure Taps and Areas

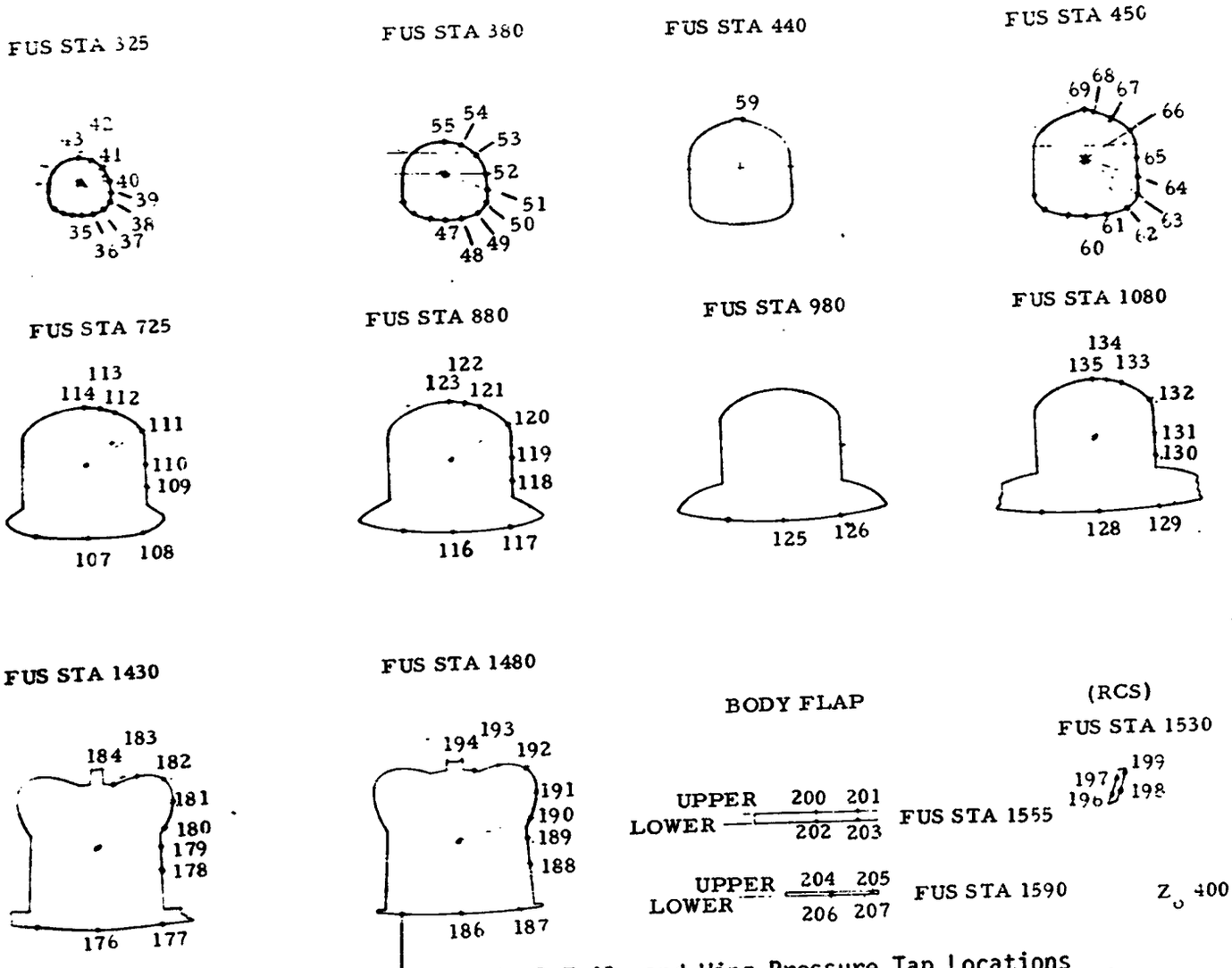
Figure 2. - Continued.



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

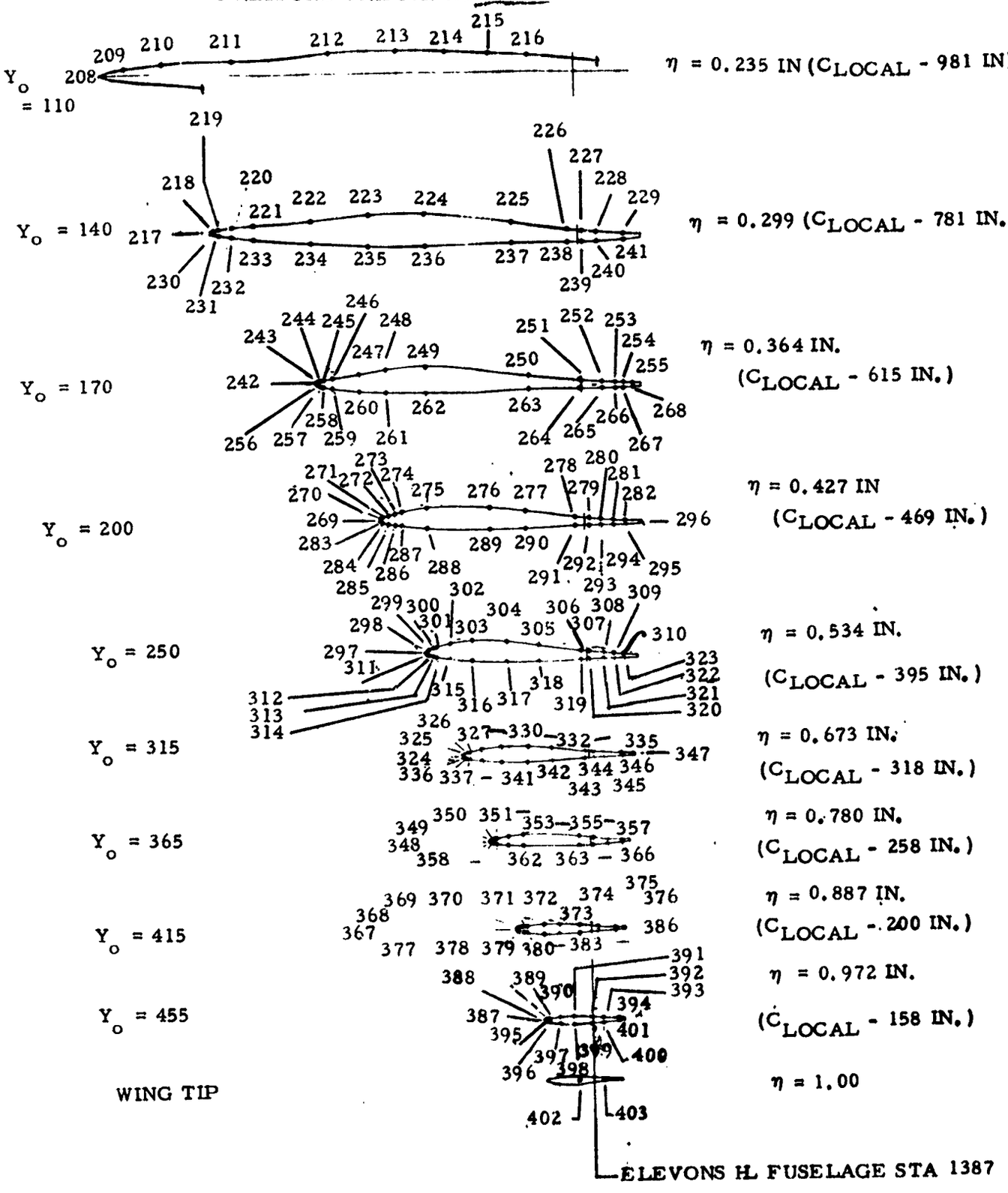


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.



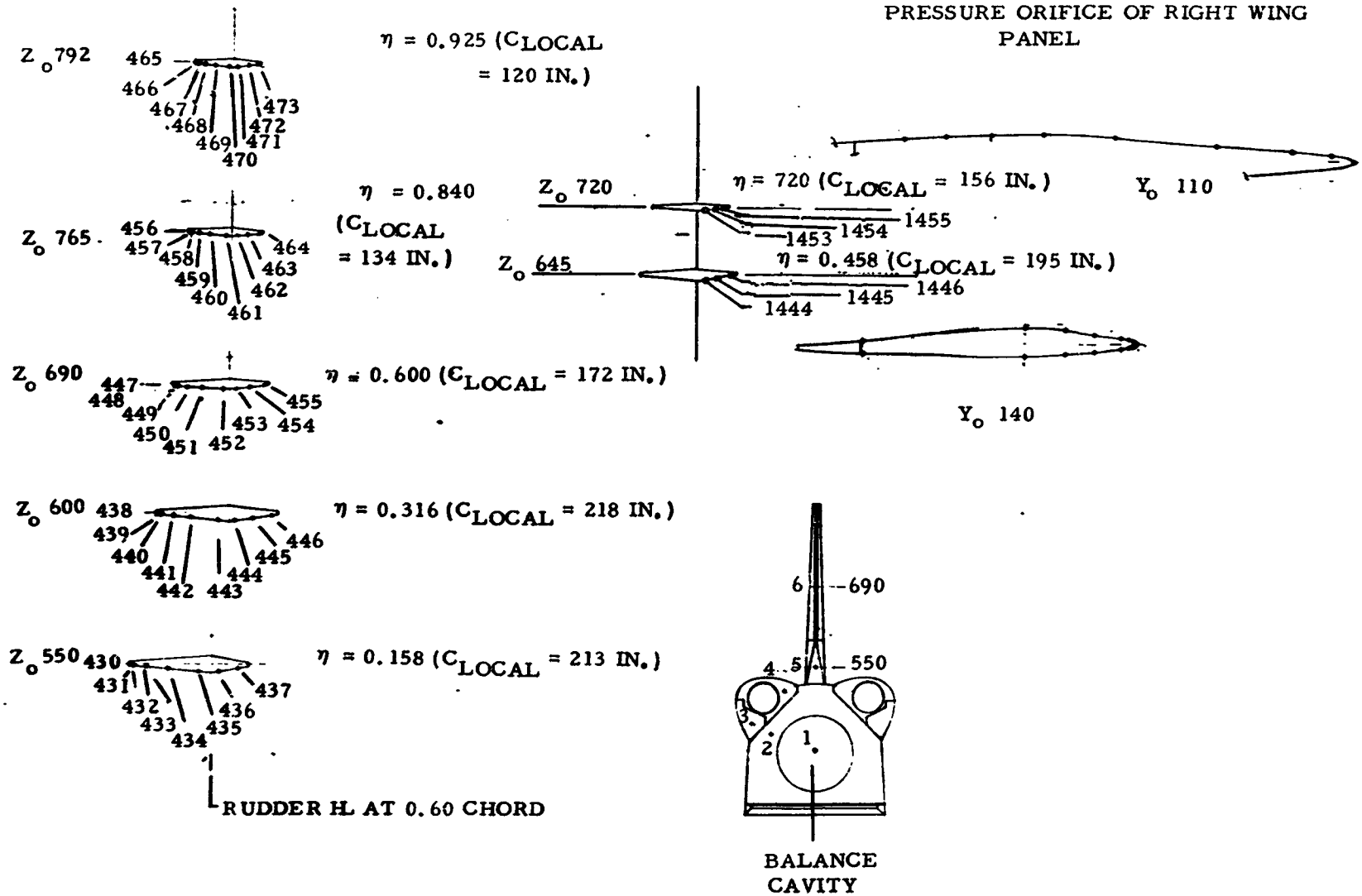
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



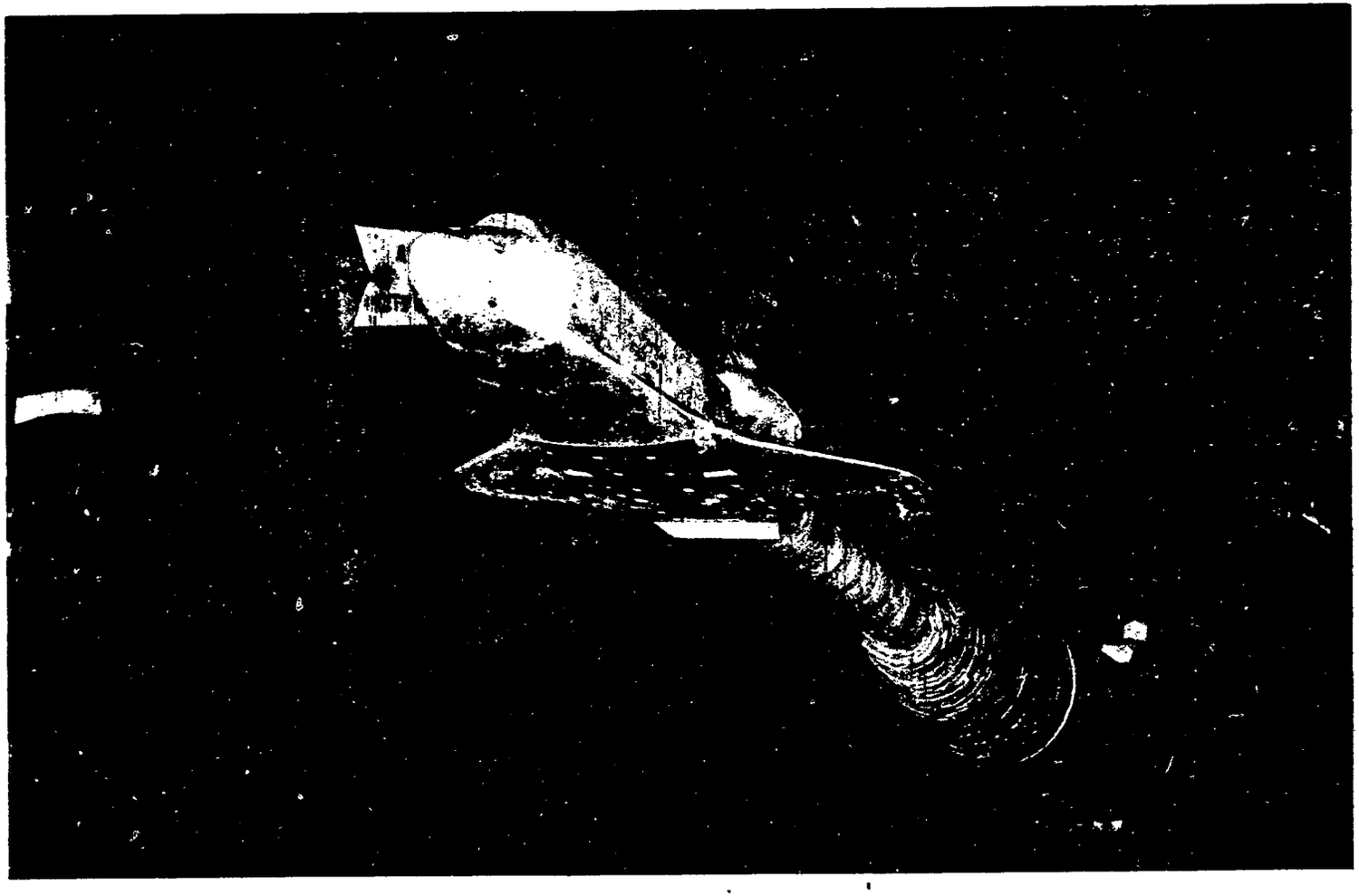
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR



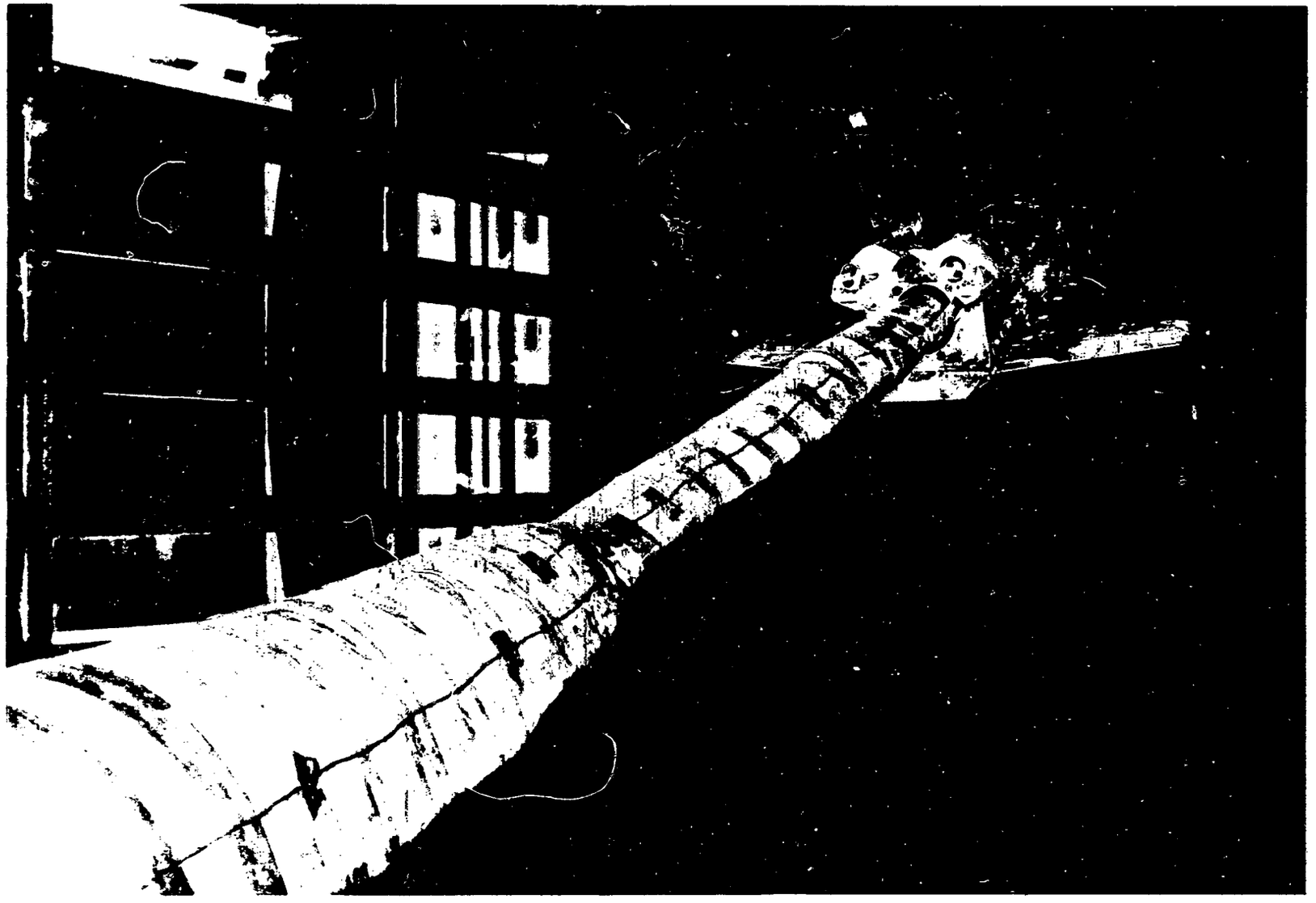
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations

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-O in the ARC 11 x 11 UPWT

Figure 3. - Concluded.

(Reverse of this page is blank.)

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.

PRECEDING PAGE BLANK NOT FILMED

AMES 11-073(OA148) -140A/B/C/R OR9 LEFT WING TOP (XE8U28) (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 = -10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = .000 MACH = 1.400

ALPHA (I) = -3.978 BETA (I) = -3.855 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214

SECTION (I)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1298	-.0936	-.0940	.2971	.7047	.6513	.6118	.6316	-.3184	
.010		-.0284	.0115		.7478	.7350	.6973	.6267		
.020		-.0249		.0000	.6663	.6347	.6110	.5834	.0149	
.040			.0568	.3934						
.041	-.0460									
.050					.4562	.4282	.4102	.4030		
.059									-.0397	
.080					.2729					
.081				.3025						
.086			.1694							
.094		-.0190								
.113	-.0278									
.150					.0476	.0568	.0916	.1188		
.157									-.1748	
.163			.0000							
.177				.1133						
.229		.0608								
.246			.1012							
.247	-.0229									
.260					-.0869	-.0949	-.0876	-.0909		
.274				-.0211						
.345									-.2130	
.362		.1415								
.390			-.0149							
.400					-.2118	-.2564		-.2853		
.402				-.1794						
.418										-.3838
.429	.0581									
.497		.0037								
.503									-.2513	
.547	.0739									
.550					-.2646	-.3017				
.565				-.1752						
.600								-.3561		
.633	-.0321									
.637			-.1480							
.650							-.3579			
.670									-.4790	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (1) = -3.978 BETA (1) = -3.855

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		-.1219				-.3149				
.723										-.2929
.725					-.0552					
.727	-.1065									
.750							-.5045	-.5198		
.760				.0128						
.775					-.2134	-.4032				
.793	.2502									
.798			.0623							
.808				-.1321						
.834		.1189								
.839			-.1588							
.850					-.1367	-.2146	-.4990			
.857				-.1528						
.862									-.4249	
.865		-.2251								
.879			-.1744							
.900		-.1257			-.1570			-.4674		
905				-.1700						
.919			-.1468							
.950					-.1409	-.1391	-.2456			
.953				-.1472						
.955			-.1506							
.965		-.1415								

ALPHA (1) = -3.971 BETA (2) = .185 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1560	-.0693	-.0550	.2595	.6320	.5612	.5209	.5326	-.3847	
.010		-.0485	.0034		.6614	.6468	.6100	.5471		
.020		-.0577		.0000	.5850	.5548	.5314	.5085	-.0680	
.040			.0334	.3175						
.041	-.1075									
.050					.3947	.3639	.3457	.3450		
.069									-.1092	
.080					.2159					
.081				.2423						
.086			.1325							
.094		-.0459								
.113	-.0886									
.150					.0259	.0332	.0616	.0882		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU28)

ALPHA (1) = -3.971 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										
.157										
.163			.0000						-.2467	
.177				.0873						
.229		.0324								
.246			.0646							
.247	-.0505									
.260					-.0946	-.1007	-.1056	-.1108		
.274				-.0259						
.345										
.362		.1183							-.2481	
.380			-.0217							
.400					-.2071	-.2528		-.2899		
.402				-.1807						
.418										
.429	.0300									-.4480
.497		-.0267								
.503										
.547	.0491								-.2749	
.550					-.2512	-.2857				
.565				-.1646						
.600										
.633	-.0576							-.3567		
.637			-.0280							
.650							-.3447			
.670										
.700		-.0705							-.4841	
.725						-.2741				
.745										-.3391
.727	-.0992				-.0085					
.750										
.760							-.4958	-.5289		
.775				.0394						
.793	.2936				-.2175	-.2814				
.798			.0535							
.809				-.1903						
.834		.0889								
.839			-.2045							
.850					-.1523	-.1946	-.4669			
.857				-.1918						
.882										
.885		-.2605							-.4174	
.879			-.2135							
.900		-.1571			-.1727			-.4269		
.906				-.2087						
.919			-.1733							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (1) = -3.971 BETA (2) = .185

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					-.1712	-.1182	-.2364			
.952				-.1809						
.955			-.1700							
.965		-.1731								

ALPHA (1) = -3.978 BETA (3) = 4.270 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1645	-.0787	-.0286	.2522	.5614	.4763	.4369	.4395	-.4299	
.010		-.0860	.0010		.5707	.5508	.5227	.4585		
.020		-.0995		.0000	.5023	.4619	.4516	.4248	-.1393	
.040			.0237	.2622						
.041	-.1614									
.050					.3316	.2951	.2807	.2795		
.069									-.1716	
.080					.1768					
.081				.1955						
.086			.1021							
.094		-.0576								
.113	-.1485									
.150					.0066	.0036	.0298	.0476		
.157									-.2671	
.163			.0000							
.177				.0620						
.229		.0158								
.246			.0468							
.247	-.0658									
.250					-.1040	-.1156	-.1201	-.1347		
.274				-.0311						
.315									-.2792	
.342		.1070								
.390			-.0297							
.400					-.2131	-.2513		-.3030		
.402				-.1835						
.418										-.4808
.429	.0249									
.497		-.0432								
.503									-.2993	
.547	.0363									
.550					-.2454	-.2886				
.565				-.1544						

AMES 11-073(OA148) -140A/B/C/R OR3 LEFT WING TOP (XE8U28)

ALPHA (1) = -3.978 BETA (3) = 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										
.600								-.3704		
.633	-.0847									
.637			.0359							
.650							-.3318			
.670									-.4949	
.700		-.0[illegible]				-.1253				
.723										-.3463
.725					.0247					
.727	-.0951									
.750							-.4897	-.5266		
.760				.0341						
.775					-.2083	-.2556				
.793	.2970									
.798			.0425							
.808				-.2076						
.834		.0748								
.839			-.2221							
.850					-.1739	-.1468	-.3389			
.857				-.2175						
.862									-.2908	
.865		-.2758								
.879			-.2315							
.900		-.1839			-.1983			-.2629		
.905				-.2363						
.919			-.1984							
.950					-.1991	-.1158	-.2199			
.953				-.2113						
.955			-.1880							
.965		-.1910								

ALPHA (2) = -.069 BETA (1) = -3.876 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0379	.0155	.0142	.4060	.7531	.7071	.6739	.6832	-.1548	
.010		.0200	.0359		.6047	.6443	.6000	.5113		
.020		-.0008		.0000	.5004	.5079	.4807	.4566	.0088	
.040			.0535	.2484						
.041	-.0360									
.050					.2867	.2758	.2586	.2583		
.099									-.0601	
.100					.1107					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (2) = -.069 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										
.081				.1250						
.086			.1123							
.094		-.0555								
.113	-.0334									
.150					- 0848	-.0771	-.0399	-.0110		
.157									-.2169	
.163			.0000							
.177				- 0182						
.220		-.0029								
.246			.0018							
.247	-.0560									
.250					-.2237	-.2281	-.2137	-.1984		
.274				-.1464						
.345									-.2749	
.362		.0674								
.390			-.1192							
.400					-.3252	-.3692		-.3777		
.402				-.2731						
.418										-.1794
.429	.0084									
.497		-.0789								
.503									-.3236	
.547	.0086									
.550					-.3569	-.4022				
.565				-.2736						
.600								-.4014		
.633	-.1161									
.637			-.2278							
.650							-.4469			
.671									-.5308	
.700		-.1968				-.4046				
.723										-.2714
.725					-.1792					
.727	-.1698									
.750							-.5435	-.5380		
.760				-.1030						
.775					-.3541	-.5070				
.793	.0299									
.798			-.0565							
.808				-.2175						
.834		.0254								
.839			-.1941							
.850					-.2583	-.3272	-.3888			
.857				-.1872						
.862									-.5167	

AMES 1 073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

-3.876

DEPENDENT VARIABLE CP

'0 .5340 .6730 .7800 .8870 .9720 1.0000

-.2353 -.3907
7

-.1709 -.2541 -.3540
5

.182 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

DEPENDENT VARIABLE CP

) .5340 .6730 .7800 .8870 .9720 1.0000

.6652 .6157 .5830 .5865 -.2079
.4926 .5449 .5077 .4223
.3992 .4123 .3994 .3733 -.0637

.2163 .2042 .1914 .1942
-.1255
.0582

-.1187 -.1110 -.0733 -.0490
-.2637

-.2330 -.2489 -.2383 -.2232
-.3063

-.3124 -.3704 -.3923
-.1980

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (2) = -.045 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										
.497		-.1015								
.503									-.3451	
.547	-.0120									
.550					-.3461	-.3964				
.565				-.2675						
.600								-.4146		
.633	-.1469									
.637			-.2218							
.650							-.4418			
.670									-.5188	
.700		-.1928				-.3808				
.723										-.3541
.725					-.1270					
.727	-.1737									
.750							-.5414	-.4297		
.760				-.0794						
.775					-.3155	-.4409				
.793	.1344									
.798			-.0401							
.806				-.2443						
.834		.0204								
.839			-.2582							
.850					-.2709	-.2664	-.3725			
.857				-.2288						
.862									-.4362	
.865		-.2985								
.879			-.2341							
.900		-.1040			-.2370			-.3710		
.905				-.2252						
.919			-.1866							
.950					-.1979	-.1902	-.3364			
.953				-.1981						
.955			-.1755							
.965		-.1906								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (2) = -.049 BETA (3) = 4.247 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

SECTION : 1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0697	-.1020	-.0854	.2926	.5850	.5309	.4937	.4969	-.2153	
.010		-.1336	-.0582		.3885	.4448	.4096	.3288		
.020		-.1431		.0000	.3168	.3266	.3094	.2893	-.1239	
.040			-.0183	.1177						
.041	-.1345									
.050					.1553	.1372	.1221	.1267		
.069									-.1767	
.080					.0141					
.081				.0367						
.085			.0380							
.094		-.1596								
.113	-.1586									
.150					-.1306	-.1418	-.1114	-.0899		
.157									-.2995	
.163			.0000							
.177				-.0657						
.229		-.0313								
.246			-.0338							
.247	-.1347									
.250					-.2243	-.2662	-.2580	-.2506		
.274				-.1450						
.345									-.3253	
.362		.0434								
.390			-.1237							
.400					-.3066	-.3589		-.4069		
.402				-.2621						
.418										-.1543
.429	-.0137									
.497		-.1081								
.503									-.3516	
.547	-.0200									
.550					-.3395	-.3813				
.565				-.2586						
.600								-.4406		
.633	-.1679									
.637			-.1554							
.650							-.4314			
.670									-.3909	
.700		-.1724				-.3322				
.723										-.4918
.725					-.1147					
.727	-.1689									
.750							-.4589	-.3700		
.752				-.0653						
.775					-.2987	-.3515				

AMES 11-073(OA148) -140A/B/C/R OF3 LEFT WING TOP (XE8U28)

ALPHA (2) = -.049 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	.1683									
.798			-.0346							
.808				-.2583						
.834		.0047								
.839			-.2794							
.850					-.2679	-.2217	-.3582			
.857				-.2609						
.862									-.3546	
.865		-.3150								
.879			-.2685							
.900		-.2098			-.2402			-.3383		
.905				-.2508						
.919			-.2128							
.950					-.2195	-.1534	-.3189			
.953				-.2193						
.955			-.1965							
.965		-.2103								

ALPHA (3) = 3.888 BETA (1) = -3.879 MACH = 1.3920 Q = 599.57 P = 442.06 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	.0509	.0261	-.0401	.3813	.7492	.7385	.7152	.7027	.0727	
.010		-.0193	-.0618		.3806	.5013	.4611	.3506		
.020		-.0375		.0000	.2848	.3275	.3234	.2867	-.0524	
.040			-.0476	.0464						
.041	-.0240									
.050					.0781	.1065	.0976	.0913		
.069									-.1021	
.080					-.0774					
.081				-.0595						
.085			-.0093							
.094		-.0840								
.113	-.0413									
.150					-.2849	-.2349	-.1887	-.1499		
.157									-.2752	
.163			.0000							
.177				-.1899						
.229		-.0848								
.246			-.1253							
.247	-.0842									
.250					-.3532	-.3649	-.3377	-.3070		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (3) = 3.889 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				-.2778						
.345									-.3423	
.362		-.0254								
.390			-.2220							
.400					-.4364	-.4783		-.4572		
.402				-.3606						
.418										-.1327
.423	-.0548									
.497		-.1600								
.503									-.4140	
.547	-.0623									
.550					-.4473	-.5105				
.565				-.3540						
.600								-.4720		
.633	-.2100									
.637			-.3080							
.650							-.4972			
.670									-.5601	
.700		-.2756				-.5053				
.723										-.5331
.725					-.2754					
.727	-.2441									
.750							-.4030	-.4155		
.760				-.1611						
.775					-.4630	-.5256				
.793	-.1668									
.798			-.1526							
.808				-.3290						
.834		-.0656								
.839			-.2903							
.850					-.3349	-.3722	-.4092			
.857				-.2944						
.862									-.5795	
.865		-.3018								
.879			-.2329							
.900		-.1732			-.2683			-.4085		
.905				-.2537						
.919			-.1899							
.950					-.1998	-.3429	-.4065			
.953				-.2120						
.955			-.1757							
.965		-.1773								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (3) = 3.892 BETA (2) = .179 MACH = 1.3920 Q = 599.57 P = 442.06 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	.0193	-.0785	-.2031	.2581	.6455	.6383	.6222	.6011	.0185	
.010		-.1305	-.1964		.2637	.3813	.3549	.2509		
.020		-.1343		.0000	.1801	.2336	.2307	.1926	-.1196	
.040			-.1487	-.0196						
.041	-.0727									
.050					.0082	.0296	.0250	.0167		
.059									-.1611	
.080					-.1314					
.081				-.1084						
.086			-.0683							
.094		-.1469								
.113	-.0999									
.150					-.3159	-.2741	-.2312	-.1940		
.157									-.3158	
.163			.0000							
.177				-.2055						
.229		-.1213								
.246			-.1425							
.247	-.1155									
.250					-.3619	-.3882	-.3662	-.3375		
.274				-.2785						
.345									-.3747	
.362		-.0344								
.390			-.2189							
.400					-.4272	-.4869		-.4749		
.402				-.3498						
.418										-.2533
.429	-.0682									
.497		-.1753								
.503									-.4103	
.547	-.0791									
.550					-.4162	-.5013				
.565				-.3422						
.600								-.4870		
.633	-.2332									
.637			-.3017							
.650							-.5103			
.670									-.5896	
.700		-.2752				-.4843				
.723										-.6083
.725					-.2207					
.727	-.2450									
.750							-.4295	-.4290		
.760				-.1424						
.775					-.4068	-.4992				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (3) = 3.892 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										
.793	-.0023									
.798			-.1209							
.808				-.3177						
.834		-.0238								
.839			-.2981							
.850					-.3562	-.3174	-.4250			
.857				-.3185						
.862									-.6074	
.865		-.3223								
.873			-.2851							
.900		-.2226			-.3235			-.4245		
.905				-.2936						
.919			-.2231							
.950					-.2323	-.2225	-.4111			
.953				-.2421						
.955			-.2011							
.965		-.2149								

ALPHA (3) = 3.896 BETA (3) = 4.241 MACH = 1.3920 Q = 599.57 P = 442.06 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	-.0115	-.2195	-.4161	.1316	.5375	.5385	.5260	.5105	-.0587	
.010		-.2746	-.3657		.1454	.2665	.2376	.1439		
.020		-.2528		.0000	.0672	.1308	.1280	.0959	-.1961	
.040			-.2236	-.0860						
.041	-.1164									
.050					-.0672	-.0459	-.0534	-.0622		
.069									-.2276	
.080					-.1800					
.081				-.1500						
.086			-.1191							
.094		-.2088								
.113	-.1566									
.150					-.3201	-.3085	-.2707	-.2449		
.157									-.3568	
.163			.0000							
.177				-.2009						
.229		-.1272								
.246			-.1341							
.247	-.1599									
.250					-.3540	-.4095	-.3924	-.3690		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (3) = 3.896 BETA (3) = 4.241

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				-.2590						
.345									-.4105	
.362		-.0303								
.390			-.2077							
.400					-.3945	-.4817		-.4930		
.402				-.3328						
.418										-.4146
.429	-.0673									
.497		-.1774								
.503									-.4419	
.547	-.0784									
.550					-.4045	-.4833				
.565				-.3321						
.600								-.5012		
.633	-.2432									
.637			-.2960							
.650							-.5172			
.670									-.5562	
.700		-.2739				-.4074				
.723										-.5808
.725					-.2023					
.727	-.2407									
.750							-.5061	-.4419		
.760				-.1292						
.775					-.3786	-.3795				
.793	.1036									
.798			-.0832							
.808				-.3156						
.834		-.0279								
.840			-.3192							
.850					-.3497	-.2297	-.4407			
.857				-.3266						
.862									-.5521	
.865		-.3545								
.879			-.3194							
.900		-.2370			-.2997			-.4149		
.905				-.3055						
.919			-.2285							
.950					-.2262	-.2025	-.3845			
.953				-.2562						
.955			-.2207							
.965		-.2812								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (4) = 7.940 BETA (1) = -3.870 MACH = 1.3916 Q = 599.57 P = 442.30 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	.0946	-.0672	-.2197	.2651	.6882	.7121	.7011	.6708	.0168	
.010		-.1501	-.2452		.1507	.3021	.2645	.1356		
.020		-.1374		.0000	.0433	.1327	.1312	.0724	-.2337	
.040			-.1790	-.1554						
.041	-.0190									
.050					-.1253	-.0775	-.0794	-.1059		
.059									-.2597	
.060					-.2545					
.001				-.2585						
.085			-.1259							
.094		-.1175								
.113	-.0353									
.150					-.4259	-.3686	-.3340	-.2993		
.157									-.3988	
.163			.0000							
.177				-.3882						
.209		-.1225								
.246			-.2717							
.247	-.0598									
.250					-.5155	-.4805	-.4504	-.4188		
.274				-.4281						
.345									-.4901	
.362		-.1182								
.390			-.3287							
.400					-.5748	-.5708		-.5323		
.402				-.4474						
.418										-.4001
.429	-.1106									
.497		-.2591								
.503									-.5185	
.547	-.1635									
.550					-.5667	-.5988				
.565				-.4220						
.600								-.5293		
.633	-.3054									
.637			-.3974							
.650							-.5612			
.670									-.5672	
.700		-.3642				-.5706				
.723										-.5756
.725					-.4000					
.727	-.3150									
.750							-.4765	-.4637		
.760				-.2528						
.775					-.5406	-.4254				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU22)

ALPHA (4) = 7.940 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	-.2846									
.798			-.1906							
.808				-.4137						
.834		-.1367								
.839			-.3842							
.850					-.3218	-.4207	-.4720			
.857				-.4008						
.862									-.5426	
.865		-.3401								
.879			-.3282							
.900		-.2156			-.2636			-.4836		
.905				-.3098						
.919			-.2505							
.950					-.2386	-.3615	-.4558			
.953				-.2447						
.955			-.2250							
.965		-.2129								

ALPHA (4) = 7.946 BETA (2) = .176 MACH = 1.3916 Q = 599.57 P = 442.30 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	.0327	-.2256	-.4384	.0531	.5370	.5775	.5812	.5451	-.1468	
.010		-.3033	-.4006		-.0115	.1446	.1192	.0031		
.020		-.2783		.0000	-.1137	-.0034	.0061	-.0513	-.3548	
.040			-.3209	-.2961						
.041	-.0665									
.050					-.2555	-.1891	-.1778	-.2044		
.069									-.3614	
.080					-.3560					
.081				-.3483						
.086			-.2309							
.094		-.1859								
.113	-.1005									
.150					-.4881	-.4260	-.3910	-.3601		
.157									-.4577	
.163			.0000							
.177				-.4446						
.229		-.1830								
.245			-.2795							
.247	-.1211									
.250					-.5414	-.5159	-.4885	-.4594		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (4) = 7.946 BETA (2) = .176

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3700						
.345									-.5254	
.362		-.1554								
.390			-.3077							
.400					-.5512	-.5871		-.5567		
.402				-.4111						
.418										-.5438
.469	-.1718									
.497		-.2705								
.503									-.5578	
.547	-.1606									
.550					-.4779	-.5937				
.565				-.4019						
.600								-.5259		
.633	-.3116									
.637			-.3956							
.650							-.5524			
.670									-.5308	
.700		-.3544				-.5292				
.723										-.4979
.725					-.2716					
.727	-.3042									
.750							-.4539	-.4611		
.760				-.1916						
.775					-.4331	-.4819				
.793	-.1275									
.795			-.1732							
.809				-.3950						
.834		-.0481								
.849			-.3554							
.850					-.4041	-.4577	-.4743			
.867				-.3960						
.882									-.5346	
.885		-.3425								
.879			-.3427							
.900		-.2296			-.3465			-.4971		
.905				-.3756						
.919			-.2741							
.930					-.2446	-.3605	-.4686			
.934				-.3332						
.945			-.2467							
.960		-.2874								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBL28)

ALPHA (4) = 7.949 BETA (3) = 4.238 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.5184

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0207	-.4110	-.4186	-.1553	.3618	.4384	.4460	.4052	-.3228	
.010		-.3957	-.4122		-.1820	.0043	-.0242	-.1190		
.020		-.3948		.0000	-.2702	-.1223	-.1195	-.1666	-.4667	
.040			-.3994	-.3276						
.041	-.1165									
.050					-.3876	-.2785	-.2690	-.3001		
.059									-.4971	
.080					-.4602					
.081				-.3118						
.096			-.3767							
.104		-.3936								
.113	-.1587									
.140					-.5122	-.4749	-.4424	-.4197		
.157									-.5240	
.163			.0000							
.177				-.3222						
.229		-.2120								
.246			-.4417							
.247	-.1788									
.250					-.4795	-.5454	-.5239	-.4997		
.274				-.3399						
.345									-.5390	
.362		-.1166								
.390			-.2869							
.400					-.4526	-.6013		-.5812		
.402				-.3880						
.418										-.5385
.429	-.1662									
.497		-.2444								
.503									-.5432	
.547	-.1445									
.550					-.4455	-.5887				
.585				-.4095						
.600								-.5570		
.633	-.3039									
.637			-.3764							
.650							-.5717			
.670									-.5091	
.700		-.3296				-.4948				
.723										-.4907
.725					-.2576					
.727	-.2994									
.750							-.4952	-.4656		
.760				-.1468						
.775					-.4427	-.4990				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (4) = 7.949 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	.0223									
.798			-.1426							
.808				-.3798						
.834		-.1079								
.839			-.3802							
.850					-.4128	-.3097	-.4919			
.857				-.3915						
.862									-.4956	
.865		-.3739								
.879			-.3149							
.900		-.2823			-.3843			-.4678		
.905				-.3738						
.919			-.2539							
.950					-.2859	-.2645	-.4364			
.953				-.3395						
.955			- 2937							
.965		-.3714								

ALPHA (5) = 11.863 BETA (1) = -3.856 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.030	.0198	-.2424	-.3760	.1042	.5979	.6410	.6327	.5737	-.1845	
.010		-.2856	-.3368		-.0345	.1182	.0559	-.0811		
.020		-.2805		.0000	-.1424	-.0354	-.0626	-.1332	-.4937	
.040			-.2761	-.3272						
.041	-.0154									
.050					-.2913	-.2245	-.2355	-.2813		
.069									-.4932	
.080					-.3921					
.081				-.3876						
.086			-.2085							
.094		-.1999								
.113	-.0407									
.150					-.5183	-.4657	-.4349	-.4234		
.157									-.5547	
.163			.0000							
.177				-.4776						
.229		-.1692								
.245			-.2930							
.247	-.0596									
.260					-.5822	-.5529	-.5283	-.5039		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU28)

ALPHA (5) = 11.863 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				-.4743						
.345									-.6015	
.362		-.1518								
.390			-.3760							
.400					-.5914	-.5501		-.5703		
.402				-.4981						
.418										-.5520
.429	-.1326									
.497		-.3607								
.503									-.5980	
.547	-.2008									
.550					-.5559	-.5577				
.565				-.4981						
.600								-.5508		
.633	-.4023									
.637			-.4822							
.650							-.5583			
.670									-.5668	
.700		-.4689				-.5213				
.723										-.5220
.725					-.5102					
.727	-.4092									
.750							-.4836	-.5050		
.760				-.3175						
.775					-.4844	-.4636				
.793	-.3815									
.798			-.2321							
.808				-.4899						
.834		-.2070								
.839			-.4400							
.850					-.4383	-.4454	-.4945			
.857				-.4486						
.862									-.5509	
.865		-.3872								
.879			-.3461							
.900		-.2214			-.4137			-.5488		
.905				-.3366						
.919			-.3225							
.950					-.3711	-.3918	-.4708			
.953				-.2896						
.955			-.3274							
.965		-.3601								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (5) = 11.873 BETA (2) = .179 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

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	-.0614	-.3651	-.3698	-.0996	.4241	.4818	.4782	.4170	-.3518	
.010		-.3165	-.3610		-.1869	-.0317	-.0911	-.2051		
.020		-.3089		.0000	-.2806	-.1722	-.1956	-.2587	-.5921	
.040			-.3461	-.3773						
.041	-.0857									
.050					-.4039	-.3302	-.3394	-.3773		
.059									-.5829	
.080					-.4819					
.081				-.4153						
.086			-.3201							
.094		-.3547								
.113	-.1259									
.150					-.5789	-.5266	-.4978	-.4869		
.157									-.5923	
.163			.0000							
.177				-.4355						
.229		-.4227								
.246			-.3907							
.247	-.1115									
.250					-.6258	-.5953	-.5723	-.5513		
.274				-.4666						
.345									-.5999	
.362		-.2914								
.390			-.4101							
.400					-.6175	-.6114		-.5906		
.402				-.5004						
.418										-.6203
.479	-.1955									
.497		-.4130								
.503									-.5862	
.547	-.2723									
.550					-.6113	-.6208				
.565				-.4886						
.600								-.5790		
.633	-.4156									
.637			-.4932							
.650							-.5813			
.670									-.5565	
.700		-.4298				-.5741				
.723										-.5157
.725					-.5245					
.727	-.3959									
.750							-.5203	-.5074		
.760				-.2497						
.775					-.5721	-.5311				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (5) = 11.873 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										
.793	-.1925									
.798			-.1947							
.808				-.4534						
.834		-.1682								
.839			-.4309							
.850					-.5382	-.4633	-.5295			
.857				-.4528						
.862									-.5531	
.865		-.3696								
.879			-.3650							
.900		-.3044			-.3715			-.5544		
.905				-.4178						
.919			-.3211							
.950					-.2307	-.3967	-.4647			
.953				-.3928						
.955			-.3591							
.965		-.3949								

ALPHA (5) = 11.870 BETA (3) = 4.256 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

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	-.1523	-.3920	-.4120	-.3050	.2450	.3056	.3055	.2398	-.4717	
.010		-.3847	-.4087		-.3245	-.1784	-.2258	-.3401		
.020		-.3849		.0000	-.4002	-.3047	-.3238	-.3793	-.5789	
.040			-.4167	-.3942						
.041	-.1788									
.050					-.4961	-.4289	-.4373	-.4727		
.069									-.5755	
.080					-.5563					
.081				-.4192						
.086			-.3877							
.094		-.4409								
.113	-.1649									
.150					-.5870	-.5826	-.5554	-.5529		
.157									-.5741	
.163			.0000							
.177				-.4268						
.229		-.5384								
.246			-.4275							
.247	-.1975									
.250					-.5842	-.6340	-.6124	-.5993		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (α) = 11.870 BETA (β) = 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				-.4155						
.345									-.5807	
.362		-.3915								
.390			-.4127							
.400					-.6098	-.6262		-.5945		
.402				-.4660						
.418										-.5809
.429	-.2759									
.497		-.3750								
.503									-.5942	
.547	-.2405									
.550					-.5468	-.6226				
.565				-.4846						
.600								-.5630		
.633	-.3848									
.637			-.4663							
.650							-.6020			
.670									-.5330	
.700		-.3705				-.5760				
.723										-.5259
.725					-.2667					
.727	-.3687									
.750							-.5679	-.5449		
.760				-.2535						
.775					-.4606	-.5150				
.793	-.0479									
.798			-.2032							
.808				-.4593						
.834		-.1730								
.839			-.4426							
.850					-.4575	-.4291	-.5114			
.857				-.4664						
.862									-.5254	
.865		-.3925								
.879			-.3510							
.900		-.3437			-.4530			-.5129		
.905				-.4145						
.919			-.3383							
.950					-.2970	-.3047	-.4882			
.953				-.3793						
.955			-.3739							
.955		-.4475								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U28)

ALPHA (6) = 15.854 BETA (1) = -3.831 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0350	-.3305	-.3074	-.0247	.4821	.5224	.5076	.4158	-.3518	
.010		-.2905	-.2918		-.1927	-.0571	-.1348	-.2837		
.020		-.2818		.0000	-.2895	-.2066	-.2481	-.3306	-.6216	
.040			-.2757	-.3449						
.041	-.1621									
.050					-.4131	-.3578	-.3842	-.4356		
.069									-.6206	
.080					-.4921					
.081				-.3718						
.086			-.2530							
.094		-.2974								
.113	-.0461									
.150					-.5896	-.5458	-.5256	-.5331		
.157									-.6093	
.163			.0000							
.177				-.3935						
.229		-.3700								
.246			-.3682							
.247	-.0841									
.250					-.5982	-.6114	-.5931	-.5839		
.274				-.4407						
.345									-.6254	
.362		-.3825								
.390			-.4058							
.400					-.5960	-.6012		-.6201		
.402				-.5113						
.418										-.6153
.429	-.1638									
.497		-.4856								
.503									-.6216	
.547	-.2593									
.550					-.6038	-.6057				
.565				-.5349						
.600								-.5925		
.633	-.4800									
.637			-.5291							
.650							-.6101			
.670									-.5700	
.700		-.5218				-.5946				
.723										-.5481
.745					-.5605					
.747	-.5328									
.750							-.5550	-.6014		
.760				-.3569						
.775					-.5406	-.5269				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (6) = 15.854 BETA (1) = -3.831

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	-.4104									
.798			-.3255	-						
.808				-.4740						
.834		-.2645								
.839			-.4750							
.850					-.5243	-.5229	-.5640			
.857				-.4642						
.862									-.5823	
.865		-.3525								
.879			-.4200							
.900		-.3338			-.4938			-.6036		
.905				-.4648						
.919			-.3900							
.950					-.4010	-.4285	-.5339			
.953				-.4056						
.965			-.4297							
.955		-.5219								

ALPHA (6) = 15.868 BETA (2) = .178 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9206

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1415	-.3753	-.3657	-.2458	.3044	.3460	.3305	.2326	-.4635	
.010		-.3689	-.3624		-.3302	-.2019	-.2645	-.3846		
.020		-.3706		.0000	-.4064	-.3300	-.3626	-.4295	-.6033	
.040			-.3636	-.3698						
.041	-.3205									
.050					-.5030	-.4505	-.4726	-.5166		
.069									-.6016	
.080					-.5631					
.081				-.4140						
.086			-.3331							
.094		-.3912								
.113	-.1316									
.150					-.6154	-.5968	-.5812	-.5884		
.157									-.6042	
.163			.0000							
.177				-.4617						
.229		-.4359								
.245			-.4478							
.247	- 1876									
.250					-.6268	-.6434	-.6176	-.6197		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (6) = 15.868 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				-.5004						
.345									-.6184	
.362		-.4768								
.390			-.4667							
.400					-.6291	-.6252		-.6128		
.402				-.5459						
.418										-.6382
.429	-.2640									
.497		-.5342								
.503									-.6354	
.547	-.3524									
.550					-.6249	-.6288				
.565				- 5365						
.600								-.5875		
.633	-.5070									
.637			-.5245							
.650							-.6025			
.670									-.5595	
.700		-.5033				-.6120				
.723										-.5481
.725					-.5910					
.727	-.5163									
.750							-.5590	-.5681		
.760				-.3632						
.775					-.5844	-.5593				
.793	-.3103									
.798			-.2555							
.808				-.4964						
.834		-.2027								
.839			-.4567							
.850					-.5340	-.5333	-.5751			
.857				-.5010						
.862									-.5758	
.868		-.3540								
.879			-.3835							
.900		-.3462			-.5136			-.5875		
.905				-.4822						
.919			-.4029							
.950					-.4003	-.4810	-.4868			
.953				-.5026						
.955			-.4485							
.965		-.4792								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (6) = 15.959 BETA (3) = 4.283 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9205

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2393	-.4216	-.4443	-.4167	.1222	.1726	.1552	.0675	-.5385	
.010		-.4242	-.4440		-.4391	-.3240	-.3799	-.4937		
.020		-.4270		.0000	-.5052	-.4364	-.4625	-.5247	-.5719	
.040			-.4431	-.4146						
.041	-.4369									
.050					-.5742	-.5299	-.5470	-.5853		
.069									-.5719	
.080					-.6161					
.081				-.4351						
.085			-.4043							
.094		-.4554								
.113	-.2241									
.150					-.6216	-.6364	-.6252	-.6080		
.157									-.5747	
.163			.0000							
.177				-.5025						
.209		-.4907								
.246			-.5113							
.247	-.2710									
.250					-.6336	-.6352	-.6190	-.5974		
.274				-.5055						
.345									-.5832	
.362		-.5281								
.390			-.4730							
.400					-.6429	-.6298		-.5865		
.402				-.5077						
.418										-.5813
.429	-.3462									
.497		-.5117								
.503									-.5887	
.547	-.3782									
.550					-.6360	-.6291				
.565				-.5247						
.600								-.5607		
.633	-.4615									
.637			-.4557							
.650							-.6031			
.670									-.5302	
.700		-.4270				-.5813				
.723										-.5248
.725					-.4619					
.727	-.4291									
.750							-.5688	-.5327		
.700				-.3425						
.775					-.5541	-.5746				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U28)

ALPHA (6) = 15.859 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										
.793	-.2188									
.798			-.2480							
.808				-.5214						
.834		-.1994								
.839			-.4841							
.850					-.5607	-.5103	-.5477			
.857				-.4862						
.862									-.5278	
.865		-.3624								
.879			-.3894							
.900		-.3830			-.5500			-.5247		
.905				-.4699						
.919			-.3922							
.950					-.4402	-.4530	-.5310			
.953				-.4893						
.955			-.4305							
.965		-.4796								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29) (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 = -10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = .000 MACH = 1.250

ALPHA (1) = -3.996 BETA (1) = -3.845 MACH = 1.2451 Q = 599.58 P = 552.51 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	-.1958	-.0836	-.1143	.2721	.6632	.5984	.5614	.5812	-.4358	
.010		-.0325	-.0086		.7242	.7059	.6691	.5953		
.020		-.0369		.0000	.6455	.6037	.5811	.5521	-.0493	
.040			.0432	.4140						
.041	-.1005									
.060					.4409	.3936	.3783	.3683		
.079									-.1089	
.080					.2513					
.081				.3016						
.086			.1643							
.094		-.0046								
.113	-.0563									
.150					.0156	.0169	.0413	.0491		
.157									-.2496	
.163			.0000							
.177				.1011						
.229		0536								
.246			.0995							
.247	-.0043									
.250					-.1261	-.1366	-.1310	-.1521		
.274				-.0408						
.345									-.2951	
.362		.1555								
.393			-.0130							
.400					-.2635	-.3098		-.3803		
.402				-.1995						
.418										-.5038
.429	.0489									
.497		.0162								
.523									-.3369	
.547	.0742									
.550					-.1909	-.3581				
.595				.0050						
.600								-.4380		
.633	-.0471									
.637			.1465							
.650							-.4265			
.678									-.5924	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU29)

ALPHA (1) = -3.996 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		.1243				-.1132				
.723										-.3839
.725					.0683					
.727	-.0596									
.750							-.6038	-.6333		
.760				.0511						
.775					-.2549	-.2942				
.793	.3468									
.798			.0546							
.809				-.2640						
.934		.0898								
.839			-.2777							
.850					-.2452	-.2123	-.3728			
.857				-.2742						
.862									-.5250	
.865		-.3271								
.879			-.2571							
.900		-.1649			-.2788			-.3245		
.905				-.2748						
.919			-.2294							
.950					-.2540	-.1820	-.1470			
.953				-.2305						
.955			-.2259							
.965		-.2245								

ALPHA (1) = -3.967 BETA (2) = .186 MACH = 1.2451 Q = 599.58 P = 552.51 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	-.2174	-.0789	-.0697	.2377	.5951	.5106	.4642	.4798	-.5111	
.010		-.0663	-.0133		.6468	.6220	.5809	.5186		
.020		-.0784		.0000	.5755	.5284	.5053	.4791	-.1316	
.040			.0302	.3507						
.041	-.1723									
.050					.3920	.3408	.3181	.3140		
.069									-.1741	
.080					.2191					
.081				.2497						
.086			.1304							
.094		-.0250								
.113	-.1194									
.150					.0083	-.0065	.0197	.0299		

AMES 11-073(CA148) -140A B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (1) = -3.957 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										
.157									-.3065	
.163			.0000							
.177				.0889						
.229		.0284								
.246			.0729							
.247	-.0244									
.250					-.1231	-.1530	-.1488	-.1725		
.274				-.0389						
.345									-.3294	
.352		.1322								
.380			-.0236							
.400					-.2486	-.3014		-.3889		
.402				-.1912						
.416										-.5790
.443	.0332									
.447		-.0073								
.503									-.3599	
.547	.0570									
.550					.0101	-.3340				
.585				.1207						
.600								-.4348		
.633	-.0547									
.647			.1958							
.650							-.3624			
.672									-.5948	
.700		.1889				-.0280				
.723										-.4319
.725					.0807					
.727	.0970									
.750							-.3903	-.6369		
.760				.0335						
.775					-.2691	-.2915				
.793	.3390									
.798			.0325							
.806				-.2947						
.834		.0584								
.839			-.3056							
.850					-.2776	-.2095	-.3175			
.857				-.3038						
.882									-.2750	
.885		-.3521								
.891			-.2930							
.902		-.2.64			- 3028			-.2991		
.918				-.3072						
.9 9			-.3544							

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU29)

ALPHA (1) = -3.967 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										
.950					-.2899	-.2152	-.2019			
.953				-.2637						
.956			-.2461							
.955		-.2530								

ALPHA (1) = -3.974 BETA (3) = 4.269 MACH = 1.2451 Q = 599.58 P = 552.51 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	-.2013	-.0987	-.0385	.2566	.5315	.4331	.3797	.3901	-.5687	
.010		-.1095	-.0059		.5509	.5309	.4964	.4383		
.020		-.1244		.0000	.5023	.4532	.4259	.4024	-.2130	
.040			.0276	.3064						
.041	-.2143									
.060					.3370	.2768	.2561	.2504		
.069									-.2442	
.080					.1783					
.081				.2108						
.086			.1159							
.094		-.0396								
.113	-.1694									
.150					-.0090	-.0339	.0048	-.0020		
.157									-.3595	
.163			.0000							
.177				.0723						
.229		.0148								
.246			.0715							
.247	-.0237									
.260					-.1308	-.1708	-.1854	-.2031		
.274				-.0479						
.345									-.3676	
.362		.1406								
.390			-.0375							
.400					-.2473	-.2969		-.3956		
.402				-.1909						
.418										-.6185
.429	.0399									
.437		-.0295								
.503									-.3335	
.547	.0472									
.550					.0755	-.0616				
.565				.1627						

0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (1) = -3.974 BETA (3) =

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								-.4244		
.633	-.0705									
.637			.2099							
.650							-.0950			
.670									-.3374	
.700		.2042				.0240				
.723										-.3273
.725					.0744					
.727	.1332									
.750							-.3482	-.4207		
.760				.0159						
.775					-.2881	-.3023				
.793	.3349									
.798			.0123							
.808				-.3155						
.834		.0396								
.839			-.3259							
.850					-.3028	-.2217	-.3281			
.857				-.3276						
.862									-.2383	
.865		-.3691								
.879			-.3151							
.900		-.2400			-.3262			-.2035		
.905				-.3339						
.919			-.2752							
.950					-.3181	-.2465	-.2319			
.953				-.2888						
.955			-.2608							
.965		-.2633								

ALPHA (2) = -.035 BETA (1) = -3.871 MACH = .2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0888	.0096	.0052	.4152	.7165	.6625	.6324	.6432	-.2568	
.010		-.0019	.0312		.5773	.6074	.5695	.4740		
.020		-.0284		.0000	.4709	.4624	.4481	.4211	-.0568	
.040			.0539	.2558						
.041	-.0826									
.050					.2408	.2148	.2099	.2070		
.069									-.1330	
.080					.0482					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (2) = -.035 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										
.081				.1247						
.086			.1143							
.094		-.0870								
.113	-.0609									
.150					-.1555	-.1443	-.1175	-.1024		
.157									-.3119	
.163			.0000							
.177				-.0692						
.229		-.0036								
.245			-.0211							
.247	-.0779									
.250					-.2666	-.3134	-.3055	-.2962		
.274				-.1843						
.345									-.3736	
.362		.0827								
.390			-.1466							
.400					-.3730	-.4416		-.4892		
.402				-.3247						
.418										-.2583
.429	.0078									
.497		-.0899								
.503									-.4308	
.547	.0005									
.550					-.3924	-.4775				
.565				-.3001						
.600								-.5076		
.633	-.1407									
.637			-.1697							
.650							-.5225			
.670									-.4290	
.700		-.2035				-.3957				
.723										-.3545
.725					-.1035					
.727	-.2097									
.750							-.4955	-.4217		
.760				-.0315						
.775					-.3181	-.3938				
.793	.1814									
.798			-.0133							
.808				-.2579						
.834		.0389								
.839			-.2864							
.850					-.2709	-.2430	-.4207			
.857				-.2717						
.862									-.3772	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (2) = -.035 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										
.865		-.3491								
.879			-.2617							
.900		-.1986			-.2867			-.3838		
.905				-.2710						
.919			-.2232							
.950					-.2288	-.1994	-.3576			
.953				-.2382						
.955			-.2178							
.965		-.2353								

ALPHA (2) = -.027 BETA (2) = .182 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1070	-.0585	-.0234	.3679	.6409	.5789	.5452	.5466	-.3080	
.010		-.0905	-.0027		.4896	.5170	.4805	.3929		
.020		-.1143		.0000	.3929	.3827	.3682	.3395	-.1302	
.040			.0148	.1805						
.041	-.1497									
.050					.1842	.1539	.1501	.1450		
.059									-.1976	
.080					.0106					
.081				.0738						
.086			.0719							
.094		-.1330								
.113	-.1358									
.150					-.1695	-.1751	-.1530	-.1340		
.157									-.3549	
.163			.0000							
.177				-.0739						
.229		-.0193								
.246			-.0374							
.247	-.1169									
.250					-.2705	-.3176	-.3217	-.3186		
.274				-.1761						
.345									-.3953	
.362		.0667								
.390			-.1495							
.400					-.3657	-.4398		-.4994		
.402				-.3203						
.418										-.1779
.429	-.0082									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (2) = -.027 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										
.497		-.1089								
.503									-.4298	
.547	-.0179									
.550					-.3707	-.4589				
.565				-.2285						
.600								-.5139		
.633	-.1528									
.637			-.0301							
.650							-.5306			
.670									-.4007	
.700		-.0777				-.2195				
.723										-.4958
.725					-.0769					
.727	-.1886									
.750							-.5625	-.4181		
.760				-.0416						
.775					-.3101	-.3700				
.793	.2094									
.798			-.0282							
.808				-.3021						
.834		-.0018								
.839			-.3319							
.850					-.2849	-.2391	-.4028			
.857				-.3157						
.862									-.3773	
.865		-.3833								
.879			-.2904							
.900		-.2396			-.3129			-.3751		
.905				-.3049						
.919			-.2529							
.950					-.2926	-.2282	-.3023			
.953				-.2630						
.955			-.2425							
.965		-.2600								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (2) = -.032 BETA (3) = 4.246 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1151	-.1556	-.0779	.3273	742	.5020	.4630	.4633	-.2249	
.010		-.1916	-.0483		010	.4276	.3864	.3073		
.020		-.1989			.154	.2995	.2802	.2554	-.1767	
.040			-.0139							
.041	-.1959									
.050					.1294	.0973	.0851	.0763		
.069									-.2353	
.080					-.0232					
.081				.0487						
.085			.0458							
.094		-.1507								
.113	-.1898									
.150					-.1805	-.2091	-.1919	-.1743		
.157									-.3823	
.163			.0000							
.177				-.0678						
.229		-.0320								
.246			-.0347							
.247	-.1224									
.250					-.2738	-.3251	-.3376	-.3451		
.274				-.1726						
.345									-.4055	
.362		.0647								
.390			-.1465							
.400					-.3564	-.4339		-.5091		
.402				-.3137						
.418										-.2030
.429	.0009									
.497		-.1183								
.503									-.4363	
.547	-.0196									
.550					-.2453	-.4452				
.565				-.0832						
.600								-.5289		
.633	-.1732									
.637			.0154							
.650							-.5152			
.670									-.4292	
.700		.0028				-.1859				
.723										-.5343
.725					-.0390					
.727	-.1162									
.750							-.5561	-.4200		
.760				-.0433						
.775					-.3149	-.3400				

AMES 11-073:OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (2) = -.032 BETA (3) = 4.246

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	.2155									
.798			-.0410							
.808				-.3319						
.834		-.0209								
.839			-.3540							
.850					-.3085	-.2221	-.3234			
.857				-.3479						
.862								-.4067		
.855		-.4043								
.879			-.3183							
.900		-.2653			-.3368			-.3680		
.905				-.3348						
.919			-.2770							
.950					-.3297	-.2620	-.2111			
.953				-.2884						
.955			-.2704							
.965		-.2842								

ALPHA (3) = 3.922 BETA (1) = -3.869 MACH = 1.2454 Q = 599.82 P = 552.51 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	-.0016	-.0046	-.1090	.4021	.7286	.7043	.6826	.6662	.0447	
.010		-.0582	-.1225		.3461	.3448	.4073	.2788		
.020		-.0795		.0000	.2338	.2678	.2568	.2116	-.1290	
.040			-.0847	.0397						
.041	-.0730									
.050					.0207	.0264	.0139	-.0052		
.069									-.1822	
.080					-.1549					
.081				-.0863						
.086			-.0181							
.094		-.1375								
.113	-.0699									
.150					-.3467	-.3314	-.2846	-.2552		
.157									-.3837	
.163			.0000							
.177				-.2286						
.229		-.0991								
.246			-.1377							
.247	-.1004									
.250					-.4440	-.4743	-.4523	-.4205		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (3) = 3.922 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				-.3221						
.345									-.4625	
.362		.0002								
.390			-.2580							
.400					-.4980	-.5829		-.5861		
.402				-.4182						
.418										-.2278
.429	-.0449									
.497		-.1838								
.503									-.5235	
.547	-.0735									
.550					-.5051	-.6146				
.565				-.3981						
.600								-.6020		
.633	-.2447									
.637			-.3478							
.650							-.6122			
.670									-.6539	
.700		-.3243				-.5893				
.723										-.6720
.725					-.2231					
.727	-.2966									
.750							-.4878	-.4967		
.760				-.1300						
.775					-.4324	-.5645				
.793	.0073									
.798			-.1046							
.808				-.3120						
.834		-.0206								
.839			-.3072							
.850					-.3581	-.3181	-.4897			
.857				-.3171						
.862									-.6077	
.865		-.3649								
.879			-.2812							
.900		-.2098			-.3179			-.4797		
.905				-.2982						
.919			-.2375							
.950					-.2134	-.2190	-.4606			
.953				-.2566						
.955			-.2318							
.965		-.2420								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (3) = 3.922 BETA (2) = .180 MACH = 1.2454 Q = 599.82 P = 552.51 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	-.0347	-.1427	-.2889	.2810	.6317	.6183	.5960	.5751	-.0289	
.010		-.1980	-.2390		.2323	.3496	.3104	.1879		
.020		-.1949		.0000	.1521	.1837	.1741	.1201	-.2037	
.040			-.1363	-.0295						
.041	-.1378									
.050					-.0333	-.0353	-.0465	-.0666		
.069									-.2477	
.080					-.1893					
.081				-.1267						
.086			-.0529							
.094		-.2072								
.113	-.1463									
.150					-.3509	-.3579	-.3205	-.2917		
.157									-.4206	
.163			.0000							
.177				-.2242						
.229		-.1010								
.246			-.1451							
.247	-.1571									
.250					-.4262	-.4814	-.4710	-.4455		
.274				-.3009						
.345									-.4850	
.362		-.0105								
.390			-.2491							
.400					-.4736	-.5713		-.5979		
.402				-.4095						
.418										-.3700
.429	-.0489									
.497		-.1940								
.503									-.5485	
.547	-.0822									
.550					-.4910	-.5898				
.565				-.3793						
.600								-.6129		
.633	-.2552									
.637			-.2595							
.650							-.6127			
.670									-.6319	
.700		-.3235				-.4012				
.723										-.6297
.725					-.2294					
.727	-.2950									
.750							-.5413	-.5015		
.760				-.1161						
.775					-.4406	-.4178				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (3) = 3.922 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	.1215									
.798			-.0937							
.808				-.3600						
.834		-.0335								
.839			-.3727							
.850					-.3511	-.2513	-.5006			
.857				-.3490						
.862									-.6108	
.865		-.4207								
.879			-.3271							
.900		-.2632			-.3009			-.4625		
.905				-.3348						
.919			-.2702							
.950					-.2164	-.2092	-.4161			
.953				-.2911						
.955			-.2661							
.965		-.2885								

ALPHA (3) = 3.925 BETA (3) = 4.237 MACH = 1.2454 Q = 599.82 P = 552.51 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	-.0617	-.3168	-.3677	.1427	.5458	.5275	.5066	.4798	-.1264	
.010		-.3586	-.2755		.1305	.2334	.1924	.0672		
.020		-.3257		.0000	.0611	.0861	.0708	.0105	-.2975	
.040			-.2122	-.0688						
.041	-.1789									
.050					-.0888	-.1056	-.1274	-.1546		
.069									-.3299	
.080					-.2165					
.081				-.1349						
.086			-.1725							
.094		-.2726								
.113	-.2026									
.150					-.3531	-.3950	-.3674	-.3489		
.157									-.4693	
.163			.0000							
.177				-.2186						
.223		-.1101								
.246			-.1232							
.247	-.2037									
.260					-.4128	-.4949	-.4986	-.4859		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (3) = 3.925 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										
.274				-.2850						
.345									-.5341	
.362		-.0029								
.390			-.2307							
.400					-.4631	-.5721		-.6189		
.402				-.3958						
.418										-.5891
.429	-.0440									
.497		-.1938								
.503									-.5800	
.547	-.0792									
.550					-.4525	-.5593				
.565				-.3143						
.600								-.6173		
.633	-.2732									
.637			-.2033							
.650							-.6122			
.670									-.5705	
.700		-.2908				-.3057				
.723										-.5654
.725					-.1858					
.727	-.2866									
.750							-.6321	-.5255		
.760				-.0988						
.775					-.4126	-.4409				
.793	.1458									
.798			-.0873							
.808				-.3620						
.834		-.0602								
.839			-.3832							
.850					-.3597	-.2925	-.4924			
.857				-.3751						
.862									-.5653	
.865		-.4476								
.879			-.3556							
.900		-.2801			-.3682			-.4611		
.905				-.3672						
.919			-.2887							
.950					-.3135	-.2238	-.3609			
.953				-.3202						
.955			-.2923							
.965		-.3682								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU29)

ALPHA (4) = 7.990 BETA (1) = -3.870 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.D2D5

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0514	-.1242	-.3512	.2100	.6337	.6591	.6565	.6102	-.0911	
.010		-.2183	-.3594		.0305	.1877	.1477	-.0031		
.020		-.1992		.0000	-.0774	.0121	.0090	-.0724	-.3940	
.040			-.2737	-.2500						
.041	-.0647									
.050					-.2491	-.2020	-.2090	- 2552		
.059									-.4141	
.080					-.3855					
.081				-.3672						
.086			-.1951							
.094		-.1833								
.113	-.0703									
.150					-.5516	-.4996	-.4714	-.4438		
.157									-.5502	
.163			.0000							
.177				-.4790						
.229		-.1739								
.246			-.3031							
.247	-.1053									
.250					-.6300	-.6099	-.5871	-.5586		
.274				-.4395						
.345									-.6626	
.362		-.1381								
.390			-.3493							
.400					-.6538	-.7048		-.6789		
.402				-.4962						
.418										-.5876
.429	-.1540									
.497		-.2862								
.503									-.6794	
.547	-.1597									
.550					-.5776	-.7245				
.565				-.4681						
.600								-.6650		
.633	-.3341									
.637			-.4431							
.650							-.6967			
.670									-.6323	
.700		-.4209				-.6703				
.723										-.6136
.725					-.2843					
.727	-.3551									
.750							-.5753	-.5674		
.760				-.2169						
.775					-.5174	-.6092				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (4) = 7.990 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	-.1911									
.798			-.1397							
.808				-.4381						
.834		-.0456								
.839			-.4180							
.850					-.3794	-.3967	-.5682			
.857				-.4209						
.862									-.6245	
.865		-.3927								
.879			-.3734							
.900		-.2325			-.2718			-.5894		
.905				-.3720						
.919			-.2980							
.950					-.2015	-.3355	-.5418			
.953				-.3232						
.955			-.2529							
.965		-.3002								

ALPHA (4) = 7.994 BETA (2) = .176 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0205

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0065	-.3281	-.5438	-.0280	.4879	.5446	.5424	.4916	-.2749	
.010		-.3977	-.5086		-.1114	.0650	.0168	-.1214		
.020		-.3714		.0100	-.2072	-.0891	-.0992	-.1805	-.5237	
.040			-.4103	-.3702						
.041	-.1280									
.050					-.3327	-.2808	-.2913	-.3383		
.069									-.5230	
.080					-.4263					
.081				-.3107						
.086			-.3167							
.094		-.2550								
.113	-.1502									
.150					-.5559	-.5363	-.5114	-.4924		
.157									-.6065	
.163			.0000							
.177				-.3661						
.229		-.2386								
.245			-.2800							
.247	-.1699									
.250					-.5986	-.6279	-.6127	-.5915		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (4) = 7.994 BETA (2) = .176

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				-.3919						
.345									-.6524	
.362		-.1154								
.390			-.3388							
.400					-.5670	-.7077		-.6958		
.402				-.4582						
.418										-.6837
.429	-.1507									
.437		-.2765								
.503									-.6645	
.547	-.1500									
.550					-.5342	-.7039				
.565				-.4636						
.600								-.6756		
.633	-.3361									
.637			-.4635							
.650							-.6894			
.670									-.5772	
.700		-.4064				-.6156				
.723										-.5532
.725					-.2786					
.727	-.3573									
.750							-.5677	-.7123		
.760				-.1359						
.775					-.5054	-.6456				
.793	-.0245									
.798			-.1458							
.808				-.4530						
.834		-.0638								
.839			-.4257							
.850					-.4577	-.3812	-.5611			
.857				-.4480						
.882									-.3654	
.885		-.4393								
.879			-.3692							
.900		-.2635			-.4235			-.5574		
.903				-.4306						
.919			-.3076							
.950					-.2727	-.2482	-.5103			
.963				-.3740						
.975			-.3123							
.985		-.3704								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (4) = 7.996 BETA (3) = 4.240 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0205

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0567	-.5376	-.5038	-.1843	.3610	.4134	.4110	.3524	-.4748	
.010		-.4803	-.4948		-.2157	-.0656	-.1259	-.2532		
.020		-.4735		.0000	-.3001	-.1988	-.2215	-.3026	-.8444	
.040			-.4660	-.2221						
.041	-.1728									
.050					-.3916	-.3655	-.3752	-.4364		
.069									-.6834	
.080					-.4649					
.081				-.2679						
.086			-.4055							
.094		-.5097								
.113	-.2092									
.150					-.5648	-.5725	-.5554	-.5513		
.157									-.6753	
.163			.0000							
.177				-.3000						
.229		-.2572								
.246			-.3607							
.247	-.2316									
.250					-.4939	-.6446	-.6420	-.6312		
.274				-.3543						
.345									-.6813	
.362		-.0262								
.390			-.2685							
.400					-.5089	-.6928		-.7179		
.402				-.4615						
.418										-.6776
.429	-.1366									
.497		-.2423								
.503									-.6730	
.547	-.1290									
.550					-.5104	-.6862				
.565				-.4804						
.600								-.6974		
.633	-.3505									
.637			-.4097							
.650							-.6917			
.670									-.6157	
.700		-.3832				-.4294				
.723										-.6076
.725					-.2308					
.727	-.3570									
.750							-.5940	-.5654		
.760				-.1300						
.775					-.4736	-.5069				

AMES 11-073(OA149) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (4) = 7.996 BETA (3) = 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	.0508									
.798			-.1299							
.808				-.4336						
.834		-.1189								
.839			-.4388							
.850					-.4378	-.3636	-.5855			
.857				-.4446						
.862									-.6023	
.865		-.4451								
.879			-.3483							
.900		-.3243			-.4123			-.5569		
.905				-.4355						
.919			-.3209							
.950					-.2621	-.2271	-.5186			
.953				-.4077						
.955			-.3724							
.965		-.4353								

ALPHA (5) = 11.923 BETA (1) = -3.851 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION (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	-.3274	-.4846	-.0020	.5074	.5477	.5344	.4423	-.3718	
.010		-.3903	-.4487		-.1964	-.0452	-.1343	-.2851		
.020		-.3911		.0000	-.3044	-.2086	-.2545	-.3504	-.7286	
.040			-.3759	-.4559						
.041	-.0643									
.060					-.4483	-.3911	-.4178	-.4840		
.069									-.7234	
.080					-.5509					
.081				-.5186						
.086			-.3041							
.094		-.2680								
.113	-.0815									
.150					-.6802	-.6310	-.6097	-.6140		
.157									-.7309	
.163			.0000							
.177				-.5949						
.229		-.2333								
.245			-.3800							
.247	-.1096									
.250					-.7450	-.7193	-.6989	-.6026		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU29)

ALPHA (5) = 11.923 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										
.274				-.5748						
.345									-.7544	
.362		-.1883								
.390			-.4683							
.400					-.7509	-.7766		-.7495		
.402				-.5965						
.418										-.7301
.429	-.1893									
.497		-.4528								
.503									-.7397	
.547	-.2867									
.550					-.7462	-.7496				
.565				-.5557						
.600								-.7075		
.633	-.4648									
.637			-.5333							
.650							-.7122			
.670									-.6607	
.700		-.5216				-.6847				
.723										-.6147
.725					-.6641					
.727	-.4445									
.750							-.6201	-.6663		
.760				-.3068						
.775					-.6908	-.6165				
.793	-.2243									
.798			-.2040							
.808				-.5214						
.834		-.1448								
.839			-.5175							
.850					-.4636	-.5384	-.6121			
.857				-.4941						
.862									-.6500	
.865		-.4511								
.879			-.4409							
.900		-.2787			-.3622			-.6836		
.905				-.3918						
.919			-.3942							
.950					-.2723	-.4541	-.5121			
.953				-.3343						
.955			-.4069							
.965		-.4572								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (5) = 11.934 BETA (2) = .177 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0324	-.4751	-.4729	-.2143	.3303	.3784	.3602	.2665	-.5299	
.010		-.4193	-.4648		-.3482	-.1998	-.2885	-.4363		
.020		-.4042		.0000	-.4439	-.3485	-.3996	-.4847	-.7006	
.040			-.4476	-.4861						
.041	-.1396									
.050					-.5622	-.5008	-.5307	-.5897		
.063									-.6916	
.080					-.6428					
.081				-.5005						
.086			-.4209							
.094		-.4616								
.113	-.1798									
.150					-.7420	-.6950	-.6749	-.6842		
.157									-.6911	
.163			.0000							
.177				-.4939						
.229		-.5358								
.246			-.4630							
.247	-.1706									
.250					-.7418	-.7640	-.7451	-.7318		
.274				-.5133						
.345									-.7095	
.352		-.3931								
.390			-.4466							
.400					-.7321	-.7564		-.7299		
.402				-.5220						
.418										-.7098
.429	-.2587									
.497		-.4155								
.503									-.7188	
.547	-.2632									
.550					-.6690	-.7522				
.565				-.5246						
.600								-.6732		
.633	-.4503									
.637			-.5655							
.650							-.6905			
.670									-.6214	
.700		-.4779				-.6313				
.723										-.6153
.725					-.3242					
.727	-.4323									
.750							-.6208	-.6415		
.760				-.2245						
.775					-.5742	-.6654				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (5) = 11.934 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	-.1534									
.798			-.1796							
.808				-.5392						
.834		-.1475								
.839			-.5037							
.850					-.4889	-.5424	-.5501			
.857				-.5121						
.862									-.6185	
.865		-.4025								
.879			-.4126							
.900		-.3593			-.4489			-.6173		
.905				-.5097						
.919			-.3564							
.950					-.2052	-.4819	-.5323			
.953				-.4474						
.955			-.4284							
.965		-.4646								

ALPHA (5) = 11.927 BETA (3) = 4.253 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0961	-.5075	-.5165	-.4385	.1480	.1918	.1838	.0920	-.6393	
.010		-.4955	-.5163		-.4890	-.3587	-.4162	-.5394		
.020		-.4910		.0000	.5637	-.4848	-.5120	-.5845	-.7018	
.040			-.5233	-.4319						
.041	-.2060									
.050					-.6563	-.6024	-.6180	-.6663		
.069									-.7001	
.080					-.6695					
.081				-.4203						
.086			-.4912							
.094		-.5648								
.113	-.2251									
.150					-.6733	-.7209	-.7227	-.7337		
.157									-.6996	
.163			.0000							
.177				-.4428						
.229		-.6679								
.246			-.4794							
.247	-.2613									
.250					-.6382	-.7240	-.7561	-.7578		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U29)

ALPHA (5) = 11.927 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				-.4612						
.345									-.7096	
.362		-.3590								
.390			-.5431							
.400					-.6269	-.7368		-.7259		
.402				-.5174						
.418										-.7081
.429	-.2838									
.497		-.3689								
.503									-.7228	
.547	-.2214									
.550					-.5576	-.7344				
.565				-.5335						
.600								-.6847		
.633	-.4162									
.637			-.5005							
.650							-.6515			
.670									-.6322	
.700		-.3992				-.6043				
.723										-.8323
.725					-.2243					
.727	-.4021									
.750							-.6605	-.6292		
.760				-.2165						
.775					-.5449	-.6268				
.793	-.0122									
.798			-.1694							
.808				-.5245						
.834		-.1811								
.839			-.4762							
.850					-.5128	-.4450	-.5967			
.857				-.5159						
.862									-.6280	
.865		-.4205								
.879			-.4172							
.900		-.3647			-.4965			-.6072		
.905				-.4782						
.919			-.3853							
.950					-.3000	-.2707	-.5434			
.953				-.4433						
.955			-.4169							
.965		-.5499								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30) (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 = -10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = .000 MACH = 1.100

ALPHA (1) = -3.994 BETA (1) = -3.852 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2827	-.1133	-.1501	.2706	.5926	.5224	.4730	.4915	-.6204	
.010		-.0531	-.0391		.7144	.6838	.6445	.5680		
.020		-.0470		.0000	.6390	.5876	.5616	.5222	-.1333	
.040			.0443	.4703						
.041	-.1466									
.050					.4260	.3789	.3591	.3340		
.059									-.1980	
.080					.2396					
.081				.3552						
.086			.2481							
.094		-.0159								
.113	-.1140									
.150					.0240	-.0009	.0151	-.0115		
.157									-.3542	
.163			.0000							
.177				.0795						
.229		.0289								
.246			.1741							
.247	.0032									
.250					-.1457	-.2073	-.2219	-.2618		
.274				-.0290						
.345									-.3667	
.362		.2127								
.390			-.0024							
.400					-.0845	-.2846		-.4719		
.402				-.1367						
.418										-.7021
.429	.1195									
.497		.0091								
.503									-.3972	
.547	.1303									
.550					.0871	-.0515				
.565				.1869						
.600								-.2367		
.633	-.0216									
.637			.2345							
.650							-.1687			
.670									-.4867	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (1) = -3.994 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		.2580				-.0402				
.723										-.4569
.725					-.0019					
.727	.2218									
.750							-.5274	-.5492		
.760				-.0403						
.775					-.4416	-.4765				
.793	.3533									
.798			-.0239							
.808				-.4495						
.834		-.0012								
.839			-.4573							
.850					-.4348	-.3030	-.4894			
.857				-.4515						
.862									-.3046	
.865		-.4926								
.879			-.3819							
.900		-.3133			-.4529			-.4226		
.905				-.4147						
.919			-.3640							
.950					-.3620	-.3938	-.2396			
.953				-.3548						
.955			-.3407							
.965		-.3557								

ALPHA (1) = -3.985 BETA (2) = .190 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2767	-.1158	-.0932	.2869	.5359	.4400	.3890	.4026	-.7027	
.010		-.0869	-.0249		.6492	.6226	.5940	.5313		
.020		-.0761		.0000	.5874	.5378	.5256	.4949	-.2114	
.040			.0533	.4216						
.041	-.2408									
.050					.3993	.3642	.3509	.3295		
.059									-.2519	
.090					.2286					
.091				.3332						
.096			.2159							
.094		-.0415								
.113	-.1847									
.150					.0426	.0312	.0488	.0125		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU30)

ALPHA (1) = -3.985 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									-.3603	
.163			.0000							
.177				.1129						
.229		.0221								
.246			.1657							
.247	-.0198									
.250					-.0990	-.1591	-.1740	-.2291		
.274				-.0117						
.345									-.2907	
.362		.2011								
.390			.0026							
.400					.0434	-.0413		-.2985		
.402				-.0379						
.418										-.7758
.429	.1110									
.497		.0479								
.503									-.2604	
.547	.1202									
.550					.0695	-.0643				
.565				.1659						
.600								-.3063		
.633	.0398									
.637			.2104							
.650							-.1896			
.670									-.5340	
.700		.2396				-.0671				
.723										-.2923
.725					-.0243					
.727	.2166									
.750							-.5551	-.5894		
.760				-.0658						
.775					-.4621	-.4897				
.793	.3284									
.798			-.0461							
.808				-.4778						
.834		-.0295								
.839			-.4900							
.850					-.4626	-.3227	-.5187			
.857				-.4857						
.862									-.2777	
.865		-.5236								
.879			-.4153							
.900		-.3518			-.4852			-.4781		
.905				-.4519						
.919			-.3834							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU30)

ALPHA (1) = -3.985 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					-.4140	-.4371	-.3054			
.953				-.3958						
.955			-.3644							
.965		-.3768								

ALPHA (1) = -3.992 BETA (3) = 4.268 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2750	-.1345	-.0481	.3281	.4974	.3785	.3016	.3054	-.7701	
.010		-.0853	-.0026		.5970	.5485	.5056	.4519		
.020		-.0799		.0000	.5356	.4764	.4500	.4150	-.3041	
.040			.0611	.3925						
.041	-.3034									
.050					.3679	.3166	.2957	.2735		
.069									-.3142	
.080					.2161					
.081				.3186						
.086			.2240							
.094		-.0612								
.113	-.2436									
.150					.0404	.0209	.0343	-.0042		
.157									-.3754	
.163			.0000							
.177				.1249						
.223		.0255								
.246			.1750							
.247	-.0362									
.250					-.0789	-.1595	-.1694	-.2001		
.274				.0154						
.345									-.3253	
.362		.2076								
.390			.0204							
.400					.0352	-.0415		-.3034		
.402				-.0403						
.418										-.3793
.429	.1188									
.497		.0574								
.503									-.2486	
.547	.1438									
.550					.0493	-.0737				
.565				.1445						

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU30)

ALPHA (1) = -3.992 BETA (3) = 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										
.600								-.3218		
.633	.0512									
.637			.1876				-.2075			
.650									-.4635	
.670						-.0994				
.700		.2131								-.2835
.723					-.0549					
.725										
.727	.1851						-.5752	-.6125		
.750				-.0892						
.760					-.4835	-.5103				
.775										
.793	.3049									
.798			-.0720							
.808				-.4994						
.834		-.0577								
.839			-.5116							
.850					-.4934	-.3533	-.5504			
.857				-.5121						
.862									-.2670	
.865		-.5488								
.879			-.4602							
.900		-.3879			-.5174			-.4911		
.905				-.4984						
.919			-.4199							
.950					-.4711	-.4649	-.3969			
.953				-.4361						
.955			-.4017							
.965		-.4108								

ALPHA (2) = -.020 BETA (1) = -3.866 MACH = 1.0986 Q = 599.48 P = 709.54 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	-.1564	-.0498	-.0095	.4511	.6740	.6082	.5	.5790	-.4036	
.010		-.0709	.0269		.5631	.5714	.5260	.4131		
.020		-.1014		.0000	.4525	.4216	.3969	.3528	-.1601	
.040			.0507	.2950						
.041	-.1550				.2174	.1695	.1419	.1209		
.050									-.2420	
.069					.0120					
.080										

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (2) = -.020 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										
.081				.1451						
.086			.1547							
.094		-.0969								
.113	-.1193									
.150					-.2184	-.2513	-.2247	-.2145		
.157									-.4502	
.163			.0000							
.177				-.0715						
.189		-.0200								
.246			.0253							
.247	-.0388									
.250					-.3344	-.3994	-.4220	-.4320		
.274				-.2174						
.345									-.4805	
.382		.1129								
.390			-.1810							
.400					-.4619	-.5497		-.6438		
.402				-.3886						
.418										-.1467
.429	.0580									
.497		-.1049								
.503									-.5427	
.547	.0301									
.550					-.0969	-.4340				
.595				.0208						
.600								-.6386		
.633	-.2018									
.637			.1105							
.650							-.4901			
.670									-.4010	
.700		.1115				-.0558				
.723										-.5644
.725					-.0047					
.727	.0424									
.750							-.5270	-.4263		
.760				-.0325						
.775					-.4487	-.4704				
.783	.2758									
.798			-.0281							
.818				-.4495						
.824		-.0136								
.830			-.4610							
.841					-.4473	-.3135	-.2824			
.857				-.4510						
.862									-.3593	

AMES 11-073:OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (2) = -.020 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										
.865		-.4908								
.879			-.3751							
.930		-.3272			-.4579			-.3296		
.905				-.4041						
.919			-.3415							
.950					-.3184	-.3128	-.0701			
.953				-.3403						
.955			-.3408							
.965		-.3675								

ALPHA (2) = -.014 BETA (2) = .187 MACH = 1.0986 Q = 559.48 P = 709.54 RN/L = 3.1685

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1739	-.1275	-.0374	.4221	.6139	.5354	.4946	.5122	-.2366	
.010		-.1678	-.0121		.4807	.4875	.4489	.3608		
.020		-.1991		.0000	.3813	.3458	.3275	.3040	-.1559	
.040			.0314	.2357						
.041	-.2310									
.050					.1659	.1139	.0894	.0861		
.069									-.2267	
.080					-.0177					
.081				.1049						
.086			.1329							
.094		-.1114								
.113	-.1915									
.150					-.2304	-.2611	-.2255	-.2195		
.157									-.4389	
.163			.0000							
.177				-.0916						
.229		-.0252								
.246			-.0047							
.247	-.0982									
.250					-.3298	-.3633	-.4127	-.4317		
.274				-.2153						
.345									-.4505	
.362		.0979								
.390			-.1751							
.400					-.4425	-.5221		-.6144		
.402				-.3710						
.418										-.1670
.429	.0597									

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (2) = -.014 BETA (2) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/CW										
.497		-.1129							-.5066	
.503										
.547	.0027									
.550					-.0035	-.1336				
.565				.1014						
.600								-.5740		
.633	-.2052									
.637			.1329							
.650							-.1755			
.670									-.6653	
.700		.1370				-.0553				-.7330
.723										
.725					-.0231					
.727	.0991						-.5249	-.5188		
.750										
.760				-.0533						
.775					-.4684	-.4951				
.793	.2559									
.799			-.0483							
.808				-.4793						
.834		-.0466								
.839			-.4855							
.850					-.4729	-.3329	-.4736			
.857				-.4775						
.862									-.5840	
.865		-.5166								
.879			-.3900							
.900		-.3430			-.4901			-.2465		
.905				-.4305						
.919			-.3632							
.950					-.3904	-.4569	-.1690			
.953				-.3670						
.955			-.3601							
.965		-.3786								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (2) = -.017 BETA (3) = 4.244 MACH = 1.0986 Q = 599.48 P = 709.54 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	-.1933	-.2400	-.0653	.4126	.5797	.4813	.4283	.4263	-.1947	
.010		-.2793	-.0302		.4165	.4076	.3595	.2528		
.020		-.2814		.0000	.3285	.2741	.2523	.2029	-.2169	
.040			.0265	.2164						
.041	-.2906									
.050					.1388	.0534	.0261	.0124		
.069									-.2784	
.080					-.0369					
.081				.1064						
.086			.1126							
.094		-.1184								
.113	-.2525									
.150					-.2066	-.2653	-.2543	-.2592		
.157									-.4679	
.163			.0000							
.177				-.0672						
.229		-.0172								
.246			.0252							
.247	-.0985									
.250					-.3042	-.3692	-.3899	-.4559		
.274				-.1807						
.345									-.4551	
.362		.1040								
.390			-.1545							
.400					-.3955	-.4805		-.3199		
.402				-.3171						
.418										-.2618
.429	.0557									
.497		-.0829								
.503									-.5135	
.547	.0250									
.550					-.0028	-.0998				
.565				.0731						
.600								-.4216		
.633	-.1649									
.637			.1088							
.650							-.1855			
.670									-.5611	
.700		.1196				-.0979				
.723										-.8766
.725					-.0588					
.727	.0914									
.750							-.5676	-.4873		
.760				-.0852						
.775					-.4958	-.5205				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (2) = -.017 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	.2287									
.798			-.0797							
.808				-.5025						
.834		-.0841								
.839			-.5125							
.850					-.5064	-.3704	-.4931			
.857				-.5076						
.862									-.3534	
.865		-.5521								
.879			-.4299							
.900		-.3816			-.5275			-.2970		
.905				-.4679						
.919			-.3978							
.950					-.4579	-.4933	-.2309			
.953				-.4188						
.955			-.3994							
.965		-.4386								

ALPHA (3) = 3.958 BETA (1) = -3.869 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0735	-.0770	-.1327	.4700	.7082	.6827	.6649	.6325	.0054	
.010		-.1520	-.1173		.3210	.3935	.3295	.1488		
.020		-.1749		.0000	.2031	.2065	.1699	.0778	-.2527	
.040			-.0594	.0547						
.041	-.1463									
.050					-.0397	-.0658	-.0976	-.1530		
.069									-.3244	
.080					-.2226					
.081				-.0986						
.086			-.0028							
.094		-.2230								
.113	-.1248									
.150					-.3892	-.4511	-.4146	-.4039		
.157									-.5475	
.163			.0000							
.177				-.2609						
.229		-.0808								
.246			-.1431							
.247	-.1721									
.250					-.5007	-.5793	-.5943	-.5793		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (3) = 3.958 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				-.3642						
.345									-.6438	
.362		.0384								
.390			-.3008							
.400					-.5845	-.7217		-.7636		
.402				-.4981						
.418										-.4507
.429	.0047									
.497		-.1957								
.503									-.6668	
.547	-.0721									
.550					-.2870	-.7177				
.565				-.1924						
.600								-.7648		
.633	-.3059									
.637			-.1150							
.650							-.7616			
.670									-.5415	
.700		-.1484				-.4373				
.723										-.5391
.725					-.1746					
.727	-.3045									
.750							-.6167	-.5795		
.760				-.0346						
.775					-.4960	-.4966				
.793	.1984									
.799			-.0477							
.808				-.4253						
.834		-.0311								
.839			-.4687							
.850					-.4405	-.2980	-.5015			
.857				-.4458						
.862									-.5458	
.865		-.5153								
.879			-.3787							
.900		-.3330			-.3155			-.4936		
.905				-.4157						
.919			-.3539							
.950					-.0830	-.1544	-.2891			
.953				-.1962						
.955			-.3542							
.965		-.3753								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (3) = 3.959 BETA (2) = .177 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1184	-.2347	-.2466	.3749	.6273	.5982	.5916	.5515	-.0915	
.010		-.3029	-.1938		.2156	.2921	.2303	.0595		
.020		-.3015		.0000	.1139	.1193	.0837	-.0118	-.3376	
.040			-.1073	-.0020						
.041	-.2212									
.050					-.0887	-.1243	-.1562	-.2131	-.3865	
.069										
.080					-.2590					
.081				-.1248						
.086			-.0230							
.094		-.2941								
.113	-.2014									
.150					-.3985	-.4653	-.4403	-.4334	-.5818	
.157										
.163			.0000							
.177				-.2575						
.229		-.0973								
.246			-.1461							
.247	-.2212									
.250					-.4832	-.5769	-.5978	-.5939		
.274				-.3569						
.345									-.6691	
.352		.0254								
.390			-.2991							
.400					-.5487	-.6825		-.7639		
.402				-.4776						
.418										-.6082
.429	.0149									
.497		-.2083								
.503									-.6925	
.547	-.0861									
.550					- 2235	-.6341				
.565				-.1514						
.600								-.7425		
.633	-.3179									
.637			-.1024							
.650							-.7291			
.670									-.6193	
.700		-.0910				-.1957				
.723										-.6184
.725					-.0885					
.727	-.2455									
.750							-.7978	-.6466		
.760				-.0453						
.775					-.4997	-.5053				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (3) = 3.959 BETA (2) = .177

SECTION (1)LEF 3 TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2125									
.798			-.0534							
.808				-.4590						
.834		-.0520								
.839			-.4959							
.850					-.4588	-.3193	-.2960			
.857				-.4638					-.6302	
.862										
.865		-.5396								
.879			-.4049							
.900		-.3472			-.4539			-.4929		
.905				-.4376						
.919			-.3755							
.950					-.1667	-.1858	-.1445			
.953				-.2867						
.955			-.3823							
.965		-.4200								

ALPHA (3) = 3.960 BETA (3) = 4.234 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION (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	-.4431	-.3111	.2901	.5629	.5221	.4950	.4372	-.2785	
.010		-.4875	-.1803		.1211	.1813	.0988	-.0712		
.020		-.4442		.0000	.0386	.0192	-.0350	-.1482	-.4813	
.040			-.1048	-.0216						
.041	-.2854									
.050					-.1291	-.1924	-.2477	-.3150		
.069									-.4842	
.080					-.2749					
.081				-.1173						
.086			-.0207							
.094		-.3188								
.113	-.2821									
.150					-.4028	-.4884	-.4888	-.5041		
.157									-.6417	
.163			.0000							
.177				-.2318						
.229		-.0799								
.246			-.1218							
.247	-.2413									
.250					-.4639	-.5959	-.6233	-.6369		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (3) = 3.960 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										
.274				-.3161						
.345									-.7240	
.362		.0420								
.390			-.2650							
.400					-.5370	-.6513		-.7879		
.402				-.4441						
.418										-.8447
.429	.0315									
.497		-.1751								
.503									-.7712	
.547	-.0620									
.550					-.2252	-.6023				
.565				-.1468						
.600								-.7361		
.633	-.2871									
.637			-.0522							
.650							-.6256			
.670									-.7303	
.700		-.0348				-.2052				
.723										-.7141
.725					-.0783					
.727	-.1704									
.750							-.6115	-.7510		
.760				-.0821						
.775					-.5121	-.4894				
.793	.1757									
.798			-.0925							
.808				-.5114						
.834		-.0972								
.839			-.5414							
.850					-.5192	-.3682	-.3441			
.857				-.5124						
.862									-.7310	
.865		-.5709								
.879			-.4564							
.900		-.3819			-.5203			-.4911		
.905				-.4807						
.919			-.4125							
.950					-.3576	-.3583	-.1503			
.953				-.4465						
.955			-.4291							
.955		-.5176								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (4) = 8.035 BETA (1) = -3.862 MACH = 1.0985 Q = 599.52 P = 709.77 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	-.0359	-.2354	-.5293	.2158	.6141	.6159	.5867	.4964	-.2839	
.010		-.3332	-.5291		-.0525	.0727	-.0274	-.2335		
.020		-.3110		.0000	-.1365	-.1147	-.1606	-.3034	-.6701	
.040			-.3840	-.2044						
.041	-.1535									
.050					-.3089	-.3320	-.3857	-.4821		
.069									-.6633	
.080					-.4556					
.081				-.3243						
.086			-.2818							
.094		-.2829								
.113	-.1270									
.150					-.6608	-.6509	-.6469	-.6524		
.157									-.7782	
.163			.0000							
.177				-.4321						
.229		-.2460								
.246			-.2312							
.247	-.1877									
.250					-.6991	-.7746	-.7756	-.7553		
.274				-.4824						
.345									-.8210	
.362		-.0159								
.390			-.3839							
.400					-.7110	-.8571		-.8320		
.402				-.5821						
.418										-.8203
.429	-.0952									
.497		-.2912								
.503									-.8075	
.547	-.1072									
.550					-.6899	-.8446				
.565				-.5008						
.600								-.8142		
.633	-.3968									
.637			-.4228							
.650							-.7371			
.670									-.6083	
.700		-.5182				-.5944				
.723										-.6012
.725					-.3018					
.727	-.4401									
.750							-.5574	-.6102		
.760				-.0891						
.775					-.5526	-.5157				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (4) = 8.035 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	.0826									
.798			-.1068							
.808				-.4732						
.834		-.0362								
.839			-.5377							
.850					-.4352	-.3327	-.5092			
.857				-.4662						
.862									-.6068	
.865		-.5365								
.879			- 4160							
.000		-.3651			-.3293			-.5937		
.905				-.4176						
.919			-.3301							
.960					-.1978	-.2143	-.4494			
.963				-.2524						
.955			-.3606							
.965		-.4171								

ALPHA (4) = 8.041 BETA (2) = .181 MACH = 1.0985 Q = 599.52 P = 709.77 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	-.1036	-.4705	-.6829	.0431	.4875	.4908	.4671	.3732	-.4883	
.010		-.5318	-.5957		-.1721	-.0605	-.1642	-.3485		
.020		-.5010		.0000	-.2533	-.2187	-.2805	-.4107	-.7832	
.040			-.4787	-.2494						
.041	-.2201									
.050					-.3691	-.4120	-.4709	-.5699		
.069									-.8178	
.080					-.4986					
.081				-.3127						
.096			-.3593							
.094		-.3677								
.113	-.2222									
.150					-.5650	-.6856	-.6880	-.7048		
.157									-.8521	
.163			.0000							
.177				-.3856						
.229		-.2329								
.248			-.2836							
.247	-.2641									
.250					-.6737	-.7927	-.8005	-.7914		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U30)

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

ALPHA (4) = 8.041 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2550	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4497					-.8803	
.345										
.362		.0079								
.390			-.4094							
.400					-.6680	-.8628		-.9016		
.402				-.5613						-.9178
.418										
.429	-.0610									
.497		-.2937							-.8575	
.503										
.547	-.1207				-.5242	-.8695				
.552										
.555				-.4667				-.9477		
.600										
.633	-.4059									
.637			-.3326				-.8772			
.650									-.7186	
.670						-.5224				
.700		-.4307								-.7261
.723										
.725					-.2342					
.727	-.4377						-.7224	-.7308		
.750										
.760				-.0688						
.775					-.5708	-.4611				
.793	.0880									
.798			-.1052							
.808				-.5279						
.834		-.0799								
.849			-.5692							
.870					-.5193	-.2618	-.5732			
.897				-.5019						
.898									-.7219	
.865		-.5578								
.879			-.4638							
.900		-.3644			-.3529			-.6835		
.905				-.4827						
.919			-.3858							
.950					-.1516	-.1531	-.4633			
.953				-.2793						
.955			-.4250							
.965		-.5142								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (+) = 8.040 BETA (3) = 4.238 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2830	3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1614	-.6807	-.4536	-.0345	.3531	.3621	.3181	.2166	-.6940	
.010		-.6009	-.4132		-.2823	-.1997	-.3214	-.4951		
.020		-.5739		.0000	-.3494	-.3329	-.4170	-.5523	-.9107	
.040			-.3915	-.1269						
.054	-.2822									
.060					-.4166	-.4964	-.5621	-.6675	-.8935	
.079										
.080					-.5087					
.081				-.1784						
.096			-.2581							
.104		-.6552								
.113	.3082									
.150					-.5892	-.7162	-.7355	-.7705	-.8864	
.157										
.163			.0000							
.177				-.2955						
.189		-.1958								
.246			-.2457							
.247	-.3219									
.250					-.5766	-.8021	-.8274	-.8408		
.274				-.3910					-.9140	
.345										
.362		.0612								
.330			-.3301							
.400					-.5977	-.8347		-.9270		
.402				-.5203						-.9019
.418										
.429	-.0225									
.497		-.2582							-.8618	
.503										
.547	-.0952									
.550					-.4579	-.7514				
.555				-.3101						
.600								-.8884		
.633	-.3854									
.637			-.1932							
.650							-.8919			
.670									-.7921	
.700		-.2795				-.3152				-.7955
.723										
.725					-.1324					
.767	-.3778									
.750							-.8593	-.8116		
.760				-.1446						
.775					-.5672	-.5686				

AMES 11-0.3(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (4) = 8.040 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	.1066									
.798			-.1154							
.808				-.5633						
.834		-.1278								
.839			-.5639							
.850					-.5364	-.3769	-.5642			
.857				-.5990						
.862									-.7926	
.865		-.5366								
.879			-.4464							
.900		-.4180			-.5319			-.7360		
.905				-.5652						
.919			-.4662							
.950					-.2132	-.2761	-.3319			
.953				-.4691						
.955			-.5072							
.965		-.5752								

ALPHA (5) = 11.975 BETA (1) = -3.843 MACH = 1.0970 Q = 599.10 P = 711.19 RN/L = 3.1892

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	-.0497	-.4634	-.6397	-.1611	.3611	.3879	.3576	.2415	-.6141	
.010		-.5229	-.5914		-.4516	-.3089	-.4141	-.5849		
.020		-.5113		.0000	-.5606	-.4746	-.5401	-.6394	-.7749	
.040			-.5109	-.6171						
.041	-.1517									
.060					-.6923	-.6418	-.6951	-.7705		
.069									-.7425	
.080					-.7900					
.081				-.6994						
.086			-.4262							
.094		-.3851								
.113	-.1415									
.150					-.8343	-.8639	-.8525	-.8767		
.157									-.7406	
.163			.0000							
.177				-.6001						
.229		-.3322								
.246			-.3768							
.247	-.1901									
.250					-.8696	-.8514	-.8513	-.8626		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (S) = 11.975 BETA (D) = -3.343

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				-.4459						
.345										
.382		-.2319							-.7848	
390			-.4553							
.422					-.8630	-.8499		-.7459		
.438				-.5998						
.450	-.2658									-.7725
.478		-.3956								
.497	-.1964								-.7311	
.518					-.8062	-.7993				
.538				-.6152						
.553	-.4482							-.7283		
.587			-.6411							
.601							-.7372			
.618		-.5925							-.6572	
.633						-.7111				
.650										-.6524
.727	-.4978				-.4249					
.750										
.769							-.6644	-.6550		
.775				-.1580						
.793	-.0773				-.7350	-.6182				
.799			-.1745							
.809				-.6454						
.834		-.0518								
.840			-.5777							
.851					-.5831	-.4912	-.6313			
.857				-.6096						
.862									-.6524	
.885		-.5039								
.890			-.4935							
.910		-.3041			-.3734			-.6576		
.935				-.5802						
.939			-.4706							
.960					-.2276	-.3692	-.6025			
.963				-.5402						
.977			-.4664							
.985		-.4938								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU30)

ALPHA (5) = 11.985 BETA (2) = .181 MACH = 1.0970 Q = 599.10 P = 711.19 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	-.1345	-.6284	-.6066	-.3977	.1877	.2332	.2072	.0928	-.7448	
.010		-.5452	-.5929		-.5976	-.4298	-.5268	-.6912		
.020		-.5234		.0000	-.6752	-.5846	-.6467	-.7413	-.7657	
.040			-.5780	-.3545						
.041	-.2363									
.050					-.7057	-.7208	-.7716	-.8432	-.7557	
.088										
.080					-.7085					
.081				-.3646						
.086			-.5360							
.094		-.5998								
.113	-.2580									
.119					-.6864	-.9010	-.8991	-.8992	-.7539	
.155										
.165			.0000							
.177				-.3682						
.229		-.6960								
.246			-.4150							
.247	-.2630									
.250					-.6928	-.8865	-.8740	-.9340		
.274				-.5241					-.7858	
.345										
.362		-.1858								
.390			-.5894							
.400					-.7438	-.9052		-.7647		
.402				-.6217						-.7714
.418										
.429	-.2517									
.497		-.3350							-.7796	
.503										
.547	-.0958				-.7175	-.8413				
.550				-.6349						
.565								-.7483		
.600										
.633	-.5035									
.637			-.6395				-.7692			
.650									-.6883	
.670						-.7395				
.700		-.5339								-.6786
.723					-.2959					
.725										
.727	-.5240						-.7160	-.6907		
.750										
.760				-.2283						
.775					-.6291	-.6661				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U30)

ALPHA (S) = 11.985 BETA (2) = .181

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	-.0580									
.799			-.1588							
.808				-.6330						
.824		-.1282								
.833			-.6021							
.850					-.5938	-.4951	-.6746			
.857				-.5988						
.872									-.6342	
.885		-.4925								
.879			-.4316							
.900		-.4071			-.5765			-.6926		
.915				-.6080						
.918			-.4375							
.940					-.2134	-.3294	-.6054			
.958				-.5887						
.966			-.4339							
.955		-.5341								

ALPHA (S = 11.97[illegible] BETA (3) = 4.250 MACH = 1.0970 Q = 599.10 P = 711.19 RN/L = 3.1992

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2141	-.6715	-.5615	-.4722	.0776	.0988	.0422	-.0782	-.8570	
.000		-.6491	-.6575		-.6489	-.5443	-.6445	-.7965		
.000		-.6412		.0000	-.7129	-.6817	-.7364	-.8337	-.9128	
.000			-.6277	-.1621						
.041	-.3293									
.050					-.7401	-.7915	-.8477	-.9196		
.059									-.9105	
.080					-.7303					
.021				-.2474						
.098			-.5356							
.094		-.7100								
.113	-.3236									
.150					-.6799	-.9350	-.9471	-.9782		
.157									-.9091	
.163			.0000							
.177				-.4636						
.209		-.8371								
.240			-.4488							
.247	-.3[illegible]									
.260					-.6275	-.9625	-.9823	-.9888		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U30)

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

ALPHA (5) = 11.977 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				-.4486					-.9287	
.345										
.362		-.0230								
.390			-.4475		-.6569	-.9729		-.9087		
.400										
.402				-.5705						-.9108
.418										
.429	-.2096									
.497		-.3152							-.9422	
.503										
.547	-.1193				-.5930	-.9350				
.550				-.6445						
.565								-.8996		
.600										
.633	-.4688									
.637			-.4805				-.8307			
.650									-.8440	
.670										
.700		-.4358				-.4342				-.8376
.723					-.2659					
.725										
.727	-.4736						-.8747	-.8278		
.750										
.760				-.2264						
.775					-.7037	-.6935				
.793	-.0286									
.798			-.1725							
.808				-.6837						
.834		-.1566								
.839			-.6301							
.850					-.6672	-.4965	-.7420			
.857				-.6662						
.862									-.8334	
.865		-.5106								
.879			-.5327							
.900		-.4723			-.5528			-.7935		
.905				-.5688						
.919			-.5120							
.950					-.3170	-.3080	-.6686			
.953				-.5712						
.955			-.5275							
.965		-.6856								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU31) (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 = -10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = .000 MACH = .900

ALPHA (I) = -3.977 BETA (I) = -3.852 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CN										
.000	-.4479	-.0412	-.0935	.1583	.4102	.3222	.2557	.2762	-.8716	
.010		.0360	.0535		.6094	.5724	.5327	.4389		
.020	•	.0421		.0000	.5389	.4843	.4491	.3930	-.3903	
.040			.1637	.3921						
.041	-.0480									
.050					.3202	.2622	.2344	.1797		
.069									-.4534	
.080					.1213					
.081				.2539						
.086			.2831							
.094		.0535								
.113	.0412									
.150					-.1092	-.1490	-.1424	-.2059		
.157									-.5604	
.163			.0000							
.177				-.0222						
.229		.1589								
.246			.0702							
.247	.0693									
.250					-.3124	-.3638	-.4165	-.5149		
.274				-.1751						
.345									-.4544	
.362		.1503								
.390			-.1416							
.400					-.2296	-.3536		-.6655		
.402				-.2205						
.418										-.2829
.429	.1548									
.497		-.0935								
.503									-.1764	
.547	.0156									
.550					-.1833	-.3482				
.565				-.0622						
.600								-.1500		
.633	-.1344									
.637			-.0041							
.650							-.2169			
.670									-.6394	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (1) = -3.977 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		.0353				-.1322				
.723										-.3798
.725					-.1562					
.727	.0059									
.750							-.8434	-.8322		
.760				-.2082						
.775					-.8599	-.6940				
.793	.1492									
.798			-.1872							
.808				-.8546						
.834		-.1974								
.839			-.8673							
.850					-.2411	-.2750	-.2049			
.857				-.2563						
.862									-.0902	
.865		-.8435								
.879			-.2953							
.900		- 3871			-.1607			-.1778		
.905				-.1434						
.919			-.1412							
.950					-.0960	-.1483	-.1363			
.953				-.0603						
.955			-.0736							
.965		-.1637								

ALPHA (1) = -3.975 BETA (2) = .187 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION (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	-.0016	-.0232	.1670	.3560	.2292	.1528	.1612	-.6319	
.010		.0343	.0750		.5452	.4936	.4529	.3743		
.020		.0322		.0000	.4826	.4172	.3912	.3330	-.4298	
.040			.1503	.3306						
.041	-.0968									
.050					.2817	.2249	.2024	.1541		
.069									-.4874	
.080					.1069					
.0P:				.2221						
.086			.2486							
.094		.0299								
.113	.0263									
.150					-.1022	-.1391	-.1102	-.2067		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (1) = -3.975 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										
.157									-.5479	
.163			.0000							
.177				-.0188						
.229		.1367								
.246			.0570							
.247	.0551									
.250					-.2808	-.3233	-.3670	-.50[illegible]		
.274				-.1575						
.345									-.3928	
.362		.1325								
.390			-.1379							
.400					-.2262	-.3410		-.6114		
.402				-.2067						
.418										-.2640
.429	.1371									
.437		-.0954								
.503									-.3656	
.547	.0110									
.550					-.2130	-.3847				
.565				-.0897						
.600								-.4837		
.633	-.1226									
.637			-.0381							
.650							-.4013			
.670									-.6144	
.700		.0053				-.2404				
.723										-.4343
.725					-.2346					
.727	-.0111									
.750							-.6482	-.5494		
.760				-.2339						
.775					-.8925	-.6113				
.793	.1065									
.798			-.2272							
.808				-.8943						
.834		-.2345								
.839			-.9038							
.850					-.2735	-.2702	-.2259			
.857				-.2810						
.862									-.1213	
.865		-.8705								
.879			-.3025							
.900		-.4078			-.2262			-.2008		
.905				-.2048						
.919			-.1941							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (1) = -3.975 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										
.950					-.1814	-.1773	-.1938			
.953				-.1465						
.955			-.1240							
.965		-.1751								

ALPHA (1) = -3.986 BETA (3) = 4.269 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4933	.0215	.0242	.1837	.3034	.1635	.0718	.0818	-.5595	
.010		.0357	.0928		.4744	.4230	.3827	.3127		
.020		.0257		.0000	.4168	.3611	.3308	.2738	-.4528	
.040			.1384	.2771						
.041	-.1165									
.050					.2365	.1896	.1657	.1171		
.069									-.5087	
.080					.0766					
.081				.1889						
.086			.2190							
.094		.0222								
.113	.0052									
.150					-.0962	-.1364	-.1111	-.2191		
.157									-.5519	
.163			.0000							
.177				-.0176						
.229		.1166								
.246			.0393							
.247	.0501									
.250					-.2594	-.3053	-.3590	-.4921		
.274				-.1433						
.345									-.3670	
.362		.1149								
.390			-.1221							
.400					-.2215	-.3269		-.6013		
.402				-.1972						
.418										-.2944
.429	.1181									
.497		-.0961								
.503									-.3559	
.547	.0005									
.550					-.2340	-.3772				
.565				-.1171						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (1) = -3.986 BETA (3) = 4.269

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								-.5375		
.633	-.1259									
.637			-.0685							
.650							-.4580			
.670									-.2777	
.700		-.0261				-.2842				
.723										-.4392
.765					-.2636					
.727	-.0458									
.750							-.4180	-.3485		
.760				-.2574						
.775					-.9210	-.5776				
.733	.0716									
.798			-.2463							
.808				-.9089						
.834		-.2628								
.833			-.9246							
.850					-.2958	-.2951	-.2659			
.857				-.3058						
.802									-.1573	
.865		-.8807								
.879			-.3327							
.900		-.4426			-.2585			-.2530		
.905				-.2471						
.919			-.2368							
.950					-.2241	-.2192	-.2292			
.953				-.2037						
.955			-.1929							
.965		-.1947								

ALPHA (2) = -.002 BETA (1) = -3.870 MACH = .89780 Q = 598.63 P = 1080.9 RN/L = 3.5706

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3631	.0462	.1051	.3753	.5445	.4807	.4442	.4506	-.3351	
.010		.0462	.1501		.4485	.4572	.4099	.2574		
.020		.0471		.0000	.3257	.2928	.2594	.1908	-.2831	
.043			.1873	.2014						
.041	-.1302									
.050					.0616	-.0013	-.0246	-.0716		
.069									-.3946	
.080					-.1608					

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (2) = -.002 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										
.081				.0347						
.086			.2191							
.094		.0084								
.113	-.0284									
.150					-.3801	-.4434	-.4168	-.4538		
.157									-.6895	
.163			.0000							
.177				-.2654						
.229		.1039								
.246			-.0996							
.247	.0253									
.250					-.5427	-.6381	-.6737	-.6775		
.274				-.4024						
.345									-.7315	
.362		.0346								
.390			-.3418							
.400					-.3548	-.6175		-.9579		
.402				-.4578						-.3056
.418										
.429	.0927									
.497		-.2533								
.503									-.7627	
.547	-.1128									
.560					-.2331	-.4053				
.565				-.1105						
.600								-.2342		
.633	-.3148									
.637			-.0478							
.650							-.1080			
.670									-.6125	
.700		-.0196				-.1072				
.723										-1.0535
.725					-.1512					
.727	-.0535									
.750							-.9106	-.8458		
.760				-.1857						
.775					-.8631	-.7438				
.793	.1082									
.798			-.1816							
.808				-.8501						
.834		-.1894								
.839			-.8246							
.850					-.2148	-.2168	-.2080			
.857				-.2329						
.862									-.3171	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (2) = -.002 BETA (1) = -3.870

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.865		-.7728								
.879			-.2516							
.900		-.3403			-.1467			-.0379		
.905				-.1272						
.919			-.1267							
.950					-.0897	-.0940	-.0254			
.953				-.0592						
.955			-.0693							
.965		-.1562								

ALPHA (2) = .000 BETA (2) = .184 MACH = .89780 Q = 598.63 P = 1060.9 RN/L = 3.5706

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4067	.0148	.0911	.3469	.4981	.4137	.3719	.3719	-.3410	
.010		-.0017	.1216		.3722	.3754	.3227	.1883		
.020		-.0126		.0000	.2605	.2203	.1865	.1214	-.3547	
.040			.1509	.1417						
.041	-.1923									
.060					.0128	-.0455	-.0758	-.1205		
.069									-.4365	
.080					-.1849					
.081				.0016						
.085			.1792							
.094		-.0163								
.113	-.0387									
.150					-.3781	-.4244	-.4140	-.4755		
.157									-.7238	
.163			.0000							
.177				-.2529						
.229		.0794								
.246			-.1129							
.247	.0084									
.250					-.4992	-.6120	-.6760	-.7011		
.274				-.3758						
.345									-.7259	
.352		.0134								
.390			-.3314							
.400					-.3328	-.4358		-.9285		
.402				-.4221						
.418										-.3656
.429	.0736									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (2) = .000 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										
.497		-.2586								
.503									-.4332	
.547	-.1221									
.550					-.2583	-.4346				
.565				-.1390						
.600								-.1918		
.633	-.2998									
.637			-.0829							
.650							-.2787			
.670									-.6356	
.700		-.0471				-.1999				
.723										-1.1572
.745					-.2229					
.727	-.0768									
.750							-.8503	-.4958		
.760				-.2172						
.775					-.9006	-.6411				
.793	.0647									
.798			-.2206							
.808				-.8290						
.834		-.2229								
.839			-.7629							
.850					-.2501	-.2442	-.2352			
.857				-.2483						
.862									-.3051	
.865		-.7848								
.879			-.2572							
.900		-.3739			-.2140			-.1933		
.905				-.1869						
.919			-.1802							
.950					-.1703	-.1643	-.1163			
.953				-.1443						
.955			-.1318							
.965		-.1578								

DATE 11 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (2) = -.010 BETA (3) = 4.247 MACH = .89780 Q = 598.63 P = 1060.9 RN/L = 3.5708

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2690	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4465	-.0336	.0546	.3110	.4496	.3622	.3208	.3095	-.3071	
.019		-.0429	.0839		.2868	.2949	.2368	.1023		
.020		-.0452		.0000	.1832	.1440	.1107	.0401	-.3948	
.040			.1224	.0938						
.041	-.2855									
.050					-.0374	-.0931	-.1286	-.1756	-.4800	
.069					-.2042					
.080										
.081				-.0239						
.096			.1497							
.094		-.0277								
.113	-.0453									
.150					-.3729	-.4236	-.4254	-.4972	-.7467	
.157										
.163			.0000							
.177				-.2405						
.229		.0685								
.246			-.1198							
.247	.0015									
.250					-.4892	-.6020	-.6641	-.7146		
.270				-.3225					-.6351	
.345										
.362		.0108								
.390			-.2834							
.400					-.3113	-.4411		-.7789		
.402				-.3738						-.4694
.418										
.429	.0646									
.497		-.2454							-.2595	
.503										
.547	-.1219									
.550					-.2817	-.4573				
.565				-.1621						
.600								-.3397		
.644	-.2760									
.647			-.1128							
.650							-.4384			
.670									-.5573	
.700		-.0738				-.2798				-1.1435
.723										
.725					-.2749					
.727	-.0973									
.750							-.7716	-.3816		
.760				-.2429						
.775					-.9306	-.5652				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (2) = -.010 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	.0281									
.798			-.2440							
.808				-.7916						
.834		-.2544								
.839			-.7528							
.850					-.2888	-.2864	-.2457			
.857				-.2856						
.862									-.3331	
.865		-.8124								
.879			-.3011							
.900		-.4179			-.2460			-.2756		
.905				-.2471						
.919			-.2421							
.950					-.2218	-.2137	-.1931			
.953				-.2114						
.955			-.2032							
.965		-.1967								

ALPHA (3) = 3.984 BETA (1) = -3.872 MACH = .89870 Q = 599.00 P = 1059.5 RN/L = 3.5709

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3014	-.0383	.0477	.4062	.6041	.5704	.5440	.4793	-.2118	
.010		-.0654	.0576		.1475	.1917	.0871	-.1647		
.020		-.0986		.0000	.0140	-.0251	-.0980	-.2417	-.5728	
.040			.0950	-.0540						
.041	-.1936									
.050					-.2571	-.3465	-.4081	-.5063		
.069									-.6569	
.080					-.4834					
.081				-.2309						
.086			.0931							
.094		-.0603								
.113	-.1090									
.150					-.7095	-.7430	-.7324	-.7494		
.157									-.9366	
.163			.0000							
.177				-.4839						
.229		.0494								
.245			-.2777							
.247	-.0168									
.250					-.7667	-.9361	-.9792	-.9596		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU31)

ALPHA (3) = 3.984 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				-.6050						
.345									-.9575	
.362		-.0736								
.390			-.5490							
.400					-.8727	-1.0319		-1.0105		
.402				-.7353						
.418										-.8414
.429	.0397									
.497		-.4299								
.503									-.7769	
.547	-.2125									
.550					-.2923	-.6494				
.565				-.2124						
.600								-.6747		
.633	-.5211									
.637			-.1359							
.650							-.5960			
.670									-.5314	
.700		-.1457				-.1157				
.733										-.5306
.725					-.1767					
.727	-.1964									
.750							-.5065	-.4881		
.760				-.1732						
.775					-.8365	-.8143				
.793	.0826									
.798			-.1668							
.808				-.6259						
.824		-.1831								
.843			-.7469							
.900					-.2162	-.1901	-.3129			
.857				-.2092						
.882									-.5174	
.885		-.8148								
.879			-.2223							
.900		-.3262			-.1054			-.4407		
.905				-.0987						
.919			-.0995							
.950					-.0138	-.0408	-.1671			
.953				-.0207						
.965			-.0294							
.985		-.1118								

AMES 11-073(OA148) -140A/B/C/R ORd LEFT WING TOP (XEBU31)

ALPHA (3) = 3.983 BETA (2) = .184 MACH = .89870 Q = 599.00 P = 1059.5 PW/L = 3.5709

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	-.3595	-.1528	-.0596	.3067	.5161	.4790	.4463	.3739	-.3479	
.010		-.1916	-.0237		.0376	.0784	-.0316	-.2607		
.020		-.1632		.0000	-.0741	-.1255	-.2042	-.3425	-.6751	
.040			.0370	- 1129						
.041	-.3556									
.050					-.3210	-.4095	-.4825	-.5786		
.069									-.7328	
.080					-.5253					
.081				-.2752						
.085			.0486							
.094		-.0842								
.113	-.1132									
.150					-.7242	-.7749	-.7673	-.7953		
.157									-.9803	
.163			.0000							
.177				-.4864						
.209		.0281								
.246			-.2871							
.247	-.0355									
.250					-.7598	-.9246	-.9917	-.9901		
.274				-.5958						
.345									-1.0592	
.382		-.0859								
.390			-.5428							
.400					-.8055	-1.0076		-1.1273		
.402				-.6991						
.418										-1.0376
.429	.0200									
.497		-.4259								
.503									-.8485	
.547	-.2260									
.560					-.3276	-.3846				
.585				-.2140						
.600								-.6791		
.633	-.5232									
.637			-.1598							
.650							-.3282			
.670									-.6300	
.700		-.1359				-.1576				
.723										-.6340
.725					-.2187					
.727	-.1745									
.750							-.7518	-.5748		
.760				-.2235						
.775					-.9026	-.5802				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBJ31)

ALPHA (3) = 3.983 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	.0574									
.799			-.2191							
.808				-.7073						
.834		-.2417								
.839			-.7215							
.850					-.2192	-.2173	-.1939			
.857				-.2309						
.862									-.6331	
.865		-.9071								
.879			-.2554							
.900		-.3907			-.1660			-.4840		
.905				-.1552						
.913			-.1711							
.950					-.1200	-.1427	-.0189			
.953				-.1258						
.955			-.1251							
.965		-.1462								

ALPHA (3) = 3.979 BETA (3) = 4.243 MACH = .8997 Q = 599.00 P = 1059.5 PT/L = 3.5709

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4220	-.2746	-.1683	.1857	.4203	.3769	.3454	.2541	-.5738	
.010		-.2552	-.0716		-.0810	-.0511	-.1627	-.3954		
.020		-.2045		.0000	-.1773	-.2344	-.3261	-.4892	-.8294	
.040			.0072	-.1734						
.041	-.5015									
.050					-.3851	-.4840	-.5698	-.6756		
.069									-.8247	
.080					-.5515					
.081				-.3012						
.086			.0157							
.094		-.0984								
.113	-.1153									
.150					-.7242	-.7975	-.7958	-.8429		
.157									-1.0325	
.163			.0000							
.177				-.4877						
.223		-.0031								
.246			-.2740							
.247	-.0405									
.250					-.7341	-.8635	-.9992	-1.0185		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (3) = 3.979 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										
.274				-.5756						
.345									-1.1219	
.362		-.0930								
.390			-.5128							
.400					-.6635	-.9568		-1.1466		
.402				-.6402						
.418										-1.2948
.429	.0144									
.497		-.4266								
.503									-1.1297	
.547	-.2237									
.550					-.3296	-.4638				
.565				-.2373						
.600								-.6541		
.633	-.4918									
.637			-.1883							
.650							-.3460			
.670									-.9969	
.700		-.1269				-.2819				
.723										-1.0021
.725					-.2943					
.727	-.1678									
.750							-.8768	-.7000		
.760				-.2551						
.775					-.6254	-.5377				
.793	.0121									
.798			-.2467							
.808				-.6080						
.834		-.2732								
.839			-.9049							
.850					-.2787	-.2672	-.2557			
.857				-.2960						
.862									-.8622	
.865		-.8714								
.879			-.3245							
.900		-.4993			-.2806			-.3160		
.905				-.2585						
.919			-.2484							
.950					-.2503	-.1966	-.0355			
.953				-.2287						
.955			-.2082							
.965		-.2278								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (4) = 8.057 BETA (1) = -3.860 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2657	-.3036	-.2878	.1925	.4728	.4512	.4072	.2718	-.6458	
.010		-.3844	-.2164		-.3034	-.2128	-.3585	-.6231		
.020		-.3147		.0000	-.3950	-.4327	-.5234	-.7245	-.9756	
.040			-.1087	-.3942						
.041	-.2132									
.050					-.6171	-.6740	-.7798	-.9271		
.069									-.7789	
.080					-.7985					
.091				-.5471						
.095			-.0862							
.094		-.1479								
.113	-.1653									
.150					-1.0086	-1.0616	-1.0793	-1.0150		
.157									-.7223	
.163			.0000							
.177				-.6797						
.229		-.0084								
.246			-.4398							
.247	-.0778									
.250					-1.0272	-1.1525	-1.0056	-.9913		
.274				-.7709						
.345									-.7409	
.362		-.1659								
.390			-.6686							
.400					-1.0338	-1.0166		-.8927		
.402				-.9084						
.418										-.7392
.429	-.0032									
.497		-.5432								
.503									-.7079	
.547	-.3365									
.550					-.4455	-.7801				
.565				-.4058						
.600								-.7010		
.633	-.6939									
.637			-.1982							
.650							-.6758			
.670									-.5933	
.700		-.2591				-.6221				
.723										-.5823
.725					-.3150					
.727	-.3869									
.750							-.5520	-.6088		
.760				-.1737						
.775					-.8629	-.5688				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (4) = 8.057 BETA (1) = -3.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1011									
.798			-.1717							
.808				-.8367						
.834		-.1837								
.839			-.8828							
.850					-.3483	-.3765	-.5066			
.857				-.4506						
.862									-.5741	
.865		-.8917								
.879			-.4643							
.900		-.5041			-.2019			-.6034		
.905				-.1664						
.919			-.2385							
.950					-.0803	-.2646	-.4605			
.953				-.0321						
.955			-.0969							
.965		-.1486								

ALPHA (4) = 8.064 BETA (2) = .187 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3579	-.4918	-.4045	.0106	.3307	.3096	.2620	.1275	-.9008	
.010		-.4913	-.1979		-.4394	-.3590	-.5120	-.7611		
.020		-.3707		.0000	-.5085	-.5437	-.6420	-.8391	-.8465	
.040			-.0816	-.4517						
.041	-.3996									
.050					-.6793	-.7641	-.8669	-1.0190		
.063									-.7348	
.080					-.8400					
.081				-.5929						
.086			-.0719							
.094		-.1982								
.113	-.2047									
.150					-.9789	-1.0906	-1.1328	-1.0744		
.157									-.7281	
.163			.0000							
.177				-.6676						
.229		-.1335								
.246			-.4255							
.247	-.0684									
.250					-.9972	-1.1837	-1.0610	-1.0526		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U31)

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

ALPHA (4) = 8.064 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										
.274				-.7444					-.7575	
.345										
.362		-.1885								
.390			-.6668							
.400					-1.0184	-1.0315		-.9501		
.402				-.8825						-.7291
.418										
.429	-.0079									
.497		-.5711							-.7471	
.503										
.547	-.3486									
.550					-.4465	-.7347				
.565				-.3534				-.7261		
.600										
.633	-.7083									
.637			-.2339				-.6593			
.650									-.6318	
.670						-.6264				
.700		-.2458								-.6227
.723					-.2744					
.725										
.727	-.3498						-.5783	-.6449		
.750										
.760				-.1889						
.775					-.8917	-.6394				
.793	.0175									
.798			-.2187							
.808				-.9026						
.834		-.2093								
.839			-.9685							
.850					-.4871	-.3609	-.5392			
.857				-.5874					-.6140	
.862										
.865		-.8453								
.879			-.6727					-.6224		
.900		-.5899			-.2366					
.905				-.2182						
.919			-.2585							
.950					-.0921	-.2258	-.4814			
.953				-.0871						
.955			-.1461							
.965		-.2500								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (4) = 8.059 BETA (3) = 4.245 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4319	-.5919	-.2377	-.1535	.1750	.1597	.0930	-.0494	-.9259	
.010		-.3742	-.1813		-.5807	-.5201	-.6952	-.9323		
.020		-.3329		.0000	-.6421	-.6764	-.8098	-1.0019	-.8305	
.040			-.1584	-.4047						
.041	-.5105									
.050					-.7308	-.8637	-.9735	-1.1366		
.069									-.7793	
.080					-.8519					
.081				-.4830						
.085			-.1707							
.094		-.3211								
.113	-.2052									
.150					-.9290	-1.1267	-1.1851	-1.1478		
.157									-.7686	
.163			.0000							
.177				-.5997						
.229		-.2455								
.246			-.5359							
.247	-.0958									
.250					-.9245	-1.1765	-1.1240	-1.1227		
.274				-.7040						
.345									-.7639	
.362		-.1072								
.390			-.6993							
.400					-.9593	-1.0352		-.7703		
.402				-.8334						
.418										-.7625
.429	-.0263									
.497		-.5416								
.503									-.7805	
.547	-.3432									
.550					-.4740	-.7359				
.565				-.3324						
.600								-.7583		
.633	-.6840									
.637			-.2728							
.650							-.6284			
.670									-.6672	
.700		-.2427				-.4347				
.723										-.6640
.725					-.2148					
.727	-.3244									
.750							-.6968	-.6822		
.760				-.2507						
.775					-.9438	-.7945				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (4) = 8.059 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	-.0416									
.798			-.2174							
.808				-.9953						
.834		-.2340								
.839			-.8772							
.850					-.5222	-.4376	-.6025			
.857				-.6411					-.6509	
.862										
.865		-.7980								
.873			-.7071							
.300		-.5990			-.2625			-.6512		
.905				-.2980						
.919			-.3063							
.950					-.1821	-.2441	-.5121			
.953				-.1866						
.955			-.1957							
.965		-.3102								

ALPHA (5) = 11.980 BETA (1) = -3.854 MACH = .89717 Q = 598.01 P = 1061.4 RN/L = 3.5714

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2855	-.6971	-.5310	-.1932	.2177	.1945	.1378	-.0175	-.8794	
.010		-.6795	-.2589		-.7300	-.6272	-.7986	-.9984		
.020		-.5837		.0000	-.8426	-.8167	-.9414	-.9674	-.7579	
.040			-.1883	-.6621						
.041	-.2597									
.050					-.9806	-1.0221	-1.0446	-.9634		
.069									-.6973	
.080					-1.0748					
.081				-.7460						
.086			-.1822							
.094		-.3767								
.113	-.2476									
.150					-1.1691	-1.1234	-.9243	-.9021		
.157									-.6812	
.163			.0000							
.177				-.7984						
.229		-.2279								
.245			-.5587							
.247	-.1130									
.250					-1.1033	-1.0492	-.9369	-.7747		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (5) = 11.980 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				-.8571						
.345									-.6888	
.362		-.3866								
.390			-.7682							
.400					-.9025	-.8971		-.6961		
.402				-.9294						
.418										-.6815
.429	-.0291									
.497		-.7723								
.503									-.7174	
.547	-.4846									
.550					-.7413	-.8307				
.565				-.5269						
.600								-.6926		
.633	-.8348									
.637			-.3242							
.650							-.7264			
.670									-.5971	
.700		-.2711				-.7361				
.723										-.6008
.725					-.5387					
.727	-.3146									
.750							-.6765	-.6116		
.760				-.2603						
.775					-.8781	-.6661				
.793	.0377									
.798			-.2674							
.808				-.9923						
.834		-.2391								
.839			-.9955							
.850					-.4554	-.5371	-.6377			
.857				-.5491						
.862									-.5902	
.865		-.7998								
.879			-.8182							
.900		-.7042			-.4214			-.6086		
.905				-.3136						
.919			-.3294							
.950					-.3280	-.4711	-.6266			
.953				-.2004						
.955			-.2143							
.965		-.2962								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (S) = 11.990 BETA (2) = .184 MACH = .89717 Q = 598.01 P = 1061.4 RN/L = 3.5714

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X Cw										
.000	-.3979	-.7875	-.3389	-.3859	.0336	.0138	-.0457	-.1971	-.9504	
.018		-.5391	-.2892		-.8870	-.7808	-.9308	-.9740		
.020		-.4938		.0000	-.9877	-.9657	-1.0815	-.8445	-.7789	
.040			-.2731	-.5536						
.041	-.4628									
.050					-1.0903	-1.1259	-1.1119	-.8232		
.069									-.7298	
.080					-1.1404					
.081				-.6304						
.085			-.2655							
.094		-.4824								
.113	-.2730									
.150					-1.2197	-1.1125	-1.0142	-.7969		
.157									-.7068	
.163			.0000							
.177				-.7446						
.229		-.6052								
.246			-.5783							
.247	-.1694									
.253					-1.0369	-.9763	-.9170	-.7784		
.274				-.8468						
.315									-.7161	
.352		-.3177								
.380			-.7828							
.463					-.9063	-.9142		-.7457		
.502				-.9597						
.518										-.7149
.529	-.0734									
.537		-.7479								
.603									-.7286	
.647	-.5057									
.650					-.7581	-.8641				
.665				-.4226						
.680								-.7199		
.683	-.8584									
.687			-.3695							
.650							-.7530			
.670									-.6319	
.700		-.3141				-.7390				
.723										-.6266
.725					-.4176					
.727	-.3189									
.750								-.6606		
.760				-.2984						
.775					-1.0308	-.6709				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (5) = 11.990 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	.0173									
.798			-.2954							
.808				-1.0548						
.834		-.2696								
.839			-.9149							
.850					-.4557	-.5361	-.6878			
.857				-.8274						
.862									-.6203	
.865		-.7690								
.879			-.8332							
.900		-.6910			-.3444			-.6489		
.905				-.3720						
.919			-.5187							
.950					-.2506	-.4762	-.6682			
.953				-.2364						
.955			-.2779							
.965		-.4446								

ALPHA (5) = 11.975 BETA (3) = 4.259 MACH = .89717 Q = 598.01 P = 1061.4 RN/L = 3.5714

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5072	-.7338	-.3677	-.5423	-.1360	-.1617	-.2334	-.3869	-.8638	
.010		-.6199	-.3410		-1.0125	-.9295	-1.0809	-.8818		
.020		-.6324		.0000	-1.0978	-1.0949	-1.0484	-.8804	-.8081	
.040			-.3284	-.4563						
.041	-.6230									
.050					-1.1524	-1.2247	-.9804	-.8586		
.069									-.7560	
.080					-1.1251					
.081				-.5657						
.086			-.3208							
.094		-.6014								
.113	-.2409									
.150					-1.0880	-1.0783	-.8757	-.7986		
.157									-.7427	
.163			.0000							
.177				-.6739						
.229		-.6471								
.245			-.6053							
.247	-.2473									
.250					-.9854	-.9499	-.8510	-.7958		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U31)

ALPHA (5) = 11.975 BETA (3) = 4.259

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8067						
.345									-.7539	
.362		-.3041								
.390			-.8086							
.400					-.7213	-.8706		-.7849		
.422				-.9680						
.428										-.7441
.429	-.1052									
.497		-.7279								
.503									-.7740	
.547	-.4926									
.560					-.6404	-.8298				
.585				-.4000						
.600								-.7703		
.633	-.8505									
.637			-.3062							
.660							-.8032			
.670									-.6797	
.700		-.2580				-.7496				
.703										-.6693
.735					-.3960					
.737	-.3012									
.750							-.7685	-.6998		
.750				-.3855						
.775					-1.0912	-.8227				
.793	.0033									
.799			-.3208							
.808				-1.0733						
.834		-.2838								
.839			-.9596							
.860					-.6712	-.5367	-.7268			
.867				-.9483						
.882									-.6588	
.885		-.8063								
.879			-.7795							
.900		-.7414			-.4468			-.6946		
.905				-.5719						
.919			-.7092							
.950					-.3297	-.4090	-.6901			
.953				-.3425						
.955			-.3961							
.965		-.6300								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32) (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 = -10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = .000 MACH = .600

ALPHA (1) = -4.052 BETA (1) = -7.850 MACH = .59664 Q = 594.68 P = 2386.3 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	-.1494	-.1366	-.2634	-.0706	.1569	.0819	.0599	.1644	-.6295	
.010		-.0052	-.0316		.5947	.5994	.5778	.5025		
.020		.0307		.0000	.5336	.5240	.4944	.4505	-.0862	
.040			.1133	.3524						
.041	.0331									
.050					.3004	.2770	.2548	.2095		
.069									-.1234	
.080					.0964					
.081				.2141						
.086			.2574							
.094		.0575								
.113	.0516									
.150					-.1284	-.1578	-.2240	-.1865		
.157									-.2048	
.163			.0000							
.177				-.0553						
.229		.1451								
.246			.0239							
.247	.0731									
.250					-.2804	-.3447	-.3967	-.4330		
.274				-.1853						
.345									-.2427	
.362		.0954								
.390			-.1441							
.400					-.2416	-.3242		-.4044		
.402				-.2028						
.418										-.2889
.429	.1167									
.497		-.1077								
.503									-.3223	
.547	-.0169									
.550					-.1897	-.2669				
.565				-.0989						
.600								-.3186		
.633	-.1114									
.637			-.0531							
.650							-.2777			
.670									-.3050	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (1) = -4.052 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										
.700		-.0076				-.2232				
.723										-.2218
.725					-.2121					
.727	-.0216									
.750							-.4094	-.2912		
.700				-.2245						
.775					-.4930	-.3307				
.793	.1046									
.799			-.1913							
.808				-.3119						
.834		-.1785								
.839			-.2807							
.850					-.1012	-.0891	-.0897			
.857				-.1208						
.862									-.0767	
.865		-.4322								
.879			-.1309							
.900		-.1765			-.0361			-.0285		
.905				-.0428						
.919			-.0703							
.950					.0333	.0015	.0300			
.903				.0147						
.905			-.0198							
.955		-.0707								

ALPHA (1) = -4.035 BETA (2) = -3.835 MACH = .59664 Q = 594.68 P = 2386.3 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	-.1520	-.0914	-.1823	-.0186	.1291	.0343	-.0114	.0934	-.5764	
.010		-.0010	-.0129		.5275	.5268	.4975	.4319		
.020		.0156		.0000	.4718	.4577	.4298	.3821	-.1512	
.040			.0950	.2998						
.041	-.0159									
.050					.2580	.2352	.2104	.1649		
.069									-.1785	
.080					.0670					
.081				.1728						
.085			.2234							
.094		.0283								
.113	.0134									
.150					-.1448	-.1714	-.2287	-.2079		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U32)

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

ALPHA (1) = -4.036 BETA (2) = -3.835

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									-.2365	
.163			.0000							
.177				-.0726						
.229		.1183								
.246			-.0026							
.247	.0460				-.2916	-.3508	-.4006	-.4373		
.250				-.1961						
.274									-.2360	
.345										
.392		.0716								
.500			-.1669		-.2673	-.3424		-.4118		
.400										
.402				-.2270						-.2707
.418										
.429	.0911									
.497		-.1309							-.3013	
.503										
.547	-.0390				-.2259	-.2914				
.550										
.565				-.1388				-.3207		
.600										
.633	-.1476									
.637			-.0935				-.2875			
.650									-.2741	
.670						-.2453				
.700		-.0512								-.2435
.723					-.2399					
.725										
.727	-.0669						-.4196	-.2803		
.750										
.760				-.2451						
.775					-.5256	-.3546				
.793	.0608									
.798			-.2131							
.808				-.3460						
.834		-.2048								
.839			-.3120		-.1242	-.1038	-.1045			
.850										
.857				-.1419					-.0632	
.862										
.865		-.4490								
.879			-.1435							
.900		-.1908			-.0526			-.0502		
.905				-.0657						
.919			-.0798							

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (1) = -4.036 BETA (2) = -3.835

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	3720	1.0000
X/CW										
.950					.0224	-.0111	.0129			
.953				.0037						
.955			-.0303							
.965		-.0763								

ALPHA (1) = -4.020 BETA (3) = .192 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	..0003
X/CW										
.000	-.1522	-.0493	-.0915	.0285	.1282	.0080	-.0478	.0281	-.5499	
.010		.0006	.0177		.4640	.4535	.4280	.3644		
.020		.0044		.0000	.4096	.3912	.3677	.3225	-.2097	
.040			.0872	.2512						
.041	-.0544									
.060					.2097	.1844	.1690	.1290	-.2287	
.069										
.080					.0329					
.081				.1481						
.086			.1873							
.094		.0001								
.113	-.0209									
.150					-.1579	-.1883	-.2260	-.2207	-.2592	
.157										
.163			.0000							
.177				-.0753						
.229		0942								
.246			-.0216							
.247	.0233									
.250					-.3052	-.3580	-.4018	-.4284		
.274				-.2119						
.345									-.2287	
.362		.0561								
.390			-.1876							
.400					-.2900	-.3611		-.4126		
.402				-.2513						
.418										-.2505
.429	.0708									
.437		-.1492							-.2832	
.513										
.517	-.0596									
.560					-.2522	-.3162				
.565				-.1759						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (1) = -4.020 BETA (3) = .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										
.600								-.3171		
.633	-.1747									
.637			-.1333							
.650							-.2961			
.670									-.2412	
.700		-.0852				-.2596				
.723										-.2466
.725					-.2637					
.727	-.1045									
.750							-.4136	-.2611		
.760				-.2668						
.775					-.5540	-.3699				
.793	0193									
.798			-.2358							
.808				-.3763						
.834		-.2255								
.839			-.3357							
.850					-.1448	-.1208	-.1160			
.857				-.1669						
.862									-.0484	
.865		-.4686								
.879			-.1626							
.900		-.2044			-.0668			-.0747		
.905				-.0798						
.918			-.0892							
.950					.0128	-.0091	.0019			
.953				-.0063						
.955			-.0330							
.965		-.0756								

ALPHA (1) = -4.028 BETA (4) = 4.273 MACH = .59664 Q = 594.68 P = 2386.3 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	-.1627	-.0216	-.0350	.0777	.1338	.0146	-.0403	.0242	-.4501	
.010		-.0038	.0252		.4001	.3835	.3551	.2901		
.020		-.0065		.0000	.3460	.3167	.2942	.2446	-.2410	
.040			.0816	.2088						
.041	-.0869									
.050					.1598	.1295	.1015	.0655		
.069									-.2592	
.080					-.0012					

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (1) = -4.028 BETA (4) = 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										
.081				.1093						
.086			.1632							
.034		-.0155								
.113	-.0397									
.150					-.1770	-.2123	-.2492	-.2583		
.157									-.2751	
.163			.0000							
.177				-.0934						
.229		.0804								
.246			-.0365							
.247	.0075									
.250					-.3185	-.3672	-.4148	-.4437		
.274				-.2201						
.345									-.2299	
.362		.0388								
.390			-.1907							
.400					-.3092	-.3689		-.4183		
.402				-.2746						
.418										-.1733
.429	.0555									
.497		-.1646								
.503									-.2710	
.547	-.0737									
.550					-.2836	-.3306				
.565				-.2093						
.600								-.3052		
.633	-.1970									
.637			-.1657							
.650							-.3014			
.670									-.2161	
.700		-.1263				-.2727				
.723										-.3038
.725					-.2841					
.727	-.1405									
.750							-.4094	-.2502		
.760				-.2902						
.775					-.5767	-.3838				
.793	-.0083									
.798			-.2594							
.818				-.4013						
.834		-.2487								
.839			-.3579							
.850					-.1525	-.1327	-.1174			
.857				-.1762						
.862									-.0505	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (1) = -4.028 BETA (4) = 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										
.865		-.4942								
.879			-.1820							
.900		-.2240			-.0723			-.0912		
.905				-.0887						
.919			-.0988							
.950					.0072	-.0114	-.0167			
.953				-.0113						
.955			-.0402							
.965		-.0814								

ALPHA (1) = -4.045 BETA (5) = 8.346 MACH = .59664 Q = 594.68 P = 2386.3 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	-.1648	-.0234	.0216	.1298	1568	.0243	-.0449	.0058	-.3988	
.010		-.0148	.0533		.3347	.3134	.2792	.2179		
.020		-.0234		.0000	.2903	.2432	.2255	.1729	-.2568	
.040			.0901	.1536						
.041	-.1107									
.050					.1180	.0720	.0475	.0164		
.069									-.2829	
.080					-.0381					
.081				.0739						
.086			.1456							
.094		-.0255								
.113	-.0583									
.150					-.1963	-.2280	-.2613	-.2762		
.157									-.2821	
.163			.0000							
.177				-.1092						
.229		.0669								
.246			-.0577							
.247	.0035									
.250					-.3268	-.3752	-.4113	-.4452		
.274				-.2309						
.345									-.2223	
.362		.0261								
.390			-.2104							
.400					-.3207	-.3759		-.4032		
.402				-.2907						
.418										-.1329
.429	.0477									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (1) = -4.045 BETA (5) = 8.346

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		-.1763							-.2445	
.503										
.547	-.0873									
.550					-.3107	-.3462				
.565				-.2323						
.600								-.2947		
.633	-.2160									
.637			-.2055							
.650							-.3013			
.670									-.1930	
.700		-.1583				-.2873				
.723										-.3746
.725					-.3055					
.727	-.1776									
.750							-.4047	-.2314		
.760				-.3013						
.775					-.5995	-.3930				
.793	-.0499									
.798			-.2789							
.808				-.4206						
.834		-.2677								
.839			-.3697							
.850					-.1691	-.1352	-.1197			
.857				-.1888						
.862									-.0347	
.865		-.4911								
.879			-.1866							
.900		-.2308			-.0805			-.0924		
.905				-.0954						
.919			-.1064							
.950					.0004	-.0139	-.0240			
.953				-.0209						
.955			-.0483							
.965		-.0881								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (2) = .034 BETA (1) = -7.883 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = .8132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0671	.0520	.0744	.3127	.5168	.5056	.4949	.5372	-.0556	
.010		.0759	.1343		.4269	.4608	.3949	.2027		
.020		.0598		.0000	.2956	.2612	.2054	.1125	-.1607	
.040			.1749	.1508						
.041	-.0022									
.050					-.0049	-.0606	-.1086	-.1643		
.069									-.2873	
.080					-.2203					
.081				-.0323						
.086			.2013							
.094		.0199								
.113	.0113									
.150					-.3870	-.4699	-.5552	-.4878		
.157									-.4238	
.163			.0000							
.177				-.2761						
.229		.0852								
.246			-.1527							
.247	.0350									
.250					-.4778	-.5721	-.6416	-.6966		
.274				-.3507						
.345									-.4710	
.362		-.0271								
.390			-.2794							
.400					-.3374	-.4294		-.5346		
.402				-.3018						
.418										-.0852
.429	.0428									
.497		-.2305								
.503									-.5323	
.547	-.1310									
.550					-.2298	-.3181				
.565				-.1414						
.600								-.3766		
.633	-.2002									
.637			-.0768							
.650							-.3023			
.670									-.4159	
.700		-.0406				-.2300				
.723										-1.0333
.725					-.2087					
.727	-.0630									
.750							-.4122	-.3353		
.760				-.2073						
.775					-.4646	-.3212				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (2) = .034 BETA (1) = -7.883

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	.0816									
.798			-.1828							
.808				-.2943						
.834		-.1724								
.839			-.2680							
.850					-.0920	-.0866	-.0923			
.857				-.1033						
.862									-.2856	
.865		-.4017								
.879			-.1186							
.900		-.1702			-.0187			-.0488		
.905				-.0349						
.919			-.0571							
.950					.0422	.0094	.0324			
.953				.0279						
.955			-.0067							
.965		-.0533								

ALPHA (2) = .043 BETA (2) = -3.857 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0978	.0334	.0735	.3053	.4794	.4556	.4445	.4698	-.0890	
.010		.0365	.1172		.3447	.3826	.3052	.1170		
.020		.0156		.0000	.2184	.1874	.1273	.0271	-.2279	
.040			.1407	.0937						
.041	-.0581									
.050					-.0590	-.1106	-.1675	-.2203		
.069									-.3325	
.080					-.2571					
.081				-.0670						
.086			.1538							
.094		-.0124								
.113	-.0278									
.150					-.4050	-.4648	-.5684	-.4957		
.157									-.4314	
.163			.0000							
.177				-.2913						
.229		.0572								
.245			-.1788							
.247	-.0016									
.250					-.4858	-.5733	-.6532	-.6952		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U32)

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

ALPHA (2) = .043 BETA (2) = -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				-.3640					-.4509	
.345										
.362		-.0510								
.390			-.3040							
.400					-.3654	-.4588		-.5362		
.402				-.3350						-.1567
.418										
.429	.0185									
.497		-.2549							-.4933	
.503										
.547	-.1596									
.550					-.2700	-.3408				
.565				-.1833						
.600								-.3763		
.633	-.2449									
.637			-.1283							
.650							-.3143			
.670									-.3985	
.700		-.0897				-.2558				-1.1319
.723										
.725					-.2357					
.727	-.1082									
.750							-.4152	-.3268		
.760				-.2409						
.775					-.4972	-.3472				
.793	.0325									
.798			-.2056							
.808				-.3293						
.834		-.1920								
.839			-.2925							
.850					-.1201	-.1087	-.1086			
.857				-.1362						
.862									-.3415	
.865		-.4226								
.879			-.1342							
.900		-.1825			-.0458			-.0625		
.905				-.0575						
.919			-.0732							
.950					.0250	-.0009	.0113			
.953				.0093						
.955			-.0214							
.965		-.0741								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (2) = .045 BETA (3) = .186 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

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	-.1244	-.0048	.0503	.2812	.4394	.4002	.3862	.3981	-.1307	
.010		-.0181	.0778		.2627	.2863	.2237	.0511		
.020		-.0297		.0000	.1487	.1138	.0648	-.0257	-.2700	
.040			.1024	.0395						
.041	-.1059									
.050					-.0968	-.1571	-.2113	-.2583		
.069									-.3572	
.080					-.2820					
.081				-.0939						
.096			.1124							
.094		-.0474								
.113	-.0650									
.150					-.4161	-.4746	-.5513	-.5022		
.157									-.4230	
.163			.0000							
.177				-.3010						
.223		.0345								
.246			-.1925							
.247	-.0211									
.250					-.4948	-.5778	-.6335	-.6759		
.274				-.3732						
.345									-.4207	
.362		-.0725								
.390			-.3192							
.400					-.3873	-.4692		-.5258		
.402				-.3539						
.418										-.2238
.429	-.0040									
.497		-.2680								
.503									-.4477	
.547	-.1790									
.560					-.3015	-.3658				
.565				-.2208						
.600								-.3723		
.633	-.2676									
.637			-.1706							
.650							-.3238			
.670									-.3790	
.700		-.1337				-.2660				
.723										-1.2202
.725					-.2665					
.727	-.1465									
.750							-.4074	-.3171		
.761				-.2666						
.775					-.5225	-.3629				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (2) = .045 BETA (3) = .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	-.0074									
.798			-.2332							
.808				-.3624						
.834		-.2220								
.839			-.3178							
860					-.1413	-.1231	-.1241			
.867				-.1577						
882									-.2873	
885		- 4347								
913			-.1658							
922		-.2118			-.0650			-.0772		
935				-.0805						
919			-.0902							
950					.0062	-.0141	-.0216			
.953				- 0080						
975			- 0396							
.985		- 0791								

ALPHA (2) = .041 BETA (3) = 4.251 MACH = .59622 Q = 593.85 P = 2385.3 RN/L = .5138

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1672	- 0542	.0223	.2483	.4002	.3581	.3387	.3321	-.1849	
.010		-.0527	.0402		.1736	.1990	.1225	-.0550		
.020		- 0870		.0000	.0700	.0313	-.0265	-.1312	-.3411	
.040			.0712	-.0131						
.047	-.1338									
.050					-.1494	-.2125	-.2710	-.3310		
.069									-.4018	
090					-.3148					
.091				-.1245						
096			.0833							
.094		-.0590								
.113	-.0842									
150					-.4286	-.4893	-.5698	-.5306		
.157									-.4385	
.163			.0000							
.177				-.3020						
.229		.0185								
.245			-.2047							
.247	-.0330									
280					-.5031	-.5771	-.6380	-.6733		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (2) = .041 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										
.274				-.3793						
.345									-.4063	
.362		-.0796								
.390			-.3244							
.400					-.4089	-.4822		-.5212		
.402				-.3744						
.418										-.3561
.429	-.0126									
.497		-.2824								
.533									-.4336	
.547	-.1830									
.550					-.3354	-.3818				
.555				-.2520						
.600								-.3616		
.633	-.2910									
.637			-.2126							
.650							-.3251			
.670									-.4035	
.700		-.1708				-.2762				
.723										-1.4176
.725					-.2896					
.727	-.1823									
.750							-.3861	-.3057		
.760				-.2850						
.775					-.5433	-.3699				
.793	-.0467									
.798			-.2559							
.808				-.3847						
.834		-.2410								
.849			-.3347							
.850					-.1550	-.1352	-.1367			
.857				-.1751						
.892									-.3553	
.895		-.4516								
.879			-.1301							
.900		-.2301			-.0759			-.0919		
.905				-.0927						
.919			-.1040							
.950					-.0073	-.0248	-.0476			
.953				-.0254						
.955			-.0575							
.965		-.0981								

AMES 11-073(OA148) -140A, W/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (2) = .035 BETA (5) = 8.312 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2159	-.1385	-.0474	.1896	.3531	.3023	.2756	.2523	-.2461	
.010		-.1254	-.0062		.0782	.1040	.0366	-.1490		
.020		-.1159		.0000	-.0144	-.0567	-.1020	-.2116	-.3906	
.040			.0304	-.0617						
.041	-.1698									
.050					-.2053	-.2594	-.3083	-.3781		
.069									-.4280	
.080					-.3383					
.081				-.1600						
.086			.0456							
.094		-.0771								
.113	-.1003									
.150					-.4279	-.4931	-.5625	-.5357		
.157									-.4380	
.163			.0000							
.177				-.3080						
.229		.0073								
.246			-.2131							
.247	-.0375									
.250					-.5046	-.5744	-.6277	-.6611		
.274				-.3797						
.345									-.3757	
.352		-.0806								
.390			-.3298							
.400					-.4218	-.4891		-.5102		
.402				-.3901						
.418										-.4776
.429	-.0200									
.497		-.2932								
.503									-.3982	
.547	-.1925									
.550					-.3578	-.3930				
.565				-.2823						
.600								-.3560		
.633	-.3092									
.637			-.2474							
.650							-.3276			
.670									-.4121	
.700		-.2065				-.2949				
.723										-1.3846
.725					-.3137					
.727	-.2168									
.750							-.3786	-.2818		
.760				-.3033						
.775					-.5650	-.3830				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (2) = .035 BETA (5) = 8.312

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0804									
.798			-.2778							
.808				-.3917						
.834		-.2601								
.839			-.3506							
.850					-.1687	-.1456	-.1493			
.857				-.1875					-.3584	
.862										
.866		-.4572								
.879			-.1942							
.900		-.2518			-.0886			-.1082		
.905				-.0991						
.919			-.1172							
.950					-.0183	-.0372	-.0625			
.953				-.0372						
.955			-.0650							
.985		-.1110								

ALPHA (3) = 4.014 BETA (1) = -7.879 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0410	.0435	.0902	.3877	.5949	.5766	.5443	.4462	-.1762	
.010		-.0037	.0859		.0116	.0265	-.1527	-.5018		
.020		-.0248		.0000	-.1423	-.2275	-.3714	-.5711	-.6754	
.040			.0819	-.1631						
.041	-.0533									
.050					-.4291	-.5694	-.6806	-.7703	-.7780	
.069					-.6481					
.080				-.3446						
.081			.0475							
.086		-.0523								
.094	-.0304									
.113					-.7070	-.8330	-.9803	-.8623	-.9060	
.150										
.157			.0000							
.163				-.5266						
.177										
.229		.0072								
.246			-.3575							
.247	-.0088				-.6844	-.8289	-.9299	-1.0058		
.250										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (3) = 4.014 BETA (1) = -7.879

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				-.5252						
.345									-.8833	
.352		-.1612								
.390			-.4198							
.400					-.4254	-.5409		-.6678		
.402				-.3941						
.418										-.7808
.429	-.0295									
.497		-.3509								
.503									-.8967	
.547	-.2674									
.550					-.2629	-.3643				
.565				-.1692						
.600								-.4753		
.633	-.2957									
.637			-.1102							
.650							-.3337			
.670									-.8043	
.700		-.0896				-.2439				
.723										-2.4860
.725					-.2024					
.727	-.1112									
.750							-.4218	-.4107		
.760				-.1963						
.775					-.4207	-.3189				
.793	.0861									
.799			-.1771							
.809				-.2604						
.834		-.1619								
.839			-.2501							
.850					-.0816	-.0764	-.1131			
.857				-.0940						
.862									-.7505	
.865		-.4064								
.879			-.1109							
.900		-.1531			-.0171			-.0953		
.905				-.0272						
.919			-.0459							
.950					.0377	.0107	.0069			
.953				.0263						
.955			-.0005							
.965		-.0505								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (3) = 4.016 BETA (2) = -3.855 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

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	-.1013	-.0455	-.0011	.2995	.5100	.4794	.4441	.3277	-.3472	
.010		-.0944	-.0041		-.0943	-.0783	-.2713	-.5913		
.020		-.1037		.0000	-.2311	-.3217	-.4570	-.6687	-.7673	
.040			.0163	-.2273						
.041	-.1011									
.060					-.4910	-.6254	-.7351	-.8234		
.069									-.8163	
.080					-.6717					
.081				-.3830						
.086			-.0068							
.094		-.0953								
.113	-.0767									
.160					-.7117	-.8395	-.9612	-.8803		
.167									-.9111	
.183			.0000							
.197				-.5434						
.229		-.0184								
.246			-.3802							
.247	-.0450									
.260					-.6977	-.8273	-.9225	-.9877		
.274				-.5434						
.345									-.8380	
.352		-.1836								
.380			-.4419							
.400					-.4605	-.5633		-.6559		
.402				-.4295						
.418										-1.0445
.419	-.0555									
.427		-.3857								
.503									-.8583	
.547	-.3017									
.560					-.3039	-.3914				
.585				-.2152						
.600								-.4758		
.633	-.3398									
.637			-.1608							
.650							-.3500			
.670									-.9538	
.700		-.1364				-.2644				
.723										-2.3935
.725					-.2305					
.727	-.1601									
.750							-.4172	-.4176		
.770				-.2249						
.775					-.4371	-.3472				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (3) = 4.016 BETA (2) = -3.855

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	.0302									
.798			-.2088							
.808				-.2958						
.834		-.1336								
.839			-.2810							
.850					-.1075	-.0997	-.1321			
.857				-.1249						
.862									-.8432	
.865		-.4300								
.879			-.1414							
.900		-.1768			-.0436			-.1090		
.905				-.0532						
.919			-.0657							
.950					.0171	-.0047	-.0128			
.953				.0041						
.955			-.0172							
.965		-.0697								

ALPHA (3) = 4.015 BETA (3) = .196 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1662	-.1543	-.1155	.1995	.4167	.3829	.3405	.2144	-.5104	
.010		-.1921	-.0903		-.2007	-.1767	-.3528	-.6652		
.020		-.1712		.0000	-.3055	-.4040	-.5258	-.7308	-.8099	
.040			-.0487	-.2849						
.041	-.1560									
.060					-.5335	-.6558	-.7650	-.8443		
.069									-.8254	
.080					-.6843					
.081				-.4150						
.086			-.0459							
.094		-.1222								
.113	-.1118									
.150					-.7018	-.8331	-.9416	-.8608		
.157									-.8735	
.163			.0000							
.177				-.5477						
.229		-.0420								
.245			-.3879							
.247	-.0635									
.250					-.6968	-.8185	-.9113	-.9592		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (3) = 4.015 BETA (3) = .196

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				-.5411						
.345									-.7776	
.362		-.1949								
.390			-.4481							
.400					-.4818	-.5726		-.6503		
.402				-.4497						
.418										-1.2236
.429	-.0758									
.497		-.3984								
.503									-.7997	
.547	-.3135									
.550					-.3351	-.4104				
.586				-.2540						
.600								-.4682		
.633	-.3546									
.637			-.2079							
.650							-.3596			
.670									-.9946	
.700		-.1792				-.2849				
.703										-2.2961
.725					-.2571					
.737	-.1901									
.750							-.4243	-.3999		
.760				-.2495						
.775					-.4641	-.3575				
.793	-.0064									
.798			-.2341							
.808				-.3135						
.834		-.2203								
.839			-.3068							
.850					-.1304	-.1100	-.1454			
.857				-.1460						
.882									-.9621	
.855		-.4606								
.879			-.1603							
.900		-.2134			-.0576			-.1075		
.905				-.0757						
.919			-.0874							
.950					-.0096	-.0209	-.0307			
.953				-.0181						
.955			-.0379							
955		-.0774								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (3) = 4.015 BETA (4) = 4.243 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

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	-.2319	-.2786	-.2482	.0697	.3115	.2612	.2018	.0452	-.7808	
.010		-.2843	-.1724		-.3109	-.3113	-.5120	-.8440		
.020		-.2337		.0000	-.3978	-.5088	-.6472	-.8950	-.9541	
.040			-.0997	-.3383						
.041	-.1917									
.050					-.5829	-.7187	-.8367	-.9386		
.069									-.8997	
.080					-.7066					
.081				-.4313						
.085			-.0857							
.094		-.1407								
.113	-.1411									
.150					-.7088	-.8441	-.9502	-.8771		
.157									-.8632	
.163			.0000							
.177				-.5423						
.229		-.0589								
.246			-.3799							
.247	-.0843									
.250					-.6936	-.8171	-.9128	-.9548		
.274				-.5458						
.345									-.7580	
.362		-.1989								
.390			-.4468							
.400					-.4919	-.5858		-.6536		
.402				-.4625						
.418										-1.6158
.429	-.0897									
.497		-.4164								
.503									-.7753	
.547	-.3254									
.550					-.3628	-.4268				
.565				-.2998						
.600								-.4687		
.633	-.3860									
.637			-.2648							
.650							-.3707			
.670									-1.0338	
.700		-.2107				-.2987				
.723										-2.2304
.725					-.2778					
.727	-.2184									
.750							-.4138	-.4115		
.760				-.2807						
.775					-.4552	-.3529				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (3) = 4.015 BETA (4) = 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	-.0473									
.798			-.2603							
.809				-.3409						
.834		-.2492								
.839			-.3544							
.850					-.1459	-.1318	-.1588			
.857				-.1753						
.862									-1.0271	
.865		-.5042								
.879			-.1848							
.900		-.2447			-.0861			-.1277		
.905				-.1033						
.919			-.1191							
.950					-.0439	-.0415	-.0610			
.953				-.0478						
.955			-.0631							
.965		-.1078								

ALPHA (3) = 4.018 BETA (5) = 8.295 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3138	-.4319	-.2643	-.0950	.1662	.1348	.0648	-.1190	-1.0507	
.010		-.3373	-.1473		-.4433	-.4284	-.6250	-.9103		
.020		-.2565		.0000	-.4968	-.5866	-.7350	-.9742	-1.0113	
.040			-.1293	-.3677						
.041	-.2335									
.050					-.6197	-.7414	-.8694	-.9761		
.069									-.8950	
.080					-.7201					
.081				-.4262						
.086			-.1483							
.094		-.2447								
.113	-.1746									
.150					-.6913	-.8053	-.9287	-.8615		
.157									-.8156	
.163			.0000							
.177				-.4990						
.229		-.0394								
.246			-.4609							
.247	-.0827									
.250					-.6786	-.7785	-.8658	-.9089		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU32)

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

ALPHA (3) = 4.018 BETA (5) = 8.295

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				-.5183					-.7142	
.345										
.362		-.1840								
.390			-.4487							
.400					-.4984	-.5897		-.6286		
.402				-.4761						-1.9279
.418										
.429	-.0912									
.497		-.4106							-.7359	
.503										
.547	-.3174									
.550					-.3834	-.4370				
.565				-.3486						
.600								-.4374		
.633	-.3992									
.637			-.2685							
.650							-.3515			
.670									-1.1343	
.700		-.2435				-.2959				-2.0317
.723										
.725					-.3063					
.727	-.2495									
.750							-.3451	-.3876		
.760				-.3286						
.775					-.4131	-.3185				
.793	-.0915									
.798			-.2855							
.808				-.4316						
.834		-.2767								
.839			-.3769							
.850					-.1771	-.1420	-.1781			
.857				-.2108						
.862									-.8401	
.865		-.5130								
.879			-.2161							
.900		-.2788			-.1455			-.1525		
.905				-.1288						
.919			-.1351							
.950					-.0875	-.0817	-.1167			
.953				-.0562						
.955			-.0716							
.965		-.1343								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U32)

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

ALPHA (A1) = 8.080 BETA (B1) = -7.877 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.29)	.3640	.4270	.5340	.6730	.7800	.88/C	.9720	1.0000
X/CW										
.000	-.0738	-.1629	-.2365	.1170	.3242	.2417	.1263	-.1503	-1.0858	
.010		-.2592	-.2254		-.6941	-.7504	-1.0935	-1.6306		
.020		-.2280		.0000	-.7976	-1.0094	-1.2646	-1.7334	-1.8122	
.040			-.1771	-.6262						
.041	-.0962									
.050					-1.0296	-1.2898	-1.4938	-1.6989		
.069									-1.5726	
.080					-1.1939					
.091				-.7608						
.086			-.2069							
.094		-.1546								
.113	-.0764									
.150					-1.0787	-1.2876	-1.4422	-1.3128		
.157									-1.7450	
.163			.0000							
.177				-.8141						
.229		-.0844								
.246			-.5731							
.247	-.0575									
.250					-.8917	-1.0611	-1.1846	-1.4021		
.274				-.6923						
.345									-1.4349	
.362		-.3013								
.390			-.5390							
.400					-.4995	-.6430		-.8688		
.402				-.4594						
.418										-2.1963
.429	-.1252									
.497		-.5072								
.503									-1.3935	
.547	-.4059									
.550					-.2720	-.3955				
.565				-.2124						
.600								-.5917		
.633	-.4031									
.637			-.1744							
.650							-.3690			
.670									-1.9401	
.700		-.1374				-.2460				
.703										-1.8786
.706					-.1835					
.707	-.1237									
[illegible]							-.4131	-.5365		
[illegible]				-.2124						
[illegible]					-.3008	-.2821				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XCBU32)

ALPHA (4) = 8.080 BETA (1) = -7.877

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1146									
.798			-.1808							
.808				-.2769						
.834		-.1691								
.839			-.2720							
.850					-.0857	-.0685	-.1667			
.857				-.1259						
.862									-1.4547	
.865		-.4679								
.879			-.1185							
.900		-.1251			-.0420			-.2343		
.905				-.[illegible]						
.919			-.0716							
.950					.0055	-.0099	-.0652			
.953				-.0192						
.955			-.0234							
.965		-.0415								

ALPHA (4) = 8.089 BETA (2) = -3.848 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION (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	-.3228	-.4370	-.0581	.1766	.0955	-.0509	-.3386	-1.4373	
.010		-.3809	-.3553		-.8378	-.9058	-1.2638	-1.8188		
.020		-.3297		.0000	-.9133	-1.1170	-1.3873	-1.9494	-2.0141	
.040			-.2645	-.6887						
.041	-.1570									
.050					-1.0857	-1.3416	-1.5638	-1.7480		
.069									-1.5926	
.080					-1.2186					
.081				-.7835						
.086			-.2578							
.094		-.1816								
.113	-.1286									
.150					-1.0750	-1.2778	-1.4383	-1.2514		
.157									-1.6740	
.163			.0000							
.177				-.8135						
.220		-.1077								
.245			-.5790							
.247	-.0937									
.250					-.9003	-1.0621	-1.1898	-1.3730		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (4) = 8.089 BETA (2) = -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				-.6963						
.345									-1.3743	
.362		-.3316								
.390			-.5540							
.400					-.5224	-.6580		-.8486		
.402				-.4804						
.418										-2.5441
.429	-.1405									
.497		-.5476								
.503									-1.3378	
.547	-.4262									
.550					-.3032	-.4193				
.585				-.2723						
.600								-.5747		
.633	-.4338									
.637			-.2131							
.660							-.3768			
.670									-1.8551	
.700		-.2129				-.2654				
.723										-1.9954
.725					-.2098					
.727	-.1784									
.750							-.4001	-.5063		
.760				-.2339						
.775					-.2823	-.2889				
.793	.0448									
.799			-.2280							
.808				-.3171						
.834		-.1741								
.849			-.3469							
.850					-.1207	-.0849	-.1830			
.867				-.1539						
.892									-1.5924	
.895		-.4626								
.899			-.1645							
.900		-.1572			-.0789			-.2424		
.905				-.0953						
.919			-.1033							
.920					-.0362	-.0340	-.0900			
.933				-.0332						
.935			-.0334							
.965		-.0530								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (4) = 8.087 BETA (3) = .188 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2582	-.5032	-.5883	-.2358	.0276	-.0530	-.2168	-.4992	-1.7534	
.010		-.5025	-.4078		-.9607	-1.0334	-1.3863	-1.9030		
.020		-.3999		.0000	-.9911	-1.1857	-1.4938	-1.9947	-2.1070	
.040			-.2415	-.7135						
.041	-.2163									
.060					-1.0976	-1.3459	-1.5903	-1.7813		
.069									-1.5613	
.080					-1.1965					
.081				-.7769						
.085			-.2382							
.094		-.2214								
.113	-.1885									
.150					-1.0322	-1.2313	-1.4008	-1.2621		
.157									-1.4340	
.163			.0000							
.177				-.7797						
.229		-.1911								
.246			-.5684							
.247	-.1055									
.250					-.8840	-1.0395	-1.1637	-1.2931		
.274				-.6770						
.345									-1.2728	
.362		-.3546								
.380			-.5716							
.400					-.5332	-.6668		-.8265		
.402				-.5186						
.418										-2.7921
.429	-.1466									
.497		-.5587								
.503									-1.2116	
.547	-.4541									
.550					-.3563	-.4380				
.565				-.3235						
.600								-.5667		
.633	-.4612									
.637			-.3058							
.650							-.3881			
.670									-1.6252	
.700		-.1856				-.2786				
.723										-1.9448
.725					-.2668					
.727	-.2137									
.750							-.4062	-.4978		
.760				-.2653						
.775					-.3663	-.2634				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (4) = 8.087 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										
.793	-.0202									
.798			-.2536							
.808				-.3826						
.834		-.2186								
.839			-.3824							
.850					-.1806	-.1607	-.2041			
.857				-.2098						
.862									-1.5701	
.865		-.4767								
.879			-.1750							
.900		-.2257			-.1311			-.2644		
.905				-.1235						
.919			-.1169							
.950					-.0747	-.0745	-.1127			
.953				-.0409						
.955			-.0470							
.965		-.0817								

ALPHA (4) = 8.085 BETA (4) = 4.243 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3521	-.6502	-.5603	-.4114	-.1346	-.2470	-.4061	-.7626	-2.2870	
.010		-.4981	-.2861		-1.0698	-1.1799	-1.5962	-2.1278		
.020		-.3598		.0000	-1.0718	-1.2999	-1.6205	-2.2226	-2.2256	
.040			-.2664	-.6687						
.041	-.2772									
.050					-1.1138	-1.3815	-1.6367	-1.9487		
.063									-1.5708	
.080					-1.1650					
.081				-.6932						
.085			-.2927							
.094		-.3963								
.113	-.2280									
.150					-.9949	-1.1804	-1.3976	-1.2604		
.157									-1.4646	
.163			.0000							
.177				-.7163						
.229		-.2458								
.245			-.6680							
.247	-.1163									
.250					-.8588	-1.0172	-1.1301	-1.2423		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (4) = 8.086 BETA (4) = 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										
.274				-.3932					-1.1110	
.345										
.362		-.2724								
.390			-.7072							
.400					-.5567	-.6761		-.8043		
.402				-.5255						-2.5081
.418										
.428	-.1581									
.497		-.5292							-1.0543	
.503										
.547	-.4592									
.550					-.4263	-.4622				
.565				-.3532				-.5470		
.600										
.623	-.4776									
.637			-.2990				-.4044			
.650									-1.4488	
.670						-.3174				
.700		-.2345								-1.8255
.723					-.3561					
.725										
.727	-.2520						-.4040	-.4376		
.750										
.760				-.3580						
.775					-.6061	-.3171				
.793	-.0710									
.798			-.2746							
.808				-.4670						
.834		-.2591								
.839			-.4035							
.850					-.1517	-.1960	-.2189			
.857				-.2416					-1.4109	
.862										
.865		-.5164								
.879			-.2222							
.900		-.2750			-.1100			-.3117		
.905				-.1492						
.919			-.1353							
.950					-.0044	-.0600	-.1498			
.953				-.0563						
.955			-.0662							
.965		-.1352								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (4) = 8.082 BETA (5) = 8.301 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

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	-.4786	-.7280	-.3883	-.5710	-.3328	-.4426	-.6268	-.9635	-2.5519	
.010		-.4245	-.3325		-1.1947	-1.3393	-1.7697	-2.3174		
.020		-.4119		.0000	-1.1176	-1.4039	-1.7295	-2.3167	-1.7468	
.040			-.3420	-.5529						
.041	-.3904									
.050					-1.1003	-1.3476	-1.6170	-2.0131		
.069									-1.5837	
.080					-1.1074					
.081				-.6203						
.085			-.3759							
.094		-.4302								
.113	-.2193									
.150					-.9209	-1.1401	-1.3309	-1.2190		
.157									-1.3602	
.163			.0000							
.177				-.6656						
.223		-.3434								
.246			-.8427							
.247	-.1489									
.250					-.7683	-.9706	-1.0830	-1.1757		
.274				-.6708						
.345									-.9646	
.362		-.2534								
.390			-.6139							
.400					-.6017	-.6397		-.7690		
.402				-.6753						
.419										-2.1468
.429	-.1652									
.497		-.5363								
.503									-.9055	
.547	-.4526									
.550					-.4348	-.4574				
.565				-.5078						
.600								-.5251		
.633	-.3969									
.637			-.3073							
.650							-.3804			
.670									-1.3654	
.702		-.2696				-.3530				
.723										-1.4643
.725					-.3554					
.727	-.2648									
.750							-.3710	-.4611		
.752				-.3486						
.775					-.6020	-.4332				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (4) = 8.082 BETA (5) = 8.301

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	-.1323									
.799			-.2990							
.808				-.5085						
.834		-.2835								
.839			-.4193							
.850					-.2715	-.1779	-.2435			
.857				-.2520						
.862									-1.1060	
.865		-.4977								
.879			-.2354							
.900		-.2944			-.1828			-.3494		
.905				-.1571						
.919			-.1587							
.950					-.0720	-.0818	-.1828			
.953				-.0736						
.966			-.0897							
.966		-.1772								

ALPHA (5) = 12.017 BETA (1) = -7.830 MACH = .59626 Q = 593.97 P = 2385.7 RN/L = 4.8175

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1612	-.5439	- 8698	-.4442	-.2040	-.3530	-.5333	-.8553	-2.3534	
.010		-.6373	-.7137		-1.6918	-1.7815	-2.1657	-2.6612		
.020		-.5120		.0000	-1.6607	-1.9711	-2.3920	-2.7719	-3.0542	
.040			-.5239	-1.1516						
.041	-.1584									
.050					-1.7255	-2.1434	-2.5322	-2.8064		
.069									-3.0371	
.080					-1.8168					
.081				-1.1947						
.086			-.4565							
.094		-.2314								
.113	-.1727									
.150					-1.3748	-1.8247	-2.3184	-2.0166		
.157									-2.8173	
.163			.0000							
.177				-1.0413						
.229		-.2312								
.246			-.7478							
.247	-.0987									
.250					-1.0363	-1.2402	-1.2973	-1.4770		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (S) = 12.017 BETA (1) = -7.830

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B=	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7917						
.345									-2.4267	
.382		-.5275								
.390			-.6778							
.411					-.4947	-.6783		-1.0175		
.402				-.5933						
.416										-2.3241
.489	-.2015									
.497		-.8394								
.503									-2.2643	
.547	-.5412									
.550					-.3117	-.4041				
.595				-.3265						
.600								-.7572		
.633	-.5032									
.637			-.2274							
.650							-.4215			
.670									-1.7207	
.700		-.2032				-.2569				
.723										-1.7644
.735					-.2696					
.737	-.1641									
.750							-.4304	-.8008		
.760				-.2201						
.775					-.4559	-.2489				
.793	.3989									
.798			-.2720							
.809				-.3284						
.824		-.1533								
.838			-.4387							
.850					-.1985	-.1098	-.2085			
.857				-.1953						
.862									-1.3678	
.865		-.4533								
.879			-.1916							
.900		-.1185			-.1350			-.4985		
.905				-.1192						
.919			-.1235							
.930					-.0573	-.0148	-.1162			
.938				-.0175						
.946			-.0-05							
.965		-.0341								

AMES 11-073(OA148) -140A/S/C W ORB LEFT WING TOP (XE5432)

ALPHA (5) = 12.037 BETA (2) = -3.825 MACH = .99826 Q = 593.97 P = 2308.7 RN/L = 4.8175

SECTION (1)LEFT WING TOP SURF DEPENDENT ABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6600	.7600	.8870	.9720	1.0000
X/CW										
.000	-.2833	-.7635	-.9346	-.6572	-.4030		.7445	-1.0716	-2.5673	
.010		-.7429	-.5934		-1.6[illegible]		.3514	-2.8115		
.020		-.5265		.0000	-1.76[illegible]		1.5609	-2.9288	-2.7050	
.040			-.3515	-1.1181						
.041	-.2500									
.050					-1.77		2.7041	-2.7874		
.069									-3.0011	
.080					-1.[illegible]					
.081				-1.0974						
.086			-.3941							
.094		-.4120								
.113	-.2342									
.150					-1.3494	-1.5522	-1.8656	-2.0205		
.157									-2.7136	
.163			.0000							
.177				-.9565						
.229		-.5022								
.246			-.7959							
.247	-.1246									
.250					-.9937	-1.2340	-1.3518	-1.4890		
.274				-.8611						
.345									-2.4020	
.362		-.6622								
.390			-.6910							
.400					-.5692	-.6991		-1.0905		
.462				-.6419						
.418										-2.2013
.429	-.2167									
.497		-.7661								
.503									-2.2541	
.547	-.5806									
.550					-.4326	-.4368				
.565				-.2482						
.600								-.8378		
.633	-.5470									
.637			-.3645							
.650							-.4397			
.670									-1.5655	
.700		-.2101				-.3162				
.723										-1.6375
.725					-.3970					
.727	-.2260									
.750							-.4291	-.8118		
.760				-.2602						
.775					-.6032	-.3454				

C-3

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (5) = 12.037 BETA (2) = -3.825

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	-.0023									
.798			-.2640							
.808				-.3707						
.834		-.1921								
.839			-.4159							
.850					-.1887	-.1504	-.2367			
.857				-.2117						
.862									-1.2594	
.865		-.4688								
.879			-.2017							
.900		-.2020			-.1105			-.5352		
.905				-.1062						
.919			-.1328							
.950					.0148	-.0176	-.1510			
.963				-.0185						
.966			-.0640							
.986		-.0636								

ALPHA (5) = 12.038 BETA (3) = .185 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.4179	-.9363	-.9285	-.8794	-.5989	-.7683	-.9642	-1.2575	-2.6725	
.010		-.6152	-.4591		-1.9557	-2.1049	-2.5281	-2.9494		
.020		-.4876		.0000	-1.7923	-2.2963	-2.7001	-2.9509	-2.0615	
.040			-.4351	-.9674						
.041	-.3797									
.050					-1.7101	-2.2610	-2.7961	-2.7933		
.069									-2.0301	
.080					-1.7163					
.081				-.9283						
.086			-.5024							
.094		-.5440								
.113	-.2302									
.150					-1.2484	-1.5465	-1.4899	-2.1621		
.157									-2.1535	
.163			.0000							
.177				-.9629						
.229		-.7074								
.246			-.8598							
.247	-.1657									
.250					-.9099	-1.1920	-1.3372	-1.6181		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (5) = 12.038 BETA (3) = .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										
.274				-.8667						
.345									-2.1630	
.362		-.6276								
.390			-.8087							
.400					-.6505	-.6721		-.9793		
.402				-.5868						
.418										-1.9496
.429	-.2611									
.497		-.7618								
.503									-1.9362	
.547	- 5981									
.550					-.5322	-.4614				
.565				-.3750						
.600								-.6534		
.633	-.5712									
.637			-.4310							
.650							-.4127			
.670									-1.4615	
.700		-.2397				-.3701				
.723										-1.5235
.725					-.3116					
.727	-.2527									
.750							-.3939	-.6100		
.760				-.4056						
.775					-.5695	-.4300				
.793	-.0467									
.798			-.2709							
.808				-.5297						
.834		-.2314								
.839			-.4515							
.850					-.1605	-.1963	-.2620			
.857				-.2935						
.862									-1.1993	
.865		-.5004								
.879			-.2317							
.900		-.2470			-.0938			-.3812		
.905				-.2073						
.919			-.1502							
.950					-.0185	-.0858	-.1836			
.953				-.1111						
.955			-.0751							
.965		-.1035								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U32)

ALPHA (5) = 12.033 BETA (4) = 4.256 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5432	-1.0097	-.6388	-.9714	-.7817	-.9894	-1.1835	-1.5071	-2.4755	
.010		-.5560	-.5036		-2.0104	-2.2489	-2.6951	-2.6127		
.020		-.5401		.0000	-1.7846	-2.4530	-2.8501	-2.5541	-1.8525	
.040			-.5029	-.7970						
.041	-.5243									
.050					-1.6173	-2.2530	-2.8517	-2.4142		
.069									-1.8175	
.080					-1.5287					
.081				-.8723						
.086			-.5282							
.094		-.5911								
.113	-.2676									
.150					-1.1045	-1.4684	-1.5085	-2.2084		
.157									-1.7467	
.163			.0000							
.177				-.9014						
.229		-.7394								
.246			-.9193							
.247	-.2166									
.250					-.8919	-1.1055	-1.3011	-1.9131		
.274				-.8415						
.345									-1.7307	
.362		-.5477								
.390			-.9311							
.400					-.6967	-.6752		-1.0609		
.402				-.7262						
.418										-1.5884
.429	-.2674									
.497		-.7022								
.503									-1.6561	
.547	-.5746									
.550					-.4741	-.5476				
.565				-.6486						
.600								-.5755		
.633	-.5829									
.637			-.3685							
.650							-.4385			
.670									-1.3774	
.700		-.2811				-.4469				
.723										-1.5082
.725					-.4003					
.727	-.2819									
.750							-.4446	-.5678		
.767				-.4006						
.775					-.5914	-.4714				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU32)

ALPHA (5) = 12.033 BETA (4) = 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	-.1049									
.798			-.2898							
.808				-.5884						
.834		-.2721								
.839			-.4651							
.850					-.3106	-.1542	-.2872			
.857				-.3283						
.862									-1.0901	
.865		-.5242								
.879			-.2596							
.900		-.2923			-.2341			-.3419		
.905				-.2078						
.919			-.1717							
.950					-.1182	-.0539	-.2051			
.953				-.1016						
.955			-.0970							
.965		-.1746								

ALPHA (5) = 12.024 BETA (5) = 8.318 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6800	-1.1028	-.5760	-1.0407	-1.0049	-1.2271	-1.4521	-1.7516	-2.0966	
.010		-.6099	-.5266		-2.0514	-2.4599	-2.8918	-2.4532		
.020		-.6148		.0000	-1.7194	-2.5829	-3.0060	-2.4344	-1.7677	
.040			-.5366	-.7810						
.041	-.7150									
.050					-1.4973	-2.1857	-2.9111	-2.3305		
.069									-1.7429	
.080					-1.3579					
.081				-.8162						
.086			-.5836							
.094		-.6405								
.113	-.3386									
.150					-1.0110	-1.3514	-1.4783	-2.1935		
.157									-1.6730	
.163			.0000							
.177				-.8489						
.229		-.8709								
.245			-1.0713							
.247	-.2615									
.250					-.9240	-1.2842	-1.1939	-1.9370		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU32)

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

ALPHA (5) = 12.024 BETA (5) = 8.318

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				-.8461					-1.5837	
.345										
.362		-.4348								
.390			-.8088							
.400					-.6755	-.7279		-1.0122		
.402				-.8872						-1.4957
.418										
.429	-.2570									
.497		-.6746							-1.5839	
.503										
.547	-.5549				-.5549	-.6115				
.550										
.565				-.6568				-.5243		
.600										
.633	-.5525									
.637			-.3851				-.4887			
.650									-1.3799	
.670						-.4921				
.700		-.3075								-1.4785
.723					-.5135					
.725										
.727	-.3075						-.5266	-.4890		
.750										
.760				-.3887						
.775					-.6918	-.4453				
.793	-.1360									
.798			-.3255							
.808				-.5704						
.834		-.2897								
.839			-.4742							
.850					-.3606	-.1577	-.3372			
.857				-.3298						
.862									-.9858	
.865		-.5437								
.879			-.2804							
.900		-.3165			-.2523			-.3084		
.905				-.2099						
.919			-.1998							
.950					-.1669	-.1081	-.2588			
.953				-.0997						
.955			-.1253							
.965		-.2430								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U33) (05 AUG 75)

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.	ZO	
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	10.000	SPDBRK =	35.000
BDFLAP =	16.300	L-ELVN =	.000
R-ELVN =	10.000	MACH =	1.400

ALPHA (1) = -4.110 BETA (1) = -3.848 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9043

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1301	-.1030	-.1031	.3019	.7044	.6530	.6117	.6311	-.3212	
.010		-.0299	.0091		.7566	.7425	.7009	.6323		
.020		-.0225		.0000	.6736	.6417	.6163	.5897	.0165	
.040			.0610	.3975						
.041	-.0446									
.050					.4687	.4355	.4184	.4135	-.0339	
.069										
.080					.2890					
.081				.3137						
.086			.1760							
.094		-.0131								
.113	-.0230									
.150					.0544	.0686	.0989	.1270	-.1694	
.157										
.163			.0000							
.177				.1194						
.229		.0615								
.246			.1041							
.247	-.0213									
.250					-.0789	-.0887	-.0793	-.0824		
.274				-.0114					-.2056	
.345										
.362		.1490								
.390			-.0054							
.400					-.2042	-.2487		-.2789		
.402				-.1726						-.3878
.418										
.439	.0618									
.447		.0108							-.2447	
.503										
.547	.0788				-.2570	-.2915				
.550				-.1693						
.565								-.3496		
.600										
.633	-.0235									
.637			-.1414				-.3516			
.650									-.3304	
.670										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (1) = -4.110 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		-.1151				-.3095				
.723										-.3751
.725					-.0390					
.727	-.1008									
.750							-.3405	-.3490		
.760				.0134						
.775					.1110	-.1095				
.793	.2574									
.798			.0665							
.808				.2270						
.834		.1247								
.839			.2153							
.850					.1763	-.0237	-.3121			
.857				.1896						
.862									-.2757	
.865		.1012								
.873			.1765							
.900		.1741			.1495			-.2614		
.905				.1696						
.919			.1434							
.950					.1509	.1117	-.1793			
.953				.1455						
.955			.1406							
.965		.2277								

ALPHA (1) = -4.105 BETA (2) = .195 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9043

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1529	-.0706	-.0548	.2598	.6332	.5617	.5208	.5309	-.3873	
.010		-.0472	.0001		.6578	.6510	.6130	.5484		
.020		-.0552		.0000	.5906	.5592	.5364	.5134	-.0659	
.040			.0347	.3217						
.041	-.1027									
.050					.4009	.3703	.3510	.3510		
.069									-.1066	
.080					.2320					
.081				.2487						
.086			.1327							
.094		-.0396								
.113	-.0850									
.150					.0347	.0390	.0683	.0934		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (1) = -4.105 BETA (2) = .195

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.157									-.2208	
.163			.0000							
.177				.0948						
.229		.0383								
.246			.0717							
.247	-.0480									
.250					-.0901	-.0940	-.1005	-.1068		
.274				-.0176						
.345									-.2402	
.362		.1244								
.390			-.0160							
.400					-.2029	-.2467		-.2832		
.402				-.1749						
.418										-.4529
.429	.0377									
.497		-.0216								
.503									-.2698	
.547	.0536									
.550					-.2455	-.2810				
.565				-.1581						
.600								-.3591		
.633	-.0506									
.637			-.0323							
.650							-.3387			
.670									-.3368	
.700		-.0614				-.2711				
.723										-.4449
.725					-.0086					
.727	-.0940									
.750							-.3274	-.3642		
.760				.0454						
.775					.1058	-.0207				
.793	.2998									
.798			.0545							
.808				.1621						
.834		.0936								
.839			.1474							
.850					.1747	.0134	-.2738			
.857				.1310						
.862									-.2812	
.865		.0359								
.879			.1101							
.900		.1216			.1205			-.2704		
.905				.1135						
.919			.0930							

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (1) = -4.105 BETA (2) = .195

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					.1055	.1090	-.0408			
.953				.1033						
.955			.0791							
.965		.1693								

ALPHA (1) = -4.114 BETA (3) = 4.277 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9043

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1678	-.0794	-.0276	.2494	.5624	.4789	.4275	.4327	-.4299	
.010		-.0834	-.0016		.5762	.5557	.5217	.4561		
.020		-.0976		.0000	.5059	.4675	.4516	.4296	-.1397	
.040			.0218	.2664						
.041	-.1576									
.050					.3375	.2979	.2864	.2833	-.1700	
.069					.1890					
.080				.2019						
.081										
.085			.1058							
.094		-.0588								
.113	-.1460									
.150					.0157	.0103	.0380	.0524	-.2590	
.157										
.163			.0000							
.177				.0666						
.223		.0207								
.246			.0527							
.247	-.0608									
.250					-.1000	-.1096	-.1096	-.1240		
.274				-.0260					-.2746	
.345										
.362		.1104								
.390			-.0235		-.2064	-.2454		-.2976		
.400										
.402				-.1793						-.4917
.418										
.429	.0266									
.497		-.0568							-.2943	
.503										
.547	.0405				-.2368	-.2813				
.550										
.565				-.1504						

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8033)

ALPHA (1) = -4.114 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								-.3696		
.633	-.0807									
.637			.0376							
.650							-.3258			
.670									-.3381	
.700		-.0199				-.1245				
.723										-.4874
.725					.0247					
.727	-.0904									
.750							-.3153	-.3596		
.760				.0373						
.775					.1142	.0148				
.793	.3045									
.798			.0406							
.809				.1285						
.834		.0789								
.839			.1114							
.850					.1517	.0385	-.1062			
.857				.0937						
.862									-.2806	
.865		.0065								
.879			.0629							
.900		.0725			.0871			-.2093		
.905				.0649						
.919			.0470							
.950					.0703	.0905	.0155			
.953				.0642						
.955			.0350							
.965		.1126								

ALPHA (2) = -.049 BETA (1) = -3.866 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.3098

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720	1.0000
X/CW										
.000	-.0345	.0175	.0165	.4069	.7525	.7080	.6720	.6838	-.1500	
.010		.0194	.0337		.6054	.6428	.6019	.5129		
.020		-.0007		.0000	.5041	.5051	.4824	.4575	.0122	
.040			.0555	.2505						
.041	-.0345									
.059					.2871	.2753	.2601	.2594		
.069									-.0571	
.080					.1156					

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8033)

ALPHA (2) = -.046 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7700	.8870	.9720	1.0000
X/CW										
.497		-.0990							-.3413	
.503										
.547	-.0102				-.3429	-.3916				
.550										
.585				-.2651				-.4294		
.600										
.633	-.1449									
.637			-.2197				-.4388			
.650									-.4112	
.670						-.3784				
.700		-.1911								-.2316
.723										
.725					-.1336					
.727	-.1705						-.4246	-.4377		
.750										
.760				-.0942						
.775					-.0702	-.1787				
.793	.1350									
.798			-.0441							
.808				.0499						
.834		.0214								
.839			.0605							
.850					.0104	-.1569	-.3621			
.857				.0733					-.3728	
.862										
.865		-.0264								
.879			.0591							
.900		.0380			.0436			-.3616		
.905				.0633						
.919			.0381							
.950					.0714	-.0609	-.1612			
.953				.0572						
.955			.0411							
.965		.0695								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (2) = -.050 BETA (3) = 4.256 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0690	-.0994	-.0852	.2925	.5859	.5305	.4936	.4969	-.2168	
.010		-.1328	-.0560		.3907	.4462	.4104	.3299		
.020		-.1414		.0000	.3196	.3270	.3109	.2931	-.1221	
.040			-.0167	.1199						
.041	-.1362									
.050					.1576	.1395	.1264	.1275		
.069									-.1770	
.080					.0175					
.081				.0703						
.086			.0379							
.094		-.1592								
.113	-.1580									
.130					-.1298	-.1411	-.1141	-.0866		
.157									-.2975	
.163			.0000							
.177				-.0652						
.229		-.0316								
.246			-.0339							
.247	-.1343									
.250					-.2238	-.2658	-.2573	-.2484		
.274				-.1437						
.345									-.3229	
.362		.0419								
.390			-.1232							
.400					-.3047	-.3554		-.4055		
.402				-.2596						
.418										-.1558
.429	-.0137									
.497		-.1082								
.503									-.3490	
.547	-.0206									
.550					-.3380	-.3798				
.565				-.2584						
.600								-.4474		
.633	-.1663									
.637			-.1602							
.650							-.4293			
.670									-.4045	
.700		-.1736				-.3066				
.723										-.2998
.725					-.1279					
.727	-.1706									
.750							-.4124	-.4425		
.760				-.0818						
.775					-.0506	-.1615				

AMES 11-073(GA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (2) = -.050 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	.1681									
.798			-.0417							
.808				.0261						
.834		.0023								
.839			.0230							
.850					.0305	-.1148	-.2438			
.857				.0284						
.862									-.3628	
.865		-.0548								
.879			.0050							
.900		-.0069			.0410			-.3284		
.905				.0200						
.919			-.0057							
.950					.0462	-.0063	-.1638			
.953				.0137						
.955			-.0050							
.965		.0047								

ALPHA (3) = 3.895 BETA (1) = -3.869 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0543	.0302	-.0367	.3799	.7546	.7370	.7190	.7072	.0762	
.010		-.0151	-.0568		.3837	.4991	.4625	.3539		
.020		-.0340		.0000	.2853	.3337	.3262	.2874	-.0501	
.040			-.0438	.0459						
.041	-.0183									
.050					.0828	.1074	.1024	.0925		
.069									-.0974	
.080					-.0733					
.081				-.0581						
.086			-.0055							
.094		-.0808								
.113	-.0348									
.150					-.2837	-.2307	-.1887	-.1471		
.157									-.2700	
.163			.0000							
.177				-.1862						
.229		-.0827								
.245			-.1223							
.247	-.0589									
.250					-.3501	-.3637	-.3342	-.3032		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (3) = 3.895 BETA (1) = -3.869

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				-.2739						
.345									-.3401	
.362		-.0199								
.390			-.2207							
.400					-.4321	-.4743		-.4541		
.402				-.3567						
.418										-.1309
.429	-.0511									
.497		-.1569								
.503									-.4161	
.547	-.0596									
.550					-.4428	-.5064				
.565				-.3501						
.600								-.4779		
.633	-.2080									
.637			-.3041							
.650							-.4963			
.670									-.5301	
.700		-.2703				-.5038				
.723										-.4169
.725					-.2474					
.727	-.2403									
.750							-.5275	-.4785		
.760				-.1631						
.775					-.2075	-.3472				
.793	-.1670									
.798			-.1579							
.808				-.1083						
.834		-.0614								
.839			-.0202							
.850					-.1812	-.2437	-.4889			
.857				-.0411						
.862									-.5862	
.865		-.0558								
.879			.0395							
.900		.0694			-.1660			-.4250		
.905				.0142						
.919			.0537							
.950					-.0954	-.1906	-.2573			
.953				.0512						
.955			.0594							
.965		.0696								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (3) = 3.895 BETA (2) = .190 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0228	-.0737	-.1972	.2603	.6491	.6384	.6238	.6059	.0234	
.010		-.1258	-.1972		.2718	.3863	.3601	.2515		
.020		-.1312		.0000	.1814	.2377	.2365	.1977	-.1141	
.040			-.1457	-.0174						
.041	-.0689									
.050					.0107	.0347	.0307	.0243		
.069									-.1572	
.080					-.1240					
.081				-.1017						
.086			-.0625							
.094		-.1416								
.113	-.0978									
.150					-.3096	-.2701	-.2270	-.1891		
.157									-.3104	
.163			.0000							
.177				-.2025						
.229		-.1180								
.246			-.1379							
.247	-.1115									
.250					-.3580	-.3848	-.3599	-.3325		
.274				-.2764						
.345									-.3889	
.362		-.0326								
.390			-.2154							
.400					-.4233	-.4821		-.4693		
.402				-.3480						
.418										-.2484
.429	-.0632									
.497		-.1683								
.503									-.4381	
.547	-.0748									
.550					-.4141	-.4965				
.565				-.3380						
.600								-.4965		
.633	-.2260									
.657			-.2964							
.650							-.5103			
.670									-.5378	
.700		-.2701				-.4813				
.723										-.5401
.725					-.1916					
.727	-.2402									
.750							-.5261	-.4856		
.760				-.1593						
.775					-.1952	-.2563				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (3) = 3.895 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	-.0056									
.798			-.1246							
.808				-.0965						
.834		-.0217								
.839			-.0248							
.850					-.1752	-.2161	-.3558			
.857				-.0635					-.5760	
.862										
.865		-.0723								
.879			-.0305							
.900		-.0096			-.1373			-.4300		
.905				-.0220						
.919			.0065							
.950					-.0644	-.1574	-.2395			
.953				.0065						
.955			.0125							
.965		-.0072								

ALPHA (3) = 3.896 BETA (3) = 4.246 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0098	-.2146	-.4102	.1344	.5415	.5407	.5314	.5121	-.0565	
.010		-.2680	-.3586		.1533	.2690	.2437	.1481		
.020		-.2484		.0000	.0726	.1347	.1298	.1001	-.1932	
.040			-.2190	-.0840						
.041	-.1115									
.050					-.0664	-.0430	-.0485	-.0587	-.2244	
.069					-.1764					
.080				-.1409						
.081										
.086			-.1147							
.094		-.2032								
.113	-.1533				-.3200	-.3038	-.2716	-.2419		
.150									-.3529	
.157										
.163			.0000							
.177				-.1963						
.229		-.1228								
.246			-.1336							
.247	-.1543				-.3517	-.4048	-.3930	-.3675		
.250										

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U33)

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

ALPHA (3) = 3.896 BETA (= 4.246

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				-.2550					-.4075	
.345										
.362		-.0264								
.390			-.2046							
.400					-.3928	-.4778		-.4904		
.402				-.3282						-.4089
.418										
.429	-.0647									
.497		-.1729							-.4626	
.503										
.547	-.0739									
.550					-.4018	-.4785				
.565				-.3259						
.600								-.5003		
.633	-.2377									
.637			-.2944							
.650							-.5166			
.670									-.5509	
.700		-.2696				-.3407				-.6488
.723										
.725					-.1850					
.727	-.2379									
.750							-.4889	-.4925		
.760				-.1534						
.775					-.1992	.2329				
.793	.1060									
.798			-.0862							
.808				-.0941						
.834		-.0245								
.839			-.0413							
.850					-.1511	-.2118	-.3099			
.857				-.0802					-.5620	
.862										
.865		-.1025								
.879			-.0661							
.900		-.0451			-.1131			-.2869		
.905				-.0451						
.919			-.0248							
.950					-.0495	-.1513	-.2583			
.953				-.0282						
.955			-.0309							
.965		-.0674								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (4) = 7.947 BETA (1) = -3.865 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0931	-.0696	-.2216	.2618	.6889	.7095	.7027	.6687	.0161	
.010		-.1529	-.2452		.1554	.3001	.2631	.1333		
.020		-.1380		.0000	.0425	.1355	.1299	.0724	-.2300	
.040			-.1803	-.1573						
.041	-.0204									
.050					-.1243	-.0752	-.0787	-.1058		
.069									-.2590	
.080					-.2516					
.081				-.2585						
.086			-.1270							
.094		-.1161								
.113	-.0355									
.150					-.4229	-.3682	-.3341	-.2969		
.157									-.3952	
.163			.0000							
.177				-.3887						
.229		-.1213								
.246			-.2698							
.247	-.0588									
.250					-.5124	-.4790	-.4484	-.4149		
.274				-.4289						
.345									-.4884	
.362		-.1173								
.390			-.3323							
.400					-.5715	-.5673		-.4763		
.402				-.4492						
.418										-.3972
.429	-.1117									
.497		-.2633								
.503									-.5143	
.547	-.1685									
.550					-.5621	-.5368				
.565				-.4211						
.600								-.4743		
.633	-.3033									
.637			-.3938							
.650							-.4801			
.670									-.6108	
.700		-.3635				-.4849				
.723										-.6180
.725					-.3659					
.727	-.3134									
.750							-.4163	-.4376		
.760				-.2331						
.775					-.3501	-.4363				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (4) = 7.947 BETA (1) = -3.865

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	-.2840									
.798			-.2106							
.808				-.2307						
.834		-.1364								
.839			-.1538							
.850					-.2653	-.3977	-.4165			
.857				-.1876						
.862									-.5849	
.865		-.1187								
.879			-.0719							
.900		.0063			-.2178			-.4123		
.905				-.0958						
.919			.0226							
.950					-.1662	-.3271	-.3896			
.953				-.0296						
.955			.0620							
.965		.0453								

ALPHA (4) = 7.946 BETA (2) = .165 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0354	-.2238	-.4366	.0606	.5394	.5796	.5847	.5472	-.1430	
.010		-.2964	-.3936		-.0033	.1482	.1244	.0088		
.020		-.2713		.0000	-.1069	.0051	.0132	-.0434	-.3480	
.040			-.3157	-.2889						
.041	-.0629									
.050					-.2506	-.1857	-.1738	-.1983		
.069									-.3551	
.080					-.3530					
.081				-.3452						
.086			-.2277							
.094		-.1823								
.113	-.0951									
.150					-.4844	-.4214	-.3888	-.3559		
.157									-.4520	
.163			.0000							
.177				-.4352						
.229		-.1802								
.245			-.2720							
.247	-.1165									
.250					-.5352	-.5114	-.4850	-.4559		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (4) = 7.946 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										
.274				-.3648						
.345									-.5193	
.362		-.1485								
.390			-.3006							
.400					-.5435	-.5832		-.5059		
.402				-.4064						
.418										-.5351
.429	-.1641									
.497		-.2633								
.503									-.5498	
.547	-.1560									
.550					-.4732	-.5573				
.565				-.3988						
.600								-.4981		
.633	-.3055									
.637			-.3893							
.650							-.5122			
.670									-.5465	
.700		-.3499				-.4887				
.723										-.5403
.725					-.2356					
.727	-.3024									
.750							-.4400	-.4569		
.760				-.2055						
.775					-.2295	-.4195				
.793	-.1225									
.798			-.1857							
.808				-.2157						
.834		-.0453								
.833			-.1204							
.850					-.2119	-.3934	-.4321			
.857				-.1768						
.862									-.5394	
.865		-.0983								
.879			-.1093							
.900		-.0415			-.2333			-.4344		
.905				-.1278						
.919			-.0380							
.950					-.1744	-.3222	-.3944			
.953				-.0662						
.955			.0095							
.965		-.0475								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (4) = 7.944 BETA (3) = 4.238 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9148

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0166	-.3956	-.4123	-.1437	.3705	.4442	.4530	.4107	-.3094	
.010		-.3797	-.4081		-.1671	.0192	-.0100	-.1084		
.020		-.3780		.0000	-.2583	-.1080	-.1063	-.1532	-.4534	
.040			-.3936	-.3262						
.041	-.1096									
.050					-.3751	-.2674	-.2583	-.2880		
.069									-.4766	
.080					-.4383					
.081				-.3108						
.086			-.3678							
.094		-.3652								
.113	-.1530									
.150					-.4977	-.4649	-.4368	-.4098		
.157									-.5012	
.163			.0000							
.177				-.3167						
.220		-.2040								
.246			-.4249							
.247	-.1722									
.250					-.4777	-.5369	-.5165	-.4920		
.274				-.3373						
.345									-.5225	
.362		-.1100								
.390			-.2719							
.400					-.4478	-.5933		-.5178		
.402				-.3805						
.418										-.5244
.429	-.1594									
.497		-.2374								
.503									-.5349	
.547	-.1385									
.550					-.4397	-.5658				
.565				-.4032						
.600								-.5120		
.633	-.2939									
.637			-.3703							
.650							-.5315			
.670									-.5036	
.700		-.3248				-.4540				
.723										-.4706
.725					-.2555					
.727	-.2944									
.750							-.4629	-.4422		
.760				-.1900						
.775					-.2555	-.3654				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (4) = 7.944 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	.0269									
.798			-.1526							
.808				-.1853						
.834		-.1059								
.839			-.1206							
.850					-.2051	-.2721	-.4331			
.857				-.1675						
.862									-.4879	
.865		-.1478								
.879			-.1036							
.900		-.0882			-.1714			-.4060		
.905				-.1477						
.919			-.0638							
.950					-.1128	-.1805	-.3745			
.953				-.0916						
.955			-.0894							
.965		-.0824								

ALPHA (5) = 11.859 BETA (1) = -3.851 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0261	-.2391	-.3698	.1090	.6032	.6408	.6383	.5772	-.1798	
.010		-.2965	-.3386		-.0283	.1216	.0622	-.0747		
.020		-.2785		.0000	-.1360	-.0280	-.0546	-.1246	-.4849	
.040			-.2706	-.3238						
.041	-.0145									
.050					-.2862	-.2194	-.2286	-.2748		
.069									-.4865	
.080					-.3865					
.081				-.3848						
.086			-.2026							
.094		-.1942								
.113	-.0377									
.150					-.5138	-.4626	-.4352	-.4164		
.157									-.5196	
.163			.0000							
.177				-.4756						
.229		-.1666								
.246			-.2884							
.247	-.0556									
.250					-.5758	-.5134	-.5073	-.4953		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU33)

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

ALPHA (5) = 11.859 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										
.274				-.4704					-.5272	
.345										
.362		-.1489								
.390			-.3749		-.5320	-.4938		-.4910		
.400										
.402				-.4876						-.5385
.418										
.429	-.1295									
.497		-.3579							-.5390	
.503										
.547	-.1989				-.4968	-.4935				
.550				-.4740						
.565								-.4852		
.600										
.633	-.3966									
.637			-.4584				-.4747			
.660									-.5005	
.570						-.4883				
.700		-.4632								-.4726
.723					-.4802					
.725										
.727	-.4034						-.4387	-.4688		
.750										
.760				-.3544	-.4653	-.4493				
.775										
.793	-.3772									
.798			-.2328							
.808				-.3862						
.834		-.1609								
.839			-.2741		-.4244	-.4359	-.4421			
.850										
.857				-.3731					-.5019	
.862										
.865		-.1472								
.879			-.2096		-.4064			-.4853		
.900		.0610		-.2869						
.905										
.919			-.1981		-.3712	-.3581	-.4105			
.950				-.2095						
.953										
.955			-.1591							
.965		-.0375								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (5) = 11.865 BETA (2) = .189 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0611	-.3640	-.3676	-.0966	.4288	.4797	.4841	.4205	-.3486	
.010		-.3155	-.3631		-.1786	-.0296	-.0844	-.2001		
.020		-.3086		.0000	-.2751	-.1683	-.1918	-.2542	-.5484	
.040			-.3477	-.3791						
.041	-.0796									
.050					-.3989	-.3278	-.3329	-.3727		
.069									-.5223	
.080					-.4786					
.081				-.4140						
.086			-.3183							
.094		-.3519								
.113	-.1232									
.150					-.5764	-.5243	-.4965	-.4839		
.157									-.5216	
.163			.0000							
.177				-.4356						
.229		-.4152								
.246			-.3866							
.247	-.1106									
.250					-.6198	-.5816	-.5420	-.5389		
.274				-.4649						
.345									-.5420	
.352		-.2892								
.390			-.4017							
.400					-.5764	-.5539		-.5299		
.402				-.4963						
.418										-.5450
.429	-.1940									
.497		-.4088								
.503									-.5562	
.547	-.2669									
.551					-.5526	-.5515				
.565				-.4722						
.600								-.5258		
.633	-.4081									
.637			-.4822							
.650							-.5161			
.670									-.5152	
.700		-.4249				-.5266				
.723										-.4941
.725					-.4796					
.727	-.3929									
.750							-.4839	-.4934		
.760				-.2337						
.775					-.5057	-.4882				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (5) = 11.865 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	-.1949									
.798			-.2193							
.808				-.2815						
.834		-.1579								
.839			-.2155							
.850					-.4374	-.4100	-.4661			
.857				-.2898						
.862									-.5178	
.875		-.1671								
.879			-.1556							
.900		-.0669			-.3368			-.5033		
.905				-.2755						
.919			-.0891							
.950					-.2625	-.3370	-.4104			
.953				-.3161						
.955			-.1497							
.965		-.0391								

ALPHA (5) = 11.860 BETA (3) = 4.253 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1448	-.3867	-.4059	-.2984	.2459	.3090	.3087	.2418	-.4676	
.010		-.3791	-.4058		-.3180	-.1725	-.2215	-.3345		
.020		-.3791		.0000	-.3949	-.2971	-.3170	-.3736	-.5511	
.040			-.4039	-.3881						
.041	-.1705									
.050					-.4903	-.4233	-.4315	-.4677		
.069									-.5494	
.080					-.5509					
.081				-.4129						
.086			-.3822							
.094		-.4382								
.114	-.1604									
.142					-.5857	-.5780	-.5538	-.5491		
.147									-.5511	
.163			.0000							
.177				-.4221						
.196		-.5378								
.200			-.4239							
.227	-.1541									
.250					-.5803	-.6293	-.6077	-.5896		

DATE 11 FEB 76

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

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

(XEBU33)

ALPHA (5) = 11.860 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				-.4088					-.5636	
.345										
.362		-.3798								
.390			-.4052							
.400					-.6048	-.6151		-.5808		
.402				-.4582						-.5608
.418										
.429	-.2684									
.497		-.3628							-.5723	
.503										
.547	-.2316				-.5421	-.6118				
.550										
.565				-.4742				-.5622		
.600										
.633	-.3784									
.637			-.4640				-.5850			
.650									-.5461	
.670						-.5297				
.700		-.3668								-.5360
.723					-.2785					
.725										
.727	-.3665						-.5261	-.5463		
.750				-.2621						
.760					-.3095	-.5148				
.775										
.793	-.0467									
.798			-.2457							
.808				-.3031						
.834		-.1848								
.839			-.2372							
.850					-.2990	-.5009	-.4987			
.857				-.2930					-.5402	
.862										
.865		-.2302								
.879			-.1592							
.900		-.1510			-.2922			-.5207		
.905				-.2342						
.919			-.1522							
.950					-.2770	-.3139	-.4166			
.953				-.1820						
.955			-.1498							
.965		-.1591								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU33)

ALPHA (6) = 15.849 BETA (1) = -3.830 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0334	-.3286	-.3058	-.0150	.4909	.5267	.5176	.4216	-.3427	
.010		-.2863	-.2895		-.1817	-.0483	-.1256	-.2732		
.020		-.2773		.0000	-.2816	-.1956	-.2389	-.3207	-.5907	
.040			-.2727	-.3489						
.041	-.1549									
.050					-.4046	-.3498	-.3751	-.4276		
.069									-.5668	
.080					-.4852					
.081				-.3779						
.086			-.2510							
.094		-.2919								
.113	-.0443									
.150					-.5827	-.5397	-.5241	-.5259		
.157									-.5637	
.163			.0000							
.177				-.3930						
.229		-.3648								
.246			-.3616							
.247	-.0797									
.250					-.5654	-.5529	-.5390	-.5578		
.274				-.4367						
.345									-.5746	
.362		-.3773								
.390			-.3992							
.400					-.5578	-.5463		-.5495		
.402				-.5006						
.418										-.5982
.429	-.1599									
.497		-.4813								
.503									-.5845	
.547	-.2511									
.550					-.5621	-.5558				
.605				-.5322						
.600								-.5605		
.633	-.4775									
.637			-.5128							
.650							-.5428			
.670									-.5500	
.700		-.5175				-.5529				
.723										-.5214
.725					-.5261					
.727	-.5259									
.750							-.5042	-.5439		
.760				-.3366						
.775					-.5351	-.5047				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (6) = 15.849 BETA (1) = -3.830

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	-.3870									
.798			-.2899							
.808				-.3963						
.834		-.2475								
.839			-.3340							
.850					-.4670	-.4834	-.5073			
.857				-.4169					-.5477	
.862										
.865		-.2064								
.879			-.2585							
.900		-.1766			-.4573			-.5661		
.905				-.4312						
.919			-.2417							
.950					-.4180	-.4333	-.4788			
.953				-.3942						
.955			-.2563							
.965		-.1619								

ALPHA (6) = 15.859 BETA (2) = .186 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1411	-.3705	-.3641	-.2363	.3132	.3483	.3365	.2429	-.4554	
.010		-.3627	-.3630		-.3180	-.1904	-.2548	-.3748		
.020		-.3665		.0000	-.3973	-.3199	-.3526	-.4200	-.5704	
.040			-.3582	-.3672						
.041	-.3200									
.050					-.4929	-.4408	-.4635	-.5049	-.5706	
.069					-.5540					
.080				-.4085						
.081										
.086			-.3275							
.094		-.3850								
.113	-.1316									
.150					-.6082	-.5878	-.5774	-.5781	-.5732	
.157										
.163			.0000							
.177				-.4577						
.229		-.4294								
.246			-.4379							
.247	-.1851									
.250					-.6035	-.5944	-.5781	-.5930		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U33)

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

ALPHA (6) = 15.859 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				-.4964					-.5872	
.345										
.362		-.4716								
.390			-.4600							
.400					-.5876	-.5887		-.5868		
.402				-.5406						-.5952
.418										
.429	-.2597									
.497		-.5281							-.5997	
.503										
.547	-.3499									
.550					-.5855	-.5944				
.565				-.5217						
.600								-.5800		
.633	-.5030									
.637			-.5196							
.650							-.5838			
.670									-.5614	
.700		-.5021				-.5897				
.723										-.5448
.725					-.5296					
.727	-.5151									
.750							-.5388	-.5620		
.760				-.3490						
.775					-.5642	-.5303				
.793	-.3098									
.799			-.2652							
.808				-.3700						
.834		-.2232								
.859			-.2371							
.860					-.5457	-.4571	-.5222			
.857				-.3715						
.862									-.5581	
.865		-.2376								
.879			-.2156							
.900		-.1515			-.5069			-.5665		
.905				-.3669						
.919			-.2725							
.950					-.4546	-.3871	-.4778			
.953				-.3968						
.955			-.2974							
.965		-.1674								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (6) = 15.851 BETA (3) = 4.283 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2335	-.4131	-.4350	-.4084	.1333	.1794	.1591	.0707	-.5311	
.010		-.4157	-.4346		-.4278	-.3172	-.3707	-.4846		
.020		-.4199		.0000	-.4972	-.4285	-.4543	-.5160	-.5575	
.040			-.4346	-.4107						
.041	-.4240									
.050					-.5662	-.5227	-.5384	-.5757	-.5556	
.069										
.080					-.6075					
.081				-.4279						
.086			-.3947							
.094		-.4468								
.113	-.2175									
.150					-.6122	-.6295	-.6206	-.5839	-.5528	
.157										
.163			.0000							
.177				-.4946						
.229		-.4825								
.246			-.5032							
.247	-.2651									
.250					-.6217	-.6162	-.5993	-.5832		
.274				-.4977					-.5488	
.345										
.362		-.5195								
.390			-.4672							
.400					-.6276	-.6115		-.5735		
.402				-.5003						-.5508
.418										
.429	-.3378									
.497		-.5027							-.5601	
.503										
.547	-.3725									
.550					-.6273	-.6049				
.565				-.5142				-.5541		
.600										
.633	-.4554									
.637			-.4554				-.5733			
.650									-.5386	
.670						-.5789				
.700		-.4265								-.5320
.723					-.4783					
.725										
.727	-.4296						-.5440	-.5386		
.750										
.760				-.3693						
.775					-.4979	-.5409				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U33)

ALPHA (6) = 15.851 BETA (3) = 4.28?

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	-.2173									
.798			-.2854							
.808				-.3763						
.834		-.2281								
.839			-.3066							
.850					-.4748	-.4802	-.5292			
.857				-.3343						
.862									-.5341	
.865		-.2755								
.879			-.2134							
.900		-.1930			-.4811			-.5353		
.905				-.3589						
.919			-.2486							
.950					-.4963	-.3938	-.5119			
.953				-.3732						
.955			-.2672							
.965		-.2124								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34) (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 = 10.000 SPDBRK = 35.000
BOFLAP = 16.300 L-ELVN = .000
R-ELVN = 10.000 MACH = 1.250

ALPHA (1) = -4.064 BETA (1) = -3.845 MACH = 1.2480 Q = 600.05 P = 550.40 RN/L = 3.0174

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1981	-.0848	-.1175	.2682	.6614	.5982	.5595	.5797	-.4330	
.010		-.0317	-.0110		.7265	.7073	.6685	.5967		
.020		-.0333		.0000	.6469	.6081	.5768	.5535	-.0466	
.040			.0469	.4176						
.041	-.1027				.4392	.3970	.3790	.3688		
.050									-.1071	
.069					.2566					
.080				.3062						
.081			.1668							
.086		-.0009								
.094	-.0555				.0161	.0145	.0315	.0504		
.113									-.2452	
.150										
.157			.0000							
.163				.1005						
.177		.0532								
.229			.0995							
.246	-.0011				-.1254	-.1376	-.1264	-.1603		
.247				-.0421					-.2899	
.250										
.274		.1556								
.345			-.0247							
.362					-.2626	-.3116		-.3757		
.390				-.1999						-.5019
.400										
.402	.0516									
.418		.0156							-.3335	
.429										
.497	.0724				-.2019	-.3529				
.503				.0025				-.4525		
.547										
.550										
.565	-.0469									
.600			.1453				-.4245			
.633									-.4287	
.637										
.650										
.670										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (1) = -4.054 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		.1154				-.1191				
.723										-.4743
.725					.0639					
.727	-.0750									
.750							-.3217	-.4314		
.760				.0509						
.775					.1607	.0273				
.793	.3451									
.798			.0542							
.808				.1684						
.834		.0903								
.839			.1656							
.850					.1340	.0254	-.0673			
.857				.1309						
.862									-.3582	
.865		.0672								
.879			.1519							
.900		.1265			.0639			-.1508		
.905				.1113						
.919			.0648							
.950					.0941	.1430	.1624			
.953				.0629						
.955			.1159							
.965		.1741								

ALPHA (1) = -4.041 BETA (2) = .192 MACH = 1.2480 Q = 600.05 P = 550.40 RN/L = 3.0174

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2140	-.0773	-.0650	.2409	.5969	.5134	.4686	.4839	-.5100	
.010		-.0646	-.0047		.6545	.6233	.5854	.5203		
.020		-.0771		.0000	.5808	.5323	.5064	.4832	-.1278	
.040			.0314	.3546						
.041	-.1684									
.050					.3912	.3407	.3206	.3159		
.059									-.1711	
.080					.2241					
.081				.2490						
.086			.1351							
.094		-.0237								
.113	-.1144									
.150					.0116	-.0045	.0107	.0300		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU34)

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

ALPHA (1) = -4.041 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									-.3030	
.163			.0000							
.177				.0923						
.229		.0330								
.246			.0731							
.247	-.0206				-.1217	-.1511	-.1482	-.1700		
.250				-.0379						
.274									-.3259	
.345										
.362		.1381								
.390			-.0266							
.400					-.2531	-.3020		-.3877		
.402				-.1884						-.5774
.418										
.429	.0354									
.497		-.0029							-.3597	
.503										
.547	.0583				.0057	-.3348				
.550				.1187						
.565								-.4386		
.600										
.633	-.0520									
.637			.1969				-.3740			
.650									-.4228	
.670						-.0376				
.700		.1887								-.5523
.723					.0797					
.725										
.727	.0981						-.0574	-.3440		
.750				.0362						
.760					.1132	.0402				
.775										
.793	.3418									
.798			.0276							
.808				.1152						
.834		.0614								
.839			.1084							
.850					.0939	-.0248	.0322			
.857				.0730					-.1739	
.862										
.865		.0124								
.879			.0999							
.900		.0899			.0118			-.0655		
.905				.0707						
.919			.0189							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (1) = -4.041 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					.0305	.0750	.1627			
.953				.0177						
.955			.0583							
.965		.1265								

ALPHA (1) = -4.051 BETA (3) = 4.275 MACH = 1.2480 Q = 600.05 P = 550.40 RN/L = 3.0174

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1983	-.0982	-.0381	.2519	.5335	.4338	.3798	.3910	-.5685	
.013		-.1060	-.0031		.5759	.5384	.5007	.4400		
.020		-.1219		.0000	.5078	.4565	.4296	.4059	-.2106	
.040			.0277	.3077						
.041	-.2130									
.056					.3402	.2819	.2588	.2521		
.069									-.2425	
.080					.1847					
.081				.2117						
.088			.1133							
.094		-.0365								
.113	-.1571									
.150					-.0044	-.0329	-.0123	-.0007		
.157									-.3574	
.163			.0000							
.177				.0743						
.229		.0127								
.245			.0706							
.247	-.0211									
.250					-.1315	-.1683	-.1829	-.2016		
.274				-.0453						
.345									-.3655	
.362		.1391								
.390			-.0378							
.400					-.2470	-.2939		-.3966		
.402				-.1872						
.418										-.6308
.429	.0409									
.497		-.0270								
.503									-.3757	
.547	.0484									
.550					.0778	-.0637				
.575				.1612						

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (1) = -4.051 BETA (3) = 4.275

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								-.4443		
.633	-.0668									
.637			.2090				-.1099			
.650									-.2937	
.670						.0209				
.700		.2062								-.5254
.723					.0756					
.725										
.727	.1237						.0007	-.1121		
.750										
.760				.0157						
.775					.0730	.0242				
.793	.3356									
.798			.0088							
.808				.0728						
.834		.0423								
.839			.0664							
.850					.0636	-.0625	.0185			
.857				.0260						
.862									-.0976	
.865		-.0232								
.879			.0404							
.900		.0504			-.0190			.1202		
.905				.0212						
.919			-.0168							
.950					-.0240	.0117	.1166			
.953				-.0156						
.955			-.0045							
.965		.0705								

ALPHA (2) = -.032 BETA (1) = -3.867 MACH = 1.2476 Q = 600.19 P = 550.87 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	-.0835	.0115	.0042	.4169	.7171	.6680	.6340	.6453	-.2467	
.010		.0001	.0330		.5751	.6042	.5696	.4729		
.020		-.0263		.0000	.4713	.4592	.4447	.4195	-.0541	
.040			.0538	.2547						
.041	-.0845				.2392	.2102	.2047	.2042		
.050									-.1307	
.069					.0484					
.080										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (2) = -.032 BETA (1) = -3.867

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				.1228						
.086			.1145							
.094		-.0838								
.113	-.0592									
.150					-.1590	-.1467	-.1339	-.1028		
.157									-.3101	
.163			.0000							
.177				-.0699						
.223		-.0072								
.246			-.0223							
.247	-.0729									
.260					-.2708	-.3176	-.3061	-.2960		
.274				-.1891						
.345									-.3713	
.382		.0814								
.390			-.1467							
.400					-.3760	-.4432		-.4900		
.402				-.3242						
.418										-.2547
.429	.0103									
.437		-.0899								
.503									-.4305	
.547	-.0008									
.560					-.3968	-.4806				
.586				-.3005						
.600								-.5271		
.633	-.1469									
.637			-.1785							
.650							-.5264			
.670									-.5305	
.700		-.2126				-.3313				
.723										-.2635
.725					-.1039					
.727	-.2111									
.750							-.5408	-.5210		
.762				-.0512						
.775					.0053	-.1952				
.793	.1786									
.798			-.0295							
.803				.1360						
.817		.0358								
.833			.1334							
.850					.0789	-.1109	-.2623			
.877				.1055						
.913									-.5017	

DATE 11 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (2) = -.032 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		.0363								
.879			.1095							
.900		.0810			.0536			-.3814		
.905				.0782						
.919			.0486							
.950					.0772	.0398	-.1588			
.953				.0462						
.958			.0725							
.965		.1190								

ALPHA (2) = -.029 BETA (2) = .184 MACH = 1.2476 Q = 600.19 P = 550.87 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	-.0981	-.0554	-.0223	.3681	.6396	.5819	.5439	.5474	-.3057	
.010		-.0868	-.0350		.4863	.5152	.4783	.3900		
.020		-.1120		.0000	.3894	.3791	.3645	.3369	-.1256	
.040			.0183	.1786						
.041	-.1484									
.050					.1833	.1546	.1497	.1428		
.059									-.1938	
.080					.0102					
.081				.0778						
.086			.0707							
.094		-.1359								
.113	-.1333									
.150					-.1699	-.1733	-.1645	-.1349		
.157									-.3529	
.163			.0000							
.177				-.0733						
.229		-.0216								
.246			-.0372							
.247	-.1141									
.250					-.2689	-.3188	-.3225	-.3154		
.274				-.1756						
.345									-.3947	
.362		.0548								
.390			-.1462							
.400					-.3663	-.4420		-.4978		
.402				-.3193						
.418										-.1743
.429	-.0044									

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU34)

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

ALPHA (2) = -.029 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										
.497		-.1054							-.4313	
.503										
.547	-.0186				-.3758	-.4606				
.550										
.555				-.2286				-.5250		
.600										
.633	-.1576									
.637			-.0392				-.5290			
.650									-.5113	
.670										
.700		-.0894				-.2165				-.3167
.723										
.725					-.0923					
.747	-.1911						-.4351	-.5147		
.750										
.760				-.0669						
.775					.0378	-.1401				
.793	.2118									
.796			-.0437							
.808				.0796						
.834		-.0025								
.839			.0629							
.850					.0664	-.0667	-.2587			
.857				.0452						
.862									-.4639	
.865		-.0252								
.879			.0358							
.900		.0143			.0062			-.2132		
.905				.0275						
.919			-.0019							
.950					.0128	.0211	-.1299			
.953				.0008						
.955			.0157							
.965		.0464								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (2) = -.035 BETA (3) = 4.251 MACH = 1.2476 Q = 600.19 P = 550.87 PN/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	-.1139	-.1516	-.0816	.3226	.5779	.5032	.4612	.4627	-.2219	
.010		-.1887	-.0485		.4032	.4281	.3863	.3050		
.020		-.1939		.0000	.3184	.3013	.2803	.2559	-.1751	
.040			-.0107	.1409						
.041	-.1935									
.050					.1315	.0980	.0847	.0776		
.069									-.2349	
.080					-.0206					
.091				.0489						
.086			.0460							
.094		-.1523								
.113	-.1893									
.150					-.1799	-.2085	-.2073	-.1736		
.157									-.3805	
.163			.0000							
.177				-.0625						
.229		-.0339								
.246			-.0349							
.247	-.1208									
.250					-.2751	-.3267	-.3386	-.3464		
.274				-.1687						
.345									-.4042	
.362		.0672								
.390			-.1465							
.400					-.3597	-.4355		-.5109		
.402				-.3150						
.418										-.2107
.429	.0011									
.497		-.1148								
.503									-.4368	
.547	-.0183									
.550					-.2446	-.4454				
.565				-.0861						
.600								-.5355		
.633	-.1678									
.637			.0113							
.650							-.5155			
.670									-.5129	
.700		-.0058				-.2045				
.723										-.4204
.725					-.0634					
.727	-.1242									
.750							-.3230	-.3790		
.760				-.0705						
.775					.0372	-.0671				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (2) = -.035 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	.2150									
.798			-.0589							
.808				.0321						
.834		-.0235								
.839			.0160							
.850					.0380	-.0576	-.1364			
.857				-.0064					-.2961	
.862										
.865		-.0583								
.879			-.0163							
.900		-.0278			-.0325			-.1625		
.905				-.0219						
.919			-.0515							
.950					-.0410	-.0184	.0129			
.953				-.0426						
.955			-.0421							
.965		-.0258								

ALPHA (3) = 3.926 BETA (1) = -3.871 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0015	-.0006	-.1055	.4006	.7329	.7059	.6847	.6692	.0451	
.010		-.0559	-.1157		.3473	.4447	.4016	.2783		
.020		-.0786		.0000	.2334	.2701	.2516	.2088	-.1290	
.040			-.0852	.0338						
.041	-.0708									
.050					.0199	.0231	.0118	-.0081		
.069									-.1820	
.080					-.1514					
.081				-.0871						
.086			-.0171							
.094		-.1344								
.113	-.0670									
.150					-.3491	-.3346	-.2988	-.2555		
.157									-.3821	
.163			.0000							
.177				-.2302						
.229		-.1023								
.246			-.1381							
.247	-.0961									
.250					-.4443	-.4756	-.4514	-.4203		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (3) = 3.926 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				-.3234						
.345									-.4642	
.362		-.0016								
.390			-.2624							
.400					-.5012	-.5871		-.5837		
.402				-.4216						
.418										-.2242
.429	-.0457									
.497		-.1841								
.503									-.5543	
.547	-.0717									
.550					-.5062	-.6147				
.565				-.3978						
.600								-.5958		
.633	-.2464									
.637			-.3517							
.650							-.5985			
.670									-.6815	
.700		-.3245				-.5752				
.723										-.5843
.725					-.1757					
.727	-.2973									
.750							-.4528	-.4730		
.760				-.1379						
.775					-.1880	-.2258				
.793	-.0025									
.798			-.1189							
.808				-.0111						
.834		-.0231								
.839			.0673							
.850					-.1431	-.1860	-.3882			
.857				.0297						
.862									-.7324	
.865		-.0214								
.879			.0654							
.900		.0753			-.0836			-.3293		
.905				.0442						
.919			.0354							
.950					.0159	-.1423	-.2989			
.953				.0424						
.955			.0389							
.965		.0436								

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

AMES 11-073(OA148) -140A/B/C R ORB LEFT WING TOP (XEBU34)

ALPHA (3) = 3.924 BETA (2) = .180 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0298	-.1400	-.2866	.2741	.6355	.6183	.6012	.5789	-.0255	
.010		-.1994	-.2416		.2321	.3463	.3101	.1874		
.020		-.1949		.0000	.1483	.1864	.1751	.1194	-.2038	
.040			-.1423	-.0332						
.041	-.1329									
.050					-.0351	-.0323	-.0487	-.0683	-.2454	
.069										
.080					-.1896					
.081				-.1302						
.086			-.0550							
.094		-.2053								
.113	-.1429									
.150					-.3555	-.3588	-.3311	-.2934	-.4202	
.157										
.163			.0000							
.177				-.2240						
.229		-.1019								
.246			-.1466							
.247	-.1554									
.250					-.4324	-.4841	-.4694	-.4475		
.274				-.2992					-.4879	
.345										
.362		-.0111								
.390			-.2493							
.400					-.4823	-.5736		-.5981		
.402				-.4101						
.418										.3857
.429	-.0504									|
.497		-.1940							-.5712	|
.503										
.547	-.0875									
.550					-.4916	-.5914				
.565				-.3822						
.600								-.6161		
.633	-.2609									
.637			-.2734				-.6065			
.650									-.6768	
.670						-.3361				
.700		-.3241								-.7131
.723					-.2112					
.725										
.727	-.2970						-.4431	-.4504		
.750										
.760				-.1609						
.775					-.2007	-.2341				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (3) = 3.924 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	.1176									
.798			-.1115							
.808				-.0384						
.834		-.0402								
.839			-.0138							
.850					-.1028	-.2229	-.3723			
.857				-.0146						
.862									-.7306	
.865		-.1093								
.879			-.0124							
.900		-.0004			-.0604			-.3098		
.905				-.0154						
.919			-.0181							
.950					-.0062	-.1403	-.3079			
.953				-.0175						
.955			-.0228							
.965		-.0343								

ALPHA (3) = 3.934 BETA (3) = 4.244 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0631	-.3089	-.3737	.1484	.5469	.5281	.5085	.4796	-.1234	
.010		-.3526	-.2728		.1415	.2392	.1981	.0704		
.020		-.3188		.0000	.0673	.0929	.0780	.0165	-.2913	
.040			-.2021	-.0723						
.041	-.1780									
.050					-.0876	-.0972	-.1204	-.1499		
.069									-.3192	
.080					-.2069					
.081				-.1348						
.086			-.1580							
.094		-.2676								
.113	-.2016									
.150					-.3474	-.3892	-.3675	-.3423		
.157									-.4610	
.163			.0000							
.177				-.2174						
.229		-.1106								
.245			-.1217							
.247	-.2014									
.250					-.4051	-.4895	-.4926	-.4778		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (3) = 3.934 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										
.274				-.2804						
.345									-.5265	
.362		-.0035								
.390			-.2266							
.400					-.4611	-.5637		-.6130		
.402				-.3927						
.418										-.5706
.429	-.0444									
.497		-.1936								
.503									-.5936	
.547	-.0818									
.550					-.4542	-.5597				
.585				-.3153						
.600								-.6115		
.633	-.2702									
.637			-.2018							
.650							-.6013			
.670									-.6766	
.700		-.2917				-.2750				
.723										-.7239
.725					-.2019					
.727	-.2825									
.750							-.4427	-.4154		
.760				-.1456						
.775					-.1429	-.2360				
.793	.1454									
.798			-.1031							
.808				-.0505						
.834		-.0610								
.839			-.0384							
.850					-.0531	-.2304	-.3301			
.857				-.0640						
.862									-.6705	
.865		-.1255								
.879			-.0604							
.900		-.0520			-.0649			-.2710		
.905				-.0674						
.919			-.0611							
.950					-.0456	-.0767	-.1897			
.953				-.0737						
.955			-.0717							
.965		-.0957								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (4) = 7.988 BETA (1) = -3.866 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0548	-.1196	-.3507	.2125	.6370	.6564	.6590	.6100	-.0935	
.010		-.2135	-.3710		.0337	.1895	.1444	-.0020		
.020		-.1943		.0000	-.0778	.0127	.0074	-.0718	-.3952	
.040			-.2689	-.2477						
.041	-.0666									
.050					-.2467	-.2024	-.2103	-.2541		
.069									-.4106	
.080					-.3835					
.081				-.3647						
.086			-.1924							
.094		-.1790								
.113	-.0673									
.150					-.5560	-.4969	-.4787	-.4421		
.157									-.5475	
.163			.0000							
.177				-.4787						
.229		-.1717								
.246			-.3196							
.247	-.1033									
.250					-.6320	-.6096	-.5863	-.5549		
.274				-.4360						
.345									-.5794	
.362		-.1376								
.390			-.3489							
.400					-.6611	-.6831		-.5625		
.402				-.4945						
.418										-.5744
.429	-.1505									
.497		-.2877								
.503									-.5908	
.547	-.1581									
.550					-.5666	-.6231				
.565				-.4619						
.600								-.5467		
.633	-.3360									
.637			-.4446							
.650							-.5392			
.670									-.5328	
.700		-.4206				-.5444				
.723										-.5253
.725					-.3303					
.727	-.3582									
.750							-.4983	-.5081		
.760				-.2085						
.775					-.3119	-.4536				

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (4) = 7.988 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										
.793	-.1988									
.798			-.1652							
.809				-.1632						
.834		-.0449								
.839			-.0495							
.850					-.2302	-.3872	-.4756			
.857				-.0866						
.862									-.5290	
.865		-.0783								
.879			-.0053							
.900		.1084			-.2051			-.4911		
.905				-.0460						
.913			.0419							
.930					-.1378	-.3270	-.4079			
.953				-.0332						
.970			.0563							
.985		.0268								

ALPHA (4) = 7.987 BETA (2) = .186 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0005	-.3244	-.5404	-.0231	.4970	.5462	.5435	.4900	-.2694	
.010		-.3965	-.5064		-.1016	.0657	.0226	-.1139		
.020		-.3691		.0000	-.2027	-.0826	-.0928	-.1711	-.5130	
.040			-.4070	-.3654						
.041	-.1257									
.060					-.3265	-.2753	-.2849	-.3314		
.069									-.5142	
.080					-.4222					
.081				-.3119						
.085			-.3134							
.094		-.2518								
.113	-.1484									
.160					-.5517	-.5295	-.5131	-.4864		
.157									-.5684	
.163			.0000							
.177				-.3633						
.223		-.2354								
.245			-.2759							
.247	-.1689									
.250					-.5975	-.6212	-.6078	-.5843		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U34)

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

ALPHA (4) = 7.987 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				-.3867					-.5958	
.345										
.352		-.1142								
.390			-.3354							
.400					-.5673	-.6981		-.5937		
.402				-.4569						-.6014
.418										
.429	-.1470									
.497		-.2792							-.5979	
.503										
.547	-.1460				-.5351	-.6408				
.550										
.565				-.4588				-.5655		
.600										
.633	-.3337									
.637			-.4592				-.5716			
.650									-.5492	
.670						-.5262				
.700		-.4048								-.5334
.723					-.2289					
.725										
.727	-.3548						-.5122	-.4883		
.750										
.760				-.1905						
.775					-.2438	-.3821				
.793	-.0166									
.798			-.1700							
.808				-.1563						
.834		-.0641								
.839			-.0812							
.860					-.2093	-.3722	-.4803			
.857				-.1308						
.862									-.5301	
.865		-.1395								
.879			-.0526							
.900		-.0208			-.1876			-.4524		
.905				-.1014						
.919			-.0089							
.950					-.1224	-.2381	-.4169			
.953				-.0921						
.955			-.0099							
.965		-.0470								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (4) = 7.988 BETA (3) = 4.237 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION (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	-.5281	-.5014	-.1804	.3647	.4192	.4192	.3599	-.4652	
.010		-.4765	-.4880		-.2075	-.0557	-.1101	-.2406		
.020		-.4688		.0000	-.2939	-.1872	-.2072	-.2905	-.6003	
.040			-.4571	-.2219						
.041	-.1709									
.060					-.3882	-.3526	-.3647	-.4232		
.080									-.5911	
.080					-.4590					
.081				-.2639						
.100			-.4049							
.101		-.4936								
.113	-.2056									
.120					-.5586	-.5585	-.5530	-.5403		
.140									-.5906	
.142			.0000							
.160				-.2936						
.161		-.2505								
.180			-.3515							
.191	-.2271									
.200					-.4913	-.6350	-.6337	-.6208		
.201				-.3457						
.220									-.6135	
.242		-.0251								
.247			-.2531							
.260					-.5060	-.6826		-.6376		
.262				-.4534						
.278										-.6107
.288	-.1334									
.297		-.2368								
.303									-.6147	
.347	-.1289									
.350					-.5074	-.6428				
.365				-.4727						
.380								-.6125		
.383	-.3468									
.387			-.4153							
.390							-.6030			
.410									-.5871	
.422		-.3824				-.4744				
.423										-.5719
.435					-.2467					
.437	-.3533									
.450							-.5350	-.5113		
.460				-.1887						
.480					-.2085	-.3014				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (4) = 7.988 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										
.793	.0540									
.798			-.1674							
.808				-.1715						
.834		-.1261								
.839			-.1111							
.950					-.1139	-.2367	-.4757			
.857				-.1483						
.862									-.5739	
.865		-.1872								
.879			-.1047							
.900		-.0758			-.1134			-.4563		
.905				-.1373						
.919			-.0964							
.950					-.1084	-.1258	-.3900			
.953				-.0879						
.955			-.1073							
.965		-.1115								

ALPHA (5) = 11.921 BETA (1) = -3.850 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0552	-.3178	-.4801	.0050	.5129	.5500	.5356	.4415	-.3649	
.010		-.3846	-.4480		-.1867	-.0406	-.1285	-.2790		
.020		-.3754		.0000	-.2962	-.2010	-.2455	-.3432	-.5771	
.040			-.3691	-.4519						
.041	-.0579									
.060					-.4424	-.3862	-.4099	-.4752		
.069									-.5734	
.080					-.5452					
.081				-.5109						
.086			-.2981							
.094		-.2576								
.113	-.0781									
.150					-.6750	-.6252	-.6112	-.6059		
.157									-.5802	
.163			.0000							
.177				-.5919						
.229		-.2276								
.245			-.3736							
.247	-.1076									
.250					-.7127	-.7004	-.5975	-.5866		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (5) = 11.921 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				-.5707						
.345									-.5953	
.362		-.1861								
.380			-.4652							
.403					-.7005	-.6675		-.6185		
.402				-.5820						
.418										-.5939
.429	-.1853									
.497		-.4469								
.503									-.5960	
.547	-.2844									
.552					-.6441	-.6089				
.585				-.5457						
.603								-.5807		
.633	-.4626									
.637			-.5242							
.650							-.5710			
.670									-.5448	
.700		-.5196				-.5856				
.703										-.5287
.708					-.5568					
.727	-.4447									
.750							-.5304	-.5795		
.760				-.3233						
.775					-.5339	-.5355				
.793	-.2035									
.798			-.2324							
.808				-.3273						
.834		-.0956								
.839			-.1762							
.850					-.4629	-.4346	-.4921			
.857				-.2734						
.882									-.5408	
.865		-.1129								
.873			-.1378							
.890		.0495			-.4231			-.5642		
.905				-.1290						
.918			-.1564							
.940					-.3596	-.3796	-.4222			
.943				-.0815						
.965			-.1741							
.965		-.0468								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU34)

ALPHA (5) = 11.932 BETA (2) = .189 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0279	-.4742	-.4678	-.2097	.3337	.3796	.3651	.2705	-.5255	
.010		-.4165	-.4548		-.3416	-.1962	-.2803	-.4302		
.020		-.4002		.0000	-.4391	-.3383	-.3913	-.4741	-.6361	
.040			-.4440	-.4882						
.041	-.1373									
.060					-.5581	-.4962	-.5254	-.5823		
.069									-.6130	
.080					-.6386					
.081				-.5080						
.088			-.4175							
.094		-.4574								
.113	-.1763									
.120					-.7387	-.6905	-.6768	-.6766		
.137									-.6096	
.163			.0000							
.177				-.4882						
.229		-.5297								
.246			-.4591							
.247	-.1682									
.280					-.7271	-.7186	-.6510	-.6664		
.274				-.5111						
.345									-.6080	
.362		-.3733								
.390			-.4338							
.400					-.7018	-.7092		-.6629		
.402				-.5172						
.419										-.6018
.439	-.2538									
.497		-.4087								
.503									-.6092	
.547	-.2559									
.560					-.6832	-.6699				
.575				-.5087						
.600								-.6198		
.633	-.4466									
.637			-.5507							
.650							-.6008			
.670									-.5879	
.700		-.4744				-.6122				
.723										-.5741
.725					-.4207					
.727	-.4311									
.750							-.5393	-.5920		
.760				-.2300						
.775					-.3921	-.5482				

AMES 11-073(OA14C) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (5) = 11.932 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	-.1435									
.798			-.2413							
.808				-.2675						
.834		-.1312								
.838			-.2078							
.850					-.2790	-.4664	-.4920			
.857				-.2124						
.882									-.5761	
.895		-.1736								
.899			-.1398							
.910		-.0707			-.2365			-.5740		
.915				-.2659						
.918			-.0796							
.928					-.1947	-.3596	-.4541			
.933				-.2301						
.946			-.1027							
.955		-.0593								

ALPHA (5) = 11.924 BETA (3) = 4.253 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0315	-.5047	-.5135	-.4257	.1532	.1963	.1928	.0936	-.6360	
.010		-.4926	-.5159		-.4873	-.3515	-.4090	-.5349		
.020		-.4898		.0000	-.5610	-.4805	-.5080	-.5794	-.6083	
.040			-.5202	-.4229						
.041	-.1995									
.060					-.6544	-.5981	-.6133	-.6634		
.089									-.5943	
.090					-.5719					
.091				-.4134						
.096			-.4890							
.094		-.5610								
.113	-.2242									
.130					-.6736	-.7082	-.6796	-.6802		
.157									-.5929	
.173			.0000							
.177				-.4397						
.178		- 6597								
.196			-.4810							
.197	- 2570									
.1 -					-.6332	-.6254	-.6642	-.6843		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U34)

ALPHA (5) = 11.924 BETA (3) = 4.253

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				-.4550						
.345									-.5846	
.362		-.3507								
.390			-.5412							
.400					-.6232	-.6620		-.6135		
.402				-.5136						
.418										-.5918
.429	-.2791									
.497		-.3611								
.503									-.5885	
.547	-.2135									
.580					-.5528	-.6289				
.584				-.5287						
.606								-.5927		
.673	-.4090									
.687			-.5029							
.693							-.6157			
.699									-.5782	
.710		-.3989				-.5728				
.713										-.5586
.726					-.2055					
.727	-.4050									
.733							-.5811	-.5768		
.760				-.2538						
.775					-.2494	-.5371				
.783	-.0192									
.799			-.2145							
.818				-.3041						
.834		-.2042								
.839			-.1637							
.850					-.2431	-.5054	-.5610			
.857				-.2579						
.862									-.5681	
.865		-.2130								
.879			-.1692							
.900		-.1211			-.2807			-.5659		
.905				-.2238						
.919			-.1113							
.950					-.3329	-.1556	-.4527			
.953				-.1766						
.966			-.0907							
.985		-.0920								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35) (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 = 10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = 10.000 MACH = 1.100

ALPHA (I) = -4.064 BETA (I) = -3.846 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2876	-.1152	-.1627	.2658	.5893	.5237	.4715	.4883	-.6195	
.010		-.0512	-.0516		.7155	.6871	.6480	.5737		
.020		-.0491		.0000	.6418	.5970	.5688	.5290	-.1317	
.040			.0353	.4740						
.041	-.1478									
.050					.4296	.3881	.3695	.3442		
.069									-.1956	
.080					.2515					
.091				.3594						
.096			.2364							
.094		-.0128								
.113	-.1148									
.150					.0291	.0105	.0127	.0024		
.157									-.3489	
.163			.0000							
.177				.0696						
.229		.0267								
.246			.1772							
.247	.0017									
.250					-.1450	-.2001	-.2128	-.2521		
.274				-.0441						
.345									-.3598	
.362		.2121								
.390			-.0068							
.400					-.0257	-.1433		-.4633		
.402				-.1403						
.418										-.7041
.429	.1100									
.497		.0144								
.503									-.3887	
.547	.1221									
.550					.0873	-.0534				
.565				.1854						
.610								-.2323		
.633	-.0210									
.637			.2360							
.650							-.1724			
.670									-.2081	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (1) = -4.064 BETA (1) = -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										
.700		.2569				-.0598				-.6504
.723										
.725					-.0072					
.727	.2250									
.750							-.1035	-.1407		
.760				-.0557						
.775					.0164	-.0960				
.793	.3560									
.799			-.0412							
.808				.0528						
.834		-.0090								
.839			.0803							
.850					.0027	-.1234	-.0046			
.857				.0386						
.862									.0186	
.865		-.0135								
.879			.0397							
.900		.0099			-.0391			.1079		
.905				-.0087						
.919			-.0245							
.950					.0615	.1238	.1529			
.953				.0209						
.955			.0456							
.965		.0879								

ALPHA (1) = -4.062 BETA (2) = .195 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2771	-.1212	-.0980	.2799	.5296	.4425	.3859	.3965	-.7031	
.010		-.0893	-.0252		.6502	.6276	.5954	.5316		
.020		-.0788		.0000	.5879	.5495	.5316	.4951	-.2108	
.040			.0455	.4252						
.041	-.2397									
.050					.4002	.3725	.3568	.3339		
.059									-.2503	
.080					.2423					
.081				.3307						
.086			.2054							
.094		-.0431								
.113	-.1827									
.150					.0438	.0407	.0387	.0177		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U35)

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

ALPHA (1) = -4.062 BETA (2) = .195

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3566	
.163			.0000							
.177				.1085						
.229		.0203								
.246			.1580							
.247	-.0167				-.0924	-.1481	-.1654	-.2209		
.250				.0002						
.274									-.2910	
.345										
.362		.1987								
.380			.0074		.0476	-.0404		-.2999		
.400										
.402				-.0324						-.7894
.418										
.429	.1113									
.497		.0541							-.3038	
.503										
.547	.1170				.0709	-.0643				
.550										
.555				.1671				-.3035		
.600										
.633	.0420									
.637			.2119				-.1883			
.650									-.2619	
.670						-.0832				
.700		.2425								-.6908
.723					-.0285					
.725										
.727	.2151						-.1476	-.2070		
.750										
.760				-.0825						
.775					-.0270	-.1258				
.793	.3309									
.798			-.0676							
.808				-.0012						
.834		-.0355								
.839			.0100							
.850					-.0440	-.1725	-.0935			
.857				-.0245						
.862									-.0413	
.875		-.0762								
.879			-.0132							
.900		-.0348			-.1085			.0205		
.905				-.0565						
.913			-.0964							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (1) = -4.062 BETA (2) = .195

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					-.0613	-.0326	.0607			
.953				-.0860						
.955			-.0302							
.965		.0091								

ALPHA (1) = -4.062 BETA (3) = 4.274 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2759	-.1327	-.0471	.3300	.4954	.3758	.3018	.3042	-.7781	
.010		-.0823	.0009		.6017	.5506	.5110	.4533		
.020		-.0748		.0000	.5420	.4860	.4526	.4206	-.2990	
.040			.0657	.3973						
.041	-.3033									
.050					.3741	.3204	.2992	.2806		
.069									-.3153	
.080					.2278					
.081				.3226						
.085			.2436							
.094		-.0596								
.113	-.2425									
.150					.0488	.0237	.0192	-.0039		
.157									-.3752	
.163			.0000							
.177				.1314						
.229		.0319								
.246			.1821							
.247	-.0344									
.250					-.0730	-.1532	-.1695	-.1745		
.274				.0227						
.345									-.3276	
.362		.2063								
.390			.0268							
.400					.0396	-.0388		-.3003		
.402				-.0345						
.418										-.4311
.429	.1300									
.497		.0592								
.503									-.3073	
.547	.1504									
.550					.0536	-.0715				
.565				.1482						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (1) = -4.062 BETA (3) = 4.274

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3200		
.633	.0558									
.637			.1878							
.653							-.2064			
.670									-.2405	
.700		.2151				-.1134				
.723										-.3797
.725					-.0571					
.727	.1893									
.750							-.1865	-.2388		
.760				-.1040						
.775					-.0704	-.1598				
.793	.3064									
.799			-.0919							
.818				-.0555						
.824		-.0636								
.839			-.0515							
.860					-.0876	-.2178	-.1629			
.867				-.0994						
.882									-.0351	
.888		-.1280								
.879			-.0730							
.900		-.0793			-.1700			-.0297		
.908				-.1062						
.919			-.1533							
.940					-.1405	-.1300	-.0209			
.943				-.1519						
.946			-.1127							
.965		-.0699								

ALPHA (2) = -.023 BETA (1) = -3.863 MACH = 1.0993 Q = 599.08 P = 708.12 RN/L = 3.1793

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1511	-.0477	-.0102	.4506	.6736	.6089	.5722	.5785	-.3959	
.010		-.0693	.0246		.5657	.5769	.5265	.4146		
.020		-.0955		.0000	.4558	.4283	.3978	.3548	-.1563	
.040			.0558	.2966						
.041	-.1560									
.060					.2200	.1671	.1431	.1242		
.069									-.2284	
.080					.0196					

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (2) = -.023 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				.1517						
.086			.1471							
.094		-.0997								
.113	-.1180									
.150					-.2158	-.2490	-.2360	-.2118		
.157									-.4411	
.163			.0000							
.177				-.0727						
.229		-.0172								
.246			.0214							
.247	-.0863									
.250					-.3310	-.3957	-.4182	-.4294		
.274				-.2139						
.345									-.4730	
.362		.1156								
.380			-.1792							
.400					-.4594	-.5473		-.6413		
.402				-.3863						
.418										-.1626
.429	.0617									
.497		-.0978								
.503									-.5345	
.547	.0310									
.550					-.0892	-.4449				
.565				.0333						
.600								-.6338		
.633	-.1998									
.637			.1102							
.650							-.5484			
.670									-.3488	
.700		.1101				-.1298				
.723										-.3753
.725					-.0413					
.727	.0322									
.750							-.0886	-.2520		
.760				-.0800						
.775					.0151	-.0727				
.793	.2788									
.798			-.0717							
.808				.0404						
.834		-.0354								
.839			.0599							
.850					.0087	-.0264	.0984			
.857				.0104						
.862									-.1771	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (2) = -.023 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										
.885		-.0119								
.879			.0131							
.900		-.0157			.0080			-.1201		
.935				-.0228						
.919			-.0460							
.950					.0715	.1321	.1841			
.963				.0184						
.955			.0157							
.905		.0416								

ALPHA 2) = -.020 BETA (2) = .185 MACH = 1.0993 Q = 599.08 P = 708.12 RN/L = 3.1793

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1757	-.1216	-.0358	.4195	.6096	.5359	.4935	.5079	-.2373	
.012		-.1637	-.0172		.4804	.4860	.4516	.3602		
.030		-.1847		.0000	.3827	.3471	.3268	.3036	-.1566	
.040			.0339	.2305						
.041	-.2292									
.060					.1704	.1131	.0948	.0861		
.089									-.2245	
.080					-.0140					
.081				.1030						
.095			.1322							
.094		-.1102								
.113	-.1897									
.150					-.2251	-.2555	-.2451	-.2195		
.157									-.4330	
.163			.0000							
.177				-.0902						
.188		-.0327								
.196			-.0047							
.207	-.0951									
.250					-.3200	-.3557	-.4134	-.4323		
.274				-.2159						
.345									-.4489	
.362		.0939								
.390			-.1781							
.422					-.4404	-.5238		-.6144		
.479				-.3663						
.418										-.1731
.429	.0607									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (2) = -.020 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										
.497		-.1133								
.503									-.5042	
.547	.0089									
.550					-.0055	-.1277				
.565				.1016						
.600								-.5942		
.633	-.1918									
.637			.1431							
.650							-.1921			
.670									-.3388	
.700		.1250				-.1151				
.723										-.4390
.725					-.0544					
.727	.0980									
.750							-.0976	-.1270		
.760				-.0931						
.775					-.0440	-.'				
.793	.2642									
.798			-.0872							
.808				-.0087						
.834		-.0634								
.839			.0066							
.850					-.0551	-.1348	.0541			
.857				-.0413						
.862									-.1880	
.865		-.0526								
.879			-.0357							
.900		-.0578			-.1061			.1240		
.905				-.0724						
.910			-.0836							
.9[illegible]					-.0163	.0617	.1328			
.9[illegible]				-.0781						
.955			-.0607							
.965		-.0427								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (2) = -.024 BETA (3) = 4.249 MACH = 1.0993 Q = 599.08 P = 708.12 RN/L = 3.1793

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.3390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1935	-.2417	-.0625	.4085	.5806	.4821	.4274	.4289	-.1966	
.010		-.2783	-.0254		.4214	.4105	.3583	.2517		
.020		-.2778		.0000	.3274	.2760	.2449	.1987	-.2131	
.040			.0308	.2114						
.041	-.2892									
.068					.1368	.0551	.0253	.0012		
.069									-.2763	
.080					-.0330					
.081				.1104						
.089			.1296							
.094		-.1226								
.113	-.2435									
.135					-.2081	-.2629	-.2700	-.2663		
.157									-.4686	
.163			.0000							
.177				-.0895						
.200		-.0183								
.206			.0219							
.247	-.3892									
.250					-.3055	-.3680	-.3865	-.4525		
.274				-.1821						
.348									-.4671	
.352		.1123								
.360			-.1552							
.402					- 3960	-.4984		-.6143		
.402				-.3207						
.418										-.2619
.429	.0715									
.437		-.0833								
.503									-.5138	
.547	.0327									
.560					-.0028	-.1042				
.565				.0783						
.600								-.5133		
.633	-.1642									
.647			.1065							
.650							-.1996			
.670									-.3111	
.700		.1220				-.1331				
.723										-.5420
.725					-.0805					
.727	.0866									
.750							-.1606	-.0385		
.770				-.1231						
.775					-.0885	-.1667				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U35)

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

ALPHA (2) = -.024 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	.2284									
.798			-.1186							
.808				-.0645						
.834		-.0918								
.839			-.0626							
.850					-.1006	-.1885	-.0128			
.857				-.1046					-.2110	
.862										
.865		-.1143								
.879			-.0968							
.900		-.1100			-.1793			.1197		
.905				-.1299						
.919			-.1505							
.950					-.1441	-.0813	.0811			
.953				-.1545						
.955			-.1412							
.965		-.1301								

ALPHA (3) = 3.952 BETA (1) = -3.863 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0737	-.0772	-.1307	.4668	.7100	.6826	.6687	.6328	.0064	
.010		-.1508	-.1172		.3219	.3910	.3299	.1440		
.020		-.1759		.0000	.2053	.2095	.1684	.0791	-.2525	
.040			-.0605	.0526						
.041	-.1421									
.050					-.0400	-.0670	-.0975	-.1551	-.3231	
.069					-.2211					
.080										
.081				-.0989						
.086			.0003							
.094		-.2239								
.113	-.1210				-.3872	-.4508	-.4346	-.4050	-.5438	
.150										
.157										
.163			.0000							
.177				-.2574						
.229		-.0807								
.245			-.1407							
.247	-.1686									
.253					-.5014	-.5768	-.5928	-.5778		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U35)

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

ALPHA (3) = 3.952 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										
.274				-.3633					-.6461	
.345										
.382		.0414								
.390			-.3004		-.5814	-.7187		-.6740		
.402				-.4963						-.4395
.416										
.489	.0072									
.497		-.1996							-.7200	
.503										
.547	-.0692				-.3245	-.6782				
.560				-.1983				-.4931		
.585										
.633	-.3090									
.637			-.1189				-.5132			
.650									-.7011	
.670						-.3835				
.700		-.1345								-.7900
.723					-.1230					
.725										
.727	-.3124						-.4341	-.3747		
.750				-.0729						
.760					-.0333	-.1276				
.775										
.793	.1988									
.798			-.0936							
.809				.0869						
.834		-.0386								
.839			.0789							
.850					.0395	-.0769	-.3311			
.857				.0529					-.6608	
.882										
.885		-.0225								
.893			.0455							
.900		.0199			.0364			-.2686		
.905				.0349						
.919			.0229							
.930					.0633	.0394	-.2218			
.953				.0503						
.975			.0481							
.986		.0658								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU35)

ALPHA (3) = 3.952 BETA (2) = .189 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785

SECTION (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	-.2342	-.2531	.3770	.6304	.6007	.5849	.5518	-.0889	
.010		-.3045	-.1934		.2235	.2935	.2285	.0633		
.020		-.3014		.0000	.1183	.1132	.0813	-.0098	-.3348	
.040			-.1018	.0042						
.041	-.2237									
.050					-.0909	-.1261	-.1564	-.2127		
.059									-.3793	
.080					-.2543					
.081				-.1236						
.086			-.0128							
94		-.2943								
.113	-.2069									
.150					-.3984	-.4703	-.4547	-.4315		
.157									-.5788	
.163			.0000							
.177				-.2594						
.229		-.0878								
.246			-.1469							
.247	-.2249									
.250					-.4923	-.5783	-.5984	-.5911		
.274				-.3576						
.345									-.6695	
.362		.0318								
.390			-.3022							
.400					-.5510	-.6835		-.7611		
.402				-.4780						
.418										-.6046
.429	.0183									
.497		-.2121								
.503									-.7320	
.547	-.0883									
.550					-.2591	-.6603				
.565				-.1418						
.600								-.5650		
.633	-.3161									
.641			-.0648							
.650							-.5767			
.670									-.6607	
.700		-.0858				-.1824				
.723										-.6718
.725					-.1356					
.727	-.1962									
.750							-.4517	-.3704		
.760				-.1309						
.775					-.0490	-.1223				

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A'B/C/R ORB LEFT WING TOP (XE8L35)

ALPHA (3) = 3.952 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	.2093									
.798			-.1049							
.903				-.0126						
.834		-.0707								
.839			-.0273							
.910					-.0175	-.0503	-.2452			
.851				-.0437						
.855									-.5842	
.860		-.1010								
.865			-.0425							
.870		-.0503			-.0362			-.2589		
.875				-.0554						
.880			-.0791							
.885					.0170	.0201	-.0429			
.890				-.0343						
.895			-.0709							
.900		-.0769								

ALPHA (3) = 3.952 BETA (3) = 4.243 M/CH = 1.0983 Q = 598.70 P = 709.05 RN/L = 3.1785

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1610	-.4375	-.3142	.2875	.5626	.5181	.4972	.4353	-.2827	
.010		-.4873	-.1658		.1256	.1820	.0997	-.0753		
.020		-.4448		.0000	.0414	.0181	-.0316	-.1456	-.4800	
.040			-.1027	-.0167						
.045	-.2865									
.050					-.1284	-.1927	-.2456	-.3146		
.060									-.4888	
.069					-.2726					
.080				-.1220						
.090			-.0022							
.100		-.3181								
.113	-.2829				- 4020	-.4912	-.5059	-.5028		
.150									-.6448	
.175			.0000							
.187				-.2327						
.200		-.0802								
.225			-.1241							
.250	- 2472				-.4608	-.5976	-.6213	-.6372		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU35)

ALPHA (3) = 3.950 BETA (3) = 4.243

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				-.3157						
.345									-.7059	
.362		.0511								
.390			-.2651							
.400					-.5403	-.6516		-.7738		
.402				-.4437						
.418										-.7152
.429	.0531									
.497		-.1771								
.503									-.6879	
.547	-.0551									
.560					-.2355	-.5914				
.565				-.1428						
.600								-.6639		
.633	-.2931									
.637			-.0477							
.650							-.6085			
.670									-.5825	
.700		-.0302				-.2453				
.723										-.5822
.725					-.14.7					
.727	-.1730									
.750							-.2519	-.4202		
.760				-.1387						
.775					-.0971	-.1804				
.793	.1770									
.798			-.1283							
.808				-.1127						
.834		-.1095								
.839			-.1103							
.850					-.1073	-.1572	-.0323			
.857				-.1401						
.862									-.5271	
.865		-.1531								
.879			-.1269							
.900		-.1254			-.1643			-.3461		
.905				-.1620						
.919			-.1600							
.950					-.0943	-.0347	.1114			
.953				-.1674						
.955			-.1669							
.965		-.1749								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU35)

ALPHA (4) = 8.030 BETA (1) = -3.862 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1769

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0348	-.2300	-.5227	.2229	.6184	.6172	.5935	.4956	-.2819	
.010		-.3258	-.5274		-.0484	.0749	-.0241	-.2243		
.020		-.3033		.0000	-.1327	-.1078	-.1637	-.3049	-.6540	
.040			-.3844	-.2016						
.041	-.1533									
.060					-.3100	-.3286	-.3867	-.4828	-.5922	
.069					-.4574					
.080										
.081				-.3191						
.086			-.2859							
.09.		-.2								
.113	-.1267									
.150					-.6638	-.6479	-.6627	-.6543	-.5796	
.167										
.183			.0000							
.177				-.4343						
.229		-.2457								
.246			-.2354							
.247	-.1864									
.250					-.6984	-.7749	-.6579	-.6475		
.274				-.4835					-.5545	
.345										
.352		-.0143								
.390			-.3822							
.400					-.7102	-.7773		-.6657		
.402				-.5848						-.5708
.418										
.429	-.0966									
.497		-.2912							-.5464	
.503										
.547	-.1130									
.550					-.4960	-.609:				
.565				-.4055						
.600								-.5630		
.633	-.3975									
.637			-.3737							
.650							-.5503		-.5092	
.670						-.5619				
.700		-.5112								-.4931
.723										
.725					-.2749					
.727	-.4437									
.750							-.4830	-.5283		
.760				-.1303						
.775					-.2797	-.4350				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (4) = 8.030 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	.1151									
.798			-.0950							
.808				-.0092						
.834		.0224								
.839			.0170							
.850					-.1462	-.3601	-.4019			
.857				-.0116						
.862									-.4597	
.865		.0153								
.879			-.0134							
.900		.0399			-.0768			-.4887		
.905				-.0343						
.919			-.0280							
.950					.0086	-.2258	-.3538			
.953				.0004						
.955			-.0084							
.965		-.0081								

ALPHA (4) = 8.038 BETA (2) = .183 MACH = 1.0987 Q = 598.57 P = 708.36 RN/L = 3.1769

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1013	-.4645	-.6863	.0460	.4867	.4922	.4671	.3680	-.4897	
.010		-.5299	-.5852		-.1709	-.0622	-.1647	-.3517		
.020		-.4887		.0000	-.2542	-.2185	-.2785	-.4129	-.6451	
.040			-.4684	-.2483						
.041	-.2190									
.060					-.3725	-.4159	-.4713	-.5705		
.069									-.6231	
.080					-.4991					
.081				-.3087						
.096			-.3592							
.094		-.3651								
.113	-.2190									
.150					-.6666	-.6871	-.7073	-.7090		
.157									-.5972	
.163			.0000							
.177				-.3875						
.229		-.2340								
.246			-.2820							
.247	-.2610									
.250					-.6778	-.7962	-.7068	-.7012		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (4) = 8.038 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										
.274				-.4414						
.345									-.5891	
.362		.0097								
.390			-.4051							
.420					-.6704	-.8019		-.7246		
.402				-.5593						
.418										-.5855
.429	-.0340									
.497		-.3009								
.503									-.5868	
.547	-.1203									
.560					-.3940	-.6430				
.565				-.4074						
.600								-.5945		
.623	-.4027									
.637			-.3232							
.660							-.5800			
.690									-.5814	
.700		-.4351				-.5400				
.723										-.5454
.725					-.2059					
.727	-.4238									
.750							-.5045	-.5660		
.760				-.1099						
.775					-.2274	-.4069				
.793	.0996									
.798			-.1177							
.808				-.0493						
.834		-.0555								
.839			-.0185							
.850					-.1550	-.3080	-.4030			
.857				-.0875						
.862									-.5132	
.865		-.0749								
.879			-.0400							
.900		-.0014			-.1254			-.5182		
.905				-.1121						
.919			-.0739							
.950					-.0213	-.1187	-.3698			
.953				-.0894						
.955			-.0760							
.965		-.0804								

AMES 11-073(OA148) -140A/B/Ç/R ORB LEFT WING TOP (XE8U35)

ALPHA (4) = 8.037 BETA (3) = 4.237 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1769

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1654	-.6838	-.4629	-.0279	.3584	.3588	.3243	.2146	-.6902	
.010		-.6045	-.4240		-.2824	-.1971	-.3144	-.4943		
.020		-.5770		.0000	-.3521	-.3301	-.4206	-.5493	-.7226	
.040			-.4031	-.1329						
.041	-.2871									
.050					-.4192	-.4912	-.5616	-.6668		
.069									-.6520	
.080					-.5093					
.081				-.1803						
.086			-.2634							
.094		-.6546								
.113	-.3154									
.150					-.6012	-.7164	-.7543	-.7733		
.157									-.6499	
.163			.0000							
.177				-.2942						
.229		-.1972								
.245			-.2516							
.247	-.3248									
.250					-.5780	-.8024	-.8209	-.7984		
.274				-.3961						
.345									-.6430	
.362		.0532								
.390			-.3357							
.400					-.5991	-.8133		-.7955		
.402				-.5247						
.418										-.6322
.429	-.0432									
.497		-.2613								
.503									-.6384	
.547	-.1002									
.550					-.4556	-.6974				
.565				-.3179						
.600								-.6512		
.633	-.3910									
.637			-.1905							
.650							-.6085			
.670									-.6229	
.700		-.2983				-.4675				
.723										-.6078
.725					-.1613					
.727	-.3943									
.750							-.5272	-.6081		
.760				-.2034						
.775					-.1297	-.2649				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U35)

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

ALPHA (4) = 8.037 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										
.793	.1045									
.798			-.1519							
.808				-.1813						
.834		-.1528								
.839			-.1500							
[illegible]					-.1231	-.1914	-.4794			
.857				-.2029					-.5965	
.862										
.868		-.1896								
.879			-.1306					-.5621		
[illegible]		-.1184			-.1680					
.905				-.1575						
.919			-.1481							
.950					-.0748	-.1191	-.4366			
.953				-.1841						
[illegible]			-.1481							
.966		-.1602								

ALPHA (5) = 11.975 BETA (1) = -3.042 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0493	-.4568	-.6420	-.1534	.3650	.3954	.3636	.2491	-.6079	
.010		-.5220	-.5904		-.4494	-.3012	-.4107	-.5827		
.020		-.5072		.0000	-.5598	-.4662	-.5365	-.6370	-.6344	
.040			-.5045	-.6138						
.041	-.1494									
.059					-.6937	-.6432	-.6878	-.7650	-.5652	
.069					-.7908					
.080				-.6984						
.081										
.086			-.4170							
.094		-.3728								
.113	-.1347				-.8083	-.7401	-.7255	-.7795	-.5531	
.150										
.157										
.163			.0000							
.177				-.5810						
.209		-.3255								
[illegible]			-.3748							
.247	-.1839				-.7953	-.7444	-.7435	-.7698		
.250										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U3S)

ALPHA (5) = 11.975 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										
.274				-.4505						
.345									-.5539	
.362		-.2355								
.390			-.4414							
.400					-.7100	-.7022		-.5825		
.402				-.5840						
.418										-.5491
.429	-.2627									
.497		-.3886								
.503									-.5546	
.547	-.1577									
.550					-.6757	-.6809				
.565				-.4354						
.600								-.5668		
.633	-.4476									
.637			-.3807							
.650							-.5998			
.670									-.5264	
.700		-.5590				-.6309				
.723										-.5153
.725					-.4955					
.727	-.4933									
.750							-.5667	-.5599		
.760				-.2803						
.775					-.5284	-.5659				
.793	.0435									
.799			-.2719							
.808				-.3940						
.834		-.0886								
.839			-.1905							
.850					-.3491	-.4557	-.5408			
.857				-.3349						
.862									-.4891	
.865		-.1361								
.879			-.1948							
.900		-.0412			-.2969			-.5431		
.905				-.2911						
.919			-.1503							
.950					-.1905	-.3571	-.4957			
.953				-.1880						
.965			-.0574							
.965		-.1267								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (5) = 11.986 BETA (2) = .188 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1348	-.6290	-.6084	-.3929	.1966	.2368	.2058	.0997	-.7193	
.010		-.5422	-.5911		-.5893	-.4256	-.5217	-.6858		
.020		-.5213		.0000	-.6740	-.5861	-.6435	-.7359	-.6276	
.040			-.5752	-.3808						
.041	-.2374									
.050					-.7267	-.7173	-.7693	-.8380		
.069									-.6165	
.080					-.7222					
.081				-.3789						
.086			-.5309							
.094		-.5989								
.113	-.2590									
.150					-.6957	-.8055	-.7906	-.8482		
.157									-.6046	
.163			.0000							
.177				-.3619						
.223		-.6926								
.246			-.4646							
.247	-.2616									
.250					-.6870	-.8029	-.8006	-.6655		
.274				-.5124						
.345									-.5994	
.362		-.1741								
.380			-.5745							
.400					-.7153	-.7498		-.6172		
.402				-.6175						
.418										-.5906
.429	-.2398									
.437		-.3378								
.503									-.5966	
.507	-.1056									
.550					-.6321	-.7130				
.565				-.5401						
.600								-.6125		
.633	-.5052									
.647			-.6001							
.650							-.6501			
.670									-.5740	
.700		-.5348				-.6523				
.723										-.5817
.725					-.3809					
.727	-.5236									
.750							-.6321	-.6006		
.760				-.2484						
.775					-.3726	-.5537				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (5) = 11.986 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	-.0368									
.798			-.1488							
.808				-.3585						
.834		-.1210								
.833			-.1213							
.850					-.3255	-.4536	-.6032			
.857				-.3061						
.862									-.5423	
.865		-.1051								
.879			-.1469							
.900		-.0399			-.2471			-.5868		
.905				-.3264						
.919			-.1717							
.950					-.1530	-.2833	-.5452			
.953				-.2988						
.975			-.1679							
.985		-.1293								

ALPHA (5) = 11.981 BETA (3) = 4.246 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2139	-.6725	-.6637	-.4543	.0806	.0879	.0506	-.0753	-.7732	
.010		-.6462	-.6514		-.6475	-.5422	-.6426	-.7890		
.020		-.6459		.0000	-.7160	-.6791	-.7390	-.8257	-.7005	
.040			-.6255	-.1533						
.041	-.3319									
.050					-.7483	-.7885	-.8486	-.7472		
.059									-.6781	
.080					-.7365					
.081				-.2499						
.086			-.5023							
.094		-.7107								
.113	-.3215									
.150					-.7001	-.8742	-.8774	-.7171		
.157									-.6672	
.163			.0000							
.177				-.4664						
.229		-.8347								
.245			-.4492							
.247	-.3764									
.250					-.6340	-.8671	-.8647	-.7282		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U35)

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

ALPHA (5) = 11.981 BETA (3) = 4.246

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				-.4470						
.345									-.6601	
.362		-.0414								
.390			-.4488							
.400					-.6473	-.7967		-.7223		
.402				-.5778						-.6544
.418										
.429	-.1879									
.497		-.3154							-.6539	
.503										
.547	-.1007									
.550					-.5184	-.7473				
.566				-.6341						
.610								-.7008		
.633	-.4707									
.637			-.4639							
.650							-.7312			
.670									-.6269	
.700		-.4459				-.6076				
.723										-.6052
.736					-.2951					
.747	-.4785									
.751							-.7094	-.6724		
.760				-.2738						
.775					-.4044	-.4650				
.793	-.0283									
.798			-.1924							
.800				-.3523						
.834		-.1654								
.859			-.2201							
.860					-.3161	-.4018	-.6578			
.867				-.3253						
.882									-.5827	
.886		-.1936								
.879			-.2049							
.900		-.1327			-.3336			-.6471		
.905				-.2714						
.919			-.1661							
.950					-.2653	-.1745	-.5766			
.953				-.2933						
.965			-.1730							
.965		-.1512								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU36: 16 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 = 10.000 SPOBRK = 35.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = 10.000 MACH = .900

ALPHA (1) = -4.063 BETA (1) = -3.844 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/JW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4500	-.0450	-.1049	.1503	.4083	.3204	.2509	.2661	-1.0699	
.010		.0347	.0513		.6132	.5767	.5338	.4436		
.020		.0422		.0000	.5432	.4914	.4567	.3972	-.3910	
.040			.1609	.3873						
.041	-.0518									
.050					.3300	.2742	.2495	.1915		
.069									-.4632	
.080					.1372					
.081				.2637						
.086			.2879							
.094		.0540								
.113	.0408									
.150					-.0862	-.1282	-.1865	-.1858		
.157									-.5649	
.163			.0000							
.177				-.0081						
.229		.1584								
.246			.0802							
.247	.0731									
.250					-.2873	-.3409	-.3876	-.4967		
.274				-.1619						
.345									-.4970	
.362		.1530								
.390			-.1271							
.400					-.2069	-.3312		-.6273		
.402				-.1941						
.418										-.4898
.429	.1593									
.497		-.0829								
.503									-.0550	
.547	.0255									
.550					-.1509	-.3024				
.565				-.0395						
.600								-.1423		
.633	-.1130									
.637			.0262							
.660							-.1578			
.670									-.0510	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U36)

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

ALPHA (1) = -4.063 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		.0580				-.1169				-.4959
.723										
.726					-.1029					
.727	.0323									
.750							.0532	.0477		
.752				-.1640						
.775					.0339	-.0356				
.773	.1787									
.798			-.1622							
.808				.0686						
.824		-.1527								
.839			.0778							
.850					.0871	.0575	.1093			
.857				.0655						
.862									.0505	
.865		.0118								
.879			.0538							
.900		.0065			.0730			.1231		
.905				.0685						
.919			.0486							
.950					.0979	.1379	.1508			
.953				.0775						
.965			.0561							
.965		.0801								

ALPHA (1) = -4.055 BETA (2) = .194 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4630	-.0051	-.0290	.1656	.3507	.2323	.1538	.1591	-.7487	
.010		.0359	.0614		.5457	.4999	.4599	.3783		
.020		.0336		.0000	.4837	.4301	.4009	.3415	-.4808	
.040			.1476	.3336						
.041	-.1032									
.050					.2863	.2367	.2158	.1648		
.079									-.5225	
.090					.1100					
.091				.2291						
.095			.2493							
.09-		.0341								
.1-	.0264									
.1-					-.0916	-.1287	-.1785	-.1944		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U35)

ALPHA (1) = -4.055 BETA = .194

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									-.5683	
.163			.0000							
.177				-.0127						
.229		.1398								
.246			.0552							
.247	.0545									
.250					-.2745	-.3148	-.3631	-.4956		
.274				-.1529						
345									-.4445	
.342		.1358								
.390			-.1292							
.400					-.2139	-.3276		-.6033		
.402				-.1975						
.418										-.4376
.429	.1343									
.497		-.0887								
.503									-.1226	
.547	.0101									
.550					-.1982	-.3486				
.565				-.0837						
.600								-.3931		
.633	-.1192									
.637			-.0323							
.650							-.3270			
.670									-.0580	
.700		.0123				-.1780				
.723										-.4305
.725					-.2261					
.727	-.0113									
.750							.0576	.0531		
.760				-.2718						
.775					-.0219	-.0738				
.793	.1145									
.798			-.2296							
.808				.0026						
.834		-.2239								
.839			.0047							
.850					.0459	.0201	.1005			
.857				.0130						
.862									.0455	
.865		-.0743								
.879			-.0019							
.900		-.0545			.0410			.1115		
.905				.0206						
.919			.0066							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU36)

ALPHA (1) = -4.055 BETA (2) = .194

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.950					.0765	.1204	.1389			
.953				.0411						
.955			.0300							
.965		.0354								

ALPHA (1) = -4.060 BETA (3) = 4.272 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806

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	-.4847	.0204	.0259	.1826	.3015	.1604	.0758	.0753	-.7358	
.010		.0340	.0772		.4772	.4259	.3809	.3135		
.020		.0267		.0000	.4190	.3605	.3288	.2734	-.5069	
.040			.1374	.2810						
.041	-.1202									
.060					.2419	.1910	.1666	.1163		
.069									-.5560	
.080					.0857					
.081				.1927						
.086			.2195							
.094		.0232								
.113	-.0017									
.130					-.0937	-.1353	-.1817	-.2153		
.157									-.6025	
.153			.0000							
.177				-.0216						
.190		.1221								
.246			.0419							
.247	.0491									
.252					-.2602	-.3046	-.3547	-.4888		
.274				-.1492						
.249									-.4852	
.267		.1181								
.300			-.1261							
.400					-.2182	-.3294		-.5995		
.402				-.2023						
.418										-.4154
.439	.1171									
.447		-.0940								
.503									-.4300	
.547	.0021									
.550					-.2289	-.3714				
.565				-.1135						

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (REEJ3S)

ALPHA (1) = -4.060 BETA (3) = 4.272

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.600								-.5927		
.633	-.1221									
.647			-.0705							
.650							-.5047			
.670									-.0384	
.700		-.0252				-.3573				-.3006
.723					-.3267					
.736										
.737	-.0424						-.0515	.0347		
.761										
.781				-.3005						
.786					-.2133	-.1896				
.788	.0714									
.798			-.2827							
.818				-.1476						
.834		-.2921								
.838			-.1482							
.841					-.0118	-.0536	.0749			
.860				-.0582						
.862									.0600	
.886		-.2404								
.893			-.0768							
.910		-.1428			.0056			.1194		
.916				-.0215						
.919			-.0325							
.950					.0463	.0899	.1343			
.953				.0113						
.955			-.0004							
.975		-.0061								

ALPHA (2) = .042 BETA (1) = -3.866 MACH = .90027 Q = 600.16 P = 1087.8 PN/L = 3.5774

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	-.3663	.0460	.1118	.3789	.5488	.4851	.4523	.4554	-.3370	
.010		.0429	.1500		.4542	.4624	.4113	.2599		
.020		.0259		.0000	.3334	.2937	.2635	.1936	-.2849	
.040			.1892	.1978						
.041	-.1335									
.060					.0622	.0062	-.0282	-.0686		
.069									-.3937	
.090					-.1543					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA 2' = .042 BETA (1) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.3990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
X/Cw										
.081				.0372						
.085			.2180							
.094		.0080								
.13	-.0307									
.110					-.3717	-.4381	-.4818	-.4528		
.150									-.6877	
.163			.0300							
.177				-.2811						
.242		.1026								
.250			-.0963							
.267	.0863									
.300					-.5337	-.6342	-.6617	-.6730		
.324				-.3979						
.342									-.7332	
.350		.0354								
.374			-.3412							
.400					-.3184	-.4924		-.9395		
.424				-.4231						
.474										-.3234
.478	.0043									
.497		-.2507								
.503									-.6577	
.547	-.1125									
.550					-.1926	-.3470				
.575				-.0817						
.600								-.1512		
.633	-.3087									
.627			-.0244							
.650							-.0921			
.670									-.1226	
.700		.0106				-.0889				
.723										-.2479
.725					-.0765					
.727	-.0287									
.750							.0709	.0642		
.760				-.1298						
.775					.0537	-.0094				
.793	.1381									
.798			-.1357							
.806				.0787						
.824		-.1218								
.843			.0836							
.850					.0979	.0860	.1173			
.887				.0769						
									.0187	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (2) = .042 BETA (1) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2890	.3640	.4270	.5340	.6730	.7800	.8670	.9720	1.0000
X/CW										
.865		.0214								
.879			.0663							
.900		.0245			.0852			.1302		
.905				.0754						
.919			.0593							
.930					.0894	.1429	.1367			
.953				.0750						
.955			.0708							
.965		.0939								

ALPHA (2) = .092 BETA (2) = .183 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2890	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4012	.0180	.0909	.3509	.4957	.4207	.3794	.3751	-.3469	
.010		.0010	.1152		.3646	.3760	.3245	.1884		
.020		-.0130		.0000	.2577	.2189	.1821	.1208	-.3597	
.040			.1511	.1315						
.041	-.1893									
.050					.0060	-.0483	-.0752	-.1233		
.069									-.4327	
.080					-.1841					
.081				.0003						
.086			.1759							
.094		-.0153								
.113	-.0382									
.150					-.3812	-.4262	-.4746	-.4736		
.157									-.7241	
.163			.0000							
.177				-.2573						
.229		.0817								
.246			-.1193							
.247	.0100									
.250					-.4968	-.6117	-.6721	-.6998		
.274				-.3800						
.345									-.7397	
.362		.0158								
.390			-.3245							
.400					-.3218	-.4335		-.5198		
.402				-.4091						
.418										-.4011
.429	.0710									

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA143) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (2) = .092 BETA (2) = .183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.2572							-.4724	
.613										
.647	-.1277									
.660					-.2502	-.4262				
.695				-.1344						
.800								-.1403		
.833	-.3027									
.847			-.0762							
.878							-.1471			
.895									-.0881	
.911		-.0432				-.1311				
.928										-.2362
.945					-.1553					
.962	-.0784									
.978							.0861	.0712		
.995				-.2163						
1.012					0038	-.0445				
1.029	.0789									
.784			-.2027							
.818				.0156						
.834		-.1875								
.870			.0123							
.890					.0615	.0461	.1076			
.907				.0283						
.662									.0357	
.855		-.0668								
.879			.0113							
.900		-.0446			.0509			.1298		
.905				.0295						
.919			.0189							
.950					.0764	.1200	.1296			
.953				.0533						
.955			.0422							
.965		.0536								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (2) = .085 BETA (3) = 4.248 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION (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	-.0365	.0525	.3109	.4501	.3650	.3266	.3092	-.3278	
.010		-.0440	.0815		.2774	.2854	.2342	.0883		
.020		-.0462		.0000	.1738	.1348	.0974	.0268	-.4158	
.040			.1172	.0877						
.041	-.3350									
.050					-.0462	-.1055	-.1393	-.1941		
.069									-.4896	
.080					-.2182					
.081				-.0336						
.085			.1395							
.094		-.0275								
.113	-.0471									
.150					-.3840	-.4231	-.4880	-.5112		
.167									-.7635	
.183			.0000							
.197				-.2471						
.229		.0657								
.246			-.1286							
.247	.0011									
.350					-.4837	-.6104	-.6755	-.7276		
.274				-.3386						
.345									-.7257	
.302		.0056								
.390			-.2972							
.400					-.3230	-.4404		-.8113		
.402				-.3807						
.418										-.5174
.429	.0558									
.497		-.2499								
.503									-.6034	
.547	-.1339									
.550					-.2839	-.4520				
.565				-.1653						
.600								-.5652		
.633	-.2830									
.637			-.1140							
.650							-.5327			
.670									-.0833	
.700		-.0788				-.3554				
.723										-.2373
.725					-.3324					
.727	-.1004									
.750							.0473	.0817		
.760				-.3015						
.775					-.1503	-.1521				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (2) = .085 BETA (3) = 4.248

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0274									
.798			-.2492							
.808				-.1773						
.834		-.2719								
.839			-.1700							
.850					- 0050	-.0150	.0993			
.867				-.0581						
.882									.0397	
.885		-.2574								
.879			-.0932							
.900		-.1557			.0141			.1380		
.905				-.0177						
.919			-.0403							
.930					.0539	.0962	.1218			
.953				.0223						
.966			.0023							
.985		-.0026								

ALPHA (3) = 3.973 BETA (1) = -3.873 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2999	-.0430	.0540	.4050	.6070	.5686	.5459	.4806	-.2095	
.010		-.0924	.0616		.1563	.2022	.0973	-.1451		
.020		-.0974		.0000	.0259	-.0162	-.0906	-.2189	-.5545	
.040			.1030	-.0518						
.041	-.1853									
.050					-.2516	-.3330	-.4001	-.4896		
.069									-.6425	
085					-.4726					
.081				-.2260						
.096			.0968							
.094		-.0603								
.113	-.0977									
.150					-.7046	-.7395	- 7695	-.7385		
.157									-.8895	
.163			.0000							
.177				-.4698						
.209		.0501								
.215			-.2719							
.247	-.0126									
.252					-.7622	-.9273	-.9676	-.7903		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (3) = 3.973 BETA (1) = -3.873

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				-.5973						
.345									-.6112	
.362		-.0749								
.390			-.5447							
.400					-.8351	-.9107		-.5802		
.402				-.7116						
.418										-.7712
.429	.0441									
.497		-.4265								
.503									-.4582	
.547	-.2092									
.550					-.1608	-.3103				
.565				-.1113						
.600								-.4614		
.633	-.5095									
.637			-.0658							
.650							-.3847			
.670									-.3354	
.700		-.0735				-.1298				
.723										-.7133
.725					-.0620					
.727	-.1172									
.750							-.2084	-.2937		
.760				-.0638						
.775					.0014	-.0559				
.793	.1492									
.7∞			-.0769							
.808				.0833						
.834		-.0846								
.839			.0888							
.850					.0799	.0466	-.0693			
.857				.0783						
.862									-.2578	
.865		.0307								
.879			.0742							
.900		.0395			.0858			-.1271		
.905				.0846						
.919			.0742							
.950					.1047	.1421	.0546			
.953				.0885						
.955			.0902							
.965		.1118								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U36)

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

ALPHA (3) = 3.981 BETA (2) = .185 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3617	-.1506	-.0584	.3034	.5198	.4778	.4499	.3797	-.3432	
.010		-.1809	-.0267		.0480	.0866	-.0192	-.2463		
.020		-.1601		.0000	-.0714	-.1188	-.1911	-.3286	-.6524	
.040			.0369	-.1162						
.041	-.3522									
.050					-.3108	-.3981	-.4685	-.5605	-.7141	
.069										
.080					-.5090					
.081				-.2676						
.085			.0482							
.094		-.0837								
.113	-.1109									
.150					-.7108	-.7648	-.7957	-.7778	-.9242	
.157										
.163			.0000							
.177				-.4827						
.229		.0296								
.246			-.2865							
.247	-.0347									
.250					-.7466	-.9080	-.9729	-.8426		
.274				-.5986					-.6033	
.345										
.362		-.0882								
.390			-.5397							
.400					-.7883	-.9596		-.6255		
.402				-.6957						-.9818
.418										
.429	.0180									
.497		-.4270							-.4702	
.503										
.547	-.2292									
.550					-.2416	-.1669				
.565				-.1763						
.600								-.4758		
.633	-.5098									
.637			-.1270							
.650							-.3673			
.670									-.2745	
.700		-.1099				-.1565				
.723										-.5683
.725					-.1081					
.727	-.1603									
.753							-.1909	-.2948		
.760				-.1233						
.775					-.0320	-.0793				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (3) = 3.981 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	.0935									
.798			-.1542							
.808				.0228						
.834		-.1599								
.839			.0246							
.850					.0471	.0210	-.0072			
.857				.0274						
.862									-.1962	
.865		-.0683								
.879			.0196							
.900		-.0352			.0586			-.1239		
.905				.0414						
.919			.0303							
.950					.0826	.1055	.0996			
.953				.0660						
.955			.0570							
.965		.0657								

ALPHA (3) = 3.986 BETA (3) = 4.242 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4288	-.2727	-.1721	.1831	.4202	.3769	.3411	.2527	-.5689	
.010		-.2623	-.0723		-.0816	-.0491	-.1618	-.3972		
.020		-.2080		.0000	-.1785	-.2374	-.3242	-.4857	-.8202	
.040			.0011	-.1801						
.041	-.5071									
.050					-.3853	-.4863	-.5701	-.6700		
.069									-.8269	
.080					-.5550					
.081				-.3093						
.096			.0136							
.094		-.0977								
.113	-.1144									
.150					-.7248	-.7985	-.8366	-.8427		
.157									-.9947	
.163			.0000							
.177				-.4915						
.229		-.0091								
.246			-.2758							
.247	-.0387									
.250					-.7330	-.8871	-.9987	-.8891		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (3) = 3.986 BETA (3) = 4.242

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				-.5795						
.345									-.6692	
.362		-.0982								
.390			-.5158							
.400					-.6861	-.9449		-.7052		
.402				-.6505						
.418										-1.0395
.429	.0105									
.497		-.4297								
.503									-.5308	
.547	-.2266									
.550					-.3240	-.3404				
.565				-.2406						
.600								-.5172		
.623	-.5040									
.627			-.1875							
.650							-.3734			
.670									-.3246	
.700		-.1304				-.2442				
.723										-.4213
.725					-.2181					
.727	-.1755									
.750							-.1706	-.3177		
.770				-.2220						
.775					-.1010	-.1379				
.793	.0153									
.798			-.2182							
.808				-.0982						
.824		-.2393								
.840			-.1076							
.850					-.0093	-.0270	-.0075			
.857				-.0331						
.872									-.2172	
.885		-.1851								
.879			-.0450							
.900		-.1195			.0254			-.1254		
.905				-.0133						
.919			-.0135							
.950					.0589	.0900	.1099			
.953				.0285						
.965			.0151							
.985		.0119								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (4) = 8.050 BETA (1) = -3.862 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2669	-.2940	-.2894	.1974	.4828	.4543	.4105	.2849	-.6041	
.010		-.3747	-.2127		-.2861	-.1941	-.3379	-.5935		
.020		-.[illegible]		.0000	-.3805	-.4134	-.4956	-.6936	-1.0817	
.040			-.1049	-.3935						
.041	-.2149									
.050					-.6016	-.6595	-.7545	-.8940		
.059									-1.0711	
.080					-.7787					
.081				-.5445						
.095			-.0863							
.104		-.1479								
.113	-.1731									
.150					-.9949	-1.0426	-.9419	-.8612		
.157									-.9809	
.163			.0000							
.177				-.6777						
.229		-.0127								
.246			-.4369							
.247	-.0727									
.250					-1.0121	-1.0235	-.8071	-.6563		
.274				-.7684						
.345									-.5798	
.362		-.1675								
.390			-.6651							
.400					-.7853	-.7562		-.5527		
.402				-.9035						
.418										-.8302
.429	.0001									
.497		-.5395								
.503									-.4967	
.547	-.3350									
.550					-.4381	-.5950				
.565				-.2962						
.600								-.4908		
.633	-.6854									
.637			-.0996							
.650							-.5470			
.670									-.4377	
.700		-.1567				-.4446				
.723										-.4289
.725					-.2029					
.727	-.1928									
.750							-.4776	-.4278		
.760				-.1283						
.775					-.1387	-.3506				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU36)

ALPHA (4) = 8.050 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	.1625									
.799			-.1398							
.808				.0068						
.834		-.1221								
.839			-.0103							
.850					.0018	-.2849	-.3988			
.857				.0157						
.862									-.3770	
.865		-.0422								
.879			-.0257							
.900		.0013			.0044			-.3677		
.906				.0237						
.919			-.0356							
.950					.0604	-.1383	-.3276			
.953				.0544						
.955			.0088							
.965		.0858								

ALPHA (4) = 8.064 BETA (2) = .184 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3529	-.4942	-.4059	.0156	.3373	.3124	.2656	.1319	-.7396	
.010		-.4876	-.1940		-.4265	-.3535	-.4974	-.7474		
.020		-.3666		.0000	-.5010	-.5383	-.6320	-.8197	-.6976	
.040			-.0774	-.4476						
.041	-.4060									
.060					-.6753	-.7557	-.8577	-1.0028		
.063									-.5547	
.080					-.8361					
.091				-.5826						
.096			-.0743							
.094		-.2005								
.113	-.2014									
.150					-.9795	-1.0846	-.9955	-.9745		
.157									-.5261	
.163			.0000							
.177				-.6657						
.229		-.1388								
.246			-.4272							
.247	-.0605									
.280					-.9965	-1.0801	-.8555	-.7958		

AMES 11-073:OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (4) = 8.064 BETA (2) = .184

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				-.7362						
.345									-.5053	
.362		-.1847								
.390			-.5512							
.400					-.9626	-.8282		-.5867		
.402				-.8695						
.418										-.4895
.428	-.0058									
.497		-.5672								
.503									-.4734	
.547	-.3494									
.550					-.4408	-.6018				
.565				-.2324						
600								-.5235		
.633	-.7041									
.637			-.1651							
.650							-.5626			
.670									-.4311	
.700		-.1686				-.4655				
.723										-.4263
.725					-.2424					
.727	-.2649									
.750							-.4877	-.4896		
.760				-.1838						
.775					-.1852	-.3570				
.793	.0672									
.798			-.1984							
.808				-.0691						
.834		-.1672								
.839			-.1041							
.850					-.0455	-.2387	-.4113			
.857				-.0500						
.862									-.3950	
.865		-.1117								
.879			-.0696							
.900		-.0772			-.0345			-.4512		
.905				-.0346						
.919			-.0406							
.950					.0361	-.0827	-.3344			
.953				.0064						
.955			-.0012							
.965		.0230								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (4) = 8.061 BETA (3) = 4.233 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.57B1

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4458	-.5975	-.2522	-.1597	.1785	.1564	.1031	-.0409	-.7014	
.010		-.3821	-.1892		-.5707	-.5191	-.6811	-.9099		
.020		-.3450		.0000	-.6429	-.6658	-.7932	-.9804	-.6547	
.040			-.1632	-.4165						
.041	-.5273									
.050					-.7242	-.8591	-.9595	-1.0347		
.069									-.5937	
.080					-.8413					
.081				-.4961						
.088			-.1714							
.094		-.3270								
.113	-.2345									
.150					-.9165	-1.1198	-1.0266	-.9326		
.157									-.5504	
.163			.0000							
.177				-.6154						
.229		-.2606								
.236			-.5220							
.247	-.0984									
.260					-.9160	-1.0980	-.8350	-.7151		
.274				-.7167						
.345									-.5292	
.362		-.1249								
.390			-.7077							
.400					-.7928	-.7878		-.5819		
.402				-.8539						
.418										-.5145
.428	-.0345									
.437		-.5559								
.503									-.5188	
.547	-.3540									
.550					-.3850	-.5996				
.595				-.2404						
.600								-.5455		
.633	-.6868									
.637			-.1998							
.650							-.5825			
.670									-.4839	
.700		-.2137				-.4601				
.723										-.4579
.725					-.2503					
.727	-.2864									
.750							-.5171	-.5057		
.770				-.2833						
.775					-.2707	-.3199				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU36)

ALPHA (4) = 8.061 BETA (3) = 4.239

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	.0037									
.788			-.2287							
.808				-.3027						
.934		-.2365								
.839			-.2076							
.850					-.0930	-.2044	-.4454			
.867				-.1871						
.882									-.4192	
.895		-.2329								
.879			-.1400							
.900		-.1772			-.0571			-.4661		
.905				-.1401						
.919			-.0941							
.932					.0050	-.0625	-.3996			
.953				-.0535						
.955			-.0401							
.965		-.0263								

ALPHA 5) = 11.931 BETA (1) = -3.854 MACH = .89977 Q = 600.28 P = 1055.2 PN/L = 3.5829

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	-.2800	-.6799	-.5573	-.1793	.2236	.2139	.1558	.0062	-.7419	
.010		-.6954	-.2713		-.7012	-.6087	-.7669	-.8452		
.020		-.5952		.0000	-.8297	-.7881	-.3083	-.7112	-.6636	
.040			-.1835	-.6516						
.041	-.2611									
.060					-.9623	-.9997	-1.0730	-.6862		
.069									-.5857	
.080					-1.0575					
.081				-.7426						
.086			-.1757							
.094		-.3507								
.113	-.2583									
.150					-1.2023	-.9931	-1.0320	-.6343		
.157									-.5553	
.163			.0000							
.177				-.7973						
.203		-.2114								
.246			-.5487							
.247	-.1179									
.250					-1.1114	-.8939	-.8863	-.6385		

OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (5) = 11.931 BETA (1) =

SECTION (1)LEFT WING TOP SURF . DENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8569						
.345									-.5421	
.382		-.3793								
.390			-.7591							
.400					-.7939	-.8210		-.6138		
.402				-.8883						
.418										-.5287
.429	-.0300									
.437		-.7606								
.503									-.5277	
.547	-.4776									
.550					-.7096	-.6531				
.565				-.4488						
.600								-.5619		
.633	-.8243									
.637			-.2740							
.650							-.6302			
.670									-.5088	
.700		-.2041				-.6078				
.723										-.5631
.725					-.4296					
.727	-.2283									
.750							-.5929	-.5503		
.760				-.2794						
.775					-.4296	-.5412				
.793	.0638									
.799			-.2832							
.808				-.2516						
.834		-.2622								
.839			-.2995							
.850					-.2702	-.4968	-.5632			
.857				-.1974						
.862									-.4609	
.865		-.2150								
.879			-.2066							
.903		-.1137			-.2379			-.5237		
.905				-.1611						
.919			-.1665							
.950					-.1489	-.3712	-.5368			
.953				-.1129						
.955			-.0983							
.965		-.0051								

C-4

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU36)

ALPHA (5) = 11.945 BETA (2) = .188 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3942	-.7810	-.3351	-.3728	.0498	.0310	-.0232	-.1699	-.7793	
.010		-.5365	-.2829		-.8563	-.7573	-.9092	-.9134		
.020		-.4862		.0000	-.9657	-.9449	-1.0562	-.6838	-.6765	
.040			-.2768	-.5591						
.041	-.4533									
.050					-1.0779	-1.1087	-1.0635	-.6628		
.069									-.6127	
.080					-1.1171					
.081				-.5358						
.086			-.2624							
.094		-.4774								
.113	-.2774									
.150					-1.2133	-.9891	-.9612	-.6536		
.157									-.5947	
.163			.0000							
.177				-.7418						
.229		-.5862								
.246			-.5757							
.247	-.1680									
.250					-.9957	-.9062	-.8910	-.6593		
.274				-.8444						
.345									-.5702	
.362		-.2997								
.390			-.7741							
.400					-.7797	-.8027		-.6406		
.402				-.9570						
.418										-.5832
.429	-.0701									
497		-.7377								
.503									-.5692	
.547	-.4985									
.550					-.6726	-.7223				
.565				-.3762						
.600								-.5964		
.633	-.8437									
.637			-.3270							
.650							-.6562			
.670									-.5394	
.700		-.2514				-.6290				
.723										-.5351
.725					-.4072					
.727	-.2762									
.750							-.6228	-.5839		
.760				-.3235						
.775					-.4225	-.5460				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U36)

ALPHA (5) = 11.945 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	.0313									
.798			-.3044							
.808				-.4588						
.834		-.2852								
.839			-.3896							
.850					-.2664	-.4888	-.5907			
.857				-.3367						
.862									-.5068	
.865		-.2961								
.879			-.2784							
.900		-.2429			-.2381			-.5532		
.905				-.2814						
.919			-.2059							
.950					-.1313	-.3565	-.5607			
.953				-.2034						
.955			-.1242							
.965		-.0725								

ALPHA (5) = 11.935 BETA (3) = 4.259 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5049	-.7390	-.3624	-.5342	-.1272	-.1500	-.2053	-.3476	-.7409	
.010		-.6155	-.3371		-.9995	-.9115	-1.0026	-.7589		
.020		-.6278		.0000	-1.0859	-1.0751	-.9272	-.7690	-.6653	
.040			-.3357	-.4580						
.041	-.6102									
.050					-1.1386	-1.0690	-.8503	-.7074		
.069									-.6190	
.080					-1.1120					
.081				-.5638						
.086			-.3172							
.094		-.6070								
.113	-.2382									
.150					-1.0786	-.8583	-.7688	-.6810		
.157									-.6136	
.163			.0000							
.177				-.6782						
.229		-.6546								
.246			-.5989							
.247	-.2602									
.250					-.8295	-.7702	-.7362	-.6706		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU36)

ALPHA (5) = 11.97 BETA (3) = 4.259

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				-.8069						
.345									-.6016	
.362		-.3030								
.390			-.8097							
.400					-.6847	-.7537		-.6673		
.402				-.7870						
.418										-.6104
.429	-.1054									
.497		-.7281								
.503									-.6138	
.547	-.4800									
.550					-.5778	-.7352				
.555				-.3843						
.600								-.6616		
.633	-.8490									
.637			-.3419							
.650							-.7071			
.670									-.5869	
.700		-.1810				-.6667				
.723										-.5696
.725					-.4309					
.727	-.2485									
.750							-.6710	-.6397		
.760				-.4578						
.775					-.6207	-.6294				
.793	.0007									
.798			-.3774							
.808				-.5827						
.834		-.3203								
.839			-.4818							
.850					-.4596	-.5449	-.6269			
.857				-.5939						
.862									-.5621	
.865		-.4028								
.879			-.4032							
.900		-.3310			-.3200			-.6042		
.905				-.5997						
.919			-.3921							
.950					-.2202	-.3852	-.5757			
.953				-.2454						
.955			-.1817							
.965		-.1687								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37) (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 = 10.000 SPDBRK = 35.000
BDFLAP = 16.300 L-ELVN = .000
R-ELVN = 10.000 MACH = .600

ALPHA (1) = -4.041 BETA (1) = -7.848 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1)LEFT WING TOP SURF 'PENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	[illegible]	5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1501	-.1358	-.2811	-.0938	.1329	.0429	.0084	.0982	-.8882	
.010		-.0028	-.0338		.6079	.6049	.5827	.5245		
.020		.0327		.0000	.5526	.5441	.5186	.4843	-.1111	
.040			.1104	.3664						
.041	.0341									
.050					.3328	.3170	.2918	.2646		
.069									-.1130	
.080					.1323					
.081				.2329						
.086			.2626							
.094		.0595								
.113	.0533									
.150					-.0860	-.1008	-.1800	-.1191		
.157									-.1500	
.163			.0000							
.177				-.0239						
.229		.1495								
.246			.0430							
.247	.0795									
.250					-.2284	-.2682	-.3098	-.3418		
.274				-.1391						
.345									-.1331	
.362		.1059								
.390			-.1091							
.400					-.1675	-.2319		-.2997		
.402				-.1384						
.418										-.5497
.429	.1237									
.497		-.0746								
.503									-.1929	
.547	.0060									
.550					-.0832	-.1461				
.565				-.0107						
.600								-.1831		
.633	-.0650									
[illegible]			.0392							
[illegible]							-.1204			
[illegible]									-.0886	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (1) = -4.041 BETA (1) = -7.848

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		.0701				-.0692				
.723										-.4441
.725					-.0245					
.727	.0490									
.750							.0025	-.0023		
.760				-.0595						
.775					.0277	-.0043				
.793	.1905									
.798			-.0531							
.808				.0842						
.834		-.0346								
.839			.1011							
.850					.0905	.0700	.0734			
.857				.0793						
.862									-.0030	
.865		.0528								
.879			.0841							
.900		.0483			.0636			.0788		
.905				.0701						
.919			.0541							
.950					.0789	.1028	.1079			
.953				.0702						
.955			.0588							
.965		.0719								

ALPHA (1) = -4.025 BETA (2) = -3.846 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8728

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	9720	1.0000
X/CW										
.000	-.1568	-.0938	-.1928	-.0497	.1070	.0037	-.0609	.0152	-.8409	
.010		-.0052	-.0236		.5401	.5295	.5046	.4512		
.020		.0142		.0000	.4898	.4750	.4537	.4179	-.1827	
.040			.0946	.3100						
.041	-.0140									
.050					.2798	.2698	.2511	.2143		
.069									-.1716	
.080					.1006					
.081				.1942						
.085			.2272							
.094		.0262								
.113	.0110									
.150					-.1065	-.1178	-.1873	-.1396		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 4117

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (1) = -4.025 BETA (2) = -3.846

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.1862	
.163			.0000							
.177				-.0438						
.229		.1226								
246			.0131							
.247	.0496									
.250					-.2491	-.2777	-.3180	-.3486		
.274				-.1608						
.345									-.1472	
.352		.0839								
.390			-.1321							
.400					-.1954	-.2484		-.3081		
.402				-.1662						
.418										-.5314
.429	.0975									
.497		-.1014								
.503									-.1874	
.547	-.0229									
.550					-.1185	-.1711				
.565				-.0511						
.600								-.1891		
633	-.1045									
.637			-.0027							
.650							-.1371			
.670									-.0830	
.700		.0262				-.0934				
.723										-.4616
.725					-.0557					
.727	-.0003									
.750							-.0093	-.0074		
.760				-.0955						
.775					.0025	-.0290				
.793	.1472									
.798			-.0885							
.808				.0462						
.834		-.0726								
.839			.0661							
.850					.0669	.0445	.0606			
.857				.0532						
862									.0016	
.865		.0125								
.879			.0515							
.900		.0168			.0491			.0767		
905				.0411						
.919			.0286							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (1) = -4.025 BETA (2) = -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										
.950					.0671	.0935	.1020			
.953				.0537						
.955			.0423							
.965		.0487								

ALPHA (1) = -3.896 BETA (3) = .184 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1530	-.0415	-.0894	.0353	.1121	-.0171	-.1093	-.0496	-.7293	
.010		-.0006	.0123		.4714	.4539	.4305	.3828		
.020		.0053		.0000	.4238	.4027	.3805	.3461	-.2384	
.040			.0902	.2544						
.041	-.0578									
.060					.2295	.2109	.1979	.1689		
.069									-.2235	
.080					.0561					
.081				.1497						
.086			.1907							
.094		-.0002								
.113	-.0215									
.150					-.1327	-.1446	-.2081	-.1589		
.157									-.2221	
.163			.0000							
.177				-.0636						
.229		.0955								
.246			-.0152							
.247	.0206									
.250					-.2613	-.2950	-.3255	-.3531		
.274				-.1763						
.345									-.1550	
.362		.0622								
.390			-.1491							
.400					-.2199	-.2727		-.3121		
.402				-.2005						
.418										-.4682
.429	.0711									
.497		-.1225								
.503									-.1857	
.547	-.0442									
.550					-.1493	-.1913				
.565				-.0897						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (1) = -3.895 BETA (3) = .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										
.600								-.1902		
.633	-.1332									
.637			-.0459							
.650							-.1506			
.670									-.0790	
.700		-.0146				-.1143				
.723										-.4415
.725					-.0838					
.727	-.0369									
.750							-.0189	-.0112		
.760				-.1237						
.775					-.0299	-.0530				
.783	.1059									
.798			-.1147							
.808				.0116						
.834		-.1088								
.839			.0302							
.850					.0457	.0183	.0530			
.857				.0265						
.862									.0098	
.885		-.0361								
.879			.0236							
.900		-.0195			.0288			.0793		
.905				.0214						
.919			.0024							
.950					.0607	.0828	.0977			
.953				.0445						
.955			.0184							
.965		.0166								

ALPHA (1) = -3.930 BETA (4) = 4.266 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1618	-.0231	-.0319	.0813	.1251	-.0067	-.0980	-.0442	-.5944	
.010		-.0009	.0319		.4034	.3873	.3580	.3084		
.020		.0070		.0000	.3563	.3298	.3153	.2744	-.2547	
.040			.0854	.2036						
.041	-.0917									
.052					.1755	.1556	.1378	.1153		
.059									-.2505	
.080					.0185					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (1) = -3.930 BETA (4) = 4.266

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				.1154						
.085			.1660							
.094		-.0137								
.113	-.0438									
.150					-.1471	-.1654	-.2276	-.1885		
.157									-.2386	
.163			.0000							
.177				-.0774						
.222		.0808								
.246			-.0259							
.247	.0086									
.250					-.2807	-.3088	-.3363	-.3601		
.274				-.1914						
.345									-.1654	
.362		.0481								
.390			-.1637							
.400					-.2338	-.2815		-.3158		
.402				-.2199						
.418										-.3473
.429	.0589									
.497		-.1420								
.503									-.1756	
.547	-.0608									
.550					-.1840	-.2093				
.565				-.1207						
.600								-.1943		
.633	-.1578									
.637			-.0827							
.650							-.1595			
.670									-.0672	
.700		-.0518				-.1166				
.723										-.3444
.725					-.1028					
.727	-.0751									
.750							-.0264	-.0152		
.760				-.1488						
.775					-.0543	-.0683				
.793	.0704									
.798			-.1382							
.808				-.0129						
.834		-.1401								
.839			.0025							
.850					.0290	.0078	.0551			
.857				.0056						
.862									.0233	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (1) = -3.930 BETA (4) = 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										
.865		-.0688								
.879			-.0015							
.900		-.0395			.0194			.0830		
.905				.0006						
.919			-.0142							
.950					.0547	.0748	.1017			
.953				.0308						
.955			.0016							
.965		-.0110								

ALPHA (1) = -3.946 BETA (5) = 8.339 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1700	-.0232	.0214	.1392	.1615	.0032	-.0922	-.0528	-.5079	
.010		-.0180	.0512		.3375	.3147	.2876	.2376		
.020		-.0206		.0000	.2888	.2616	.2378	.2060	-.2795	
.040			.0900	.1606						
.041	-.1189									
.050					.1171	.0986	.0794	.0555		
.069									-.2785	
.080					-.0209					
.081				.0780						
.085			.1452							
.094		-.0248								
.113	-.0595									
.140					-.1691	-.1894	-.2419	-.2172		
.147									-.2499	
.163			.0000							
.177				-.0908						
.229		.0679								
.246			-.0472							
.247	.0032									
.250					-.2884	-.3172	-.3404	-.3640		
.274				-.2027						
.345									-.1700	
.352		.0322								
.360			-.1802							
.400					-.2622	-.3006		-.3146		
.402				-.2401						
.418										
.429	.0497									-.2373

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP XEBU37)

ALPHA (1) = -3.946 BETA (5) = 8.339

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		-.1572								
.503									-.1655	
.547	-.0800									
.550					-.2062	-.2262				
.565				-.1460						
.600								-.1885		
.633	-.1080									
.637			-.1179							
.650							-.1662			
.670									-.0536	
.700		-.0884				-.1273				
.723										-.2723
.725					-.1231					
.727	-.1113									
.750							-.0335	-.0157		
.760				-.1639						
.775					-.0737	-.0806				
.793	.0345									
.798			-.1587							
.808				-.0348						
.834		-.1579								
.839			-.0207							
.850					.0137	-.0131	.0476			
.857				-.0124						
.862									.0299	
.865		-.0929								
.879			-.0177							
.900		-.0520			.0060			.0843		
.905				-.0061						
.919			-.0259							
.950					.0490	.0706	.1027			
.953				.0267						
.955			-.0054							
.965		-.0184								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE0U37)

ALPHA (2) = .030 BETA (1) = -7.098 MACH = .59652 Q = 594.31 P = 2385.8 PN/L = 4.8794

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7863	.8870	.9720	1.0000
X/CW										
.000	-.0677	.0446	.0638	.2968	.4938	.4803	.4521	.5026	-.1383	
.010		.0749	.1358		.4507	.4923	.4399	.2818		
.020		.0540		.0000	.3157	.3029	.2658	.2041	-.0895	
.040			.1790	.1672						
.041	-.0042									
.050					.0328	-.0050	-.0430	-.0668		
.069									-.1965	
.080					-.1764					
.081				-.0064						
.086			.2095							
.094		.0259								
.113	.0090									
.150					-.3418	-.3872	-.5065	-.3867		
.157									-.3267	
.163			.0000							
.177				-.2426						
.229		.0905								
.246			-.1330							
.247	.0349									
.260					-.4162	-.4824	-.5430	-.5821		
.274				-.2991						
.345									-.3[illegible]7	
.362		-.0181								
.390			-.2416							
.406					-.2619	-.3357		-.4089		
.402				-.2332						
.418										-.0579
.429	.0519									
.447		-.1900								
.503									-.342[illegible]	
.547	-.1020									
.550					-.1237	-.1902				
.565				-.0445						
.600								-.2242		
.633	-.1523									
.637			.0062							
.650							-.1430			
.670									-.1804	
.700		.0339				-.0765				
.723										-.1562
.725					-.0238					
.727	.0062									
.750							-.0077	-.0261		
.751				-.0453						
.775					.0355	.0014				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .030 BETA (') = -7.898

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.364	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1639									
.798			-.0455							
.808				.0639						
.834		-.0319								
.839			.1086							
.850					.0933	.0852	.0716			
.857				.0875						
.862									-.0166	
.865		.0616								
.879			.0857							
.900		.0593			.0730			.0865		
.905				.0737						
.919			.0675							
.950					.0926	.1236	.1201			
.953				.0859						
.955			.0675							
.965		.0940								

ALPHA (2) = .040 BETA (2) = -3.863 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0980	.0303	.0700	.2965	.4668	.4290	.4091	.4471	-.1462	
.010		.0327	.1177		.3689	.4047	.3533	.1930		
.020		.0182		.0000	.2441	.2270	.1900	.1252	-.1550	
.040			.1452	.1090						
.041	-.0557									
.050					-.0225	-.0639	-.0973	-.1227		
.069									-.2504	
.080					-.2115					
.081				-.0419						
.086			.1651							
.094		-.0149								
.113	-.0309									
.150					-.3611	-.4088	-.5136	-.4066		
.157									-.3354	
.163			.0000							
.177				-.2610						
.229		.0597								
.246			-.1581							
.247	.0038									
.250					-.4311	-.4959	-.5451	-.5811		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .040 BETA (2) = -3.863

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.3090	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3222						
.345									-.2953	
.362		-.0369								
.390			-.2631							
.400					-.2863	-.3531		-.4151		
.402				-.2691						
.418										-.0868
.429	.0229									
.497		-.2267								
.503									-.3114	
.547	-.1325									
.550					-.1572	-.2174				
.565				-.0859						
.600								-.2252		
.633	-.1937									
.637			-.0407							
.650							-.1547			
.670									-.1561	
.700		-.0144				-.0978				
.723										-.1688
.725					-.0587					
.727	-.0394									
.750							-.0209	-.0235		
.750				-.0843						
.775					-.0019	-.0283				
.793	.1172									
.798			-.0794							
.808				.0473						
.834		-.0684								
.839			.0669							
.850					.0678	.0569	.0646			
.857				.0580						
.862									-.0009	
.865		.0152								
.879			.0561							
.900		.0237			.0592			.0865		
.905				.0534						
.919			.0407							
.950					.0797	.1055	.1172			
.953				.0699						
.955			.0511							
.965		.0594								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .104 BETA (3) = .181 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1303	-.0055	.0597	.2815	.4359	.3915	.3585	.3765	-.1738	
.010		-.0164	.0855		.2801	.3136	.2620	.1180		
.020		-.0268		.0000	.1645	.1460	.1140	.0507	-.2057	
.040			.1052	.0548						
.041	-.1046									
.050					-.0642	-.1101	-.1479	-.1720		
.069									-.2829	
.060					-.2444					
.091				-.0861						
.086			.1207							
.094		-.0450								
.113	-.0661									
.150					-.3764	-.4141	-.5237	-.4234		
.157									-.3411	
.163			.0000							
.177				-.2730						
.229		.0343								
.246			-.1779							
.247	-.0179									
.250					-.4439	-.5010	-.5454	-.5689		
.274				-.3370						
.345									-.2798	
.362		-.0588								
.390			-.2784							
.400					-.3121	-.3676		-.4147		
.402				-.2926						
.418										-.1220
.429	.0054									
.497		-.2427								
.503									-.2926	
.507	-.1577									
.550					-.1924	-.2383				
.565				-.1276						
.600								-.2229		
.633	-.2224									
.637			-.0839							
.650							-.1696			
.670									-.1286	
.700		-.0550				-.1139				
.723										-.1765
.725					-.0872					
.727	-.0766									
.750							-.0286	-.0286		
.760				-.1153						
.775					-.0302	-.0546				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .104 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										
.793	.0740									
.798			-.1087							
.808				.0099						
.834		-.1023								
.839			.0273							
850					.0427	.0311	.0537			
.857				.0259						
.862									.0100	
.865		-.0266								
.873			.0228							
.900		-.0093			.0398			.0882		
.905				.0283						
.919			.0112							
.950					.0674	.0940	.1096			
.953				.0501						
.955			.0254							
.965		.0214								

ALPHA (2) = .102 BETA (4) = 4.244 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1698	-.0578	.0260	.2452	.4043	.3490	.3267	.3250	-.1745	
.010		-.0666	.0473		.1935	.2247	.1674	.0150		
.020		-.0713		.0000	.0852	.0700	.0217	-.0453	-.2708	
.040			.0708	.0049						
.05[illegible]	-.1401									
.060					-.1257	-.1667	-.2044	-.2415		
.069									-.3317	
.080					-.2807					
.081				-.1136						
.086			.0866							
.094		-.0666								
.113	-.0820									
.150					-.3897	-.4388	-.5411	-.4484		
.157									-.3511	
.163			.0000							
.177				-.2783						
.229		.0217								
.246			-.1881							
.247	-.0238									
.250					-.4597	-.5076	-.5520	-.5787		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (2) = .102 BETA (4) = 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										
.274				-.3407						
.345									-.2711	
.362		-.0656								
.390			-.2897							
.400					-.3327	-.3925		-.4132		
.402				-.3125						
.418										-.1796
.429	-.0081									
.497		-.2559								
.503									-.2682	
.547	-.1642									
.550					-.2244	-.2535				
.565				-.1625						
.600								-.2194		
.633	-.2437									
.637			-.1273							
.650							-.1792			
.670									-.1125	
.700		-.0917				-.1273				
.723										-.2092
.725					-.1159					
.727	-.1116									
.750							-.0336	-.0245		
.760				-.1390						
.775					-.0802	-.0733				
.793	.0354									
.798			-.1354							
.808				-.0187						
.834		-.1293								
.839			-.0084							
.850					.0247	.0079	.0488			
.857				-.0019						
.862									.0160	
.865		-.0661								
.879			-.0119							
.900		-.0410			.0198			.0891		
.905				.0080						
.919			-.0136							
.950					.0601	.0819	.1075			
.953				.0330						
.955			.0039							
.965		-.0052								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .019 BETA (5) = 8.303 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2152	-.1328	-.0433	.1887	.3552	.3013	.2731	.2590	-.2065	
.010		-.1297	-.0070		.0972	.1280	.0713	-.0609		
.020		-.1124		.0000	.0078	-.0136	-.0454	-.1251	-.3056	
.040			.0352	-.0532						
.041	-.1672									
.050					-.1777	-.2156	-.2404	-.2885		
.069									-.3485	
.080					-.3131					
.081				-.1448						
.085			.0475							
.094		-.0747								
.113	-.1032									
.150					-.3984	-.4444	-.5283	-.4521		
.157									-.3463	
.163			.0000							
.177				-.2850						
.220		.0110								
.246			-.1997							
.247	-.0453									
.250					-.4564	-.5065	-.5391	-.5562		
.274				-.3469						
.345									-.2446	
.362		-.0721								
.390			-.2946							
.400					-.3462	-.3919		-.3994		
.402				-.3307						
.418										-.2428
.423	-.0169									
.497		-.2643								
.503									-.2384	
.547	-.1767									
.550					-.2486	-.2688				
.565				-.1957						
.600								-.2103		
.633	-.2686									
.637			-.1550							
.650							-.1781			
.670									-.0824	
.700		-.1271				-.1354				
.723										-.2123
.725					-.1327					
.727	-.1497									
.750							-.0407	-.0158		
.780				-.1542						
.792					-.0819	-.0851				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (2) = .019 BETA (5) = 8.303

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	.0013									
.798			-.1522							
.808				-.0431						
.834		-.1543								
.839			-.0374							
.850					.0046	-.0061	.0482			
.857				-.0198						
.862									.0399	
.865		-.1006								
.879			-.0339							
.900		-.0636			.0087			.0904		
.905				-.0128						
.919			-.0301							
.950					.0532	.0753	.1012			
.953				.0246						
.955			-.0029							
.965		-.0251								

ALPHA (3) = 4.036 BETA (1) = -7.909 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8940

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0413	.0526	.1001	.3978	.6006	.5844	.5643	.5010	-.0724	
.010		.0010	.0958		.0639	.0966	-.0503	-.3257		
.020		-.0210		.0000	-.0995	-.1673	-.2606	-.4008	-.4716	
.040			.0944	-.1348						
.041	-.0463									
.050					-.3836	-.4851	-.5549	-.6133		
.069									-.5787	
.080					-.5828					
.081				-.3150						
.086			.0603							
.094		-.0478								
.113	-.0319									
.150					-.6367	-.7375	-.8938	-.7363		
.157									-.6952	
.163			.0000							
.177				-.4851						
.220		.0180								
.246			-.3311							
.247	-.0045									
.250					-.6045	-.7287	-.7946	-.8540		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (3) = 4.035 BETA (1) = -7.909

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4717						
.345									-.6282	
.362		-.1434								
.390			-.3704							
.400					-.3400	-.4327		-.5188		
.402				-.3216						
.418										-.4456
.429	-.0208									
.487		-.3173								
.503									-.6158	
.547	-.2350									
.550					-.1501	-.2207				
.565				-.0717						
.600								-.2877		
.633	-.2447									
.637			-.0147							
.650							-.1611			
.670									-.4894	
.709		-.0076				-.0786				
.723										-.7235
.725					-.0191					
.727	-.0338									
.750							-.0214	-.0596		
.760				-.0268						
.775					.0477	.0020				
.793	.1711									
.799			-.0228							
.808				.0850						
.834		-.0187								
.833			.1082							
.950					.0943	.0964	.0692			
.857				.0956						
.862									-.2526	
.866		.0547								
.879			.0962							
.900		.0776			.0865			.0684		
.905				.0857						
.919			.0792							
.950					.1110	.1320	.1210			
.953				.0963						
.955			.0820							
.955		.1036								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (3) = 4.041 BETA (2) = -3.857 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1028	-.0379	.0060	.3148	.5202	.4982	.4670	.3823	-.2109	
.010		-.0912	.0065		-.0539	-.0353	-.1610	-.4503		
.020		-.0940		.0000	-.1921	-.2669	-.3528	-.5173	-.5663	
.040			.0215	-.2145						
.041	-.1042									
.050					-.4477	-.5584	-.6277	-.6921		
.069									-.6348	
.080					-.6296					
.081				-.3628						
.086			.0001							
.094		-.0936								
.113	-.0768									
.150					-.6590	-.7695	-.9007	-.7552		
.157									-.7172	
.163			.0000							
.177				-.5118						
.229		-.0187								
.246			-.3558							
.247	-.0413									
.250					-.6277	-.7344	-.8133	-.8508		
.274				-.4993						
.345									-.6094	
.362		-.1770								
.390			-.3974							
.400					-.3774	-.4559		-.5240		
.402				-.3614						
.418										-.6009
.429	-.0510									
.497		-.3524								
.503									-.5853	
.547	-.2847									
.550					-.1923	-.2552				
.565				-.1202						
.600								-.2828		
.633	-.2849									
.637			-.0659							
.650							-.1815			
.670									-.4848	
.700		-.0630				-.1002				
.723										-.8474
.725					-.0575					
.727	-.0863									
.750							-.0336	-.0617		
.760				-.0610						
.775					.0046	-.0273				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (3) = 4.041 BETA (2) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

XOCW	.0150	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.733	.1243									
.788			-.0537							
.808				.0470						
.834		-.0628								
.839			.0650							
.850					.0667	.0660	.0606			
.857				.0633						
.862									-.3538	
.885		.0031								
.879			.0591							
.900		.0349			.0645			.0667		
.905				.0604						
.919			.0478							
.880					.0914	.1162	.1092			
.902				.0771						
.925			.0551							
.885		.0705								

ALPHA (3) = 4.040 BETA (3) = .186 MACH = .59820 Q = 593.73 P = 2386.0 RN/L = 4.6840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B/2	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1678	-.1430	-.1117	.2044	.4278	.4016	.3701	.2747	-.3476	
.040		-.1871	-.0825		-.1362	-.1249	-.2561	-.5144		
.060		-.1853		.0000	-.2675	-.3421	-.4320	-.5626	-.6163	
.080			-.0393	-.2601						
.101	-.1503									
.120					-.4846	-.5914	-.6706	-.7055		
.140									-.6469	
.161					-.6271					
.181				- 3948						
.200			-.0444							
.221		-.1215								
.241	-.1095									
.260					-.6525	-.7372	-.8813	-.7417		
.281									-.6848	
.301			.0030							
.321				-.5072						
.341		-.0376								
.361			-.3665							
.381	-.0845									
.401					- 8322	-.7277	-.7952	-.8195		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (3) = 4.040 BETA (3) = .186

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				-.4992						
.345									-.5495	
.352		-.1812								
.390			-.4062							
.400					-.3997	-.4673		-.5183		
.402				-.3796						
.419										-.7425
.430	-.0656									
.497		-.3660								
.503									-.5246	
.547	-.2947									
.550					-.2243	-.2683				
.565				-.1553						
.601								-.2806		
.643	-.3165									
.687			-.1153							
.690							-.1885			
.670									-.4173	
.700		-.0994				-.1139				
.743										-.8691
.705					-.0857					
.727	-.1202									
.750							-.0429	-.0538		
.760				-.0284						
.775					-.0224	-.0505				
.793	.0830									
.798			-.0993							
.808				.0095						
.834		-.0994								
.839			.0235							
.850					.0431	.0390	.0468			
.857				.0270						
.859									-.3182	
.865		-.0523								
.879			.0169							
.900		.0065			.0459			.0699		
.905				.0344						
.919			.0164							
.950					.0787	.1000	.1 4			
.953				.0605						
.956			.0391							
.965		.0317								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA B = 4.04 BETA (41) = 4.237 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3340	.4270	.5340	6730	.7800	.8870	.9720	1.0000
X/C=										
000	-.2377	-.2795	-.2501	.0728	.3187	.2782	.2402	.1172	-.5727	
010		-.2821	-.1674		-.2308	-.2618	-.4182	-.6855		
020		-.2379		.0000	-.3697	-.4549	-.5549	-.7344	-.7535	
040			-.0970	-.3240						
060	-.1979									
080					-.5499	-.6587	-.7358	-.8040		
100									-.7130	
120					-.6585					
140				-.4207						
160			-.0782							
180		-.1411								
200	-.1397									
220					-.6590	-.7529	-.8828	-.7597		
240									-.6848	
260			.0000							
280				-.5107						
300		-.0615								
320			-.3659							
340	-.0347									
360					-.6302	-.7237	-.7798	-.8073		
380				-.5034						
400									-.5338	
420		-.1904								
440			-.4012							
460					-.4140	-.4791		-.5107		
480				-.3934						
500										-1.0467
520	-.0759									
540		-.3880								
560									-.5045	
580	-.3038									
600					-.2477	-.2830				
620				-.2074						
640								-.2744		
660	-.3434									
680			-.1771							
700							-.1959			
720									-.3935	
740		-.1339				-.1252				
760										-.9724
780					-.1052					
800	-.1529									
820							-.0510	-.0535		
840				-.1250						
860					-.0477	-.0664				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (3) = 4.044 BETA (4) = 4.237

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	.0405									
.798			-.1380							
.809				-.0526						
.834		-.1382								
.839			-.0081							
.842					.0166	.0143	.0419			
.847				-.0154						
.860									-.2338	
.875		-.0882								
.879			.0019							
.900		-.0357			.0291			.0636		
.905				-.0079						
.919			-.0130							
.930					.0661	.0880	.0979			
.953				.0291						
.970			.0094							
.985		-.0059								

ALPHA (3) = 4.049 BETA (5) = 8.284 MACH = .59520 Q = 593.73 P = 2386.0 RN/L = 4.8840

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	-.3207	-.4257	-.2652	-.0878	.1815	.1552	.0996	-.0266	-.7900	
.010		-.3339	-.1490		-.4123	-.3922	-.5439	-.7855		
.020		-.2558		.0000	-.4680	-.5435	-.6355	-.8233	-.8036	
.040			-.1286	-.3579						
.041	-.2390									
.060					-.6016	-.6926	-.7739	-.8527		
.069									-.7329	
.080					-.6852					
.081				-.4157						
.086			-.1462							
.094		-.2482								
.113	-.1775									
.150					-.6568	-.7543	-.3913	-.7616		
.157									-.6443	
.163			.0000							
.177				-.4723						
.229		-.0421								
.246			-.4563							
.247	-.0875									
.250					-.6256	-.7104	-.7598	-.7848		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (3) = 4.049 BETA (5) = 8.284

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				-.4825						
.345									-.4917	
.362		-.1778								
.390			-.4153							
.400					-.4189	-.4867		-.4963		
.402				-.4129						
.418										-1.2996
.439	-.0875									
.497		-.3913								
.503									-.4805	
.547	-.3091									
.580					-.2769	-.3018				
.595				-.2678						
.600								-.2641		
.633	-.3564									
.637			-.1735							
.650							-.1994			
.670									-.3694	
.700		-.1652				-.1412				
.703										-.8372
.725					-.1374					
.727	-.1797									
.750							-.0508	-.0491		
.760				-.1916						
.775					-.1265	-.0752				
.793	-.0058									
.798			-.1518							
.808				-.0708						
.834		-.1602								
.839			-.0409							
.850					-.0064	-.0095	.0283			
.857				-.0275						
.882									-.1034	
.885		-.1173								
.899			-.0323							
.900		-.0611			.0016			.0636		
.905				-.0108						
.919			-.0262							
.940					.0497	.0767	.0867			
.963				.0272						
.965			-.0044							
.985		-.0283								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

AL ( ) = 7.972 BETA ( ) = -7.894 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8689

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0646	-.1321	-.1783	.1717	.3805	.3140	.2301	.0050	-.7622	
.010		-.2276	-.1909		-.5971	-.6264	-.8763	-1.3520		
.020		-.2068		.0000	-.6970	-.8687	-1.0571	-1.4020	-1.3590	
.040			-.1534	-.5536						
.041	-.0887									
.050					-.9381	-1.1307	-1.2860	-1.4120		
.069									-1.2786	
.080					-1.0899					
.081				-.6997						
.085			-.1705							
.094		-.1428								
.113	-.0750									
.150					-.9912	-1.1512	-1.3122	-1.1498		
.157									-1.3523	
.163			.0000							
.177				-.7554						
.229		-.0693								
.245			-.5359							
.247	-.0556									
.250					-.7952	-.9307	-1.0356	-1.1657		
.274				-.6285						
.345									-1.0813	
.362		-.2731								
.390			-.4733							
.400					-.4063	-.5181		-.6902		
.402				-.3773						
.419										-1.6255
.429	-.1102									
.497		-.4485								
.503									-1.0092	
.547	-.3657									
.560					-.1481	-.2521				
.565				-.1156						
.600								-.3708		
.633	-.3470									
.647			-.0774							
.650							-.1894			
.670									-.9112	
.700		-.0475				-.0783				
.723										-1.8987
.725					-.0012					
.727	-.0477									
.750							-.0451	-.1345		
.760				-.0487						
.775					.0539	.0114				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.972 BETA (1) = -7.894

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	.2087									
.798			-.0349							
.808				.0409						
.834		-.0207								
.838			.1127							
.850					.0932	.1040	.0427			
.857				.0707						
.869									-.5665	
.885		.0274								
.879			.1016							
.900		.0997			.0971			.0066		
.905				.0718						
.919			.0827							
.950					.1119	.134.	.0963			
.953				.0944						
.965			.0853							
.965		.1132								

ALPHA (4) = 7.994 BETA (2) = -3.864 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1509	-.2992	-.3846	-.0060	.2304	.1626	.0639	-.1826	-1.0575	
.010		-.3640	-.3189		-.7409	-.7643	-1.0813	-1.5146		
.020		-.3082		.0000	-.8258	-1.0035	-1.2029	-1.5878	-1.5234	
.040			-.2391	-.6295						
.041	-.1533									
.050					-.9962	-1.2045	-1.3793	-1.5020		
.069									-1.3333	
.080					-1.1262					
.081				-.7320						
.086			-.2315							
.094		-.1799								
.113	-.1212									
.150					-.9836	-1.1563	-1.3152	-1.1511		
.157									-1.3259	
.163			.0000							
.177				-.7605						
.229		-.0988								
.246			-.5552							
.247	-.0938									
.290					-.8113	-.9498	-1.0384	-1.1670		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.984 BETA (2) = -3.864

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				-.6484						
.345									-1.0466	
.362		-.2985								
.390			-.4970							
.400					-.4278	-.5460		-.6947		
.402				-.4112						
.418										-1.9835
.429	-.1273									
.437		-.4899								
.533									-.9547	
.547	-.3928									
.550					-.1855	-.2817				
.565				-.1667						
.600								-.3719		
.633	-.3760									
.637			-.1279							
.650							-.2063			
.670									-.8372	
.700		-.1260				-.1008				
.723										-1.7873
.725					-.0396					
.727	-.1027									
.750							-.0589	-.1351		
.760				-.0839						
.775					.0113	-.0231				
.793	.1373									
.799			-.1008							
.808				.0161						
.834		-.0463								
.839			.0370							
.850					.0490	.0650	.0296			
.857				.0390						
.862									-.6959	
.885		.0082								
.870			.0472							
.900		.0659			.0449			.0010		
.905				.0426						
.919			.0401							
.950					.0593	.1158	.0944			
.953				.0630						
.955			.0557							
.965		.0736								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.990 BETA (3) = .171 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2536	-.4888	-.5738	-.2060	.0697	-.0001	-.1147	-.3687	-1.3586	
.010		-.4906	-.4040		-.8746	-.9348	-1.2240	-1.6506		
.020		-.3854		.0000	-.9301	-1.0917	-1.3208	-1.7109	-1.6533	
.040			-.2499	-.6807						
.041	-.2142									
.050					-1.0417	-1.2577	-1.4118	-1.5362		
.059									-1.3527	
.060					-1.1298					
.081				-.7489						
.086			-.2220							
.094		-.2152								
.113	-.1804									
.150					-.9598	-1.1464	-1.2883	-1.1096		
.157									-1.2037	
.163			.0000							
.177				-.7289						
.209		-.1716								
.246			-.5441							
.247	-.1061									
.250					-.8083	-.9456	-1.0272	-1.1277		
.274				-.6252						
.345									-.9677	
.352		-.3488								
.390			-.5166							
.400					-.4497	-.5501		-.6658		
.402				-.4500						
.418										-2.2503
.429	-.1351									
.497		-.5212								
.503									-.8690	
.547	-.4212									
.550					-.2353	-.2898				
.565				-.2251						
.600								-.3598		
.633	-.3999									
.647			-.2103							
.650							-.2097			
.670									-.8494	
.760		-.0998				-.1158				
.723										-1.7198
.725					-.0902					
.727	-.1498									
.750							-.0674	-.1257		
.760				-.1070						
.775					-.0897	-.0349				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (4) = 7.990 BETA (3) = .171

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										
.798			-.1192							
.808				-.0144						
.834		-.0969								
.839			.0242							
.850					-.0033	.0265	.0220			
.857				.0042						
.862									-.8339	
.865		-.0281								
.879			.0329							
.900		.0175			.0031			.0047		
.905				-.0047						
.919			.0247							
.950					.0553	.0954	.0851			
.953				.0146						
.955			.0468							
.965		.0346								

ALPHA (4) = 7.990 BETA (4) = 4.234 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3597	-.6438	-.5508	-.3891	-.0975	-.1815	-.3165	-.6021	-1.8392	
.010		-.5013	-.2814		-1.0115	-1.0850	-1.4208	-1.8400		
.020		-.3590		.0000	-1.0107	-1.2228	-1.4620	-1.9329	-1.8504	
.040			-.2489	-.6471						
.041	-.2765									
.050					-1.0539	-1.2815	-1.4670	-1.6921		
.069									-1.3605	
.080					-1.1054					
.081				-.6726						
.086			-.2835							
.094		-.3957								
.113	-.2238									
.150					-.9331	-1.0929	-1.3258	-1.1216		
.157									-1.1866	
.163			.0000							
.177				-.6700						
.229		-.2378								
.245			-.6377							
.247	-.1154									
.250					-.7747	-.9200	-1.0028	-1.0761		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.990 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										
.274				-.6405						
.345									-.9509	
.362		-.2639								
.390			-.6662							
.400					-.4596	-.5502		-.6479		
.402				-.4446						
.418										-2.5224
.429	-.1501									
.497		-.5032								
.503									-.8165	
.547	-.4286									
.560					-.3126	-.2968				
.565				-.2426						
.600								-.3571		
.633	-.4237									
.637			-.1972							
.650							-.2210			
.670									-.9490	
.700		-.1479				-.1355				
.723										-1.5294
.725					-.1377					
.727	-.1800									
.750							-.0771	-.1369		
.760				-.1875						
.775					-.1331	-.0854				
.793	.0204									
.799			-.1345							
.808				-.1192						
.834		-.1306								
.839			-.0139							
.850					.0479	-.0209	.0042			
.857				-.0678						
.862									-.8951	
.865		-.0878								
.879			-.0082							
.900		-.0246			.0288			-.0013		
.905				-.0413						
.919			-.0106							
.950					.0775	.0543	.0654			
.953				.0023						
.955			.0156							
.965		-.0046								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.988 BETA (5) = 8.288 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4666	-.7354	-.3834	-.5440	-.2959	-.3870	-.5317	-.8308	-2.2088	
.010		-.4100	-.3250		-1.1042	-1.2550	-1.6074	-1.9693		
.020		-.4050		.0000	-1.0695	-1.2926	-1.5535	-2.0296	-1.6118	
.040			-.3347	-.5348						
.041	-.3909									
.050					-1.0369	-1.2740	-1.4722	-1.6895		
.069									-1.3127	
.080					-1.0462					
.081				-.5979						
.086			-.3677							
.094		-.4254								
.113	-.2177									
.150					-.8552	-1.0453	-1.2607	-1.0830		
.157									-1.1138	
.163			.0000							
.177				-.6321						
.229		-.3477								
.246			-.8018							
.247	-.1467									
.250					-.6919	-.8719	-.9486	-1.0101		
.274				-.6213						
.345									-.8139	
.362		-.2418								
.390			-.5593							
.400					-.5068	-.5176		-.6009		
.402				-.5942						
.418										-1.9358
.429	-.1562									
.497		-.4930								
.503									-.7112	
.547	-.4203									
.550					-.3028	-.3021				
.565				-.3904						
.600								-.3176		
.633	-.4287									
.647			-.2083							
.650							-.1972			
.670									-.7160	
.700		-.1861				-.1680				
.723										-1.2098
.725					-.1402					
.727	-.2027									
.750							-.0629	-.1153		
.768				-.2015						
.775					-.1327	-.1315				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (4) = 7.998 BETA (5) = 8.288

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/2W	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0266									
.798			-.1511							
.808				-.0858						
.834		-.1549								
.839			-.0408							
.850					-.0505	-.0598	-.0024			
.857				-.0356						
.862									-.6193	
.865		-.1024								
.879			-.0354							
.900		-.0500			-.0711			.0011		
.905				-.0141						
.910			-.0328							
.950					-.0346	.0641	.0521			
.953				.0276						
.955			-.0028							
.956		-.0363								

ALPHA (5) = 11.959 BETA (1) = -7.860 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/2W	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1551	-.5172	-.7987	-.3875	-.1360	-.2584	-.4197	-.7239	-2.0118	
.010		-.6056	-.6705		-1.5762	-1.6486	-2.0652	-2.5050		
.020		-.4843		.0000	-1.5622	-1.8415	-2.2182	-2.6287	-2.7067	
.040			-.5066	-1.1022						
.041	-.1480									
.050					-1.6629	-1.9712	-2.3459	-2.5422		
.069									-2.6783	
.080					-1.7599					
.081				-1.1386						
.086			-.4504							
.094		-.2219								
.113	-.1573									
.150					-1.2880	-1.4267	-1.6035	-1.5454		
.15									-2.0420	
.163			.0000							
.177				-.9753						
.209		-.2032								
.246			-.6846							
.247	-.0915									
.251					-.9431	-1.1274	-1.2179	-1.3865		

AMES 11-073(OA148) -140%/B/C/R ORP LEFT WING TOP (XE8U37:

ALPHA (S) = 11.959 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										
.274				-.7124						
.345									-1.9560	
.362		-.4938								
.390			-.6047							
.400					-.4003	-.5459		-.8122		
.402				-.4777						
.418										-2.2300
.429	-.1959									
.497		-.7482								
.503									-1.9286	
.547	-.5094									
.550					-.1924	-.2330				
.585				-.2240						
.600								-.4767		
.633	-.4306									
.637			-.1167							
.650							-.2110			
.670									-1.2790	
.700		-.1127				-.0764				
.723										-1.7830
.725					-.0787					
.727	-.0674									
.750							-.0976	-.3229		
.760				-.0405						
.775					-.1269	-.0152				
.793	.1845									
.798			-.1349							
.809				.0472						
.834		-.0101								
.839			-.0219							
.850					-.0346	.0350	-.0129			
.857				.0467						
.862									-1.0270	
.865		.0735								
.879			.0243							
.900		.1258			-.0305			-.1441		
.905				.0222						
.919			.0324							
.950					.0300	.1058	.0452			
.953				.0237						
.955			.0709							
.965		.1204								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (5) = 11.981 BETA (2) = -3.846 MACH = .59576 Q = 594.79 P = 2385.8 RN/L = 4.8888

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	-.2659	-.7397	-.9099	-.6095	-.3382	-.4673	-.6537	-.9390	-2.4003	
.010		-.7271	-.5766		-1.7312	-1.8398	-2.2338	-2.6893		
.020		-.5267		.0000	-1.6865	-1.9830	-2.4397	-2.8014	-2.6293	
.040			-.3447	-1.0640						
.041	-.2384									
.050					-1.6637	-2.0751	-2.5187	-2.6740		
.059									-2.6429	
.060					-1.7317					
.061				-1.0619						
.080			-.3708							
.094		-.3946								
.113	-.2325									
.150										
.157					-1.2552	-1.4518	-1.4814	-1.5940		
.165									-2.0887	
.177			.0000							
.209				-.8995						
.249		-.4613								
.267			-.7593							
.267	-.1197									
.270					-.9095	-1.1150	-1.2168	-1.2855		
.345				-.7870						
.362		-.6248							-2.0806	
.390			-.6299							
.400					-.4696	-.5609		-.8226		
.402				-.5698						
.418										
.429	-.1991									-2.1017
.437		-.7056								
.503										
.547	-.5445								-2.0612	
.550										
.565					-.2987	-.2671				
.600				-.1363						
.633	-.4797							-.4825		
.647			-.2579							
.650							-.2111			
.670										
.700		-.1169							-1.4908	
.723						-.1200				
.725										-1.5346
.727	-.1528				-.1865					
.750							-.1044	-.3436		
.770				-.0661						
.775					-.2025	-.0644				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (5) = 11.981 BETA (2) = -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										
.793	.0979									
.798			-.1325							
.808				-.0011						
.834		-.0719								
.839			-.0169							
.850					.0317	.0014	-.0309			
.857				.0133						
.868									-1.0585	
.885		.0093								
.879			.0049							
.888		.0624			.0547			-.1620		
.905				-.0018						
.918			-.0030							
.950					.1180	.0546	.0303			
.963				.0228						
.955			.0230							
.965		.0596								

ALPHA (5) = 11.991 BETA (3) = .172 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4018	-.9176	-.9235	-.8410	-.5440	-.6950	-.8593	-1.1374	-2.5707	
.010		-.6209	-.4483		-1.8725	-2.0171	-2.4096	-2.8283		
.020		-.4792		.0000	-1.7424	-2.1834	-2.6027	-2.8489	-1.9563	
.040			-.4260	-.9617						
.041	-.3654									
.050					-1.6344	-2.1254	-2.6325	-2.7174		
.069									-1.8094	
.080					-1.6299					
.081				-.8961						
.086			-.4774							
.094		-.5333								
.113	-.2310									
.150					-1.1815	-1.4271	-1.5520	-1.7757		
.157									-1.6763	
.163			.0000							
.177				-.9166						
.229		-.6961								
.245			-.8259							
.247	-.1625									
.250					-.8450	-1.0707	-1.1753	-1.1980		

[illegible] FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU37)

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

ALPHA [illegible] = 11.991 BETA (3) = .172

PLOT SY LEFT WING TOP SURF DEPENDENT VARIABLE CP

ETA	.2350	.2890	3E+0	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]				-.7980						
[illegible]									-1.7461	
[illegible]		-.6022								
[illegible]			-.7218							
[illegible]					-.5520	-.5330		-.7847		
[illegible]				-.4851						
[illegible]										1.8268
[illegible]	-.2552									
[illegible]		-.7880								
[illegible]									-1.6560	
[illegible]	-.6938									
[illegible]					-.4008	-.3034				
[illegible]				-.2456						
[illegible]								-.4661		
[illegible]	-.8125									
[illegible]			-.3214							
[illegible]							-.2092			
[illegible]									-1.1529	
[illegible]		-.1531				-.1653				
[illegible]										-1.3858
[illegible]					-.0801					
[illegible]	-.1819									
[illegible]							-.1285	-.2823		
[illegible]				-.1706						
[illegible]					-.0625	-.1589				
[illegible]	.0476									
[illegible]			-.1429							
[illegible]				-.1722						
[illegible]		-.1102								
[illegible]			-.0233							
[illegible]					.0488	-.0967	-.0618			
[illegible]				-.1282						
[illegible]									-.8362	
[illegible]		-.0361								
[illegible]			-.0096							
[illegible]		.0184			.0472			-.1374		
[illegible]				-.1093						
[illegible]			-.0118							
[illegible]					.0843	-.0145	-.0007			
[illegible]				-.0898						
[illegible]			.0173							
[illegible]		.0228								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPH (5) = 11.935 BETA (4) = 4.243 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

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	-.5306	-1.0131	-.6284	-.9592	-.7333	-.9202	1.0977	-1.3764	-2.4465	
.010		-.5527	-.4920		-1.9752	-2.1895	-2.6177	-2.4854		
.020		-.5423		.0000	-1.7335	-2.3272	-2.7589	-2.4454	-1.5686	
.040			-.4913	-.7721						
.041	-.5044									
.060					-1.5748	-2.0996	-2.6913	-2.1978		
.080									-1.5089	
.090					-1.4851					
.098				-.8382						
.100			-.5200							
.104		-.5995								
.113	-.2809									
.150					-1.0308	-1.3573	-1.5513	-1.9435		
.167									-1.3719	
.183			.0000							
.177				-.8530						
.229		-.7231								
.246			-.8886							
.247	-.2090									
.250					-.8244	-.9776	-1.1339	-1.5038		
.274				-.7799						
.345									-1.2616	
.362		-.5311								
.390			-.8831							
.400					-.6073	-.5384		-.7827		
.409				-.6527						
.418										-1.2237
.429	-.2599									
.437		-.6543								
.503									-1.1923	
.547	-.5552									
.560					-.3418	-.3908				
.565				-.5456						
.600								-.3705		
.633	-.5320									
.637			-.2773							
.650							-.2592			
.670									-.8929	
.700		-.1809				-.2450				
.723										-1.0890
.725					-.1674					
.727	-.2089									
.750							-.2146	-.2075		
.760				-.2347						
.775					-.2007	-.1584				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U37)

ALPHA (5) = 11.985 BETA (%) = 4.243

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0018									
.799			-.1476							
.808				-.1842						
.834		-.1453								
.839			-.0234							
.880					-.1462	-.0616	-.1563			
.901				-.1011						
.942									-.7146	
.965		-.0773								
.979			-.0101							
.990		-.0187			-.1016			-.1220		
.995				-.0533						
.919			-.0039							
.950					-.0710	.0465	-.0751			
.963				.0052						
.955			.0159							
.985		-.0024								

ALPHA (5) = 11.975 BETA (5. = 8.313 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6783	-1.0872	-.5588	-1.0203	-.9616	-1.1781	-1.3570	-1.6073	-1.6547	
.010		-.5976	-.5200		-1.9697	-2.3862	-2.7962	-2.2319		
.020		-.6028		.0000	-1.6617	-2.4922	-2.9134	-2.1400	-1.3450	
.040			-.5304	-.7655						
.061	-.7033									
.060					-1.4448	-1.9079	-2.7753	-1.9551		
.069									-1.3229	
.080					-1.2909					
.081				-.8005						
.095			-.5910							
.094		-.6329								
.113	-.3398									
.150					-.9523	-1.2657	-1.4699	-1.8203		
.197									-1.2200	
.163			.0000							
.214				-.8129						
.241		-.8684								
.248			-1.0330							
.277	-.2628									
.300					-.8484	-.8877	-1.0515	-1.5570		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU37)

ALPHA (5) = 11.975 BETA (5) = 8.313

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				-.7827						
.345									-1.0651	
.362		-.4267								
.390			-.7605							
.400					-.5770	-.6117		-.8462		
.402				-.8131						
.418										-1.0261
.429	-.2498									
.497		-.6357								
.503									-1.0387	
.547	-.5386									
.550					-.4290	-.4645				
.565				-.5451						
.600								-.3664		
.633	-.5192									
.637			-.2866							
.650							-.3318			
.670									-.8262	
.700		-.2173				-.2775				
.723										-.8911
.725					-.2834					
.727	-.2280									
.750							-.2928	-.2306		
.760				-.2300						
.775					-.4224	-.1474				
.793	-.0412									
.798			-.1677							
.808				-.1660						
.834		-.1657								
.839			-.0615							
.850					-.2713	-.0761	-.1992			
.857				-.0969						
.862									-.6481	
.865		-.1160								
.879			-.0459							
.900		-.0493			-.2697			-.1216		
.905				-.0541						
.919			-.0272							
.950					-.1901	-.0158	-.0846			
.953				.0148						
.955			-.0081							
.965		-.0343								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38) (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 = 10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = 10.000 MACH = 1.400

ALPHA (1) = -4.002 BETA (1) = -3.853 MACH = 1.3931 Q = 600.20 P = 441.83 RN/L = 2.9112

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5540	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1297	-.0969	-.0957	.2973	.7083	.6527	.6124	.6328	-.3154	
.010		-.0291	.0087		.7516	.7389	.6975	.6305		
.020		-.0232		.0000	.6727	.6391	.6117	.5870	.0192	
.040			.0579	.3972						
.041	-.0459									
.050					.4611	.4288	.4127	.4068		
.069									-.0323	
.080					.2804					
.081				.3049						
.086			.1696							
.094		-.0187								
.113	-.0267									
.150					.0510	.0595	.0847	.1194		
.157									-.1712	
.163			.0000							
.177				.1161						
.229		.0593								
.246			.1064							
.247	-.0196									
.250					-.0834	-.0932	-.0836	-.0846		
.274				-.0196						
.345									-.2079	
.362		.1457								
.390			- 0104							
.400					-.2097	-.2535		-.2815		
.402				-.1775						
.418										-.3799
.429	.0574									
.497		.0054								
.503									-.2457	
.547	.0758									
.550					-.2608	-.2967				
.565				-.1742						
.600								-.3535		
.633	-.0291									
.637			-.1450							
.650							-.3530			
.670									-.4723	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (1) = -4.002 BETA (1) = -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										
.700		-.1189				-.3110				
.723										
.725										-.2871
.727	-.1018				-.0594					
.750										
.760							-.4979	-.5129		
.775				.0108						
.793	.2471				-.2035	-.3802				
.798			.0644							
.808				-.1190						
.934		.1214								
.839			-.1416							
.850					-.1235	-.2188	-.4924			
.857				-.1384						
.862									-.4203	
.865		-.2136								
.879			-.1603							
.900		-.1186			-.1404			-.4621		
.905				-.1539						
.919			-.1351							
.950					-.1266	-.1253	-.2447			
.953				-.1332						
.955			-.1417							
.965		-.1308								

ALPHA (1) = -3.940 BETA (2) = .193 MACH = 1.3931 Q = 600.20 P = 441.83 RN/L = 2.9112

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1573	-.0686	-.0542	.2633	.6311	.5662	.5199	.5317	-.3834	
.010		-.0456	.0038		.6577	.6462	.6078	.5419		
.020		-.0577		.0000	.5842	.5520	.5301	.5045	-.0656	
.040			.0353	.3151						
.041	-.1071									
.050					.3910	.3637	.3448	.3439		
.069									-.1057	
.080					.2200					
.081				.2423						
.086			.1304							
.094		-.0449								
.113	-.0905									
.150					.0268	.0317	.0536	.0866		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (1) = -3.940 BETA (2) = .193

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									-.2238	
.163			.0000							
.177				.0862						
.229		.0332								
.246			.0664							
.247	-.0498									
.250					-.0957	-.1006	-.1063	-.1102		
.274				-.0260						
.345									-.2451	
.362		.1182								
.390			-.0208							
.400					-.2072	-.2523		-.2893		
.402				-.1835						
.418										-.4414
.429	.0296									
.497		-.0276								
.503									-.2714	
.547	.0485									
.550					-.2500	-.2847				
.565				-.1660						
.600								-.3548		
.633	-.0614									
.637			-.0367							
.650							-.3420			
.670									-.4805	
.700		-.0747				-.2738				
.723										-.3349
.725					-.0103					
.727	-.0986									
.750							-.4934	-.5255		
.760				.0385						
.775					-.2105	-.2667				
.793	.2948									
.798			.0558							
.808				-.1792						
.834		.0879								
.839			-.1889							
.850					-.1397	-.1891	-.4742			
.857				-.1787						
.862									-.4138	
.865		-.2513								
.879			-.1981							
.900		-.1502			-.1582			-.4672		
.905				-.1968						
.919			-.1664							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE9U38)

ALPHA (1) = -3.940 BETA (2) = .193

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										
.953					-.1580	-.1134	-.2381			
.955				-.1690						
.965			-.1648							
		-.1650								

ALPHA (1) = -3.950 BETA (3) = 4.276 MACH = 1.3931 Q = 600.20 P = 441.83 RN/L = 2.9112

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1626	-.0770	-.0259	.2531	.5643	.4805	.4328	.4382	-.4286	
.010		-.0834	.0054		.5731	.5549	.5150	.4557		
.020		-.0997		.0000	.5052	.4350	.4456	.4214	-.1395	
.040			.0269	.2604						
.041	-.1583									
.050										
.069					.3327	.2956	.2781	.2784		
.080									-.1691	
.081					.1818					
.086				.1957						
.094			.1033							
.113		-.0668								
.150	-.1476									
.157					.0119	.0025	.0249	.0453		
.177			.0000						-.2676	
.229				.0604						
.246		.0162								
.247	-.0639		.0493							
.250										
.274					-.1025	-.1148	-.1239	-.1318		
.345				-.0308						
.362		.1078							-.2787	
.390			-.0294							
.400					-.2076	-.2518		-.3018		
.402				-.1855						
.418										
.429	.0256									-.4797
.497		-.0405								
.503										
.547	.0372								-.2991	
.550										
.565					-.2415	-.2871				
				-.1531						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (1) = -3.950 BE A (3) = 4.276

SECTION (1)LEFT WING TOP RF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.3738		
.633	-.0852									
.637			.0293							
.650							-.3319			
.670									-.4913	
.700		-.0219				-.1252				
.723										-.3455
.725					.0252					
.727	-.0946									
.750							-.4906	-.5244		
.760				.0351						
.775					-.2040	-.2426				
.793	.2982									
.799			.0392							
.808				-.1923						
.834		.0768								
.839			-.2103							
.850					-.1597	-.1496	-.3437			
.857				-.2058						
.882									-.3082	
.885		-.2655								
.879			-.2226							
.900		-.1761				-.1808		-.2680		
.905				-.2225						
.919			-.1940							
.950						-.1831	-.1032	-.2106		
.943				-.2015						
.955			-.1836							
.965		-.1847								

ALPHA (2) = .030 BETA (1) = -3.869 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9073

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0356	.0173	.0169	.4104	.7547	.7096	.6801	.6884	-.1498	
.010		.0199	.0337		.6046	.6451	.6025	.5103		
.020		-.0014		.0000	.5016	.5052	.4817	.4548	.0114	
.040			.0536	.2475						
.041	-.0358									
.050					.2838	.2752	.2574	.2579		
.069									-.0577	
.080					.1117					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U38)

ALPHA (2) = .030 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				.1233						
.086			.1133							
.094		-.0569								
.113	-.0348									
.150					-.0854	-.0773	-.0559	-.0115		
.157									-.2179	
.163			.0000							
.177				-.0200						
.223		-.0040								
.246			-.0012							
.247	-.0562									
.250					-.2276	-.2296	-.2139	-.1984		
.274				-.1489						
.345									-.2760	
.362		.0676								
.390			-.1202							
.400					-.3249	-.3721		-.3765		
.402				-.2718						
.418										-.1755
.429	.0071									
.497		-.0804								
.503									-.3249	
.547	.0045									
.550					-.3577	-.4043				
.565				-.2713						
.600								-.3998		
.633	-.1166									
.637			-.2305							
.650							-.4441			
.673									-.5297	
.700		-.1978				-.4071				
.723										-.2767
.725					-.1860					
.727	-.1713									
.750							-.5490	-.5361		
.760				-.1027						
.775					-.3468	-.5020				
.793	.0244									
.798			-.0600							
.808				-.2106						
.834		.0204								
.839			-.1810							
.850					-.2314	-.3296	-.3931			
.857				-.1780						
.862									-.5183	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (2) = .030 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										
.865		-.2585								
.879			-.1770							
.900		-.1397			-.2293			-.3950		
.905				-.1787						
.919			-.1557							
.950					-.1708	-.2656	-.3609			
.953				-.1591						
.955			-.1491							
.965		-.1565								

ALPHA (2) = .035 BETA (2) = .183 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9073

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0928	-.0254	-.0295	.3525	.6649	.6165	.5858	.5868	-.1991	
.010		-.0443	-.0139		.4950	.5423	.5081	.4168		
.020		-.0623		.0000	.3991	.4129	.3956	.3735	-.0595	
.040			.0114	.1681						
.041	-.0890									
.050					.2152	.2031	.1918	.1928		
.069									-.1200	
.080					.0574					
.081				.0643						
.086			.0698							
.094		-.1129								
.113	-.0994									
.150					-.1168	-.1137	-.0915	-.0470		
.157									-.2590	
.163			.0000							
.177				-.0500						
.229		-.0246								
.246			-.0300							
.247	-.1037									
.250					-.2359	-.2480	-.2374	-.2193		
.274				-.1529						
.345									-.3025	
.362		.0416								
.390			-.1258							
.400					-.3095	-.3701		-.3891		
.402				-.2683						
.418										-.1933
.423	-.0147									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (2) = .036 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		-.1039								
.503									-.3397	
.547	-.0149									
.550					-.3430	-.3933				
.565				-.2688						
.600								-.4225		
.633	-.1488									
.637			-.2242							
.650							-.4406			
.670									-.4879	
.700		-.1938				-.3774				
.723										-.3611
.725					-.1291					
.727	-.1713									
.750							-.5204	-.3957		
.760				-.0825						
.775					-.3050	-.4249				
.793	.1301									
.799			-.0447							
.808				-.2317						
.834		.0172								
.839			-.2457							
.850					-.2627	-.2591	-.3691			
.857				-.2206						
.862									-.4031	
.865		-.2915								
.879			-.2266							
.900		-.1758			-.2255			-.3711		
.905				-.2133						
.919			-.1769							
.950					-.1840	-.1749	-.3377			
.953				-.1877						
.955			-.1700							
.965		-.1825								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (2) = .034 BETA (3) = 4.255 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9073

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0649	-.1019	-.0856	.2912	.5875	.5342	.4939	.4977	-.2061	
.010		-.1324	-.0563		.3876	.4434	.4087	.3263		
.020		-.1423		.0000	.3139	.3246	.3086	.2870	-.1200	
.040			-.0185	.1157						
.041	-.1332									
.050					.1553	.1357	.1204	.1279		
.059									-.1742	
.080					.0154					
.081				.0385						
.085			.0365							
.094		-.1588								
.113	-.1564									
.150					-.1326	-.1472	-.1240	-.0891		
.157									-.2973	
.163			.0000							
.177				-.0679						
.229		-.0312								
.246			-.0336							
.247	-.1321									
.260					-.2224	-.2678	-.2578	-.2482		
.297				-.1441						
.345									-.3195	
.362		.0442								
.390			-.1235							
.400					-.3042	-.3580		-.4043		
.402				-.2611						
.418										-.1523
.429	-.0132									
.407		-.1068								
.503									-.3474	
.547	-.0186									
.550					-.3386	-.3823				
.585				-.2597						
.600								-.4475		
.633	-.1659									
.647			-.1530							
.650							-.4293			
.670									-.3685	
.700		-.1702				-.3379				
.723										-.5031
.725					-.1160					
.727	-.1681									
.750							-.4984	-.3841		
.760				-.0686						
.775					-.2950	-.3414				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (2) = .034 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										
.793	.1689									
.798			-.0375							
.808				-.2472						
.834		.0043								
.839			-.2671							
.850					-.2566	-.2071	-.3579			
.857				-.2534						
.862									-.3479	
.865		-.3049								
.879			-.2522							
.900		-.2019			-.2274			-.3452		
.905				-.2412						
.919			-.2017							
.950					-.2013	-.1465	-.3040			
.953				-.2104						
.955			-.1894							
.965		-.2023								

ALPHA (3) = 3.894 BETA (1) = -3.872 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0536	.0273	-.0375	.3796	.7537	.7401	.7165	.7059	.0759	
.010		-.0164	-.0597		.3824	.4975	.4618	.3495		
.020		-.0343		.0000	.2841	.3329	.3221	.2871	-.0503	
.040			-.0465	.0422						
.041	-.0204									
.050					.0820	.1053	.1003	.0900		
.069									-.0965	
.080					-.0731					
.081				-.0641						
.086			-.0080							
.094		-.0830								
.113	-.0386									
.150					-.2816	-.2320	-.2002	-.1482		
.157									-.2724	
.163			.0000							
.177				-.1874						
.229		-.0842								
.246			-.1249							
.247	-.0608									
.250					-.3505	-.3638	-.3352	-.3026		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (31) = 3.894 BETA (1) = -3.872

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				-.2782						
.345									-.3410	
.382		-.0216								
.390			-.2218							
.400					-.4320	-.4738		-.4548		
.422				-.3597						
.438										-.1294
.454	-.0551									
.467		-.1597								
.503									-.4147	
.547	-.0619									
.550					-.4443	-.5078				
.556				-.3531						
.600								-.4715		
.624	-.2096									
.627			-.3047							
.650							-.4950			
.670									-.5430	
.700		-.2731				-.5045				
.723										-.5365
.725					-.2797					
.727	-.2407									
.750							-.3976	-.4118		
.760				-.1619						
.775					-.4540	-.5170				
.793	-.1713									
.799			-.1506							
.808				-.3232						
.834		-.0650								
.839			-.2787							
.850					-.3273	-.3725	-.4040			
.857				-.2854						
.882									-.5574	
.865		-.2923								
.879			-.2204							
.900		-.1612			-.2664			-.4014		
.905				-.2419						
.919			-.1789							
.950					-.2008	-.3446	-.4018			
.953				-.2009						
.955			-.1659							
.965		-.1657								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB038)

ALPHA (3) = 3.895 BETA (2) = .183 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.910B

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0199	-.0777	-.1994	.2551	.6485	.6392	.6249	.6064	.0242	
.010		-.1302	-.1987		.2726	.3857	.3573	.2499		
.020		-.1345		.0000	.1851	.2400	2329	.1964	-.1126	
.040			-.1491	-.0189						
.041	-.0714									
.050					.0111	.0341	.0311	.0204		
.069									-.1580	
.080					-.1269					
.081				-.1074						
.085			-.0657							
.094		-.1460								
.113	-.0983									
.150										
.157					-.3104	-.2700	-.2375	-.1909		
.163									-.3120	
.177			.0000							
.223		-.1230		-.2062						
.246			-.1378							
.247	-.1140									
.250										
.274					-.3574	-.3859	-.3607	-.3323		
.345				-.2775						
.362									-.3704	
.390		-.0328								
.400			-.2170							
.402					-.4226	-.4839		-.4698		
.418				-.3490						
.429	-.0684									-.2468
.497		-.1723								
.503										
.547	-.0775								-.4277	
.560										
.565					-.4148	-.4986				
.600				-.3398						
.633	-.2296							-.4644		
.637			-.2991							
.650										
.670							-.5093			
.700		-.2719							-.5756	
.723						-.4794				
.725										-.6054
.727	-.2401				-.2201					
.750										
.760							-.4324	-.4274		
.775				-.1435						
					-.3975	-.4894				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (3) = 3.895 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	-.0020									
.798			-.1239							
.808				-.3042						
.834		-.0224								
.873			-.2865							
.880					-.3427	-.3076	-.4218			
.897				-.3068						
.903									-.5900	
.906		-.3128								
.913			-.2778							
.923		-.2137			-.3119			-.4230		
.935				-.2817						
.939			-.2118							
.950					-.2350	-.2175	-.4079			
.962				-.2295						
.966			-.1905							
.965		-.2036								

ALPHA (3) = 3.906 BETA (3) = 4.246 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.91DB

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0115	-.2174	-.4118	.1270	.5375	.5431	.5263	.5109	-.0595	
.010		-.2730	-.3605		.1466	.2679	.2435	.1417		
.023		-.2508		.0000	.0702	.1327	.1304	.0969	-.1957	
.040			-.2209	-.0866						
.041	-.1161									
.050					-.0665	-.0462	-.0502	-.0587	-.2267	
.069					-.1778					
.080				-.1445						
.081			-.1156							
.086		-.2067								
.094										
.113	-.1561				-.3198	-.3062	-.2801	-.2439		
.150									-.3560	
.157										
.163			.0000							
.177				-.1998						
.178		-.1255								
.196			-.1330							
.197	-.1573									
.213					-.3540	-.4063	-.3908	-.3673		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (3) = 3.906 BETA (3) = 4.246

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				-.2579						
.345									-.4110	
.362		-.0282								
.390			-.2041							
.400					-.3943	-.4790		-.4911		
.402				-.3311						
.418										-.4097
.429	-.0685									
.497		-.1743								
.503									-.4444	
.547	-.0771									
.560					-.4024	-.4802				
.565				-.3297						
.600								-.4996		
633	-.2416									
.637			-.2945							
.650							-.5176			
.670									-.5624	
.700		-.2718				-.4184				
.723										-.5754
.725					-.2063					
.727	-.2399									
.750							-.5299	-.4393		
.760				-.1362						
.775					-.3746	-.3325				
.793	.1058									
.798			-.0821							
.808				-.3073						
.834		-.0265								
.839			-.3065							
.850					-.3309	-.2311	-.4337			
.857				-.3165						
.862									-.5527	
.865		-.3459								
.879			-.3132							
.900		-.2318			-.2787			-.4035		
.905				-.2975						
.919			-.2164							
.950					-.2199	-.1973	-.3688			
.953				-.2429						
.955			-.2117							
.965		-.2651								

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (4) = 7.922 BETA (1) = -3.861 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0975	-.0643	-.2137	.2631	.6963	.7144	.7078	.6756	.0225	
.010		-.1478	-.2428		.1610	.3078	.2730	.1387		
.020		-.1345		.0000	.0529	.1406	.1367	.0793	-.2[illegible]5	
.040			-.1773	-.1501						
.041	-.0177									
.050					-.1179	-.0742	-.0775	-.0990		
.069									-.2553	
.080					-.2508					
.081				-.2547						
.086			-.1225							
.094		-.1151								
.113	-.0357									
.150					-.4223	-.3652	-.3480	-.2965		
.157									-.3944	
.163			.0000							
.177				-.3845						
.229		-.1206								
.246			-.2694							
.247	-.0565									
.250					-.5112	-.4787	-.4460	-.4128		
.274				-.4267						
.345									-.4864	
.362		-.1142								
.330			-.3284							
.400					-.5709	-.5681		-.5299		
.402				-.4446						
.418										-.3907
.429	-.1094									
.437		-.2554								
.503									-.5170	
.547	-.1634									
.550					-.5600	-.5960				
.565				-.4194						
.600								-.5239		
.633	-.2998									
.637			-.3915							
.650							-.5556			
.670									-.5723	
.700		-.3608				-.5669				
.723										-.5797
.725					-.4017					
.727	-.3120									
.750							-.4735	-.4585		
.760				-.2516						
.775					-.5344	-.4241				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (4) = 7.922 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										
.793	-.2819									
.798			-.1954							
.808				-.4019						
.834		-.1388								
.839			-.3759							
.850					-.3171	-.4191	-.4692			
.857				-.3930						
.862									-.5463	
.865		-.3301								
.879			-.3162							
.900		-.2017			-.2781			-.4771		
.905				-.2958						
.919			-.2372							
.950					-.2449	-.3462	-.4541			
.953				-.2377						
.955			-.2138							
.980		-.2058								

ALPHA (4) = 7.892 BETA (2) = .182 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0380	-.2201	-.4356	.0645	.5380	.5846	.5858	.5475	-.1414	
.010		-.2940	-.3983		-.0052	.1488	.1250	.0086		
.020		-.2720		.0000	-.1092	.0033	.0105	-.0449	-.3499	
.040			-.3159	-.2869						
.041	-.0622									
.050					-.2529	-.1880	-.1738	-.1996		
.069									-.3556	
.080					-.3522					
.081				-.3432						
.086			-.2243							
.094		-.1815								
.113	-.0970									
150					-.4850	-.4222	-.4053	-.3561		
.157									-.4539	
.163			.0000							
.177				-.4378						
.229		-.1792								
.246			-.2750							
.247	-.1169									
.250					-.5392	-.5129	-.4864	-.4549		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (4) = 7.892 BETA (2) = .182

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				-.3655						
.345									-.5226	
.362		-.1534								
.390			-.3013							
.400					-.5489	-.5841		-.5532		
.402				-.4073						
.419										-.5362
.429	-.1654									
.497		-.2661								
.503									-.5496	
.547	-.1541									
.550					-.4703	-.5950				
.555				-.3983						
.600								-.5207		
.633	-.3042									
.637			-.3890							
.650							-.5526			
.670									-.5344	
.700		-.3499				-.5253				
.723										-.5002
.725					-.2729					
.727	-.3017									
.750							-.4496	-.4544		
.760				-.1923						
.775					-.4289	-.4734				
.793	-.1299									
.799			-.1721							
.808				-.3811						
.834		-.0437								
.849			-.3556							
.850					-.3933	-.4445	-.4679			
.857				-.3834						
.862									.5347	
.865		-.3291								
.879			-.3324							
.900		-.2154			-.3448			-.4928		
.905				-.3683						
.919			-.2616							
.950					-.2420	-.3684	-.4595			
.953				-.3199						
.955			-.2339							
.965		-.2707								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (4) = 7.830 BETA (3) = 4.245 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0173	-.3976	-.4136	-.1420	.3688	.4456	.4510	.4083	-.3076	
.010		-.3815	-.4115		-.1684	.0153	-.0098	-.1093		
.020		-.3806		.0000	-.2590	-.1089	-.1043	-.1554	-.4526	
.040			-.3950	-.3282						
.041	-.1117									
.050					-.3748	-.2674	-.2569	-.2867		
.069									-.4780	
.080					-.4357					
.081				-.3112						
.086			-.3690							
.094		-.3654								
.113	-.1531									
.150					-.4978	-.4636	-.4493	-.4083		
.157									-.5052	
.163			.0000							
.177				-.3152						
.229		-.2044								
.246			-.4238							
.247	-.1725									
.250					-.4779	-.5365	-.5144	-.4895		
.274				-.3352						
.345									-.5352	
.362		-.1103								
.390			-.2730							
.400					-.4464	-.5919		-.5.70		
.402				-.3796						
.418										-.5414
.429	-.1609									
.497		-.2377								
.503									-.5383	
.547	-.1375									
.550					-.4383	-.5841				
.565				-.4011						
.600								-.5522		
.633	-.2966									
.637			-.3704							
.650							-.5691			
.670									-.5101	
.700		-.3229				-.4882				
.723										-.4912
.725					-.2609					
.727	-.2955									
.750							-.4844	-.4564		
.760				-.1460						
.775					-.4369	-.4887				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (4) = 7.830 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	.0259									
.798			-.1412							
.808				-.3676						
.834		-.1027								
.939			-.3642							
.950					-.4009	-.3070	-.4822			
.857				-.3861						
.862									-.4983	
.865		-.3631								
.879			-.3073							
.900		-.2708			-.3732			-.4642		
.905				-.3683						
.919			-.2432							
.950					-.2805	-.2476	-.4331			
.953				-.3232						
.955			-.2832							
.955		-.3584								

ALPHA (5) = 11.870 BETA (1) = -3.851 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0202	-.2361	-.3700	.1096	.6019	.6418	.6357	.5751	-.1796	
.010		-.2866	-.3391		-.0297	.1193	.0580	-.0744		
.020		-.2734		.0000	-.1302	-.0319	-.0590	-.1302	-.4846	
.040			-.2717	-.3273						
.041	-.0152									
.050					-.2860	-.2194	-.2284	-.2757		
.069									-.4856	
.080					-.3870					
.081				-.3858						
.086			-.2033							
.094		-.2007								
.113	-.0386									
.150					-.5138	-.4616	-.4491	-.4164		
.157									-.5488	
.163			.0000							
.177				-.4758						
.229		-.1696								
.245			-.2874							
.247	-.0546									
.250					-.5774	-.5474	-.5226	-.4979		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (5) = 11.870 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										
.274				-.4725						
.345									-.5968	
.352		-.1535								
.390			-.3744							
.400					-.5849	-.5438		-.5624		
.402				-.4977						
.418										-.5420
.429	-.1339									
.497		-.3598								
.503									-.5951	
.547	-.2012									
.550					-.5514	-.5507				
.565				-.4961						
.600								-.5468		
.633	-.3997									
.637			-.4782							
.650							-.5519			
.670									-.5616	
.700		-.4658				-.5214				
.723										-.5158
.725					-.5050					
.727	-.4065									
.750							-.4777	-.4949		
.760				-.3160						
.775					-.4778	-.4569				
.793	-.3801									
.798			-.2301							
.808				-.4867						
.834		-.2102								
.839			-.4333							
.850					-.4350	-.4404	-.4874			
.857				-.4442						
.862									-.5439	
.865		-.3820								
.879			-.3343							
.900		-.2215			-.4107					
.905				-.3181				-.5385		
.919			-.3072							
.950					-.3698	-.3894	-.4673			
.953				-.2897						
.965			-.3091							
.965		-.3327								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (5) = 11.880 BETA (2) = .187 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0637	-.3649	-.3656	-.0962	.4305	.4844	.4835	.4194	-.3496	
.010		-.3147	-.3672		-.1795	-.0296	-.0881	-.2036		
.020		-.3091		.0000	-.2774	-.1690	-.1918	-.2571	-.5877	
.040			-.3462	-.3829						
.041	-.0824									
.050					-.4004	-.3290	-.3361	-.3728		
.069									-.5814	
.080					-.4810					
.081				-.4157						
.085			-.3195							
.099		-.3521								
.113	-.1249									
.150					-.5760	-.5255	-.5113	-.4860		
.157									-.5951	
.163			.0000							
.177				-.4400						
.223		-.4202								
.246			-.3858							
.247	-.1067									
.250					-.6248	-.5944	-.5702	-.5503		
.274				-.4688						
.345									-.6001	
.362		-.2963								
.390			-.4053							
.400					-.6196	-.6150		-.5982		
.402				-.4988						
.418										-.6148
.429	-.1956									
.497		-.4150								
.503									-.5896	
.547	-.2716									
.550					-.6130	-.6237				
.565				-.4879						
.600								-.5810		
.633	-.4142									
.637			-.4856							
.650							-.5821			
.670									-.5579	
.700		-.4287				-.5761				
.723										-.5148
.725					-.5312					
.727	-.3974									
.750							-.5167	.4947		
.760				-.2402						
.775					-.5772	-.5340				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (5) = 11.880 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	-.1970									
.798			-.1944							
.808				-.4414						
.834		-.1729								
.839			-.4244							
.850					-.5426	-.4604	-.5300			
.857				-.4437						
.862									-.5499	
.865		-.3675								
.879			-.3621							
.900		-.2932			-.3544			-.5477		
.905				-.4077						
.919			-.3141							
.950					-.2177	-.4008	-.4651			
.953				-.3898						
.955			-.3507							
.965		-.3865								

ALPHA (5) = 11.873 BETA (3) = 4.255 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1444	-.3886	-.4077	-.2978	.2457	.3081	.3082	.2405	-.4723	
.010		-.3805	-.4089		-.3219	-.1780	-.2236	-.3377		
.020		-.3805		.0000	-.3984	-.3022	-.3208	-.3775	-.5676	
.040			-.4126	-.3922						
.041	-.1740									
.050					-.4941	-.4282	-.4346	-.4702		
.069									-.5650	
.090					-.5538					
.081				-.4184						
.086			-.3840							
.094		-.4376								
.113	-.1626									
.150					-.5874	-.5811	-.5657	-.5511		
.157									-.5653	
.163			.0000							
.177				-.4257						
.229		-.5324								
.245			-.4259							
.247	-.1922									
.250					- 5832	-.6327	-.6098	-.5963		

AMES 11-073(OA148) -140A/B/C/R ORB LE:T WING TOP (XE8U38)

ALPHA (5) = 11.873 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				-.4132						
.345										
.362		-.3886							-.5835	
.390			-.4063							
.400					-.6080	-.6265		-.5949		
.402				-.4626						
.418										
.429	-.2709									-.5882
.497		-.3708								
.503										
.547	-.2364								-.5840	
.560										
.565					-.5457	-.6213				
.600				-.4789						
.633	-.3809							-.5575		
.637			-.4646							
.650										
.670							-.5993			
.700		-.3673							-.5295	
.723						-.5735				
.725										-.5234
.727	-.3658				-.2712					
.750										
.760							-.5650	-.5417		
.775				-.2527						
.793	-.0486				-.4564	-.5382				
.799			-.2084							
.808				-.4522						
.834		-.1752								
.839			-.4325							
.850					-.4548	-.4241	-.5106			
.857				-.4617						
.862										
.865		-.3943							-.5229	
.879			-.3417							
.900		-.3332								
.905					-.4470			-.5133		
.919				-.4122						
.950			-.3323							
.953					-.2920	-.2989	-.4886			
.956				-.3749						
.965			-.3668							
		-.4419								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (6) = 15.853 BETA ( ) = -3.829 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0336	-.3269	-.3037	-.0217	.4878	.5222	.5112	.4171	-.3487	
.010		-.2867	-.2950		-.1848	-.0515	-.1300	-.2823		
.020		-.2796		.0000	-.2845	-.2025	-.2475	-.3277	-.6158	
.040			-.2730	-.3494						
.041	-.1587									
.050					-.4093	-.3526	-.3801	-.4321		
.059									-.6352	
.080					-.4884					
.081				-.3797						
.086			-.2494							
.094		-.2947								
.113	-.0442									
.150										
.157					-.5855	-.5443	-.5394	-.5306		
.163									-.6184	
.177			.0000							
.229				-.3943						
.246		-.3667								
.247	-.0778		-.3624							
.260										
.274					-.5393	-.6082	-.5891	-.5805		
.345				-.4392						
.362		-.3808							-.6326	
.390			-.4016							
400										
402					-.5948	-.6004		-.6255		
.418				-.5091						
.429	-.1651									-.6069
.497		-.4830								
.503										
.547	-.2567								-.6328	
.550										
.595					-.6066	-.6058				
.600				-.5291						
.633	-.4795							-.5939		
.637			-.5247							
.650										
.670							-.6083			
.700		-.5176							-.5643	
.723						-.5952				
.725										
.727	-.5275				-.5557					-.5425
.750										
.760							-.5539	-.5876		
.775				-.3634						
					-.5424	-.5225				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (6) = 15.853 BETA (1) = -3.829

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/W										
.793	-.4092									
.798			-.3163							
.809				-.4616						
.834		-.2567								
.839			-.4647							
.850					-.5157	-.5131	-.5605			
.857				-.4625						
.862									-.5796	
.865		-.3423								
.879			-.4264							
.900		-.3387			-.4676			-.5992		
.905				-.4614						
.919			-.3848							
.950					-.3875	-.4165	-.5293			
.953				-.4024						
.955			-.4193							
.965		-.5205								

ALPHA (6) = 15.866 BETA (2) = .185 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1429	-.3723	-.3650	-.2342	.3088	.3505	.3302	.2370	-.4622	
.010		-.3554	-.3619		-.3235	-.1976	-.2612	-.3814		
.020		-.3669		.0000	-.4015	-.3255	-.3591	-.4249	-.5974	
.040			-.3626	-.3722						
.041	-.3169									
.050					-.4983	-.4473	-.4686	-.5112		
.069									-.5965	
.080					-.5581					
.081				-.4140						
.096			-.3298							
.094		-.3891								
.113	-.1346									
.150					-.6132	-.5925	-.5907	-.5840		
.157									-.5993	
.183			.0000							
.177				-.4614						
.179		-.4330								
.195			-.4423							
.217	-.1874									
.250					-.6234	-.6381	-.6075	-.6129		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (6) = 15.866 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										
.274				-.4994						
.345									-.6206	
.352		-.4765								
.390			-.4640							
.400					-.6172	-.6168		-.6053		
.402				-.5456						
.418										-.6396
.429	-.2630									
.497		-.5317								
.503									-.6310	
.547	-.3502									
.550					-.6130	-.6232				
.595				-.5329						
.600								-.5826		
.633	-.5055									
.637			-.5228							
.650							-.5980			
.670									-.5553	
.700		-.5010				-.6100				
.723										-.5418
.725					-.5744					
.727	-.5181									
.750							-.5597	-.5639		
.760				-.3595						
.775					-.5848	-.5478				
.783	-.3113									
.798			-.2510							
.808				-.4935						
.824		-.2046								
.839			-.4366							
.850					-.5380	-.5355	-.5699			
.857				-.4921						
.862									-.5693	
.865		-.3442								
.879			-.3788							
.900		-.3373			-.4890			-.5845		
.905				-.4781						
.919			-.4073							
.950					-.4001	-.4303	-.4989			
.953				-.4983						
.955			-.4496							
.955		-.4711								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (6) = 15.858 BETA (3) = 4.285 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2376	-.4173	-.4394	-.4116	.1285	.1760	.1589	.0705	-.5363	
.010		-.4195	-.4358		-.4327	-.3200	-.3758	-.4887		
.020		-.4232		.0000	-.5008	-.4324	-.4584	-.5211	-.5725	
.040			-.4405	-.4185						
.041	-.4319									
.050										
.060					-.5702	-.5258	-.5426	-.5805		
.080									-.5709	
.081					-.6111					
.090				-.4310						
.094			-.4004							
.094		-.4523								
.113	-.2213									
.150										
.157					-.6182	-.6323	-.6304	-.6105		
.163									-.5718	
.177			.0000							
.203				-.4980						
.203		-.4873								
.246			-.5061							
.247	-.2660									
.250										
.274					-.6293	-.6323	-.6134	-.5939		
.345				-.5025						
.352		-.5255							-.5808	
.370			-.4692							
.400										
.402					-.6411	-.6276		-.5821		
.402				-.5027						
.418										
.428	-.3430									-.5825
.497		-.5104								
.503										
.547	-.3761								-.5903	
.550										
.565					-.6340	-.6257				
.600				-.5206						
.633	-.4591							-.5562		
.637			-.4530							
.650										
.670							-.5978			
.700		-.4267							-.5271	
.703						-.5781				
.750					-.4604					-.5253
.750	-.4301									
.800							-.5559	-.5282		
.800				-.3423						
.850					-.5557	-.5663				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U38)

ALPHA (6) = 15.858 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										
.793	-.2149									
.796			-.2458							
.808				-.5133						
.834		-.1993								
.839			-.4716							
.850					-.5628	-.5093	-.5400			
.857				-.4775						
.852									-.5257	
.865		-.3636								
.879			-.3795							
.900		-.3790			-.5619			-.5192		
.905				-.4633						
.919			-.3908							
.950					-.4786	-.4515	-.5220			
.953				-.4829						
.955			-.4267							
.965		.4735								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39) (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 = 10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = 10.000 MACH = 1.250

ALPHA (I) = -3.991 BETA (I) = -3.847 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

SECTION (I)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1941	-.0824	-.1135	.2730	.6620	.5975	.5584	.5798	-.4373	
.010		-.0315	-.0092		.7292	.7077	.5675	.5938		
.020		-.0343		.0000	.6477	.6042	.5781	.5491	-.0492	
.040			.0457	.4184						
.041	-.0987									
.050					.4411	.3903	.3762	.3660		
.069									-.1094	
.080					.2540					
.081				.3026						
.086			.1664							
.094		-.0050								
.113	-.0566									
.150					.0164	.0138	.0102	.0477		
.157									-.2506	
.163			.0000							
.177				.1009						
.229		.0552								
.246			.0984							
.247	-.0035									
.250					-.1273	-.1404	-.1303	-.1548		
.274				-.0417						
.345									-.2954	
.362		.1549								
.390			-.0120							
.400					-.2628	-.3115		-.3821		
.402				-.2018						
.418										
.429	.0500									-.5059
.497		.0211								
.503									-.3368	
.547	.0729									
.550					-.1892	-.3591				
.565				.0091						
.600								-.4435		
.633	-.0485									
.637			.1466							
.650							-.4308			
.670									-.5917	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (1) = -3.991 BETA (1) = -3.847

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		.1224				-.1129				
.723										-.3817
.725					.0617					
.727	-.0731									
.750							-.6048	-.6369		
.760				.0529						
.775					-.2477	-.2828				
.793	.3495									
.799			.0578							
.808				-.2453						
.934		.0914								
.839			-.2603							
.850					-.2285	-.2044	-.3702			
.857				-.2633						
.862									-.5242	
.865		-.3183								
.879			-.2504							
.900		-.1790			-.2598			-.3232		
.905				-.2606						
.919			-.2199							
.950					-.2403	-.1738	-.1449			
.953				-.2186						
.955			-.2165							
.965		-.2160								

ALPHA (1) = -3.979 BETA (2) = .190 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2200	-.0787	-.0717	.2430	.5942	.5141	.4644	.4816	-.5144	
.010		-.0659	-.0163		.6508	.6202	.5866	.5207		
.020		-.0808		.0000	.5792	.5311	.5033	.4816	-.1308	
.040			.0261	.3504						
.041	-.1721									
.050					.3901	.3407	.3193	.3119		
.069									-.1708	
.080					.2193					
.081				.2501						
.086			.1291							
.094		-.0275								
.113	-.1219									
.150					.0074	-.0061	-.0074	.0290		

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 (XE8U39)

ALPHA (1) = -3.979 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						-.3056	
.177				.0872						
.229		.0251								
.246			.0723							
.247	-.0263									
.250										
.274					-.1218	-.1522	-.1500	-.1701		
.345				-.0418						
.352		.1339							-.3301	
.390			-.0219							
.400										
.402					-.2540	-.3025		-.3900		
.418				-.1921						
.429	.0322									-.5824
.497		-.0083								
.503										
.547	.0573								-.3599	
.550										
.565					.0107	-.3321				
.600				.1142						
.633	-.0562							-.4382		
.637			.1992							
.650										
.670							-.3509			
.700		.1860							-.5929	
.723						-.0263				
.725										
.727	.0908				.0811					-.4329
.740										
.760							-.3314	-.6369		
.775				.0332						
.793	.3414				-.2642	-.2752				
.798			.0318							
.808										
.834		.0555		-.2806						
.839			-.2902							
.850										
.857					-.2632	-.2032	-.3177			
.862				-.2935						
.865		-.3426							-.3068	
.879			-.2793							
.900		-.2130								
.905					-.2365			-.3111		
.919				-.2954						
			-.2497							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (1) = -3.979 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					-.2774	-.2041	-.2025			
.953				-.2553						
.955			-.2412							
.965		-.2463								

ALPHA (1) = -3.988 BETA (3) = 4.277 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1981	-.0973	-.0386	.2574	.5333	.4352	.3801	.3893	-.5673	
.010		-.1075	-.0046		.5717	.5393	.4964	.4373		
.020		-.1214		.0000	.5036	.4528	.4252	.4021	-.2117	
.040			.0276	.3065						
.041	-.2140									
.050					.3385	.2774	.2571	.2485		
.069									-.2415	
.080					.1830					
.081				.2099						
.086			.1136							
.094		-.0387								
.113	-.1698									
.150					-.0046	-.0344	-.0129	-.0020		
.157									-.3583	
.163			.0000							
.177				.0706						
.229		.0148								
.246			.0710							
.247	-.0223									
.250					-.1284	-.1699	-.1830	-.2015		
.274				-.0473						
.345									-.3573	
.362		.1410								
.393			-.0364							
.400					-.2465	-.2935		-.3936		
.402				-.1878						
.418										-.6205
.429	.0401									
.497		-.0290								
.503									-.3361	
.547	.0484									
.550					.0753	-.0663				
.555				.1641						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (1) = -3.988 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								-.4339		
.637	-.0660									
.63			.2102							
.650							-.1037			
.670									-.3335	
.700		.2018				.0299				
.723										-.3195
.725					.0760					
.727	.1294									
.750							-.3452	-.4333		
.760				.0170						
.775					-.2796	-.2831				
.793	.3373									
.798			.0132							
.808				-.2979						
.834		.0413								
.839			-.3075							
.850					-.2879	-.2200	-.3314			
.857				-.3150						
.862									-.2344	
.865		-.3581								
.879			-.3059							
.900		-.2361			-.3070			-.2000		
.905				-.3223						
.919			-.2676							
.950					-.3023	-.2304	-.2287			
.953				-.2794						
.955			-.2551							
.965		-.2576								

ALPHA (2) = .058 BETA (1) = -3.868 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0877	.0123	.0041	.4184	.7187	.6660	.6357	.6476	-.2470	
.010		-.0021	.0287		.5766	.6033	.5670	.4702		
.020		-.0303		.0000	.4665	.4599	.4398	.4145	-.0554	
.040			.0528	.2551						
.041	-.0832									
.050					.2365	.2092	.2027	.2013		
.053									-.1293	
.060					.0431					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (2) = .058 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										
.081				.1169						
.086			.1117							
.094		-.0873								
.113	-.0589									
.150					-.1585	-.1484	-.1597	-.1083		
.157									-.3133	
.163			.0000							
.177				-.0727						
.229		-.0064								
.246			-.0220							
.247	-.0763									
.250					-.2728	-.3176	-.3094	-.2982		
.274				-.1866						
.345									-.3739	
.362		.0800								
.390			-.1538							
.400					-.3777	-.4472		-.4920		
.402				-.3246						
.418										-.2514
.429	.0083									
.497		-.0937								
.503									-.4322	
.547	-.0016									
.550					-.3959	-.4858				
.565				-.3024						
.600								-.5125		
.633	-.1432									
.637			-.1744							
.650							-.5242			
.670									-.4237	
.700		-.2072				-.4337				
.723										-.3681
.725					-.1112					
.727	-.2108									
.750							-.5214	-.4178		
.760				-.0367						
.775					-.3145	-.3789				
.793	.1716									
.798			-.0176							
.808				-.2419						
.834		.0360								
.839			-.2704							
.850					-.2612	-.2294	-.4249			
.657				-.2583						
.862									-.4023	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU39)

ALPHA (2) = .058 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										
.855		-.3381								
.879			-.2505							
.900		-.1897			-.2702			-.3923		
.905				-.2578						
.919			-.2096							
.950					-.2127	-.1572	-.3574			
.953				-.2269						
.955			-.2091							
.965		-.2264								

ALPHA (2) = .062 BETA (2) = .177 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1020	-.0583	-.0234	.3663	.6371	.5832	.5442	.5505	-.3024	
.010		-.0914	-.0052		.4814	.5164	.4796	.3882		
.020		-.1144		.0000	.3875	.3810	.3624	.3393	-.1244	
.040			.0151	.1796						
.041	-.1495									
.060					.1822	.1520	.1465	.1403		
.069									-.1954	
.080					.0102					
.081				.0719						
.085			.0719							
.094		-.1371								
.113	-.1323									
.150					-.1712	-.1772	-.1865	-.1362		
.157									-.3542	
.163			.0000							
.177				-.0737						
.229		-.0218								
.246			-.0390							
.247	-.1174									
.250					-.2729	-.3192	-.3257	-.3167		
.274				-.1750						
.345									-.3992	
.362		.0662								
.390			-.1474							
.400					-.3671	-.4432		-.4998		
.402				-.3246						
.418										-.1705
.419	-.0369									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (2) = .062 BETA (2) = .177

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1120								
.503									-.4309	
.547	-.0156									
.550					-.3742	-.4633				
.555				-.2343						
.600								-.5208		
.633	-.1557									
.637			-.0380							
.650							-.5304			
.670									-.3980	
.700		-.0826				-.2262				
.723										-.5135
.725					-.0830					
.727	-.1870									
.750							-.5754	-.4146		
.760				-.0451						
.775					-.3067	-.3594				
.793	.2094									
.799			-.0319							
.808				-.2842						
.834		-.0008								
.839			-.3160							
.850					-.2715	-.2276	-.4024			
.857				-.3025						
.862									-.3523	
.865		-.3739								
.879			-.2836							
.900		-.2265			-.2970			-.3749		
.905				-.2925						
.919			-.2417							
.950					-.2786	-.2009	-.2077			
.953				-.2535						
.955			-.2342							
.965		-.2521								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (2) = .021 BETA (3) = 4.254 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

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	-.1120	-.1524	-.0843	.3225	.5770	.5039	.4619	.4608	-.2130	
.010		-.1905	-.0519		.4011	.4242	.3864	.3045		
.020		-.1983		.0000	.3132	.2978	.2782	.2536	-.1751	
.040			-.0122	.1356						
.041	-.1938									
.050					.1283	.0937	.0824	.0774		
.053									-.2328	
.080					-.0238					
.081				.0427						
.086			.0432							
.094		-.1506								
.113	-.1915									
.150					-.1815	-.2097	-.2221	-.1749		
.157									-.3798	
.163			.0000							
.177				-.0719						
.209		-.0349								
.246			-.0339							
.247	-.1215									
.250					-.2758	-.3250	-.3395	-.3452		
.274				-.1716						
.345									-.4035	
.352		.0573								
.390			-.1480							
.400					-.3579	-.4346		-.5108		
.402				-.3127						
.418										-.2113
.429	.0027									
.497		-.1179								
.503									-.4361	
.547	-.0205									
.550					-.2487	-.4452				
.565				-.0861						
.600								-.5353		
.633	-.1740									
.637			.0122							
.650							-.5154			
.670									-.4255	
.700		-.0070				-.1912				
.723										-.4986
.735					-.0458					
.737	-.1163									
.750							-.5580	-.4171		
.763				-.0476						
.775					-.3115	-.3297				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (2) = .021 BETA (3) = 4.254

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	.2151									
.798			-.0405							
.808				-.3189						
.834		-.0226								
.839			-.3381							
.850					-.2962	-.2118	-.3274			
.857				-.3351						
.862									-.4053	
.865		-.3930								
.879			-.3074							
.900		-.2537			-.3217			-.3708		
.905				-.3230						
.919			-.2686							
.950					-.3151	-.2478	-.2206			
.953				-.2811						
.955			-.2627							
.985		-.2745								

ALPHA (3) = 3.934 BETA (1) = -3.873 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0009	-.0036	-.1045	.3995	.7277	.7058	.6833	.6681	.0457	
.010		-.0540	-.1238		.3492	.4478	.4068	.2763		
.020		-.0757		.0000	.2364	.2727	.2564	.2114	-.1268	
.040			-.0851	.0384						
.041	-.0702									
.050					.0197	.0251	.0130	-.0033		
.069									-.1822	
.080					-.1524					
.081				-.0879						
.086			-.0194							
.094		-.1360								
.113	-.0684									
.150					-.3511	-.3296	-.3210	-.2554		
.157									-.3829	
.163			.0000							
.177				-.2294						
.229		-.1010								
.245			-.1369							
.247	-.0972									
.250					-.4431	-.4704	-.4493	-.4200		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (3) = 3.934 BETA (1) = -3.873

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				-.3240						
.345									-.4588	
.362		.0002								
.390			-.2580							
.400					-.4992	-.5824		-.5841		
.402				-.4175						
.418										-.2228
.428	-.0473									
.497		-.1826								
.503									-.5327	
.547	-.0759									
.550					-.5051	-.6129				
.565				-.4013						
.600								-.6004		
.633	-.2445									
.637			-.3483							
.690							-.6113			
.670									-.6498	
.700		-.3220				-.5942				
.723										-.6656
.725					-.2253					
.727	-.2940									
.750							-.4849	-.4870		
.760				-.1356						
.775					-.4221	-.5414				
.793	.0019									
.799			-.1075							
.808				-.2995						
.834		-.0244								
.839			-.2904							
.850					-.3428	-.3104	-.4820			
.857				-.3040						
.862									-.6044	
.865		-.3520								
.879			-.2715							
.900		-.1961			-.3036			-.4657		
.905				-.2844						
.919			-.2228							
.950					-.2163	-.2037	-.4543			
.953				-.2408						
.965			-.2205							
.975		-.2311								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (3) = 3.935 BETA (2) = .189 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

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	-.0304	-.1421	-.2840	.2728	.6330	.6195	.5955	.5753	-.0270	
.010		-.1981	-.2325		.2376	.3484	.3090	.1843		
.020		-.1922		.0000	.1506	.1846	.1758	.1190	-.1999	
.040			-.1370	-.0270						
.041	-.1333									
.050					-.0332	-.0325	-.0450	-.0669		
.069									-.2454	
.080					-.1851					
.081				-.1284						
.086			-.0552							
.094		-.2071								
.113	-.1458									
.150					-.3529	-.3580	-.3429	-.2910		
.157									-.4212	
.163			.0000							
.177				-.2229						
.229		-.0990								
.246			-.1449							
.247	-.1541									
.250					-.4280	-.4814	-.4680	-.4426		
.274				-.3008						
.345									-.4853	
.362		-.0103								
.390			-.2425							
.400					-.4758	-.5716		-.5968		
.402				-.4072						
.418										-.3587
.429	-.0529									
.497		-.1927								
.503									-.5433	
.547	-.0855									
.550					-.4913	-.5858				
.565				-.3793						
.600								-.6099		
.633	-.2565									
.637			-.2584							
.650							-.6121			
.670									-.6190	
.700		-.3192				-.4097				
.723										-.6136
.725					-.2340					
.727	-.2940									
.750							-.5591	-.4994		
.760				-.1229						
.775					-.4332	-.3659				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (3) = 3.935 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	.1254									
.799			-.0999							
.809				-.3398						
.834		-.0363								
.839			-.3527							
.850					-.3208	-.2382	-.4943			
.857				-.3369						
.872									-.5977	
.886		-.4069								
.879			-.3146							
.900		-.2544			-.2695			-.4537		
.905				-.3238						
.919			-.2574							
.937					-.2090	-.2053	-.4064			
.953				-.2725						
.965			-.2527							
.985		-.2777								

ALPHA (3) = 3.939 BETA (3) = 4.242 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0829	-.3136	-.3716	.1450	.5486	.5271	.5076	.4794	-.1265	
.010		-.3569	-.2749		.1375	.2335	.1914	.0623		
.022		-.3321		.0000	.0633	.0986	.0727	.0090	-.2947	
.040			-.2170	-.0710						
.041	-.1793									
.050					-.0882	-.1042	-.1232	-.1531		
.069									-.3269	
.080					-.2135					
.081				-.1410						
.096			-.1634							
.094		-.2698								
.113	-.2006									
.150					-.3565	-.3931	-.3932	-.3451		
.197									-.4656	
.198			.0000							
.217				-.2166						
.250		-.1090								
.251			-.1236							
.297	-.2037									
.300					-.4116	-.4942	-.4950	-.4802		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (3) = 3.939 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										
.274				-.2844						
.345									-.5314	
.362		.0003								
.390			-.2293							
.400					-.4643	-.5688		-.6159		
.402				-.3955						
.418										-.5803
.429	-.0444									
.497		-.1946								
.503										
.547	-.0804								-.5680	
.550					-.4534	-.5593				
.565				-.3225						
.600								-.6145		
.633	-.2716									
.637			-.2024							
.650							-.6106			
.670									-.5690	
.700		-.2892				-.3003				
.723										-.5690
.725					-.1960					
.727	-.2869									
.750							-.6345	-.5221		
.760				-.1013						
.775					-.4073	-.4210				
.793	.1417									
.798			-.0889							
.808				-.3485						
.834		-.0579								
.839			-.3671							
.850					-.3497	-.2709	-.4922			
.857				-.3649						
.862									-.5614	
.865		-.4406								
.879			-.3498							
.900		-.2741			-.3490			-.4511		
.905				-.3571						
.919			-.2756							
.950					-.2944	-.2086	-.3628			
.953				-.3107						
.955			-.2822							
.965		-.3512								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (A) = 7.936 BETA (B) = -3.863 MACH = 1.2467 Q = 599.84 P = 551.34 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	.0517	-.1202	-.3437	.2184	.6366	.6606	.6592	.6133	-.0858	
.010		-.2113	-.3650		.0401	.1916	.1521	.0050		
.020		-.1895		.0000	-.0738	.0187	.0142	-.0676	-.3842	
.040			-.2648	-.2397						
.041	-.0665									
.050					-.2446	-.1959	-.2020	-.2482		
.069									-.4043	
.080					-.3797					
.081				-.3617						
.086			-.1899							
.094		-.1789								
.113	-.0689									
.150					-.5474	-.4918	-.4910	-.4375		
.157									-.5438	
.163			.0000							
.177				-.4699						
.229		-.1715								
.246			-.2984							
.247	-.1027									
.250					-.6282	-.6051	-.5804	-.5517		
.274				-.4363						
.345									-.6549	
.352		-.1268								
.390			-.3475							
.400					-.6563	-.6992		-.6730		
.402				-.5006						
.419										-.5736
.429	-.1504									
.437		-.2831								
.503									-.6566	
.547	-.1575									
.550					-.5755	-.7257				
.565				-.4651						
.600								-.6341		
.633	-.3343									
.637			-.4399							
.650							-.6804			
.670									-.6147	
.700		-.4175				-.6427				
.723										-.5901
.725					-.2907					
.727	-.3548									
.750							-.5469	-.5333		
.750				-.2132						
.775					-.5066	-.5611				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (4) = 7.936 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										
.793	-.1914									
.799			-.1474							
.809				-.4264						
.834		-.0486								
.839			-.4006							
.850					-.3655	-.4970	-.5565			
.857				-.4097						
.862									-.6067	
.865		-.3806								
.879			-.3595							
.900		-.2188			-.2751			-.5761		
.905				-.3600						
.919			-.2814							
.950					-.1948	-.3614	-.5347			
.953				-.2991						
.955			-.2398							
.965		-.2906								

ALPHA (4) = 7.897 BETA (2) = .182 MACH = 1.2467 Q = 599.84 P = 551.34 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	-.0027	-.3216	-.5466	-.0189	.4987	.5500	.5457	.4950	-.2653	
.010		-.3926	-.5121		-.0944	.0704	.0271	-.1132		
.020		-.3573		.0000	-.1981	-.0817	-.0905	-.1716	-.5087	
.040			-.4052	-.3631						
.041	-.1247									
.050					-.3184	-.2741	-.3032	-.3290		
.069									-.5101	
.080					-.4171					
.081				-.3071						
.086			-.3040							
.094		-.2514								
.113	-.1488									
.150					-.5480	-.5285	-.5286	-.4866		
.157									-.6010	
.163			.0000							
.177				-.3669						
.229		-.2355								
.246			-.2721							
.247	-.1663									
.250					-.5983	-.6207	-.6074	-.5853		

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 (XE8U39)

ALPHA (4) = 7.897 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				-.3919						
.345										
.362		-.1118							-.6512	
.390			-.3367							
.400					-.5681	-.7010		-.6920		
.402				-.4600						
.418										
.429	-.1498									-.6840
.497		-.2743								
.503										
.547	-.1493								-.6621	
.550										
.565					-.5357	-.7102				
.600				-.4616						
.633	-.3371							-.6697		
.637			-.4612							
.650										
.670							-.6888			
.700		-.4049							-.5812	
.723						-.5926				
.725										-.5627
.727	-.3531				-.2837					
.750										
.760							-.5719	-.5287		
.775				-.1437						
.793	-.0191				-.5048	-.6193				
.799			-.1497							
.808				-.4420						
.834		-.0617								
.839			-.4130							
.850					-.4530	-.3661	-.5641			
.857				-.4379						
.862										
.865		-.4281							-.5651	
.879			-.3639							
.900		-.2497			-.4228			-.5453		
.905				-.4170						
.919			-.2894							
.950					-.2756	-.2374	-.5115			
.953				-.3672						
.955			-.2998							
.985		-.3594								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (4) = 7.878 BETA (3) = 4.243 MACH = 1.2467 Q = 599.84 P = 551.34 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	-.0535	-.5325	-.5048	-.1780	.3702	.4207	.4176	.3574	-.4639	
.010		-.4781	-.4871		-.2039	-.0589	-.1145	-.2424		
.020		-.4700		.0000	-.2900	-.1920	-.2096	-.2928	-.6301	
.040			-.4592	-.2226						
.041	-.1725									
.050					-.3899	-.3539	-.3656	-.4262		
.069									-.6746	
.080					-.4615					
.081				-.2669						
.085			-.4062							
.094		-.4963								
.113	-.2089									
.150					-.5542	-.5644	-.5684	-.5429		
.157									-.6720	
.163			.0000							
.177				-.2957						
.229		-.2459								
.246			-.3428							
.247	-.2288									
.250					-.4955	-.6388	-.6364	-.6235		
.274				-.3496						
.345									-.6838	
.362		-.0249								
.390			-.2566							
.400					-.5067	-.6904		-.7139		
.402				-.4569						
.418										-.6877
.429	-.1344									
.497		-.2364								
.503									-.6722	
.547	-.1297									
.553					-.5100	-.6821				
.565				-.4742						
.600								-.6979		
.633	-.3492									
.637			-.4060							
.650							-.6944			
.670									-.6100	
.700		-.3836				-.4240				
.723										-.6052
.725					-.2477					
.727	-.3548									
.750							-.5933	-.5717		
.760				-.1349						
.775					-.4674	-.4922				

AMES .1-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (4) = 7.878 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	.0516									
.798			-.1325							
.808				-.4274						
.834		-.1191								
.839			-.4216							
.850					-.4239	-.3438	-.5902			
.857				-.4383						
.862									-.5993	
.865		-.4494								
.879			-.3386							
.900		-.3117			-.3945			-.5644		
.905				-.4284						
.919			-.3112							
.950					-.2663	-.2232	-.5094			
.953				-.3896						
.955			-.3630							
.965		-.4234								

ALPHA (5) = 11.869 BETA (1) = -3.849 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION (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	-.3178	-.4791	.0044	.5110	.5534	.5391	.4457	-.3643	
.010		-.3951	-.4496		-.1851	-.0401	-.1252	-.2808		
.020		-.3764		.0000	-.2992	-.1990	-.2466	-.3418	-.7187	
.040			-.3702	-.4516						
.041	-.0607									
.050					-.4444	-.3853	-.4091	-.4752		
.069									-.7190	
.080					-.5450					
.081				-.5128						
.086			-.2944							
.094		-.2568								
.113	-.0796									
.150					-.6763	-.6044	-.6238	-.6062		
.157									-.7322	
.163			.0000							
.177				-.5926						
.223		-.2213								
.246			-.3735							
.247	-.1065									
.250					-.7408	-.7126	-.6943	-.6748		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (5) = 11.869 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										
.274				-.5723						
.345										
362		-.1906							-.7478	
.390			-.4658							
400					-.7493	-.7764		-.7490		
.402				-.5961						
.418										
.479	-.1857									-.7182
.497		-.4492								
.503										
.547	-.2843								-.7417	
.550					-.7450	-.7467				
.505				-.5513						
.600										
.633	-.4582							-.7058		
.637			-.5314							
.650							-.7071			
.670										
.700		-.5194							-.6594	
.723						-.6783				
.725										-.6074
.727	-.4428				-.6709					
.750										
.760							-.6148	-.6667		
.775				-.3071						
.793	-.2284				-.6912	-.6076				
.798			-.2142							
.808				-.5100						
.834		-.1400								
.839			-.4989							
.850					-.4569	-.5265	-.6122			
.857				-.4905						
.862										
.865		-.4485							-.6424	
.879			-.4228							
.900		-.2620			-.3469			-.6991		
.905				-.3828						
.919			-.3789							
.950					-.2680	-.4345	-.5145			
.953				-.3311						
.965			-.3990							
.965		-.4205								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (S) = 11.810 BETA (2) = .187 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION (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	-.4706	-.4657	-.2022	.3371	.3877	.3705	.2721	-.5235	
.010		-.4127	-.4599		-.3360	-.1944	-.2771	-.4252		
.020		-.3999		.0000	-.4376	-.3378	-.3853	-.4709	-.6967	
.040			-.4404	-.4852						
.041	-.1326									
.059										
.069					-.5571	-.4946	-.5216	-.5800		
.080					-.6368				-.6877	
.081				-.5079						
.096			-.4137							
.094		-.4552								
.113	-.1751									
.136										
.157					-.7374	-.6913	-.6843	-.6772		
.163									-.6889	
.177			.0000							
.229		-.5226		-.4890						
.240			-.4556							
.247	-.1652									
.260										
.274				-.5074	-.7426	-.7607	-.7404	-.7259		
.345										
.362		-.3607							-.7239	
.380			-.4333							
.400										
.402				-.5176	-.7308	-.7605		-.7330		
.418										
.429	-.2515									-.7284
.497		-.4084								
.503										
.547	-.2510								-.6782	
.553										
.595					-.6611	-.7489				
.600				-.5115						
.633	-.4444							-.6616		
.647			-.5471							
.650										
.670							-.6921			
.700		-.4708							-.6172	
.723						-.6330				
.725										-.6139
.727	-.4314				-.3195					
.750										
.750							-.6175	-.6391		
.770				-.2121						
.770					-.5666	-.6712				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U39)

ALPHA (5) = 11.810 BETA (2) = .187

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	-.1467									
.798			-.1789							
.808				-.5237						
.834		-.1377								
.839			-.4845							
.850					-.4631	-.5337	-.5460			
.857				-.4999						
.862									-.6122	
.865		-.4041								
.879			-.3938							
.900		-.3377			-.4423			-.6140		
.905				-.5034						
.919			-.3459							
.950					-.2068	-.47c.	-.5244			
.953				-.4507						
.955			-.4177							
.985		-.4514								

ALPHA (5) = 11.856 BETA (3) = 4.252 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

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	-.0909	-.5057	-.5112	-.4236	.1528	.2008	.1888	.0937	-.6378	
.010		-.4924	-.5162		-.4862	-.3543	-.4091	-.5370		
.020		-.4882		.0000	-.5620	-.4812	-.5080	-.5794	-.7021	
.040			-.5207	-.4264						
.041	-.2013									
.060					-.6549	-.5994	-.6142	-.6640		
.080									-.6993	
.081					-.6719					
.086				-.4195						
.094		-.5617	-.4914							
.113	-.2240									
.150					-.6759	-.7232	-.7311	-.7314		
.157									-.6979	
.163			.0000							
.177				-.4370						
.229		-.6619								
.245			-.4798							
.247	-.2571									
.250					-.6324	-.7249	-.7578	-.7579		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J39)

ALPHA (S1) = 11.866 BETA (S3) = 4.252

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2750	.2890	3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4569						
.345									-.7154	
.352		-.3505								
.390			-.5393							
.400					- 7294	-.7376		-.7333		
.402				-.5133						
.419										-.7068
.439	-.2882									
.449		-.3638								
.502									-.7069	
.547	-.2250									
.550					-.5625	-.7339				
.565				-.5303						
.570								-.6806		
.588	-.4099									
.597			-.5039							
.618							-.6518			
.670									-.6278	
.701		-.3936				-.5909				
.743										-.6247
.726					-.2401					
.727	-.4044									
.750							-.6511	-.6264		
.760				-.2254						
.775					-.5396	-.6294				
.793	-.0226									
.798			-.1696							
.819				-.5143						
.834		-.1801								
.839			-.4592							
.850					-.5084	-.4417	-.5905			
.859				-.5104						
.882									-.6236	
.886		-.4178								
.898			-.4021							
.910		-.3495			-.4565			-.6063		
.915				-.4732						
.919			-.3725							
.950					-.2909	-.2572	-.5294			
.955				-.4376						
.971			-.4070							
.995		-.5392								

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

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

(XE8U40) (05 AUG 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.6000 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.0680 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0300				

PARAMETRIC DATA

RUDDER =	10.000	SPDBRK =	65.000
BDFLAP =	16.300	L-ELVN =	10.000
R-ELVN =	10.000	MACH =	1.100

ALPHA (I) = -3.999 BETA (I) = -3.842 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.2824	-.1125	-.1538	.2708	.5932	.5228	.4751	.4927	-.6221	
.010		-.0547	-.0442		.7181	.6850	.6489	.5727		
.020		-.0469		.0000	.6399	.5992	.5648	.5264	-.1306	
.040			.0420	.4684						
.041	-.1472									
.060					.4274	.3800	.3649	.3393		
.080									-.1908	
.081					.2418					
.086				.3523						
.094			.2347							
.095		-.0165								
.113	-.1142									
.150										
.157					.0262	.0042	-.0239	-.0040		
.163									-.3483	
.177			.0000							
.229				.0559						
.246		.0266								
.247	.0020		.1779							
.250										
.274					-.1399	-.2005	-.2248	-.2578		
.345				-.0271						
.346		.2004							-.3605	
.400			-.0018							
.402					-.0504	-.1979		-.4718		
.418				-.1434						
.429	.1116									-.6987
.497		.0007								
.503										
.547	.1219								-.3827	
.550										
.565					.0903	-.0485				
.600				.1863						
.623	-.0152							-.2327		
.637			.2347							
.650										
.670							-.1632			
									-.4800	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(0A148) -140A/B/L/R ORB LEFT WING TOP (XEBU40)

ALPHA (1) = -3.999 BETA (1) = -3.842

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		.2577				-.0346				
.723										
.725										-.4670
.727	.2261				.0047					
.750										
.760							-.5195	-.5402		
.775				-.0438						
.793	.3580				-.4297	-.4496				
.799			-.0296							
.819				-.4262						
.824		-.0340								
.838			-.4329							
.850					-.4083	-.2862	-.4923			
.857				-.4322						
.862									-.3025	
.875		-.4327								
.879			-.3755							
.900		-.3032			-.4229			-.4117		
.902				-.3951						
.919			-.3479							
.930					-.3112	-.3471	-.2000			
.943				-.3334						
.955			-.3241							
.969		-.3379								

ALPHA (1) = -3.997 BETA (2) = .194 MACH = 1.1017 Q = 601.11 P = 707.47 PN/L = 3.1693

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	-.2745	-.1136	-.0974	.2627	.5302	.4434	.3993	.3998	-.6964	
.010		-.0858	-.0275		.6435	.6167	.5938	.5307		
.020		-.0780		.0000	.5767	.5452	.5278	.4918	-.2075	
.040			.0421	.4228						
.041	-.2384									
.050					.3944	.3658	.3570	.3323		
.060									-.2460	
.080					2329					
.081				.3223						
.100			.2037							
.120		-.0403								
.140	.1923									
.161					0355	.0391	.0109	.0142		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8040)

ALPHA (1) = -3.997 BETA (2) = .194

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									-.3538	
.163			.0000							
.177				.1009						
.229		.0244								
.245			.1545							
.247	-.0134									
.270					-.1121	-.1514	-.1660	-.2203		
.274				-.0120						
.345									-.2868	
.368		.1983								
.380			.0005							
.420					.0459	-.0400		-.2976		
.423				- 0366						
.428										-.7665
.437	.1020	.0259								
.503										
.547	.1211								-.2691	
.560					.0723	-.0633				
.565				.1707						
.600								-.2994		
.633	.0305									
.637			.2160							
.650							-.1851			
.670									-.5199	
.700		.2453				-.0638				
.703										-.2858
.725					-.0198					
.727	.2165									
.750							-.5494	-.5832		
.760				-.0530						
.775					-.4499	-.4625				
.793	.3352									
.792			-.0474							
.808				-.4525						
.834		-.0277								
.839			-.4503							
.850					-.4406	-.3131	-.5210			
.857				-.4653						
.882									-.2637	
.885		-.5051								
.879			-.4009							
.900		-.3373			-.4561			-.4639		
.905				-.4328						
.919			-.3773							

AMES 11-07B.DA14B) -140A/B/C/R ORB LEFT WING TOP (XEB140)

DEPENDENT VARIABLE CP

.8350 .8330 .8340 .8270 .8340 .8730 .7930 .8870 .9720 1.0000

-.3369 -.4131 -.3106

-.3601

-.3478

.1194

= .877 MACH = 1.1017 Q = 601.11 P = 707.47 PINF = 5.1893

DEPENDENT VARIABLE CP

.8350 .8290 .8341 .8270 .8340 .8730 .7930 .8870 .9720 1.0000

.8719 .8788 .8350 .8183 -.7764

.4827 .4833 .4802 -.2380

.3633 .3182 .2933 .2773 -.3099

.0431 .0812 -.0090 -.0027 -.3742

-.0804

-.2408

.1311

.0274

.0820

-.0791 -.1572 -.1671 -.1993 -.3274

.0175

.0267

.0303 -.0373 -.2992 -.4026

-.0373

.0013 -.2521

.0823 -.0712

.1489

.5(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUN0)

ALPHA (1) = -3.996 BETA (3)

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.6730	.7800	.8870	.9720	1.0000
X/CW								
.600						-.3206		
.633	.0550							
.637			.1868					
.650					-.2041			
.670							-.4481	
.700		.2168		-.0991				
.723								-.2952
.725				-.0505				
.727	.1893							
.750					-.5723	-.6094		
.760			-.0865					
.775				-.4747	-.4900			
.793	.3072							
.798			-.0759					
.808								
.834		-.0566						
.839			-.4905					
.850				-.4744	-.3493	-.5564		
.857								
.862							-.2696	
.865		-.5349						
.879			-.4475					
.900		-.3736		-.4959		-.4828		
.905								
.919			-.4107					
.950				-.4591	-.4393	-.3815		
.953								
.955			-.3903					
.965		-.3987						

ALPHA (2) = .015 BETA (1) = -3.867 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1526	-.0475	-.0147	.4489	.6730	.6094	.5727	.5797	-.3977	
.010		-.0679	.0276		.5615	.5744	.5265	.4127		
.020		-.0993		.0000	.4550	.4245	.3930	.3497	-.1577	
.040			.0519	.2955						
.041	-.1568									
.050					.2192	.1647	.1423	.1211		
.069									-.2363	
.080					.0170					

C-5

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (2) = .015 BETA (1) = -3.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIAPLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1440						
.086			.1491							
.094		-.1015								
.113	-.1197									
.150					-.2184	-.2503	-.2718	-.2152		
.157									-.4493	
.166			.0000							
.177				-.0767						
.189		-.0248								
.196			.0156							
.207	-.0863									
.220					-.3352	-.4042	-.4233	-.4298		
.234				-.2178						
.245									-.4886	
.262		.1124								
.280			-.1831							
.300					-.4605	-.5534		-.6452		
.302				-.3870						
.318										
.339	.0560									-.1404
.357		-.1050								
.383										
.397	.0277								-.5409	
.410					-.0928	-.4428				
.415				.0195						
.430								-.6370		
.433	-.2029									
.437			.1070							
.450							-.5109			
.470									-.4043	
.480		.0356				-.0876				
.493										-.5621
.505					-.0052					
.527	.0153									
.550							-.5580	-.4071		
.560				-.0396						
.575					-.4473	-.4459				
.592	.2737									
.598			-.0245							
.608				-.4317						
.624		-.0206								
.639			-.4362							
.652					-.4254	-.2948	-.2770			
.667				-.4390						
.682									-.3733	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (2) = .015 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		-.4816								
.879			-.3658							
.900		-.3148			-.4365			-.3496		
.905				-.3993						
.919			-.3360							
.950					-.2875	-.2614	-.0861			
.953				-.3323						
.955			-.3324							
.965		-.3382								

ALPHA (2) = .018 BETA (2) = .181 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION (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	-.1252	-.0330	.4198	.6107	.5341	.4992	.5110	-.2237	
.010		-.1696	-.0072		.4784	.4867	.4543	.3578		
.020		-.1876		.0000	.3792	.3490	.3324	.3015	-.1528	
.040			.0228	.2382						
.041	-.2254									
.050					.1647	.1154	.0908	.0863		
.069									-.2213	
.080					-.0166					
.081				.1041						
.086			.1089							
.094		-.1129								
.113	-.1867									
.150					-.2283	-.2569	-.2711	-.2232		
.157									-.4321	
.163			.0000							
.177				-.0886						
.229		-.0311								
.246			-.0054							
.247	-.0976									
.250					-.3312	-.3560	-.4131	-.4330		
.274				-.2136						
.345									-.4477	
.362		.0993								
.390			-.1817							
.400					-.4415	-.5181		-.6148		
.402				-.3692						
.418										-.1724
.429	.0529									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (2) = .018 BETA (2) = .181

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2550	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1101								
.503										
.547	.0033								-.5047	
.550										
.565					.0065	-.1286				
.600				.0821						
.633	-.2051							-.5706		
.637			.1253							
.650							-.1613			
.670									-.6762	
.700		.1435				-.0600				
.705										
.708					-.0258					-.7384
.737	.0854									
.750							-.5288	-.5261		
.760				-.0518						
.775					-.4658	-.4701				
.793	.2601									
.795			-.0450							
.809				-.4573						
.834		-.0413								
.839			-.4624							
.850					-.4556	-.3267	-.4542			
.857				-.4634						
.862									-.5955	
.865		-.5024								
.879			-.3826							
.900		-.3394			-.4700			-.2374		
.905				-.4179						
.919			-.3517							
.950					-.3737	-.4126	-.1436			
.953				-.3442						
.955			-.3361							
.965		-.3298								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU40)

ALPHA (2) = .012 BETA (3) = 4.250 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1953	-.2431	-.0658	.4189	.5863	.4795	.4345	.4281	-.1931	
.010		-.2815	-.0331		.4247	.4128	.3636	.2530		
.020		-.2812		.0000	.3299	.2796	.2479	.1982	-.2194	
.040			.0217	.2065						
.041	-.2911									
.050										
.069					.1435	.0569	.0282	.0042		
.080									-.2841	
.081					-.0315					
.086				.0985						
.094			.1099							
.113	-.2518	-.1225								
.150										
.157					-.2065	-.2622	-.2889	-.2617		
.163									-.4701	
.177			.0000							
.229				-.0689						
.246		-.0200								
.247	-.0984		.0239							
.250										
.274					-.3040	-.3675	-.3880	-.4517		
.345				-.1837						
.362									-.4668	
.390		.1023								
.400			-.1568							
.402					-.3948	-.4948		-.6142		
.418				-.3188						
.429	.0579									-.2600
.497		-.0856								
.503										
.547	.0212								-.5098	
.550										
.565					-.0067	-.1059				
.600				.0678						
.633	-.1679							-.4287		
.637										
.650			.1059							
.670							-.1766			
.700		.1208							-.5573	
.723						-.0966				
.725										
.727	.0883				-.0612					-.8773
.750										
.760							-.5659	-.4800		
.775				-.0876						
					-.4880	-.4960				

REPRODUCIBILITY OF THE ORIGINAL PAGE

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (2) = .012 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										
.793	.2272									
.798			-.0776							
.808				-.4894						
.834		-.0825								
.839			-.4975							
.950					-.4868	-.3607	-.4975			
.957				-.4962						
.972									-.3664	
.985		-.5460								
.979			-.4205							
.000		-.3761			-.5056			-.2881		
.995				-.4581						
.919			-.3929							
.960					-.4481	-.4589	-.2060			
.993				-.4065						
.955			-.3917							
.965		-.4136								

ALPHA (3) = 3.919 BETA (1) = -3.865 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0717	-.0786	-.1306	.4666	.7122	.6802	.6666	.6332	.0109	
.010		-.1495	-.1079		.3273	.3947	.3321	.1508		
.020		-.1708		.0000	.2012	.2101	.1733	.0822	-.2523	
.040			-.0602	.0581						
.041	-.1433									
.050					-.0386	-.0595	-.0938	-.1497		
.069									-.3182	
.080					-.2193					
.081				-.0987						
.086			-.0030							
.094		-.2221								
.113	-.1192									
.150					-.3893	-.4476	-.4584	-.4011		
.157									-.5419	
.163			.0000							
.177				-.2565						
.179		-.0790								
.245			-.1376							
.247	-.1689									
.250					-.4989	-.5737	-.5888	-.5741		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (3) = 3.919 BETA (1) = -3.865

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				-.3616						
.345									-.6374	
.362		.0410								
.390			-.3025							
.400					-.5810	-.7176		-.7566		
.402				-.4976						
.418										-.4314
.429	.0062									
.497		-.1927								
.503									-.6500	
.547	-.0729									
.550					-.3303	-.7195				
.565				-.2062						
.600								-.7680		
.633	-.3071									
.637			-.1252							
.650							-.7558			
.670									-.5251	
.700		-.1518				-.4381				
.723										-.5262
.725					-.1822					
.727	-.3061									
.750							-.6089	-.5548		
.760				-.0463						
.775					-.4928	-.4705				
.793	.1914									
.799			-.0506							
.809				-.4102						
.834		-.0289								
.839			-.4443							
.850					-.4131	-.2604	-.4612			
.857				-.4325						
.862									-.5261	
.865		-.5029								
.879			-.3690							
.900		-.3178			-.3041			-.4902		
.905				-.3962						
.919			-.3379							
.950					-.0738	-.1146	-.2883			
.953				-.1769						
.955			-.3417							
.965		-.3545								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU40)

ALPHA (3) = 3.917 BETA (2) = .178 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

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	-.1179	-.2319	-.2494	.3811	.6318	.5987	.5867	.5539	-.0829	
.010		-.3028	-.1926		.2308	.2952	.2352	.0688		
.020		-.2969		.0000	.1225	.1163	.0831	-.0021	-.3249	
.040			-.1082	.0011						
.041	-.2220									
.050					-.0862	-.1231	-.1591	-.2078		
.069									-.3753	
.080					-.2507					
.081				-.1222						
.086			-.0049							
.094		-.2929								
.113	-.2023									
.150					-.3967	-.4660	-.4794	-.4305		
.157									-.5760	
.163			.0000							
.177				-.2567						
.229		-.0903								
.246			-.1416							
.247	-.2229									
.250					-.4917	-.5779	-.5948	-.5896		
.274				-.3564						
.345									-.6612	
.362		.0280								
.390			-.2987							
.400					-.5540	-.6865		-.7608		
.402				-.4845						
.418										
.469	.0031									-.5888
.497		-.2092								
.503										
.547	-.0834								-.6879	
.550					-.2471	-.6746				
.586				-.1558						
.600								-.7472		
.633	-.3109									
.637			-.0802							
.650							-.7299			
670									-.5779	
.700		-.0938				-.2438				
723										-.5868
.725					-.1129					
727	-.2392									
.750							-.7895	-.6175		
.763				-.0419						
.775					-.4863	-.4835				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (3) = 3.917 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										
.793	.2048									
.798			-.0547							
.808				-.4443						
.834		-.0539								
.839			-.4749							
.850					-.4365	-.3048	-.3252			
.857				-.4510						
.862									-.5957	
.865		-.5371								
.879			-.3993							
.900		-.3395			-.4186			-.5050		
.905				-.4214						
.919			-.3587							
.950					-.1304	-.1615	-.1359			
.953				-.2359						
.955			-.3643							
.965		-.3845								

ALPHA (3) = 3.924 BETA (3) = 4.244 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1577	-.4321	-.3106	.2854	.5647	.5280	.4952	.4366	-.2725	
.010		-.4817	-.1756		.1301	.1848	.1062	-.0709		
.020		-.4394		.0000	.0428	.0240	-.0299	-.1409	-.4751	
.040			-.0957	-.0153						
.041	-.2827									
.050					-.1261	-.1906	-.2429	-.3103		
.069									-.4881	
.080					-.2694					
.081				-.1161						
.086			-.0136							
.094		-.3170								
.113	-.2813									
.150					-.4008	-.4886	-.5295	-.5014		
.157									-.6432	
.163			.0000							
.177				-.2274						
.229		-.0804								
.245			-.1211							
.247	-.2409									
.250					-.4607	-.5956	-.6216	-.6378		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU40)

ALPHA (3) = 3.924 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										
.274				-.3145						
.345									-.7237	
.362		.0479								
.380			-.2606							
.400					-.5383	-.6496		-.7876		
.402				-.4392						
.418										-.8327
.429	.0269									
.437		-.1721								
.503									-.7710	
.547	-.0561									
.580					-.2307	-.6181				
.595				-.1452						
.600								-.7412		
.633	-.2856									
.637			-.0477							
.650							-.6071			
.670									-.7128	
.700		-.0305				-.2288				
.723										-.7518
.705					-.0985					
.727	-.1691									
.750							-.6308	-.7074		
.760				-.0802						
.775					-.5062	-.4893				
.793	.1772									
.798			-.0930							
.808				-.4909						
.834		-.0946								
.849			-.5216							
.860					-.5013	-.3545	-.3033			
.867				-.4991						
.902									-.7159	
.905		-.5663								
.879			-.4422							
.900		-.3669			-.5034			-.4839		
.905				-.4676						
.919			-.3985							
.950					-.3170	-.3029	-.1903			
.953				-.4190						
.955			-.4122							
.955		-.4975								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (4) = 7.901 BETA (1) = -3.860 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0317	-.2213	-.5094	.2544	.6240	.6237	.5982	.5033	-.2703	
.010		-.3212	-.5139		-.0343	.0841	-.0092	-.2055		
.020		-.2993		.0000	-.1259	-.1023	-.1506	-.2918	-.6544	
.040			-.3753	-.1932						
.041	-.1502									
.050					-.3029	-.3228	-.3786	-.4699		
.069									-.6455	
.080					-.4545					
.081				-.3062						
.086			-.2735							
.094		-.2740								
.113	-.1233									
.150					-.6544	-.6455	-.6885	-.6464		
.157									-.7724	
.163			.0000							
.177				-.4200						
.223		-.2367								
.246			-.2322							
.247	-.1797									
.250					-.6973	-.7715	-.7686	-.7509		
.274				-.4762						
.345									-.8176	
.362		-.0039								
.390			-.3777							
.400					-.7108	-.8776		-.8500		
.402				-.5784						
.418										-.8093
.429	-.0836									
.497		-.2830								
.503									-.7916	
.547	-.1056									
.550					-.6900	-.8520				
.565				-.4788						
.600								-.8119		
.633	-.3908									
.637			-.4147							
.650							-.7382			
.670									-.5986	
.700		-.5017				-.5559				
.723										-.5935
.725					-.2928					
.727	-.4356									
.750							-.5577	-.5898		
.769				-.1025						
.775					-.5413	-.5186				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (4) = 7.901 BETA (1) = -3.860

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	.0974									
.798			-.1063							
.808				-.4488						
.834		-.0278								
.839			-.5084							
.860					-.4235	-.3284	-.5059			
.867				-.4623						
.882										
.885		-.5270							-.5948	
.899			-.3921							
.900		-.3437								
.905					-.3275			-.5924		
.919				-.3855						
.939			-.3562							
.953					-.2002	-.2124	-.4347			
.956				-.2237						
.966			-.3126							
.985		-.3378								

ALPHA (4) = 7.905 BETA (2) = .181 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

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	-.0982	-.4613	-.6843	.0509	.4956	.5030	.4724	.3805	-.4749	
.010		-.5192	-.5848		-.1539	-.0474	-.1501	-.3346		
.020		-.4837		.0000	-.2361	-.2049	-.2628	-.3998	-.7628	
.040			-.4677	-.2394						
.041	-.2160									
.050					-.3602	-.4010	-.4576	-.5567		
.069									-.7938	
.080					-.4860					
.081				-.3066						
.086			-.3520							
.094		-.3611								
.113	-.2212									
.150					-.6602	-.6765	-.7282	-.6963		
.157									-.8385	
.163			.0000							
.177				-.3821						
.229		-.2319								
.245			-.2694							
.247	-.2576									
.250					-.6652	-.7839	-.7901	-.7816		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU40)

ALPHA (4) = 7.905 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				-.4458						
.345									-.8635	
.362		.0101								
.390			-.3990							
.400					-.6645	-.8602		-.8945		
.402				-.5579						
.418										-.9039
.429	-.0523									
.497		-.2980								
.503									-.8382	
.547	-.1159									
.550					-.5953	-.8626				
.585				-.4963						
.600								-.8236		
.633	-.4016									
.637			-.3610							
.650							-.8478			
.670									-.6988	
.700		-.4303				-.5469				
.723										-.7002
.725					-.2592					
.727	-.4258									
.750							-.7008	-.[illegible]		
.760				-.0897						
.775					-.5668	-.4088				
.793	.0379									
.799			-.1134							
.800				-.5039						
.834		-.0833								
.839			-.5542							
.850					-.4752	-.2385	-.5604			
.857				-.4877						
.862									[illegible]995	
.865		-.5511								
.879			-.4342							
.900		-.3517			-.3004			-.6665		
.905				-.4600						
.919			-.3658							
.950					-.1504	-.1496	-.4358			
.963				-.2297						
.975			-.4099							
[illegible]		-.4915								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING ((XEBU40)

ALPHA (4) = 7.904 BETA (3) = 4.239 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1618	-.6801	-.4551	-.0160	.3656	.3705	.3308	.2201	-.6835	
.010		-.6014	-.4149		-.2646	-.1823	-.3017	-.4778		
.020		-.5740		.0000	-.3292	-.3155	-.4017	-.5387	-.8930	
.040			-.3868	-.1278						
.041	-.2832									
.059					-.4102	-.4834	-.5496	-.6583		
.069									-.8734	
.080					-.4971					
.081				-.1917						
.086			-.2492							
.094		-.6451								
.113	-.3101									
.159					-.5892	-.7090	-.7715	-.7618		
.157									-.8743	
.163			.0000							
.177				-.2917						
.229		-.1769								
.246			-.2421							
247	-.3210									
.259					-.5793	-.7954	-.8221	-.8317		
.274				-.3906						
.345									-.8987	
.352		.0505								
.390			-.3339							
400					-.5918	-.8309		-.9224		
.402				-.5154						
.418										-.9020
.429	-.0240									
497		-.2627								
.583									-.8388	
.547	-.0975									
.550					-.4592	-.7589				
.565				-.3007						
.600								-.8754		
.644	-.3812									
.657			-.1889							
.670							-.8902			
.670									-.7679	
.700		-.2901				-.3153				
723										-.7688
.725					-.1466					
727	-.3745									
750							-.8065	-.7906		
760				-.1401						
775					-.5558	-.5470				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU40)

ALPHA (4) = 7.904 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										
.793	.1060									
.798			-.1056							
.808				-.5550						
.834		-.1289								
.839			-.5470							
.850					-.5176	-.3716	-.5302			
.857				-.5881						
.862									-.7684	
.865		-.5314								
.879			-.4344							
.900		-.4021			-.5113			-.7058		
.905				-.5450						
.919			-.4531							
.950					-.1789	-.2372	-.3641			
.953				-.4107						
.955			-.4977							
.965		-.5786								

ALPHA (5) = 11.906 BETA (1) = -3.844 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0514	-.4641	-.6460	-.1547	.3697	.3950	.3630	.2496	-.6112	
.010		-.5274	-.6008		-.4420	-.2973	-.4073	-.5790		
.020		-.5120		.0000	-.5568	-.4631	-.5324	-.6364	-.7542	
.040			-.5091	-.6153						
.041	-.1537									
.050					-.6895	-.6350	-.6848	-.7626		
.060									-.7145	
.080					-.7848					
.081				-.7000						
.086			-.4189							
.094		-.3747								
.113	-.1466									
.150					-.8317	-.8602	-.8876	-.8713		
.157									-.7109	
.163			.0000							
.177				-.6339						
.229		-.3225								
.245			-.3704							
.247	-.1915									
.250					-.8661	-.8514	-.8673	-.8803		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (S) = 11.906 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				-.4491						
.345									-.7639	
.362		-.2310								
.390			-.4512							
.400					-.8642	-.8585		-.7203		
.402				-.5983						
.418										-.7620
.429	-.2659									
.497		-.4031								
.503									-.7001	
.547	-.1558									
.550					-.8083	-.8022				
.565				-.6188						
.600								-.7081		
.633	-.4467									
.637			-.6475							
.650							-.7179			
.670									-.6341	
.700		-.5962				-.6915				
.723										-.6266
.725					-.4109					
.727	-.4958									
.750							-.6621	-.6397		
.760				-.1608						
.775					-.7246	-.6019				
.793	-.1020									
.798			-.1840							
.808				-.6290						
.834		-.0719								
.839			-.5710							
.850					-.5160	-.4858	-.6309			
.857				-.5856						
.862									-.6346	
.865		-.5047								
.879			-.4765							
.900		-.2932			-.3581			-.6388		
.905				-.5688						
.919			-.4411							
.950					-.2146	-.3718	-.6136			
.953				-.5342						
.955			-.4420							
.965		-.4892								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (5) = 11.808 BETA (2) = .188 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

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	-.1305	-.6290	-.6100	-.3801	.2058	.2449	.2198	.1047	-.7353	
.010		-.5435	-.5946		-.5773	-.4120	-.5078	-.6782		
.020		-.5197		.0000	-.6612	-.5682	-.6312	-.7284	-.7438	
.040			-.5743	-.3431						
.041	-.2339									
.050					-.7331	-.7032	-.7570	-.8289		
.069									-.7253	
.080					-.7115					
.081				-.3310						
.086			-.5349							
.094		-.5948								
.113	-.2577									
.150					-.7153	-.8851	-.9099	-.8865		
.157									-.7232	
.163			.0000							
.177				-.3699						
.229		-.6783								
.246			-.3882							
.247	-.2584									
.250					-.7023	-.8738	-.8443	-.8834		
.274				-.5030						
.345									-.7596	
.362		-.1477								
.390			-.5564							
.400					-.7094	-.8674		-.7381		
.402				-.6108						
.418										-.7521
.429	-.2355									
.437		-.3323								
.503									-.7355	
.547	-.0915									
.550					-.6913	-.8062				
.565				-.6131						
.600								-.7297		
.633	-.4988									
.637			-.6402							
.650							-.7388			
.670									-.6597	
.700		-.5310				-.7302				
.723										-.6481
.725					-.3105					
.727	-.5279									
.750							-.6904	-.6621		
.760				-.1829						
.775					-.6177	-.6558				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (5) = 11.808 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	-.0791									
.798			-.1631							
.808				-.5796						
.834		-.1293								
.839			-.5640							
.850					-.5799	-.4626	-.6525			
.857				-.8133						
.862									-.6649	
.865		-.4784								
.879			-.3837							
.900		-.3513			-.5383			-.6664		
905				-.6011						
.919			-.4401							
.950					-.1652	-.2800	-.5977			
.953				-.5072						
.955			-.4930							
.965		-.5469								

ALPHA (5) = 11.865 BETA (3) = 4.250 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	7800	.8870	.9720	1.0000
X/CW										
.000	-.2064	-.6682	-.6558	-.4665	.0861	.0995	.0568	-.0709	-.8499	
.010		-.6441	-.6395		-.6359	-.5365	-.6368	-.7879		
.020		-.6370		.0000	-.7070	-.6685	-.7325	-.8295	-.9034	
.040			-.6126	-.1554						
.041	-.3232									
.050					-.7381	-.7802	-.8413	-.9136		
.069									-.9100	
.080					-.7272					
.081				-.2507						
.086			-.5038							
.094		-.7052								
.113	-.3154									
.150					-.6813	-.9278	-.9676	-.9737		
157									-.9046	
.163			.0000							
.177				-.4566						
.229		-.8292								
.246			-.4455							
.247	-.3631									
.250					-.6318	-.9612	-.9742	-.9841		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U40)

ALPHA (5) = 11.865 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				-.4210						
.345									-.9157	
.362		-.0135								
.390			-.4464							
.400					-.6455	-.9598		-.8980		
.402				-.5674						
.418										-.7739
.429	-.1643									
.497		-.3114								
.503									-.9093	
.547	-.0945									
.550					-.5647	-.9317				
.565				-.6273						
.600								-.7477		
.633	-.4634									
.637			-.4679							
.650							-.8177			
.670									-.8249	
.700		-.4207				-.4657				
.723										-.7335
.725					-.2555					
.727	-.4735									
.750							-.8640	-.8184		
.760				-.2228						
.775					-.6891	-.6770				
.793	-.0208									
.798			-.1620							
.808				-.6585						
.834		-.1405								
.839			-.5936							
.850					-.6406	-.4312	-.7205			
.857				-.6287						
.862									-.8180	
.865		-.4923								
.879			-.4891							
.900		-.4625			-.4679			-.7846		
.905				-.5442						
.919			-.4622							
.950					-.2844	-.2939	-.6028			
.953				-.5522						
.955			-.4761							
.965		-.6266								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YU
BREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = 10.000 MACH = .900

ALPHA (1) = -3.997 BETA (1) = -3.840 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

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	-.4472	-.0428	-.0931	.1572	.4152	.3187	.2560	.2712	-.6519	
.010		.0379	.0609		.6163	.5815	.5371	.4480		
.020		.0492		.0000	.5449	.4943	.4629	.4007	-.3162	
.040			.1676	.3904						
.041	-.0368									
.058					.3358	.2769	.2489	.2008		
.059									-.3921	
.080					.1387					
.081				.2634						
.086			.2910							
.094		.0561								
.113	.0441									
.150					-.0893	-.1272	-.2312	-.1862		
.157									-.4944	
.163			.0000							
.177				-.0041						
.229		.1637								
.246			.0879							
.247	.0810									
.250					-.2769	-.3313	-.3735	-.4905		
.274				-.1510						
.345									-.2218	
.382		.1595								
.390			-.1269							
.400					-.2021	-.3258		-.6087		
.402				-.1843						
.418										-.2436
.429	.1631									
.497		-.0736								
.503									-.2277	
.547	.0323									
.550					-.1542	-.3156				
.565				-.0405						
.600								-.1450		
.634	-.0930									
.637			.0121							
.650							-.1333			
.670									-.6517	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (1) = -3.997 BETA (1) = -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										
.700		.0568				-.1210				
.723										-.3821
.725					-.1486					
.727	.0348									
.750							-.8134	-.8484		
.760				-.1798						
.775					-.8217	-.6407				
.793	.1642									
.799			-.1685							
.809				-.8068						
.834		-.1782								
.839			-.8233							
.850					-.2018	-.2278	-.1940			
.857				-.2108						
.862									-.0733	
.865		-.8385								
.879			-.2412							
.900		-.3282			-.1173			-.1510		
.905				-.0796						
.919			-.0950							
.950					-.0443	-.0967	-.1151			
.953				-.0146						
.955			-.0352							
.965		-.1282								

ALPHA (1) = -3.991 BETA (2) = .189 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION (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	-.0031	-.0232	.1727	.3542	.2321	.1546	.1623	-.5346	
.010		.0359	.0750		.5512	.5033	.4662	.3885		
.020		.0347		.0000	.4865	.4329	.4055	.3481	-.3724	
.040			.1500	.3342						
.041	-.0938									
.050					.2935	.2452	.2175	.1703		
.069									-.4357	
.080					.1188					
.090				.2273						
.095			.2517							
.098		.0355								
.113	.0273									
.150					-.0811	-.1146	-.2313	-.1918		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (1) = -3.991 BETA (2) = .103

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									-.4646	
.163			.0000							
.177				-.0047						
.229		.1427								
.246			.0678							
.247	.0588									
.250					-.2603	-.3018	-.3548	-.4717		
.274				-.1411						
.345									-.3114	
.352		.1396								
.390			-.1198							
.400					-.2073	-.3189		-.5831		
.422				-.1858						
.448										-.2503
.453	.1383									
.497		-.0803								
.503										
.547	.0190								-.2144	
.550					-.1925	-.3444				
.595				-.0770						
.600								-.1625		
.633	-.1094									
.637			-.0267							
.650							-.2663			
.670									-.5010	
.700		.0186				-.1565				
.723										-.4089
.725					-.2045					
.727	-.0001									
.750							-.6419	-.4769		
.760				-.2194						
.775					-.8409	-.5762				
.793	.1169									
.798			-.2120							
.808				-.8377						
.834		-.2217								
.839			-.8566							
.850					-.2113	-.2268	-.1940			
.857				-.2156						
.862									-.0863	
.865		-.8681								
.879			-.2468							
.900		-.3514			-.1489			-.1744		
.905				-.1344						
.919			-.1220							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (1) = -3.991 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					-.0959	-.1200	-.1392			
.953				-.0713						
.955			-.0560							
.965		-.1241								

ALPHA (1) = -3.992 BETA (3) = 4.274 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4808	.0239	.0327	.1901	.3050	.1673	.0767	.0833	-.5133	
.010		.0392	.0828		.4842	.4337	.3912	.3201		
.020		.0307		.0600	.4237	.3699	.3382	.2873	-.4346	
.040			.1421	.2850						
.041	-.1027									
.050					.2493	.1949	.1740	.1289		
.069									-.4895	
.080					.0923					
.081				.1979						
.086			.2252							
.094		.0238								
.113	.0086									
.150					-.0853	-.1257	-.2332	-.2064		
.157									-.5126	
.163			.0000							
.177				-.0076						
.229		.1228								
.246			.0516							
.247	.0557									
.250					-.2418	-.2888	-.3437	-.4714		
.274				-.1299						
.345									-.3121	
.352		.1226								
.390			-.1104							
.400					-.2055	-.3141		-.5801		
.402				-.1847						
.418										-.2348
.429	.1230									
.497		-.0834								
.503									-.2426	
.547	.0117									
.550					-.2182	-.3643				
.565				-.1046						

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU41)

ALPHA (1) = -3.932 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										
.600								-.3445		
.633	-.1088									
.637			-.0597							
.650							-.3972			
.670									-.2204	
.700		-.0154				-.2672				
.723										-.3825
.735					-.2767					
.737	-.0323									
.750							-.3506	-.2721		
.760				-.2491						
.775					-.8577	-.4169				
.787	.0805									
.788			-.2379							
.808				-.7158						
.824		-.2569								
.829			-.7731							
.850					-.2364	-.2275	-.2015			
.857				-.2523						
.868									-.1105	
.876		-.8304								
.879			-.2492							
.900		-.3393			-.2031			-.1845		
.915				-.1941						
.919			-.1709							
.950					-.1612	-.1465	-.1655			
.953				-.1377						
.955			-.1166							
.965		-.1464								

ALPHA (2) = .052 BETA (1) = -3.863 MACH = .89053 Q = 598.47 P = 1059.0 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	-.3635	.0551	.1103	.3603	.5480	.4878	.4525	.4665	-.3087	
.010		.0525	.1529		.4531	.4651	.4164	.2656		
.020		.0304		.0000	.3350	.2974	.2632	.1931	-.2524	
.040			.1911	.2009						
.041	-.1243									
.060					.0688	.0130	-.0164	-.0639		
.069									-.3746	
.080					-.1505					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (2) = .052 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				.0376						
.086			.2240							
.094		.0146								
.113	-.0265									
.150					-.3733	-.4324	-.5204	-.4415		
.157									-.6784	
.183			.0000							
.177				-.2430						
.229		.1093								
.246			-.0951							
.247	.[illegible]36									
.250					-.5050	-.6292	-.6611	-.6663		
.274				-.3867						
.345									-.7026	
.362		.0376								
.390			-.3242							
.400					-.3199	-.4385		-.9328		
.402				-.4051						
.419										-.2471
.429	.0961									
.497		-.2447								
.503									-.2505	
.547	-.1054									
.550					-.2123	-.3676				
.565				-.0904						
.600								-.0887		
.633	-.2957									
.637			-.0253							
.650							-.0828			
.670									-.6569	
.700		-.0010				-.0913				
.723										-.9859
.725					-.1413					
.727	-.0369									
.750							-.8637	-.7741		
.760				-.1701						
.775					-.8298	-.5626				
.793	.1266									
.798			-.1572							
.808				-.8131						
.834		-.1671								
.839			-.7404							
.850					-.1627	-.1660	-.1865			
.857				-.1572						
.862									-.2235	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (2) = .052 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										
.865		-.7676								
.879			-.1833							
.900		-.2649			-.0872			-.0284		
.905				-.0706						
.919			-.0593							
.930					-.0235	-.0546	-.0366			
.953				.0023						
.965			-.0196							
985		-.1074								

ALPHA (2) = .055 BETA (2) = .182 MACH = .89853 Q = 598.47 P = 1059.0 RN/L = 3.5741

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	-.4040	.0157	.0343	.3545	.4984	.4179	.3884	.3815	-.2888	
010		.0020	.1211		.3747	.3829	.3371	.1953		
020		-.0077		.0000	.2580	.2263	.1925	.1298	-.3173	
040			.1592	.1435						
041	-.1962									
.060					.0206	-.0348	-.0624	-.1115		
.069									-.4174	
080					-.1704					
.101				.0064						
096			.1831							
114		-.0034								
.113	-.0398									
140					-.3721	-.4082	-.5191	-.4650		
157									-.7102	
.163			.0000							
177				-.2403						
.229		.0858								
.246			-.1102							
247	.0142									
250					-.4862	-.6080	-.6630	-.6906		
274				-.3630						
.3-5									-.6903	
.332		.0214								
330			-.3100							
.400					-.3113	-.4268		-.9003		
.402				-.3800						
.418										-.3104
.433	.0796									

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (2) = .055 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										
.497		-.2479								
.503									-.1823	
.547	-.1171									
.553					-.2476	-.4244				
.565				-.1269						
.600								-.0928		
.633	-.2815									
.637			-.0742							
.650							-.1109			
.675									-.5230	
.700		-.0359				-.1220				
.723										-1.1073
.736					-.1719					
.737	-.0857									
.750							-.7302	-.3599		
.760				-.2043						
.775					-.8323	-.4729				
.793	.0764									
.799			-.2004							
.809				-.7596						
.834		-.2131								
.839			-.6573							
.850					-.1808	-.1804	-.1797			
.857				-.1946						
.882									-.2124	
.855		-.7582								
.879			-.1088							
.900		-.2950			-.1326			-.1641		
.905				-.1177						
.919			-.1112							
.930					-.0826	-.0875	-.0821			
.953				-.0570						
.955			-.0565							
.965		-.1096								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (2) = .070 BETA (3) = 4.253_ MACH = .89853 Q = 598.47 P = 1059.0 RN/L = 3.5741

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3600	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4398	-.0311	.0611	.3124	.4539	.3722	.3312	.3144	-.2930	
.010		-.0434	.0841		.2863	.2922	.2405	.1012		
.020		-.0458		.0000	.1843	.1428	.1114	.0398	-.3820	
.040			.1213	.0937						
.041	-.2403									
.050					-.0347	-.0979	-.1247	-.1750		
.069									-.4686	
.080					-.2053					
.081				-.0256						
.085			.1476							
.094		-.0273								
.113	-.0416									
.150					-.3699	-.4275	-.5034	-.4927		
.157									-.7352	
.163			.0000							
.177				-.2336						
.229		.0706								
.246			-.1148							
.247	.0053									
.250					-.4803	-.5966	-.6595	-.7063		
.274				-.2990						
.345									-.5521	
.362		.0120								
.390			-.2681							
.400					-.3103	-.4375		-.7523		
.402				-.3608						
.418										-.4446
.469	.0629									
.497		-.2392								
.503									-.2143	
.547	-.1195									
.550					-.2788	-.4463				
.565				-.1581						
.600								-.1942		
.633	-.2607									
.637			-.1074							
.650							-.3017			
.670									-.4505	
.700		-.0686				-.2373				
.723										-.9840
725					-.2909					
.727	-.0892									
750							-.4279	-.3206		
760				-.2502						
775					-.5317	-.3681				

AMES 11-073(CA:+3) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (2) = .070 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										
.793	.0336									
.798			-.2371							
.808				-.4268						
.834		-.2482								
.839			-.4818							
.850					-.2355	-.2150	-.1925			
.857				-.2356						
.862									-.3023	
.865		-.7856								
.879			-.2361							
.900		-.3228			-.1979			-.1999		
.905				-.1819						
.919			-.1803							
.950					-.1613	-.1333	-.1314			
.953				-.1392						
.955			-.1318							
.965		-.1513								

ALPHA (3) = 3.947 BETA (1) = -3.868 MACH = .89830 Q = 598.51 P = 1059.5 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
X/CW										
.000	-.2947	-.0305	.0561	.4094	.6095	.5767	.5480	.4855	-.2000	
.010		-.0871	.0656		.1641	.2014	.0899	-.1534		
.020		-.0955		.0000	.0218	-.0236	-.0962	-.2328	-.5626	
.040			.1028	-.0450						
.041	-.1834									
.050					-.2502	-.3371	-.4021	-.5009		
.069									-.6455	
.080					-.4771					
.081				-.2278						
.086			.0985							
.094		-.0589								
.113	-.1016									
.150					-.7045	-.7399	-.8143	-.7399		
.157									-.9302	
.163			.0000							
.177				-.4742						
.229		.0500								
.245			-.2690							
.247	-.0126									
.253					-.7591	-.9335	-.9719	-.9516		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (3) = 3.947 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										
.274				-.6002						
.345									-.9454	
.362		-.0684								
.390			-.5398							
.400					-.8423	-1.0197		-.9723		
.402				-.7224						
.418										-.8268
.429	.0433									
.497		-.4243								
.503									-.7522	
.547	-.2104									
.550					-.2533	-.5241				
.565				-.1702						
.600								-.6354		
.633	-.5139									
.637			-.1064							
.650							-.5029			
.670									-.5344	
.700		-.1155				-.1130				
.723										-.5437
.725					-.1682					
.727	-.1591									
.750							-.4749	-.4495		
.760				-.1672						
.775					-.7990	-.6696				
.793	.1068									
.798			-.1598							
.808				-.7349						
.834		-.1693								
.839			-.5596							
.850					-.1689	-.1387	-.2206			
.857				-.1503						
.862									-.5024	
.865		-.8159								
.879			-.1603							
.900		-.2406			-.0574			-.3820		
.905				-.0451						
.919			-.0600							
.950					.0301	.0080	-.0656			
.953				.0236						
.965			-.0004							
.985		-.0724								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (3) = 4.018 BETA (2) = .184 MACH = .89830 Q = 598.51 P = 1059.5 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
X/CW										
.000	-.3549	-.1459	-.0661	.3083	.5235	.4816	.4508	.3771	-.3477	
.010		-.1775	-.0253		.0481	.0792	-.0299	-.2568		
.020		-.1585		.0000	-.0700	-.1257	-.1992	-.3439	-.6685	
.040			.0450	-.1138						
.041	-.3848									
.050					-.3179	-.4094	-.4750	-.5721		
.059									-.7232	
.080					-.5127					
.081				-.2665						
.085			.0497							
.094		-.0786								
.113	-.1109									
.150					-.7186	-.7651	-.8373	-.7860		
.157									-.9698	
.163			.0000							
.177				-.4861						
.229		.0278								
.246			-.2856							
.247	-.0292									
.250					-.7486	-.9145	-.9827	-.9776		
.274				-.5915						
.345									-1.0401	
.362		-.0857								
.390			-.5390							
.400					-.7875	-.9933		-1.0934		
.402				-.6807						
.418										-1.0340
.429	.0249									
.497		-.4239								
.503									-.8312	
.547	-.2203									
.550					-.3080	-.3783				
.565				-.1926						
.600								-.6620		
.633	-.5136									
.637			-.1437							
.650							-.2458			
.670									-.6708	
.700		-.1308				-.1409				
.723										-.6283
.725					-.2140					
.727	- 556									
.750							-.7405	-.5218		
.760				-.2160						
.775					-.5970	-.3861				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (3) = 4.018 BETA (2) = .[illegible]

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	.0648									
.798			-.2062							
.808				-.4563						
.834		-.2355								
.839			-.4332							
.850					-.1642	-.1594	-.0957			
.857				-.1690						
.862									-.6045	
.865		-.9048								
.879			-.1873							
.900		-.2668			-.1089			-.3619		
.905				-.1051						
.919			-.1111							
.950					-.0565	-.0600	.0429			
.963				-.0627						
.965			-.0678							
.985		-.0968								

ALPHA (3) = 4.018 BETA (3) = 4.245 MACH = .89830 Q = 598.51 P = 1059.5 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
X/CW										
.000	-.4198	-.2701	-.1703	.1865	.4207	.3821	.3473	.2503	-.5824	
.010		-.2592	-.0747		-.0827	-.0521	-.1663	-.4057		
.020		-.2065		.0000	-.1809	-.2417	-.3276	-.4961	-.8275	
.040			.0082	-.1736						
.041	-.4917									
.050					-.3819	-.4850	-.5658	-.6786		
069									-.8286	
.080					-.5544					
.081				-.3031						
.096			.0184							
.094		-.0977								
.113	-.1187									
.150					-.7253	-.7920	-.8658	-.8345		
157									-1.0275	
.163			.0000							
.177				-.4877						
.209		-.0009								
.[illegible]			-.2724							
.[illegible]7	-.0373									
.250					-.7227	-.8591	-.9927	-1.0049		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (3) = 4.018 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				-.5758						
.345									-1.1014	
.362		-.0917								
.390			-.5095							
.400					-.6188	-.9188		-1.1367		
.402				-.6301						
.418										-1.3018
.423	.0174									
.497		-.4259								
.503									-1.1139	
.547	-.2232									
.550					-.3215	-.4518				
.565				-.2330						
.600								-.5820		
.633	-.4822									
.637			-.1846							
.650							-.2651			
.670									-1.0209	
.700		-.1228				-.2021				
.723										-1.0656
.725					-.2880					
.727	-.1648									
.750							-.8180	-.6071		
.760				-.2529						
.775					-.3446	-.3339				
.793	.0164									
.798			-.2450							
.808				-.3657						
.834		-.2708								
.839			-.5732							
.850					-.2236	-.2052	-.1692			
.857				-.2531						
.862									-.8490	
.865		-.8723								
.879			-.2360							
.900		-.3534			-.1962			-.1920		
.905				-.2090						
.919			-.1917							
.950					-.1580	-.1296	.0044			
.953				-.1611						
.955			-.1389							
.965		-.1587								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (4) = 7.919 BETA (1) = -3.861 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2582	-.2908	-.2810	.2118	.4781	.4607	.4142	.2782	-.6285	
.010		-.3637	-.2073		-.2807	-.1943	-.3465	-.6062		
.020		-.2969		.0000	-.3826	-.4078	-.5039	-.7128	-.9260	
.040			-.0929	-.3841						
.041	-.2134									
.050					-.5954	-.6545	-.7581	-.9110		
.059									-.7548	
.060					-.7835					
.081				-.5445						
.085			-.0768							
.094		-.1410								
.113	-.1572									
.150					-.9896	-1.0488	-1.1080	-.9798		
.157									-.6990	
.163			.0000							
.177				-.6723						
.229		-.0069								
.246			-.4251							
.247	-.0582									
.250					-1.0132	-1.1299	-1.0055	-.9611		
.274				-.7670						
.345									-.6983	
.352		-.1574								
.390			-.6578							
.400					-1.0187	-.9868		-.8578		
.402				-.8919						
.418										-.6945
.429	.0065									
.497		-.5324								
.503									-.6696	
.547	-.3238									
.550					-.3945	-.7296				
.565				-.3588						
.600								-.6736		
.633	-.6777									
.637			-.1649							
.650							-.6535			
.670									-.5647	
.700		-.2301				-.5758				
.723										-.5464
.725					-.2982					
.737	-.2604									
.750							-.5179	-.5929		
.760				-.1701						
.775					-.8258	-.5345				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (4) = 7.919 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										
.793	.1274									
.799			-.1607							
.808				-.8084						
.834		-.1765								
.839			-.8501							
.850					-.2793	-.3051	-.1728			
.857				-.2801						
.862									-.5507	
.865		-.9035								
.879			-.3179							
.900		-.3715			-.1472			-.5685		
.905				-.0982						
.919			-.1635							
.950					-.0405	-.1945	-.4200			
.953				.0059						
.955			-.0749							
.965		-.1135								

ALPHA (4) = 7.925 BETA (2) = .181 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3519	-.4814	-.3973	.0242	.3394	.3159	.2676	.1218	-.8871	
.010		-.4785	-.1971		-.4296	-.3478	-.5062	-.7588		
.020		-.3543		.0000	-.4956	-.5378	-.6335	-.8344	-.8309	
.040			-.0800	-.4413						
.041	-.3896									
.050					-.6735	-.7527	-.8586	-1.0149		
.069									-.7209	
.080					-.8314					
.081				-.5849						
.086			-.0706							
.094		-.1897								
.113	-.1967									
.150					-.9763	-1.0849	-1.1565	-1.0481		
.157									-.7131	
.163			.0000							
.177				-.6595						
.229		-.1286								
.245			-.4190							
.247	-.0579									
.250					-.9957	-1.1804	-1.0556	-1.0273		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESU41)

ALPHA (4) = 7.925 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				-.7372						
.345									-.7299	
.362		-.1843								
.390			-.6589							
.400					-1.0169	-1.0363		-.8944		
.402				-.8711						
.418										-.7157
.429	-.0046									
.497		-.5651								
.503									-.7093	
.547	-.3379									
.550					-.4277	-.6834				
.555				-.3200						
.600								-.7047		
.633	-.7028									
.637			-.2111							
.650							-.6505			
.670									-.5964	
.700		-.2113				-.5590				
.723										-.5958
.725					-.2734					
.727	-.3179									
.750							-.5484	-.6290		
.760				-.1933						
.775					-.8794	-.5837				
.793	.0440									
.798			-.2123							
.808				-.8777						
.834		-.2054								
.839			-.9437							
.850					-.3467	-.3058	-.5029			
.857				-.4435						
.862									-.5786	
.885		-.8455								
.879			-.5163							
.900		-.5063			-.1649			-.5949		
.905				-.1474						
.919			-.1899							
.950					-.0368	-.1660	-.4437			
.953				-.0350						
.955			-.0999							
.965		-.1880								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (4) = 7.877 BETA (3) = 4.247 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP -

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4326	-.5828	-.2395	-.1442	.1874	.1662	.1090	-.0449	-.9220	
.010		-.3766	-.1708		-.5529	-.5058	-.6845	-.9169		
.020		-.3292		.0000	-.6224	-.6586	-.7850	-.9927	-.8229	
.040			-.1540	-.4063						
.041	-.5138									
.050										
.069					-.7121	-.8474	-.9580	-1.1194		
.080									-.7902	
.081					-.8354					
.085				-.4802						
.086			-.1639							
.094		-.3192								
.113	-.2032									
.150										
.157					-.9129	-1.1140	-1.2107	-1.1426		
.163									-.7658	
.177			.0000							
.220				-.6005						
.246		-.2353								
.247	-.0817		-.5176							
.250										
.274					-.9094	-1.2051	-1.1325	-1.1210		
.345				-.6969						
.362		-.1129							-.7608	
.390			-.7015							
.400					-.9460	-1.0704				
.402				-.8298				-.7644		
.418										
.429	-.0272									-.7558
.497		-.5390								
.503										
.547	-.3345								-.7684	
.550										
.565					-.4306	-.6280				
.600				-.3219						
.633	-.6645							-.7564		
.637			-.2600							
.650							-.6098			
.670										
.700		-.2447							-.6636	
.723						-.4297				
.725										-.6462
.727	-.3125				-.2359					
.750										
.760							-.6565	-.6812		
.775				-.2617						
					-.9148	-.7364				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (4) = 7.877 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	-.0373									
.798			-.2113							
.808				-.9812						
.834		-.2357								
.839			-.8599							
.850					-.3692	-.3649	-.5551			
.857				-.3975						
.882									-.6328	
.885		-.8024								
879			-.6238							
900		-.5482			-.2173			-.6322		
905				-.2572						
.919			-.2449							
.940					-.1221	-.1787	-.4536			
953				-.1429						
.965			-.1471							
985		-.2481								

ALPHA (5) = 11.893 BETA (1) = -3.850 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	- 2825	-.6800	-.5276	-.1848	.2105	.1948	.1374	-.0242	-.8499	
010		-.6769	-.2621		-.7195	-.6263	-.7955	-.9670		
.020		-.5734		.0000	-.8434	-.8127	-.3414	-.8828	-.7351	
.040			-.1870	-.6599						
.041	-.2610									
.050					-.9834	-1.0181	-1.0830	-.8257		
069									-.6985	
.080					-1.0733					
.081				-.7466						
.096			-.1732							
.094		-.3497								
.113	-.2503									
.150					-1.1901	-1.0889	-1.0702	-.7887		
.157									-.8703	
.153			.0000							
[illegible]				-.7978						
.209		-.2266								
.246			-.5570							
[illegible]	-.1042									
253					-1.1040	-.9987	-.9108	-.7448		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8041)

ALPHA (5) = 11.893 BETA (1) = -3.850

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8547						
.345									-.6587	
.362		-.3825								
.390			-.7647							
.400					-.9075	-.8754		-.7057		
.402				-.9199						
.418										-.6653
.427	-.7303									
.433		-.7642								
.513									-.6853	
.541	-.4782									
.550					-.7321	-.7666				
.565				-.5194						
.600								-.6966		
.633	-.8225									
.650			-.3039							
.677							-.7258			
.694									-.5940	
.714		-.2779				-.7001				
.733										-.5833
.758					-.5259					
.760	-.3014									
.782							-.6684	-.6092		
.800				-.2564						
.805					-.3917	-.6619				
.833	.0479									
.838			-.2652							
.858				-.9578						
.864		-.2427								
.933			-.3810							
.951					-.4204	-.5296	-.6307			
.954				-.4708						
.982									-.5690	
.995		-.8021								
1.019			-.7673							
1.022		-.6622			-.3715			-.6061		
1.025				-.2649						
1.039			-.2719							
1.040					-.2590	-.4541	-.6172			
1.045				-.1679						
1.066			-.2077							
1.085		-.2663								

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8UN1)

ALPHA (S) = 11.848 BETA (Z) = .191 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2090	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3935	-.7698	-.3282	-.3782	.0446	.0206	-.0375	-.1960	-.9363	
.010		-.5160	-.2784		-.8632	-.7703	-.9178	-.9546		
.020		-.4762		.0000	-.9747	-.9552	-1.0711	-.8295	-.7683	
.040			-.2702	-.5510						
.061	-.4429									
.080					-1.0758	-1.1146	-1.1151	-.7936		
.099									-.7023	
.101					-1.1211					
.091				-.6299						
.105			-.2638							
.114		-.4686								
.113	-.2681									
.107					-1.2116	-1.0935	-.9918	-.7702		
.107									-.6914	
.153			.0000							
.171				-.7373						
.203		-.5708								
.246			-.5725							
.247	-.1681									
.250					-1.0295	-.9651	-.8989	-.7588		
.274				-.8420						
.345									-.6733	
.342		-.2904								
.330			-.7729							
.400					-.8965	-.8945		-.7252		
.402				-.9670						
.418										-.7011
.429	-.0674									
.407		-.7286								
.403									-.6866	
.447	-.5012									
.500					-.7376	-.8346				
.565				-.4014						
.600								-.7032		
.633	-.8499									
.647			-.3507							
.650							-.7281			
.675									-.5719	
.700		-.2816				-.7115				
.722										-.6042
.725					-.4159					
.777	- 3198									
.781							-.6952	-.6356		
.793				-.2995						
.795					-.9985	-.6558				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU41)

ALPHA (5) = 11.848 BETA (2) = .191

SECTION ' 1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0215									
.798			-.2787							
.809				-1.0297						
.834		-.2676								
.838			-.8831							
.850					-.4076	-.5068	-.6623			
.867				-.7854						
.883									-.6007	
.886		-.7696								
.898			-.7911							
.901		-.6503			-.3048			-.6165		
.916				-.3565						
.918			-.4810							
.933					-.2157	-.4457	-.6455			
.937				-.2184						
.965			-.2394							
.966		-.4506								

ALPHA (5) = 11.881 BETA (3) = -.259 MACH = .89863 Q = 598.63 P = 1059.0 PN/L = 3.5769

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	-.5017	-.7309	-.3609	-.5433	-.1281	-.1602	-.2210	-.3831	-.6594	
.010		-.6098	-.3341		-1.0052	-.9287	-1.0712	-.8537		
.020		-.6077		.0000	-1.0918	-1.0852	-1.0218	-.8516	-.7755	
.040			-.3319	-.4501						
.041	-.6149									
.060					-1.1490	-1.2155	-.9506	-.8275		
.080									-.7341	
.080					-1.1191					
.081				-.5606						
.088			-.3152							
.094		-.5935								
.113	-.2385									
.160					-1.0800	-1.0530	-.8608	-.7781		
.167									-.7220	
.183			.0000							
.197				-.6728						
.200		-.6246								
.246			-.5955							
.247	-.2217									
.250					-.9775	-.9443	-.8246	-.7747		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U41)

ALPHA (5) = 11.881 BETA (3) = 4.259

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/2W	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720	1.0000
X/CW										
.274				-.8037						
.345									-.7225	
.362		-.3038								
.390			.8023							
.400					-.7233	-.8543		-.7575		
.402				-.9559						
.418										-.7312
.429	-.1009									
.497		-.7244								
.503									-.7480	
.547	-.4785									
.550					-.6385	-.8172				
.565				-.3835						
.600								-.7353		
.633	-.8459									
.637			-.3030							
.650							-.7743			
.670									-.6520	
.700		-.2391				-.7343				
.723										-.6603
.725					-.4051					
.727	-.2849									
.750							-.7426	-.6738		
.760				-.3807						
.775					-1.0628	-.7710				
.793	.0128									
.798			-.3158							
.808				-1.0508						
.834		-.2851								
.839			-.9386							
.850					-.6248	-.5162	-.7137			
.857				-.9345						
.862									-.6331	
.865		-.7995								
.879			-.7646							
.900		-.6966			-.4105			-.6702		
.905				-.5517						
.910			-.7211							
.950					-.3040	-.3992	-.6579			
.953				-.3258						
.965			-.3585							
.985		-.6921								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42) (05 AUG 75)

REFERENCE DATA

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

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 10.000
R-ELVN = 10.000 MACH = .600

ALPHA (1) = -4.049 BETA (1) = -7.852 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1457	-.1368	-.2694	-.0742	.1516	.0799	.0494	.1528	-.6304	
.010		-.0029	-.0313		.6043	.6010	.5808	.5066		
.020		.0365		.0000	.5444	.5291	.5065	.4612	-.0733	
.040			.1161	.3578						
.041	.0340									
.050					.3135	.2959	.2618	.2241		
.069									-.1124	
.080					.1118					
.081				.2254						
.086			.2654							
.094		.0514								
.113	.0490									
.150					-.1097	-.1388	-.2866	-.1752		
.157									-.1965	
.163			.0000							
.177				-.0449						
.229		.1502								
.246			.0297							
.247	.0805									
.250					-.2649	-.3259	-.3737	-.4184		
.274				-.1705						
.345									-.2283	
.362		.1030								
.390			-.1398							
.400					-.2293	-.3040		-.3900		
.402				-.1878						
.418										-.3079
.429	.1160									
.497		-.0898								
.503									-.3159	
.547	-.0091									
.550					-.1737	-.2574				
.565				-.0888						
.600								-.3133		
.633	-.0976									
.637			-.0403							
.650							-.2649			
.670									-.2909	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -4.049 BETA (1) = -7.852

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		.0050				-.2160				
.723										-.1996
.725					-.2032					
.727	-.0077									
.750							-.4122	-.2699		
.760				-.2203						
.775					-.4567	-.3195				
.793	.1125									
.799			-.1904							
.808				-.2994						
.834		-.1797								
.839			-.2650							
.850					-.1026	-.0867	-.0813			
.857				-.1098						
.862									-.0695	
.865		-.4332								
.879			-.1180							
.900		-.1600			-.0345			-.0300		
.905				-.0462						
.919			-.0505							
.950					.0295	.0061	.0377			
.953				.0128						
.955			-.0169							
.965		-.0662								

ALPHA (1) = -3.971 BETA (2) = -3.842 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1496	-.0790	-.1777	-.0178	.1355	.0457	-.0090	.0876	-.5836	
.010		.0050	-.0050		.5407	.5306	.5053	.4389		
.020		.0225		.0000	.4854	.4670	.4373	.3911	-.1424	
.040			.1070	.3060						
.041	-.0116									
.050					.2637	.2471	.2156	.1771		
.069									-.1679	
.080					.0793					
.091				.1793						
.096			.2294							
.094		.0292								
.113	.0170									
.150					-.1317	-.1567	-.3101	-.1910		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -3.971 BETA (2) = -3.842

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157										
.163			.0000						-.2244	
.177				-.0593						
.229		.1234								
.246			.0044							
.247	.0539									
.250					-.2814	-.3314	-.3842	-.4273		
.274				-.1848						
.345										
.362		.0788							-.2209	
.390			-.1524							
.400					-.2489	-.3252		-.3939		
.402				-.2134						
.418										
.429	.0958									-.2853
.497		-.1194								
.503										
.547	-.0296								-.2908	
.550					-.2082	-.2773				
.565			-	-.1249						
.600								-.3075		
.633	-.1253									
.637			-.0755							
.650							-.2714			
.670									-.2600	
.700		-.0344				-.2333				
.723										-.2276
.725					-.2331					
.727	-.0507									
.750							-.4120	-.2576		
.760				-.2410						
.775					-.4905	-.3423				
.793	.0750									
.798			-.2044							
.808				-.3290						
.834		-.1991								
.839			-.2936							
.850					-.1182	-.0993	-.0961			
.857				-.1339						
.862									-.0522	
.865		-.4452								
.879			-.1372							
.900		-.1723			-.0471			-.0492		
.905				-.0601						
.919			-.0729							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -3.971 BETA (2) = -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										
.950					.0253	-.0015	.0214			
.953				.0079						
.955			-.0222							
.965		-.0675								

ALPHA (1) = -3.888 BETA (3) = .191 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1488	-.0399	-.0761	.0403	.1487	.0139	-.0524	.0284	-.5409	
.010		.0073	.0173		.4736	.4542	.4307	.3669		
.020		.0071		.0000	.4147	.3940	.3713	.3245	-.2029	
.040			.0947	.2529						
.041	-.0578									
.050					.2156	.1969	.1727	.1292		
.069									-.2193	
.080					.0420					
.081				.1493						
.086			.1955							
.094		.0026								
.113	-.0154									
.150					-.1462	-.1772	-.3083	-.2147		
.157									-.2492	
.163			.0000							
.177				-.0734						
.229		.0977								
.246			-.0162							
.247	.0295									
.250					-.2940	-.3423	-.3880	-.4195		
.274				-.2009						
.345									-.2219	
.362		.0631								
.390			-.1702							
.400					-.2723	-.3373		-.3998		
.402				-.2351						
.418										-.2523
.429	.0716									
.497		-.1355								
.503									-.2727	
.547	-.0497									
.550					-.2417	-.3009				
.565				-.1579						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -3.888 BETA (3) = .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										
.600								-.3007		
.633	-.1550									
.637			-.1198							
.650							-.2807			
.670									-.2321	
.700		-.0738				-.2490				
.723										-.2414
.725					-.2545					
.727	-.0852									
.750							-.4082	-.2429		
.760				-.2618						
.775					-.5151	-.3623				
.793	.0337									
.799			-.2284							
.808				-.3640						
.834		-.2239								
.839			-.3254							
.850					-.1428	-.1189	-.1088			
.857				-.1592						
.862									-.0490	
.865		-.4729								
.879			-.1619							
.900		-.1901			-.0617			-.0701		
.905				-.0749						
.919			-.0872							
.950					.0111	-.0042	.0090			
.953				-.0049						
.955			-.0346							
.965		-.0833								

ALPHA (1) = -3.983 BETA (4) = 4.273 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1531	-.0145	-.0230	.0812	.1377	.0134	-.0479	.0187	-.4711	
.010		.0067	.0331		.4090	.3909	.3576	.2935		
.020		-.0012		.0000	.3526	.3261	.2994	.2486	-.2289	
.040			.0904	.2115						
.041	-.0 [illegible]									
.050					.1746	.1405	.1108	.0817		
.059									-.2453	
.080					.0144					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -3.983 BETA (4) = 4.273

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1213						
.086			.1724							
.094		-.0111								
.113	-.0359									
.150					-.1622	-.1911	-.3286	-.2391		
.157									-.2673	
.163			.0000							
.177				-.0804						
.189		.0829								
.196			-.0273							
.247	.0162									
.250					-.2972	-.3498	-.3977	-.4237		
.274				-.2022						
.345									-.2184	
.372		.0508								
.390			-.1755							
.400					-.2874	-.3513		-.4001		
.402				-.2508						
.418										-.1699
.429	.0597									
.497		-.1410								
.503									-.2550	
.547	-.0650									
.550					-.2659	-.3149				
.565				-.1901						
.600								-.2930		
.633	-.1763									
.637			-.1490							
.650							-.2883			
.670									-.2094	
.700		-.1040				-.2608				
.723										-.2785
.725					-.2778					
.727	-.1245									
.750							-.4092	-.2315		
.760				-.2850						
.775					-.5328	-.3725				
.733	.0017									
.739			-.2527							
.878				-.3947						
.895		-.2443								
.911			-.3523							
.940					-.1590	-.1330	-.1150			
.957				-.1781						
.982									-.0432	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU42)

ALPHA (1) = -3.983 BETA (4) = 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										
.865		-.5019								
.879			-.1772							
.900		-.2092			-.0745			-.0971		
.905				-.0910						
.919			-.1038							
.950					.0021	-.0128	-.0050			
.953				-.0163						
.955			-.0452							
.965		-.0951								

ALPHA (1) = -3.999 BETA (5) = 8.343 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

SECTION (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	-.0154	.0243	.1398	.1686	.0171	-.0435	.0109	-.3836	
.010		-.0082	.0622		.3392	.3200	.2866	.2245		
.020		-.0196		.0000	.2820	.2554	.2285	.1852	-.2522	
.040			.0917	.1611						
.041	-.1156									
.050					.1166	.0848	.0582	.0284		
.059									-.2710	
.080					-.0279					
.081				.0779						
.086			.1461							
.094		-.0206								
.113	-.0521									
.150					-.1833	-.2136	-.3397	-.2589		
.157									-.2748	
.163			.0000							
.177				-.1000						
.229		.0723								
.246			-.0456							
.247	.0072									
.250					-.3173	-.3558	-.3957	-.4228		
.274				-.2188						
.345									-.2159	
.362		.0348								
.390			-.1918							
.400					-.3075	-.3670		-.3926		
.402				-.2741						
.418										-.1301
.429	.0499									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (1) = -3.999 BETA (5) = 8.343

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		-.1643								
.503									-.2349	
.547	-.0772									
.550					-.2890	-.3313				
.565				-.2209						
.600								-.2865		
.633	-.2038									
.637			-.1856							
.650							-.2909			
.670									-.1841	
.700		-.1470				-.2669				
.723										-.3599
.725					-.2995					
.727	-.1585									
.750							-.4089	-.2170		
.760				-.3001						
.775					-.5502	-.3844				
.793	-.0327									
.798			-.2724							
.808				-.4144						
.834		-.2623								
.839			-.3669							
.850					-.1659	-.1430	-.1146			
.857				-.1893						
.862									-.0328	
.884		-.5051								
.913			-.1819							
.900		-.2171			-.0842			-.0984		
.905				-.0991						
.919			-.1041							
.940					-.0053	-.0193	-.0099			
.953				-.0188						
.955			-.0480							
.965		-.1029								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = -.003 BETA (1) = -7.885 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2993	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0628	.0504	.0673	.3157	.5153	.5035	.4999	.5413	-.0534	
.010		.0752	.1361		.4383	.4682	.4082	.2061		
.020		.0616		.0000	.2967	.2755	.2165	.1273	-.1457	
.040			.1840	.1611						
.041	-.0013									
.050					.0111	-.0470	-.0948	-.1460		
.069									-.2673	
.080					-.1997					
.081				-.0137						
.086			.2071							
094		.0262								
.113	.0089									
.150					-.3669	-.4392	-.6384	-.4639		
.157									-.4036	
.163			.0000							
.177				-.2640						
.229		.0899								
246			-.1421							
.247	.0399									
.250					-.4606	-.5523	-.6306	-.6682		
.274				-.3336						
.345									-.4511	
.352		-.0219								
.390			-.2691							
.400					-.3243	-.4215		-.5242		
.402				-.2832						
.418										-.0802
.429	.0475									
.497		-.2140								
.503									-.5137	
.547	-.1176									
.550					-.2183	-.3049				
.565				-.1219						
.600								-.3660		
.633	-.1855									
.637			-.0681							
.650							-.2924			
.670									-.3888	
.700		-.0328				-.2181				
.723										-.9667
.725					-.2038					
.727	-.0520									
750							-.4148	-.3156		
.760				-.2052						
.775					-.4299	-.3111				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = -.003 BETA (1) = -7.885

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	.0930									
.798			-.1823							
.808				-.2778						
.834		-.1755								
.839			-.2466							
.860					-.0893	-.0885	-.0893			
.857				-.0977						
.862									-.2528	
.865		-.4063								
.879			-.1073							
.901		-.1469			-.0226			-.0546		
.906				-.0333						
.919			-.0499							
.940					.0427	.0186	.0380			
.953				.0286						
.955			-.0048							
.965		-.0567								

ALPHA (2) = .104 BETA (2) = -3.860 MACH = .59612 Q = 593.61 P = 2386.1 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	-.0894	.0350	.0756	.3086	.4859	.4567	.4446	.4725	-.0866	
.019		.0361	.1151		.3548	.3842	.3139	.1178		
.020		.0188		.0000	.2254	.1960	.1365	.0480	-.2060	
.040			.1430	.1004						
.041	-.0548									
.060					-.0427	-.1069	-.1599	-.1999		
.069									-.3153	
.080					-.2432					
.081				-.0570						
.096			.1594							
.094		-.0097								
.113	-.0277									
.150					-.3946	-.4508	-.6419	-.4878		
.157									-.4159	
.183			.0000							
.177				-.2808						
.229		.0632								
.245			-.1741							
.247	.0090									
.250					-.4737	-.5497	-.6290	-.6781		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = .104 BETA (2) = -3.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.3555						
.345										
.362		-.0454							-.4271	
.390			-.2858							
.400					-.3514	-.4336		-.5221		
.402				-.3163						
.419										-.1432
.429	.0204									
.438		-.2367								
.503									-.4852	
.547	-.1527									
.560					-.2549	-.3308				
.565				-.1655						
.600								-.3626		
.633	-.2226									
.637			-.1164							
.670							-.3033			
.672									-.3932	
.672		-.0765				-.2418				
.723										-1.1097
.725					-.2327					
.727	-.0397									
.750							-.4138	-.3064		
.760				-.2324						
.775					-.4573	-.3311				
.793	.0475									
.798			-.2031							
.803				-.3134						
.824		- 1927								
.838			-.2799							
.850					-.1110	-.1072	-.1028			
.857				-.1251						
.862									-.3119	
.865		-.4199								
.879			-.1285							
.900		-.1651			-.0372			-.0661		
.905				-.0476						
.919			-.0581							
.950					.0248	.0089	.0200			
.953				.0152						
.965			-.0166							
.965		-.0655								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 4261

AMES 11-073(OA148) -140A/9/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = .114 BETA (3) = .190 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.9734

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	-.1337	-.0302	.0596	.2858	.4498	.3979	.3862	.3975	-.1335	
.010		-.0142	.0850		.2709	.2916	.2318	.0538		
.020		-.0275		.0000	.1506	.1227	.0720	-.0161	-.2605	
.040			.1069	.0475						
.041	-.1029									
.060										
.069					-.0826	-.1555	-.2063	-.2483		
.080									-.3467	
.081					-.2666					
.086				-.0918						
.094			.1195							
.113	-.0627	-.0451								
.150										
.157					-.4040	-.4585	-.6395	-.5044		
.163			.0000						-.4146	
.177				-.2683						
.228		.0363								
.246			-.1875							
.247	-.0167									
.260										
.274					-.4838	-.5505	-.6131	-.6520		
.345				-.3603						
.352		-.0655							-.3987	
.390			-.3022							
.400										
.402					-.3736	-.4485		-.5101		
.418				-.3377						
.429	-.0006									
.437		-.2617								-.2106
.503										
.547	-.1662								-.4460	
.550										
.565					-.2910	-.3575				
.600				-.2021						
.633	-.2477							-.3580		
.637			-.1558							
.650										
670							-.3109			
700		-.1161							-.3562	
.733						-.2532				
.735										
737	-.1315				-.2643					-1.1735
.750										
771							-.4113	-.2931		
775				-.2550						
					-.4838	-.3461				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = .114 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										
.733	.0031									
.798			-.2259							
.809				-.3488						
.834		-.2206								
.839			-.3102							
.850					-.1321	-.1248	-.1121			
.857				-.1485						
.900									-.2356	
.914		-.4360								
.919			-.1535							
.930		-.1912			-.0593			-.0825		
.935				-.0673						
.949			-.0945							
.960					.0013	-.0095	.0014			
.972				-.0066						
.986			-.0359							
.991		-.0825								

ALPHA (2) = .114 BETA (3) = 4.251 MACH = .59612 Q = 593.51 P = 2396.1 RN/L = 4.6734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1656	-.0482	.0244	.2502	.4080	.3632	.3435	.3327	-.1728	
.012		-.0624	.0498		.1832	.2069	.1279	-.0546		
.020		-.0666		.0000	.0689	.0324	-.0232	-.1256	-.3238	
.040			.0735	-.0016						
.041	-.1389									
.060					-.1380	-.1922	-.2598	-.3126		
.069									-.3912	
.080					-.3009					
.091				-.1172						
.066			.0898							
.094		-.0590								
.113	-.0832									
.150					-.4143	-.4705	-.6705	-.5199		
.172									-.4368	
.183			.0000							
.211				-.2942						
.214		.0219								
.240			-.1967							
.247	-.0252									
.250					-.4853	-.5606	-.6234	-.6635		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = .111 BETA (4) = 4.251

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				-.3631						
.345									-.3924	
.362		-.0700								
.390			-.3125							
.400					-.3901	-.4655		-.5147		
.402				-.3558						
.419										-.3399
.429	-.0060									
.497		-.2693								
.503									-.4228	
.547	-.1758									
.560					-.3219	-.3701				
.565				-.2376						
.600								-.3596		
.633	-.2733									
.637			-.1923							
.650							-.3142			
.670									-.3990	
.700		-.1525				-.2711				
.723										-1.3595
.725					-.2854					
.727	-.1660									
.750							-.3957	-.2885		
.760				-.2760						
.775					-.4988	-.3568				
.793	-.0360									
.799			-.2588							
.808				-.3728						
.834		-.2401								
.839			-.3335							
.850					-.1588	-.1396	-.1288			
.857				-.1695						
.862									-.3703	
.865		-.4528								
.879			-.1720							
.900		-.2157			-.0792			-.0851		
.905				-.0904						
.919			-.1039							
.950					-.0128	-.0192	-.0248			
.953				-.0225						
.965			-.0544							
.985		-.1055								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (2) = .040 BETA (5) = 8.310 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2550	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2152	-.1342	-.0425	.1955	.3555	.3049	.2812	.2575	-.2360	
.010		-.1299	-.0032		.0873	.1085	.0301	-.1427		
.020		-.1138		.0000	-.0070	-.0409	-.1035	-.1999	-.3777	
.040			.0342	-.0547						
.041	-.1666									
.050					-.1909	-.2395	-.2895	-.3671		
.069									-.4113	
.080					-.3299					
.081				-.1594						
.086			.0465							
.094		-.0722								
.113	-.1003									
.150					-.4179	-.4840	-.6518	-.5208		
.157									-.4295	
.163			.0000							
.177				-.3040						
.229		.0131								
246			-.2080							
.247	-.0373									
.250					-.4817	-.5592	-.6071	-.6401		
.274				-.3698						
.345									-.3680	
.362		-.0729								
.390			-.3129							
.400					-.4017	-.4788		-.4972		
.402				-.3733						
.418										-.4582
.429	-.0145									
.497		-.2803								
.503									-.3876	
.547	-.1865									
.570					-.3470	-.3830				
.585				-.2649						
.600								-.3488		
.633	-.2962									
.637			-.2308							
.650							-.3224			
.670									-.4082	
.700		-.1904				-.2819				
.723										-1.3375
.725					-.3039					
.727	-.2006									
.750							-.3873	-.2800		
.760				-.2997						
.775					-.5204	-.3661				

AMES 11-073(OA148) -140A/B/C/R ORB LEF, WING TOP (XE8U42)

ALPHA (2) = .040 BETA (5) = 8.310

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	-.0703									
.798			-.2803							
.808				-.3797						
.834		-.2611								
.839			-.3507							
.850					-.1702	-.1477	-.1334			
.857				-.1849						
.862									-.3450	
.865		-.4775								
.870			-.1867							
.900		-.2354			-.0943			-.0943		
.905				-.1038						
.919			-.1135							
.950					-.0250	-.0298	.0386			
.953				-.0352						
.955			-.0642							
.965		-.1258								

ALPHA (3) = 4.041 BETA (1) = -7.899 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0356	.0504	.0971	.3933	.5999	.5820	.5493	.4541	-.1697	
.010		-.0017	.0855		.0163	.0441	-.1153	-.4580		
.020		-.0195		.0000	-.1348	-.2260	-.3404	-.5357	-.6394	
.040			.0903	-.1559						
.04*	-.0462									
.050					-.4231	-.5545	-.6585	-.7400		
069									-.7441	
.080					-.6322					
.081				-.3395						
.086			.0502							
.094		-.0496								
.113	-.0285									
.150					-.6833	-.8240	-1.0839	-.8416		
.157									-.8805	
.162			.0000							
.177				-.5137						
.209		.0146								
.245			-.3506							
.247	.0005									
.250					-.6674	-.8032	-.9050	-.9777		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (3) = 4.041 BETA (1) = -7.899

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5113						
.345									-.8666	
.362		-.1486								
.390			-.4012							
.400					-.4144	-.5231		-.6606		
.402				-.3750						
.418										-.7697
.429	-.0236									
.497		-.3402								
.503									-.8762	
.547	- 2399									
.550					-.2498	-.3542				
.565				-.1571						
.600								-.4546		
.633	-.2824									
.637			-.0358							
.650							-.3188			
.670									-.7960	
.700		-.0737				-.2302				
.723										-2.4644
.726					-.1992					
.727	-.0975									
.750							-.4099	-.3939		
.772				-.1940						
.775					-.3834	-.2975				
.783	.0382									
.799			-.1721							
.808				-.2467						
.834		-.1635								
.839			-.2279							
.850					-.0761	-.0785	-.1106			
.857				-.0842						
.862									-.7216	
.865		-.4006								
.879			-.0960							
.900		-.1304			-.0138			-.0998		
.905				-.0252						
.919			-.0424							
.950					.0385	.0203	.0152			
.953				.0328						
.955			.0072							
.965		-.0474								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (3) = 3.969 BETA (2) = -3.860 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0978	-.0353	.0066	.3093	.5178	.4908	.4490	.3396	-.3224	
.010		-.0872	.0035		-.0750	-.0750	-.2340	-.5770		
.020		-.0922		.0000	-.2097	-.3023	-.4454	-.6422	-.7178	
.040			.0239	-.2226						
.041	-.1016									
.050					-.4696	-.5968	-.7143	-.8025		
.059									-.7856	
.080					-.6490					
.081				-.3725						
.086			.0012							
.091		-.0899								
.113	-.0695									
.150					-.6973	-.8271	-1.0751	-.8535		
.157									-.8800	
.163			.0000							
.177				-.5281						
.225		-.0157								
.246			-.3687							
.247	-.0340									
.260					-.6848	-.8054	-.9015	-.9612		
.274				-.5208						
.345									-.8120	
.362		-.1757								
.390			-.4274							
.400					-.4411	-.5493		-.6510		
.402				-.4078						
.416										-.9885
.429	-.0501									
.497		-.3739								
.503									-.8314	
.547	-.2819									
.550					-.2882	-.3759				
.565				-.2043						
.600								-.4546		
.633	-.3253									
.637			-.1390							
.650							-.3381			
.670									-.8793	
.700		-.1218				-.2501				
.723										-2.2767
.725					-.2288					
.727	-.1421									
.750							-.4304	-.3937		
.760				-.2156						
.775					-.4039	-.3211				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU42)

ALPHA (3) = 3.969 BETA (2) = -3.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.0508									
.798			-.1940							
.808				-.2798						
.834		-.1861								
.833			-.2579							
.850					-.1067	-.1004	-.1226			
.857				-.1135						
.862									-.7689	
.865		-.4222								
.879			-.1234							
.900		-.1544			-.0378			-.1159		
.905				-.0463						
.919			-.0587							
.950					.0188	.0024	.0035			
.953				.0156						
.955			-.0075							
.965		-.0566								

ALPHA (3) = 4.049 BETA (3) = .193 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1687	-.1508	-.1151	.2010	.4176	.3831	.3398	.2139	-.4941	
.010		-.1875	-.0886		-.1897	-.1692	-.3406	-.6663		
.020		-.1700		.0000	-.2988	-.4013	-.5158	-.7036	-.7856	
.040			-.0454	-.2803						
.041	-.1559									
.060					-.5225	-.6507	-.7452	-.8233		
.069									-.7885	
.080					-.6704					
.081				-.4066						
.086			-.0504							
.094		-.1179								
.113	-.1065									
.150					-.6885	-.8202	-1.0478	-.8385		
.157									-.8471	
.163			.0000							
.177				-.5329						
.229		-.0346								
.245			-.3796							
.247	-.0595									
.250					-.6759	-.7965	-.8784	-.9332		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (3) = 4.049 BETA (3) = .193

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				-.5277						
.345									-.7529	
.362		-.1868								
.390			-.4323							
.400					-.4627	-.5549		-.6304		
.402				-.4292						
.418										-1.1656
.470	- 0742									
.494		-.3889								
.523									-.7811	
.547	-.3026									
.550					-.3289	-.3982				
.556				-.2375						
.600								-.4521		
.623	-.3535									
.637			-.1903							
.650							-.3429			
.672									-.9473	
.700		-.1679				-.2699				
.720										-2.1966
.725					-.2525					
.727	-.1773									
.750							-.4378	-.3822		
.760				-.2469						
.775					-.4209	-.3279				
.795	.0113									
.798			-.2276							
.808				-.3095						
.827		-.2188								
.930			-.2930							
.850					-.1224	-.1084	-.1314			
.867				-.1382						
.869									-.8919	
.885		-.4672								
.879			-.1551							
.900		-.1845			-.0587			-.1139		
.905				-.0685						
.919			-.0800							
.940					-.0060	-.0176	-.0125			
.966				-.0125						
.971			-.0332							
.975		-.0774								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU42)

ALPHA (3) = 3.947 BETA (4) = 4.242 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2292	-.2657	-.2377	.0789	.3159	.2732	.2200	.0592	-.7553	
.010		-.2742	-.1640		-.3010	-.2886	-.4834	-.8003		
.020		-.2299		.0000	-.3840	-.4800	-.6176	-.8449	-.8983	
.040			-.0931	-.3222						
.041	-.1904									
.050					-.5585	-.6932	-.7953	-.9018		
.069									-.8561	
.080					-.6773					
.081				-.4203						
.086			-.0795							
.094		-.1359								
.113	-.1366									
.150					-.6775	-.8094	-1.0266	-.8423		
.157									-.8325	
.163			.0000							
.177				-.5255						
.229		-.0528								
.246			-.3702							
.247	-.0770									
.250					-.6663	-.7922	-.8723	-.9159		
.274				-.5274						
.345									-.7309	
.362		-.1939								
.380			-.4219							
.400					-.4764	-.5640		-.6323		
.402				-.4396						
.418										-1.5688
.479	-.0832									
.497		-.3961								
.503									-.7513	
.547	-.3017									
.550					-.3478	-.4035				
.565				-.2760						
.600								-.4476		
.633	-.3683									
.637			-.2461							
.650							-.3502			
.670									-.9897	
.700		-.1946				-.2810				
.723										-2.1796
.726					-.2716					
.727	-.2051									
.750							-.4302	-.3836		
.760				-.2758						
.775					-.4196	-.3242				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU42)

ALPHA (3) = 3.947 BETA (4) = 4.242

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	-.0289									
.798			-.2558							
.808				-.3401						
.834		-.2447								
.839			-.3469							
.903					-.1477	-.1305	-.1484			
.907				-.1770						
.942									-.9751	
.955		-.5050								
.959			-.1897							
.970		-.2235			-.0910			-.1267		
.974				-.1068						
.979			-.1205							
.990					-.0367	-.0372	-.0391			
.993				-.0430						
.995			-.0672							
.999		-.1190								

ALPHA (3) = 3.985 BETA (5) = 8.292 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

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	-.3087	-.4234	-.2608	-.0935	.1799	.1449	.0772	-.1091	-1.0011	
.010		-.3360	-.1325		-.4342	-.4192	-.6054	-.9023		
.020		-.2553		.0000	-.4830	-.5753	-.7303	-.9401	-.9632	
.040			-.1204	-.3576						
.041	-.2326									
.050					-.5141	-.7307	-.8375	-.9561		
.069									-.8814	
.080					-.6964					
.081				-.4179						
.085			-.1420							
.094		-.2375								
.113	-.1698									
.160					-.6752	-.7832	-1.0398	-.8401		
.167									-.7865	
.183			.0000							
.177				-.4871						
.229		-.0367								
.245			-.4578							
.247	-.0800									
.280					-.6613	-.7680	-.8344	-.8915		

AMES 11-073(OA148) -140A/B/C/R ORP LEFT WING TOP (XE8U42)

ALPHA (3) = 3.985 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				-.5003						
.345									-.6852	
.362		-.1785								
.390			-.4359							
.400					-.4843	-.5694		-.6165		
.402				-.4525						
.418										-1.8443
.439	-.0828									
.497		-.3971								
.503									-.7122	
.547	-.2394									
.550					-.3717	-.4213				
.555				-.3409						
.600								-.4262		
.633	-.3724									
.637			-.2557							
.650							-.3476			
.670									-1.1029	
.700		-.2287				-.2828				
.723										-2.0101
.725					-.2962					
.727	-.2350									
.750							-.3749	-.3677		
.760				-.3207						
.775					-.3911	-.3039				
.793	-.0817									
.798			-.2826							
.808				-.4165						
.834		-.2685								
.849			-.3783							
.860					-.1899	-.1516	-.1630			
.877				-.2041						
.882									-.8220	
.885		-.5190								
.879			-.2075							
.900		-.2557			-.1416			-.1594		
.905				-.1266						
.919			-.1305							
.950					-.0841	-.0889	-.0848			
.953				-.0537						
.955			-.0736							
.955		-.1502								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (41) = 7.905 BETA (1) = -7.888 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

BY SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0592	-.1417	-.2047	.1502	.3520	.2806	.1632	-.1079	-1.0296	
.010		-.2356	-.2082		-.6587	-.6989	-1.0289	-1.5524		
.020		-.2164		.0000	-.7582	-.9650	-1.1854	-1.6454	-1.6872	
.040			-.1575	-.5932						
.041	-.0854									
.060					-.9943	-1.2323	-1.4301	-1.5937		
.081									-1.5098	
.100					-1.1459					
.104				-.7334						
.120			-.1840							
.127		-.1455								
.138	-.0838									
.160					-1.0302	-1.2428	-1.5684	-1.2637		
.167									-1.6565	
.187			.0000							
.197				-.7801						
.214		-.0761								
.240			-.5601							
.247	-.0535									
.260					-.8650	-1.0264	-1.1465	-1.3490		
.279				-.6736						
.345									-1.3874	
.352		-.2883								
.390			-.5169							
.400					-.4833	-.6220		-.8450		
.409				-.4401						
.418										-2.1635
.429	-.1171									
.497		-.4866								
.503									-1.3745	
.547	-.3825									
.550					-.2655	-.3848				
.565				-.1971						
.600								-.5782		
.633	-.3828									
.637			-.1585							
.650							-.3576			
.670									-1.8313	
.700		-.1159				-.2333				
.723										-1.8450
.725					-.1844					
.727	-.1091									
.750							-.4205	-.5165		
.752				-.2019						
.775					-.2942	-.2570				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (4) = 7.905 BETA (1) = -7.888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1259									
.798			-.1718							
.808				-.2579						
.834		-.1680								
.839			-.2531							
.850					-.0736	-.0664	-.1511			
.857				-.1192						
.862									-1.4334	
.865		-.4702								
.879			-.1035							
.900		-.0991			-.0275			-.2251		
.905				-.0598						
.919			-.0545							
.950					.0157	.0058	-.0401			
.953				-.0089						
.955			-.0105							
.965		-.0298								

ALPHA (4) = 7.915 BETA (2) = -3.855 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.6802

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1578	-.2979	-.4055	-.0302	.1986	.1220	-.0216	-.2965	-1.3620	
.010		-.3725	-.3448		-.7933	-.8592	-1.2053	-1.7354		
.020		-.3133		.0000	-.8636	-1.0880	-1.3332	-1.8334	-1.9085	
.040			-.2444	-.6616						
.041	-.1516									
.050					-1.0457	-1.2867	-1.5158	-1.6710		
.062									-1.5501	
.080					-1.1705					
.091				-.7607						
.086			-.2409							
.094		-.1861								
.113	-.1228									
.150					-1.0307	-1.2359	-1.5275	-1.2468		
.157									-1.5596	
.163			.0000							
.177				-.7918						
.229		-.1037								
.245			-.5684							
.247	-.0857									
.250					-.8715	-1.0345	-1.1478	-1.3212		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU42)

ALPHA (4) = 7.915 BETA (2) = -3.855

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				-.6795						
.345									-1.3295	
.362		-.3116								
.389			-.5312							
.400					-.5106	-.6369		-.8326		
.408				- 4634						
.419										-2.4783
.431	-.1320									
.441		-.5274								
.458									-1.3004	
.467	-.4105									
.480					-.2993	-.4070				
.500				-.2527						
.501								-.5641		
.533	-.4092									
.547			-.1990							
.570							-.3656			
.600		-.1956							-1.7668	
.623						-.2492				
.635										-1.8995
.647	-.1677				-.2004					
.650										
.660							-.4181	-.4847		
.675				-.2240						
.693	.0593				-.2564	-.2682				
.708			-.2143							
.808				-.2899						
.834		-.1693								
.839			-.3194							
.850					-.1168	-.0848	-.1724			
.857				-.1454						
.872										
.885		-.4703							-1.5482	
.879			-.1553							
.900		-.1250			-.0816			-.2360		
.905				-.0935						
.919			-.1001							
.930					-.0499	-.0270	-.0598			
.934				-.0300						
955			-.0267							
.956		-.0359								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE2542)

ALPHA (41 = 8.038 BETA (3) = .180 MACH = .59644 Q = 594.20 P = 2385.1 RN/L = 4.8802

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	-.2560	-.5012	-.5821	-.2231	.0454	-.0466	-.1832	-.4915	-1 7023	
.010		-.4995	-.4090		-.9331	-.9904	-1.3572	-1.8312		
.020		-.3948		.0000	-.9599	-1.1767	-1.4445	-1.9542	-2.0429	
.040			-.2403	-.6903						
.041	-.2151									
.060					-1.0753	-1.3239	-1.5235	-1.7189		
.063									-1.5242	
.080					-1.1703					
.081				-.7622						
.098			-.2265							
.099		-.2157								
.118	-.1820									
.150					-1.0029	-1.2046	-1.4965	-1.2299		
.157									-1.4160	
.163			.0000							
.177				-.7640						
.209		-.1787								
.246			-.5601							
.247	-.0993									
.250					-.8599	-1.0197	-1.1331	-1.2426		
.274				-.6571						
.345									-1.2499	
.363		-.3460								
.393			-.5512							
.440					-.5201	-.6507		-.8058		
.402				-.4992						
.418										-2.7579
.469	-.1306									
.497		-.5438								
.503									-1.2053	
.517	-.4302									
.550					-.3450	-.4214				
.555				-.3032						
.600								-.5527		
.633	-.4360									
.647			-.2934							
.650							-.3770			
.670									-1.5881	
.700		-.1721				-.2537				
.723										-1.9389
.725					-.2609					
.727	-.2071									
.750							-.4092	-.4785		
.760				-.2579						
.775					-.3485	-.2414				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (4) = 8.038 BETA (3) = .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	-.0030									
.798			-.2474							
.808				-.3640						
.834		-.2171								
.837			-.3607							
.850					-.1767	-.1635	-.1901			
.857				-.1998						
.878									-1.5171	
.888		-.4737								
.879			-.1645							
.900		-.1832			-.1269			-.2536		
.905				-.1201						
.919			-.1045							
.940					-.0694	-.0649	-.0894			
.953				-.0340						
.955			-.0417							
.965		-.0955								

ALPHA (4) = 8.035 BETA (4. = 4.244 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3547	-.6478	-.5640	-.4025	-.1233	-.2223	-.4049	-.7294	-2.2358	
.010		-.4968	-.2889		-1.0409	-1.1510	-1.5470	-2.1141		
.020		-.3593		.0000	-1.0437	-1.2713	-1.5561	-2.1604	-2.1535	
.040			-.2604	-.6634						
.041	-.2830									
.050					-1.0903	-1.3453	-1.5892	-1.8653		
.069									-1.5266	
.080					-1.1383					
.081				-.6869						
.096			-.2873							
.094		-.4005								
.113	-.2276									
.150					-.9641	-1.1720	-1.5406	-1.2357		
.157									-1.4261	
.163			.0000							
.177				-.7013						
.229		-.2382								
.245			-.6545							
.247	-.1147									
.250					-.8270	-1.0022	-1.1106	-1.2116		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (4) = 8.035 BETA (4) = 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										
.274				-.6829						
.345									-1.0910	
.362		-.2735								
.390			-.7004							
.400					-.5346	-.6450		-.7923		
.402				-.5096						
.418										-2.4750
.439	-.1573									
.497		-.5229								
.503									-1.0557	
.507	-.4507									
.560					-.4072	-.4470				
.565				-.3339						
.600								-.5424		
.633	-.4611									
.637			-.2804							
.650							-.3830			
.670									-1.4059	
.700		-.2242				-.3019				
.723										-1.8566
.725					-.3441					
.727	-.2401									
.750							-.4105	-.4668		
.760				-.3556						
.775					-.5821	-.3064				
.793	-.0659									
.795			-.2700							
.808				-.4568						
.834		-.2602								
.839			-.3949							
.850					-.1615	-.1966	-.2089			
.857				-.2378						
.862									-1.4242	
.865		-.5188								
.879			-.2135							
.900		-.2517			-.1005			-.2893		
.905				-.1483						
.919			-.1366							
.950					-.0044	-.0486	-.1322			
.953				-.0623						
.955			-.0711							
.955		-.1381								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (4) = 8.035 BETA (5) = 8.296 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4688	-.7224	-.3811	-.5613	-.3274	-.4243	-.6259	-.9570	-2.5526	
.010		-.4166	-.3289		-1.1560	-1.3192	-1.7398	-2.2739		
.020		-.4081		.0000	-1.1092	-1.3673	-1.6990	-2.2677	-1.7225	
.040			-.3376	-.5415						
.041	-.3864									
.050					-1.0796	-1.3488	-1.5761	-1.9537		
.069									-1.5452	
.080					-1.0843					
.081				-.6137						
.086			-.3759							
.094		-.4270								
.113	-.2176									
.150					-.9025	-1.1249	-1.4579	-1.1829		
.157									1.3453	
.163			.0000							
.177				-.6556						
.229		-.3422								
.246			-.8220							
.247	-.1445									
.250					-.7464	-.9533	-1.0648	-1.1505		
.274				-.6589						
.345									-.9545	
.362		-.2445								
.390			-.5952							
.400					-.5783	-.6257		-.7584		
.402				-.6604						
.418										-2.1676
.429	-.1646									
.497		-.5221								
.503									-.8911	
.547	-.4477									
.550					-.4212	-.4421				
.565				-.4951						
.600								-.5108		
.633	-.4735									
.637			-.2889							
.650							-.3757			
.670									-1.3741	
.700		-.2582				-.3499				
.723										-1.4560
.725					-.3661					
.727	-.2660									
.750							-.3726	-.4591		
.760				-.3480						
.775					-.5480	-.4260				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (4) = 8.035 BETA (5) = 8.296

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	-.1136									
.798			-.2934							
.808				-.4979						
.834		-.2846								
.839			-.4135							
.950					-.2671	-.1836	-.2287			
.957				-.2457						
.982									-1.1032	
.985		-.5105								
.979			-.2291							
.900		-.2791			-.1816			-.3196		
.905				-.1470						
.919			-.1590							
.950					-.0685	-.0702	-.1693			
.953				-.0648						
.935			-.0963							
.965		-.1965								

ALPHA (5) = 11.910 BETA (1) = -7.853 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1568	-.5314	-.8242	-.4301	-.1832	-.3345	-.5234	-.8291	-2.3163	
.010		-.6185	-.6914		-1.6550	-1.7424	-2.1453	-2.6471		
.020		-.4966		.0000	-1.6360	-1.9304	-2.3489	-2.7548	-3.0008	
.040			-.5118	-1.1256						
.041	-.1523									
.050					-1.7105	-2.0825	-2.4891	-2.7290		
.059									-3.0144	
.080					-1.8021					
.081				-1.1885						
.086			-.4549							
.094		-.2244								
.113	-.1632									
.150					-1.3517	-1.6843	-2.1763	-1.9095		
.157									-2.7910	
.163			.0000							
.177				-1.0264						
.229		-.2106								
.245			-.7121							
.247	-.0922									
.250					-1.0204	-1.2259	-1.3042	-1.4829		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 11.910 BETA (1) = -7.873

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				-.7635						
.345									-2.4229	
.362		-.5110								
.390			-.6443							
.400					-.4882	-.6683		-1.0068		
.402				-.5510						
.418										-2.3583
.429	-.1980									
.497		-.8018								
.503									-2.2812	
.547	-.5304									
.550					-.3046	-.3899				
.563				-.3054						
.600								-.7388		
.633	-.4757									
.637			-.1946							
.650							-.4081			
.670									-1.7408	
.700		-.1838				-.2414				
.723										-1.7648
.725					-.2497					
.727	-.1425									
.750							-.4116	-.7788		
.760				-.1968						
.775					-.4274	-.2400				
.793	.0993									
.799			-.2608							
.818				-.2866						
.834		-.1490								
.839			-.4003							
.850					-.1884	-.1065	-.2033			
.857				-.1447						
.862									-1.3829	
.865		-.4499								
.879			-.1861							
.900		-.0911			-.1191			-.4602		
.905				-.0973						
.919			-.1154							
.950					-.0527	-.0046	-.1034			
.953				.0078						
.955			-.0452							
.955		-.0302								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 11.930 BETA (2) = -3.836 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2763	-.7505	-.9214	-.6440	-.3947	-.5396	-.7305	-1.0486	-2.5689	
.010		-.7299	-.5838		-1.7812	-1.9106	-2.3225	-2.8039		
.020		-.5174		.0000	-1.7372	-2.1247	-2.5473	-2.9195	-2.6984	
.040			-.3494	-1.1061						
.041	-.2369									
.050					-1.7503	-2.1775	-2.6634	-2.8051		
.069									-3.0052	
.080					-1.7826					
.081				-1.0894						
.086			-.3855							
.094		-.3919								
.113	-.2336									
.150					-1.3219	-1.5387	-1.7226	-1.9445		
.157									-2.7417	
.163			.0000							
.177				-.9406						
.229		-.4776								
.246			-.7781							
.247	-.1194									
.250					-.9830	-1.2192	-1.3286	-1.4169		
.274				-.8414						
.345									-2.4838	
.362		-.6506								
.393			-.6732							
.400					-.5578	-.6874		-1.0529		
.402				-.6199						
.418										-2.2351
.429	-.2128									
.497		-.7403								
.503									-2.3295	
.547	-.5687									
.550					-.4151	-.4273				
.565				-.2324						
.600								-.7725		
.633	-.5259									
.637			-.3507							
.650							-.4261			
.670									-1.6738	
.700		-.1903				-.3015				
.723										-1.6903
.725					-.3890					
.727	-.2195									
.750							-.4150	-.7788		
.760				-.2522						
.775					-.5740	-.3281				

AMES 11-073(OA148) -140A/B/C 7 ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 11.930 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	.0127									
.798			-.2584							
.808				-.3455						
.834		-.1981								
.823			-.3897							
.950					-.1816	-.1495	-.2264			
.857				-.1944						
.862									-1.3137	
.865		-.4674								
.879			-.1854							
.900		-.1588			-.1016			-.4593		
.905				-.1049						
.919			-.1241							
.950					.0205	-.0265	-.1483			
.953				-.0122						
.955			-.0537							
.965		-.0688								

ALPHA (5) = 11.966 BETA (3) = .177 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION (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	-.9217	-.9214	-.8801	-.5943	-.7702	-.9503	-1.2684	-2.6851	
.010		-.6129	-.4517		-1.9483	-2.0982	-2.5123	-2.9517		
.020		-.4848		.0000	-1.8093	-2.2647	-2.6918	-2.9627	-2.0773	
.040			-.4320	-.9624						
.041	-.3667									
.050					-1.7356	-2.2451	-2.7761	-2.8073		
.069									-2.0709	
.080					-1.6963					
.081				-.9104						
.086			-.4859							
.094		-.5313								
.113	-.2283									
150					-1.2328	-1.5372	-1.6125	-2.1256		
.157									-2.1757	
.163			.0000							
.177				-.9423						
.229		-.6964								
.245			-.8584							
.247	-.1600									
.250					-.9000	-1.1695	-1.3127	-1.4976		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U42)

ALPHA (5) = 11.966 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										
.274				-.8443						
.345									-2.1893	
.362		-.6049								
.390			-.7890							
.400					-.6333	-.6572		-.9515		
.402				-.5667						
.418										-1.9911
.429	-.2589									
.447		-.7444								
.503									-1.9654	
.547	-.5782									
.550					-.5221	-.4480				
.585				-.3552						
.600								-.6601		
.633	-.5477									
.637			-.4184							
.650							-.4105			
.670									-1.4903	
.700		-.2166				-.3555				
.703										-1.5079
.725					-.3074					
.727	-.2499									
.750							-.4008	-.5966		
.750				-.3899						
.775					-.5449	-.4245				
.793	-.0306									
.798			-.2693							
.808				-.5188						
.834		-.2317								
.839			-.4349							
.850					-.1470	-.1936	-.2531			
.857				-.2874						
.862									-1.1871	
.865		-.4967								
.879			-.2161							
.900		-.2151			-.0803			-.3516		
.905				-.2009						
.919			-.1440							
.950					-.0086	-.0712	-.1685			
.953				-.1081						
.965			-.0754							
.979		-.1141								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 11.976 BETA (4) = 4.252 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5343	-1.0062	-.6295	-.9729	-.7687	-.9701	-1.1920	-1.5146	-2.5028	
.010		-.5492	-.4917		-2.0003	-2.2541	-2.6880	-2.6008		
.020		-.5340		.0000	-1.7973	-2.4294	-2.8518	-2.5841	-1.8617	
.040			-.4934	-.7948						
.041	-.5068									
.050					-1.6103	-2.2299	-2.8292	-2.4285		
.069									-1.8152	
.080					-1.5182					
.081				-.8660						
.085			-.5253							
.094		-.5796								
.113	-.2551									
.150					-1.0864	-1.4459	-1.6440	-2.2029		
.157									-1.7145	
.163			.0000							
.177				-.8844						
.223		-.7285								
.246			-.9153							
.247	-.2082									
.250					-.8861	-1.0880	-1.2762	-1.7928		
.274				-.8215						
.345									-1.7550	
.362		-.5361								
.390			-.9106							
.400					-.6895	-.6608		-1.0096		
.402				-.7095						
.418										-1.6084
.429	-.2663									
.497		-.6836								
.503									-1.6613	
.547	-.5680									
.550					-.4573	-.5334				
.565				-.6360						
.600								-.5621		
.633	-.5611									
.637			-.3588							
.650							-.4219			
.670									-1.3659	
.700		-.2577				-.4259				
.723										-1.5001
.725					-.3893					
.727	-.2759									
.750							-.4417	-.5393		
.760				-.3984						
.775					-.5673	-.4554				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 11.976 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	-.0789									
.798			-.2861							
.808				-.5614						
.834		-.2694								
.839			-.4525							
.850					-.3249	-.1456	-.2872			
.857				-.3254						
.862									-1.0764	
.865		-.5283								
.879			-.2490							
.900		-.2734			-.2327			-.3295		
.905				-.2082						
.919			-.1664							
.950					-.1153	-.0503	-.1935			
.953				-.0356						
.955			-.0963							
.965		-.1911								

ALPHA (5) = 12.034 BETA (5) = 8.318 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6780	-1.0984	-.5760	-1.0326	-1.0124	-1.2398	-1.4362	-1.7682	-2.0521	
.010		-.6016	-.5332		-2.0381	-2.4699	-2.8865	-2.4430		
.020		-.6064		.0000	-1.7039	-2.5830	-3.0111	-2.3904	-1.7585	
.040			-.5380	-.7838						
.041	-.7052									
.060					-1.4863	-2.2040	-2.8865	-2.3041		
.080									-1.7428	
.080					-1.3237					
.081				-.8171						
.096			-.5934							
.094		-.6346								
.113	-.3451									
150					-.9879	-1.3379	-1.6266	-2.1599		
.157									-1.6532	
.163			.0000							
.177				-.8450						
.229		-.8684								
.246			-1.0577							
.247	-.2557									
.250					-.9023	-.9957	-1.1898	-1.8912		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U42)

ALPHA (5) = 12.034 BETA (5) = 8.318

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.3990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.8402						
.345									-1.5531	
.362		-.4328								
.390			-.8068							
.400					-.6667	-.7188		-1.0260		
.402				-.8715						
.418										-1.4821
.429	-.2540									
.497		-.6642								
.503									-1.5793	
.507	-.5531									
.520					-.5488	-.5939				
.565				-.6428						
.600								-.5038		
.633	-.5613									
.637			-.3542							
.660							-.4793			
.670									-1.3868	
.700		-.2929				-.4758				
.723										-1.4443
.725					-.5135					
.727	-.2954									
.750							-.5238	-.4888		
.760				-.3885						
.775					-.7027	-.4424				
.793	-.1290									
.798			-.3167							
.808				-.5649						
.834		-.2974								
.839			-.4534							
.850					-.3541	-.1671	-.3368			
.857				-.3167						
.862									-.9912	
.865		-.5400								
.879			-.2708							
.900		-.3010			-.2563			-.2970		
.905				-.2036						
.919			-.1953							
.950					-.1685	-.1044	-.2563			
.953				-.1010						
.955			-.1175							
.965		-.2582								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.0600 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 22.500 L-ELVN = 10.000
R-ELVN = 10.000 MACH = .900

ALPHA (1) = -4.070 BETA (1) = -3.850 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

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	-.4574	-.0469	-.1059	.1541	.4072	.3139	.2538	.2756	-.6436	
.010		.0319	.0543		.6075	.5719	.5367	.4456		
.020		.0469		.0000	.5428	.4915	.4619	.3994	-.3143	
.040			.1606	.3852						
.041	-.0284									
.050					.3296	.2799	.2436	.1942		
.069									-.3938	
.080					.1328					
.081				.2568						
.086			.2869							
.094		.0528								
.113	.0425									
.150					-.0962	-.1336	-.1861	-.1955		
.157									-.4920	
.163			.0000							
.177				-.0092						
.229		.1620								
.246			.0728							
.247	.0743									
.250					-.2946	-.3456	-.4071	-.5002		
.274				-.1654						
.315									-.2695	
.362		.1518								
.390			-.1409							
.400					-.2249	-.3397		-.6387		
.402				-.2018						
.418										-.2640
.429	.1564									
.497		-.0877								
.503									-.2280	
.547	.0249									
.550					-.1752	-.3354				
.565				-.0565						
.600								-.1383		
.623	-.1171									
.637			.0003							
.650							-.1441			
.670									-.6590	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8043)

ALPHA (1) = -4.070 BETA (1) = -3.800

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.720		.0433				-.1251				
.723										-.4012
.725					-.1556					
.727	.0130									
.730							-.7759	-.8002		
.735				-.1888						
.736					-.8373	-.5806				
.738	.1535									
.744			-.1737							
.803				-.8270						
.834		-.1813								
.840			-.9397							
.846					-.1879	-.2202	-.1987			
.857				-.2071						
.868									-.0885	
.874		-.8474								
.879			-.2216							
.900		-.3155			-.1205			-.1565		
.905				-.1100						
.919			-.0923							
.950					-.0611	-.1049	-.1234			
.953				-.0345						
.965			-.0284							
.965		-.0966								

ALPHA (1) = -4.069 BETA (2) = .187 MACH = .89793 Q = 599.79 P = 1060.9 RN/L = 3.6697

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	-.4875	-.0078	-.0285	.1668	.3465	.2259	.1494	.1590	-.5282	
.010		.0344	.0663		.5436	.4975	.4573	.3780		
.020		.0315		.0000	.4795	.4298	.3950	.3379	-.3719	
.030			.1450	.3296						
.041	-.0872									
.050					.2841	.2412	.2127	.1592		
.069									-.4366	
.080					.1098					
.091				.2261						
.104			.2507							
.121		.0296								
.147	.0254									
.200					-.0879	-.1264	-.1867	-.1940		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8543)

ALPHA (1) = -4.059 BETA (2) = .187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.4962	
.163			.0000							
.177				-.0123						
.229		.1344								
.246			.0590							
.247	.0547									
.260					-.2713	-.3167	-.3694	-.4925		
.274				-.1534						
.345									-.3667	
.352		.1344								
.360			-.1295							
.400					-.2190	-.3359		-.5969		
.408				-.1990						
.418										-.2565
.429	.1344									
.497		-.0895								
.503									-.2315	
.547	.0111									
.560					-.2026	-.3591				
.565				-.0884						
.600								-.2715		
.623	-.1182									
.637			-.0376							
.650							-.2982			
.670									-.4795	
.700		.0078				-.2143				
.713										-.4293
.740					-.2269					
.727	-.0147									
.750							-.4736	-.3599		
.760				-.2226						
.775					-.8626	-.4731				
.793	.1084									
.798			-.2174							
.808				-.8276						
.824		-.2257								
.833			-.8533							
.850					-.2229	-.2086	-.2073			
.857				-.2337						
.862									-.1015	
.865		-.8905								
.879			-.2420							
.900		-.3283			-.1780			-.1881		
.905				-.1650						
.911			-.1435							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (1) = -4.069 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										
.950					-.1246	-.1335	-.1492			
.953				-.1054						
.955			-.0821							
.955		-.1142								

ALPHA (1) = -4.078 BETA (3) = 4.272 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4884	.0197	.0240	.1795	.3035	.1612	.0744	.0843	-.5129	
.010		.0340	.0783		.4759	.4251	.3853	.3142		
.020		.0245		.0000	.4189	.3667	.3329	.2773	-.4347	
.040			.1396	.2805						
.041	-.0959									
.050					.2443	.1940	.1697	.1222		
.069									-.4904	
.080					.0863					
.081				.1915						
.086			.2181							
.094		.0186								
.113	.0059									
.150					-.0921	-.1308	-.1834	-.2117		
.157									-.5307	
.163			.0000							
.177				-.0133						
.229		.1184								
.246			.0454							
.247	.0506									
.250					-.2535	-.3015	-.3558	-.4805		
.274				-.1434						
.345									-.3371	
.362		.1177								
.390			-.1223							
.400					-.2175	-.3261		-.5937		
.402				-.1971						
.418										-.2688
.429	.1194									
.437		-.0930								
.538									-.3077	
.547	.0033									
.560					-.2292	-.3754				
.585				-.1148						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (1) = -4.078 BETA (3) = 4.272

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								-.4294		
.633	-.1220									
.637			-.0692							
.650							-.4371			
.670									-.2393	
.700		-.0254				-.2781				
.723										-.4171
.725					-.2787					
.727	-.0429									
.760							-.3458	-.2961		
.760				-.2570						
.775					-.8335	-.4336				
.793	.0726									
.798			-.2409							
.808				-.6938						
.834		-.2615								
.839			-.7861							
.850					-.2621	-.2511	-.2223			
.857				-.2716						
.862									-.1413	
.865		-.8960								
.879			-.2789							
.900		-.3614			-.2289			-.2148		
.905				-.2260						
.919			-.2061							
.950					-.1956	-.1713	-.1943			
.953				-.1720						
.955			-.1525							
.965		-.1633								

ALPHA (2) = -.029 BETA (1) = -3.865 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6486

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3739	.0463	.1016	.3739	.5463	.4850	.4515	.4582	-.3066	
.010		.0453	.1519		.4507	.4640	.4148	.2630		
.020		.0280		.0000	.3323	.2984	.2670	.1909	-.2670	
.040			.1865	.1959						
.041	-.1304									
.050					.0660	.0083	-.0243	-.0672		
.069									-.3865	
.080					-.1486					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (2) = -.029 BETA (1) = -3.865

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.0323						
.085			.2193							
.094		.0083								
.113	-.0320									
.150					-.3775	-.4283	-.4796	-.4495		
.157									-.6850	
.163			.0000							
.177				-.2590						
.229		.1035								
.248			-.0970							
.247	.0255									
.250					-.5294	-.6356	-.6724	-.6741		
.274				-.4041						
.345									-.7190	
.362		.0315								
.380			-.3420							
.400					-.3401	-.5193		-.9507		
.402				-.4510						
.418										-.2679
.429	.0896									
.497		-.2561								
.503									-.5513	
.547	-.1109									
.550					-.2273	-.3992				
.565				-.1099						
.600								-.1399		
.633	-.3029									
.637			-.0445							
.650							-.0889			
.670									-.6300	
.700		-.0183				-.0991				
.723										-1.0413
.725					-.1517					
.727	-.0494									
.750							-.8961	-.8034		
.760				-.1779						
.775					-.8353	-.5274				
.793	.1104									
.798			-.1675							
.808				-.8184						
.834		-.1786								
.839			-.7033							
.850					-.1622	-.1692	-.1743			
.857				-.1624						
.882									-.2879	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (2) = -.029 BETA (1) = -3.865

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		-.7686								
.879			-.1798							
.900		-.2732			-.1012			-.0193		
.905				-.0855						
.919			-.0768							
.950					-.0447	-.0671	-.0332			
.953				-.0181						
.955			-.0250							
.965		-.0848								

ALPHA (2) = -.015 BETA (2) = .186 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6486

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4088	.0166	.0893	.3521	.4976	.4141	.3846	.3778	-.3135	
.010		.0033	.1167		.3700	.3792	.3262	.1886		
.020		-.0102		.0000	.2593	.2116	.1858	.1195	-.3315	
.040			.1527	.1426						
.041	-.1886									
.060					.0101	-.0477	-.0685	-.1167		
.069									-.4307	
.080					-.1836					
.081				.0024						
.086			.1785							
.094		-.0147								
.113	-.0382									
.150					-.3744	-.4237	-.4777	-.4728		
.157									-.7261	
.163			.0000							
.177				-.2504						
.229		.0790								
.246			-.1152							
.247	.0117									
.250					-.5001	-.6181	-.6743	-.6972		
.274				-.3738						
.345									-.7157	
.352		.0142								
.380			-.3248							
.400					-.3272	-.4360		-.9184		
.402				-.4008						
.418										-.3511
.429	.0729									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (2) = -.015 BETA (2) = .186

SECTION (1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BA	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.2590								
.503									-.2765	
.547	-.1250									
.550					-.2606	-.4360				
.555				-.1390						
.600								-.1369		
.633	-.2999									
.637			-.0813							
.650							-.1787			
.670									-.5736	
.700		-.0479				-.1608				
.723										-1.1600
.725					-.2315					
.727	-.0809									
.750							-.6938	-.3757		
.760				-.2213						
.775					-.6930	-.4275				
.793	.0585									
.798			-.2079							
.808				-.5365						
.834		-.2177								
.839			-.5569							
.850					-.2084	-.1897	-.1920			
.857				-.2127						
.862									-.2435	
.865		-.7668								
.879			-.1968							
.900		-.3026			-.1726			-.1580		
.906				-.1479						
.919			-.1308							
.940					-.1201	-.1131	-.1026			
.953				-.0848						
.955			-.0829							
.965		-.1017								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (2) = -.021 BETA (3) = 4.247 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6486

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4522	-.0381	.0548	.3130	.4499	.3660	.3265	.3161	-.2957	
.010		-.0471	.0828		.2881	.2894	.2409	.0941		
.020		-.0469		.0000	.1869	.1377	.1076	.0379	-.3832	
.040			.1213	.0860						
.041	-.2863									
.060					-.0340	-.0934	-.1320	-.1841		
.069									-.4809	
.080					-.2037					
.081				-.0329						
.085			.1462							
.094		-.0255								
.113	-.0460									
.150					-.3717	-.4283	-.4888	-.5005		
.157									-.7473	
.163			.0000							
.177				-.2415						
.220		.0690								
.246			-.1216							
.247	.0010									
.250					-.4881	-.6032	-.6657	-.7167		
.274				-.3203						
.345									-.6456	
.362		.0061								
.390			-.2754							
.400					-.3146	-.4437		-.7765		
.402				-.3700						
.418										-.4616
.429	.0594									
.497		-.2496								
.503									-.2409	
.547	-.1224									
.550					-.2836	-.4544				
.565				-.1640						
.600								-.2174		
.633	-.2744									
.637			-.1165							
.650							-.3844			
.670									-.5021	
.700		-.0782				-.2738				
.723										-1.0331
.725					-.2929					
.727	-.0985									
.750							-.4615	-.3501		
.760				-.2528						
.775					-.5525	-.3909				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (B) = -.021 BETA (B) = 4.247

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.793	.0272									
798			-.2445							
808				-.4420						
.834		-.2619								
.838			- 5820							
.860					-.2495	-.2388	-.2231			
.874				-.2617						
.914									.3405	
.940		-.7387								
.944			-.2512							
.960		-.3939			-.2230			-.2253		
.974				-.2149						
.978			-.1.969							
.990					-.1932	-.1595	-.1722			
.994				- 1691						
1.005			-.1590							
1.051		-.1614								

ALPHA (B) = 3.931 BETA (B) = -3.870 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/C=										
.0	-.2984	-.0338	.0563	.4076	.6072	.5752	.5475	.4818	-.2108	
.010		-.0804	.0083		.1589	.1325	.0814	-.1603		
.020		-.0830		.0000	.0211	-.0247	-.1071	-.2437	-.5789	
.040			.1006	-.0487						
.041	-.1850									
.060					-.2573	-.3425	-.4065	-.5103		
.080									-.6539	
.100					-.4811					
.101				-.2253						
.120			.1013							
.144		-.0579								
.163	-.1004									
.181					-.7130	-.7454	-.7858	-.7504		
.201									-.9393	
.222			.0000							
.242				- 4783						
		.0478								
			-.8706							
	.0078									
					- 1727	-.0371	-.9858	-.9618		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU43)

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

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6017						
.345									-.9595	
.382		-.0697								
.390			-.5429							
.411					-.8725	-1.0331		-.9979		
.423				-.7254						
.438										-.8445
.449	.0443									
.497		-.4289								
.503									-.7364	
.547	-.2097									
.550					-.2747	-.6031				
.565				-.1958						
.600								-.6413		
.633	-.5194									
.637			-.1228							
.650							-.5659			
.670									-.5268	
.700		-.1325				-.1249				
.723										-.5294
.725					-.1757					
.727	-.1824									
.750							-.4895	-.4737		
.760				-.1693						
.775					-.7921	-.6972				
.792	.0974									
.795			-.1534							
.808				-.7412						
.834		-.1721								
.839			-.5514							
.850					-.1719	-.1575	-.2855			
.857				-.1539						
.962									-.5145	
.965		-.8094								
.979			-.1679							
.900		-.2489			-.0667			-.4275		
.905				-.0511						
.919			-.0598							
.950					.0213	-.0073	-.1097			
.953				.0234						
.975			.0006							
.995		-.0504								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (3) = 3.931 BETA (2) = .185 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/SW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3583	-.1414	-.0562	.3084	.5234	.4829	.4513	.3747	-.3491	
.010		-.1826	-.0160		.0454	.0815	-.0264	-.2690		
.020		-.1570		.0000	-.0714	-.1233	-.2019	-.3453	-.6710	
.040			.0402	-.1130						
.041	-.3609									
.060					-.3123	-.4063	-.4750	-.5737		
.069									-.7293	
.080					-.5127					
.08[illegible]				-.2666						
.09[illegible]			.0539							
.10[illegible]		-.0602								
.11[illegible]	-.1049									
.150					-.7191	-.7653	-.8094	-.7847		
.157									-.9727	
.162			.0000							
.17[illegible]				-.4873						
.189		.0305								
.20[illegible]			-.2871							
.24[illegible]	-.0274									
.260					-.7529	-.9098	-.9842	-.9778		
.274				-.5913						
.3[illegible]									-1.0611	
.30[illegible]		-.0847								
.390			-.5436							
.400					-.7925	-1.0002		-1.1178		
.40[illegible]				-.6918						
.41[illegible]										-1.0440
.429	.0219									
.43[illegible]		-.4263								
.503									-.8862	
.547	-.2236									
.550					-.3173	-.3975				
.565				-.2059						
.600								-.6732		
.633	-.5140									
.6[illegible]			-.1530							
.650							-.2694			
.670									-.6944	
.700		-.1364				-.1548				
.72[illegible]										-.6492
.725					-.2299					
.737	-.1734									
.75[illegible]							-.7546	-.5291		
.77[illegible]				-.2250						
					-.5265	-.3703				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (3) = 3.931 BETA (2) = .185

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	.0570									
.799			-.2139							
.802				-.3975						
.874		-.2341								
.879			-.4330							
.889					-.1686	-.1675	-.1324			
.950				-.1865						
.957									-.6330	
.962										
.965		-.9020								
.979			-.2018							
.900		-.2841			-.1267			-.4078		
.975				-.1289						
.919			-.1336							
.950					-.0707	-.0873	.0141			
.953				-.0859						
.986			-.0860							
.999		-.1013								

ALPHA (3) = 3.933 BETA (3) = 4.242 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

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	-.4123	-.2664	-.1671	.1908	.4181	.3824	.3427	.2450	-.5957	
.010		-.2517	-.0790		-.0796	-.0549	-.1726	-.4237		
.020		-.1946		.0000	-.1780	-.2431	-.3353	-.5055	-.8484	
.040			.0053	-.1746						
.041	-.4841									
.050					-.3863	-.4910	-.5775	-.6898		
.059									-.8493	
.080					-.5519					
.081				-.3008						
.086			.0169							
.094		-.0954								
.113	-.1174									
.150					-.7239	-.7977	-.8497	-.8458		
.157									-1.0354	
.163			.0000							
.177				-.4883						
.229		-.0029								
.245			-.2750							
.247	-.0388									
.250					-.7354	-.8683	-1.0001	-1.0168		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (3) = 3.933 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										
.274				-.5772						
.345									-1.1167	
.352		-.0952								
.390			-.5164							
.4??					-.6618	-.9448		-1.1404		
.422				-.6426						
.418										-1.3106
.489	.0107									
.4??		-.4285								
.5??									-1.1442	
.547	-.2242									
.5??					-.3303	-.4671				
.5??				-.2401						
.6??								-.6455		
.633	-.4959									
.637			-.1905							
.6??							-.2940			
.6??									-1.0285	
.7??		-.1286				-.2483				
.7??										-1.0405
.7??					-.2981					
.727	-.1738									
.7??							-.8677	-.6578		
.7??				-.2564						
.7??					-.3751	-.3827				
.793	.0123									
.7??			-.2419							
.8??				-.4068						
.834		-.2713								
.839			-.5313							
.8??					-.2414	-.2296	-.2124			
.8??				-.2590						
.8??									-.8737	
.855		-.8779								
.8??			-.2575							
.8??		-.3371			-.2264			-.2340		
.8??				-.2332						
.919			-.2118							
.9??					-.2019	-.1639	-.0247			
.9??				-.1989						
.9??			-.1692							
.9??		-.1693								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB043)

ALPHA (1) = 7.998 BETA (1) = -3.866 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

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	-.2697	-.3007	-.2885	.1975	.4743	.4523	.4041	.2653	-.6519	
.010		-.3754	-.2228		-.2996	-.2087	-.3621	-.6263		
.020		-.3111		.0000	-.3911	-.4273	-.5223	-.7271	-.9015	
.040			-.1066	-.3953						
.041	-.2094									
.060					-.6112	-.6736	-.7777	-.9276		
.064									-.7435	
.080					-.7906					
.081				-.5514						
.100			-.0815							
.104		-.1466								
.113	-.1618									
.120					-.9983	-1.0593	-1.1009	-.9976		
.124									-.6951	
.147			.0000							
.151				-.6795						
.159		-.0091								
.166			-.4311							
.247	-.0747									
.260					-1.0233	-1.1228	-.9991	-.9772		
.274				-.7753						
.346									-.7098	
.362		-.1670								
.380			-.6560							
.400					-1.0219	-.9811		-.8588		
.408				-.9117						
.418										-.7039
.443	-.0024									
.447		-.5444								
.503									-.6792	
.547	-.3332									
.560					-.4868	-.7535				
.586				-.4095						
.600								-.6779		
.603	-.6885									
.637			-.1952							
.650							-.6358			
.670									-.5725	
.700		-.2509				-.6077				
.723										-.5541
.725					-.2953					
.727	-.3319									
.750							-.5370	-.5903		
.781				-.1730						
.795					-.8192	-.5297				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (4) = 7.998 BETA (1) = -3.866

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1154									
.798			-.1685							
.802				-.8119						
.834		-.1821								
.839			-.8637							
[illegible]					-.2980	-.3400	-.4917			
[illegible]				-.2984						
.868									-.5530	
.885		-.9056								
.879			-.3416							
[illegible]		-.4123			-.1553			-.5779		
.906				-.1065						
.913			-.1757							
.950					-.0447	-.2390	-.4586			
.953				.0042						
.960			-.0743							
.966		-.1136								

ALPHA (4) = 8.005 BETA (2) = .180 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6F07

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3543	-.4921	-.4051	.0120	.3297	.3104	.2552	.1122	-.9033	
.013		-.4943	-.1950		-.4357	-.3674	-.5296	-.7780		
.023		-.3672		.0000	-.5055	-.5534	-.6507	-.8523	-.8307	
.040			-.0806	-.4511						
.041	-.3939									
.059					-.6821	-.7716	-.8769	-1.0290		
.069									-.7420	
.080					-.8443					
.081				-.5900						
.096			-.0758							
.094		-.1918								
.113	-.2097									
.150					-.9892	-1.0988	-1.1571	-1.0681		
.157									-.7344	
.165			.0000							
.177				-.6663						
.207		-.1254								
.208			-.4255							
.247	-.0880									
.251					-1.0044	-1.1987	-1.0764	-1.0551		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBL43)

ALPHA (1) = 8.036 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				-.7459						
.345									-.7417	
.352		-.1866								
.391			-.6547							
.420					-1.0235	-1.0494		-.9333		
.418				-.8363						
.478										-.7249
.428	-.0103									
.497		-.5723								
.511									-.7298	
.547	-.3478									
.581					-.4486	-.7258				
.615				-.3824						
.651								-.7162		
.656	-.7074									
.691			-.2336							
.695							-.6709			
.730									-.6295	
.731		-.2499				-.6027				
.767										-.6196
.776					-.2878					
.776	-.3434									
.780							-.5683	-.6430		
.811				-.1954						
.815					-.8870	-.6207				
.815	.0272									
.816			-.2134							
.816				-.8835						
.834		-.2108								
.834			-.9501							
.850					-.4436	-.3470	-.5279			
.857				-.5525						
.852									-.6067	
.855		-.8520								
.870			-.5841							
.870		-.5539			-.1970			-.6142		
.918				-.1755						
.910			-.2133							
.950					-.0602	-.1980	-.4811			
.953				-.0529						
.956			-.1104							
.959		-.2091								

AMES [illegible]) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (4) = 8.004 BETA (3) = 4.. = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION (1)LEFT WING TOP SURF [illegible] ABLE CP

2Y/BW	.2350	.2990	.3640	.4270	[illegible]/30	.7800	.8870	.9720	1.0000
X/CW									
.000	-.4488	-.5919	-.2477	-.1588	.1757	.1488	.0861	-.0619	-.9205
.010		-.3830	-.1813		-.5772	-.5340	-.7122	-.9438	
.020		-.3349		.0000	-.6500	-.6643	-.8254	-1.0202	-.8327
.040			-.1664	-.4161					
.041	-.5233								
.050					-.7320	-.8680	- 9827	-1.1490	
.069									-.7964
.070					-.8527				
.081				-.4921					
.085			-.1732						
.094		-.3213							
.113	-.2144								
.150					-.9243	-1.1331	-1.2084	-1.1580	
.157									-.7668
.163			.0000						
.177				-.6105					
.229		-.2421							
.246			-.5311						
.247	-.0939								
.250					-.9188	-1.1968	-1.1477	-1.1293	
.274				-.7137					
.345									-.7673
.362		-.1188							
.390			-.7082						
.400					-.9502	-1.0570		-.7768	
.402				-.8550					
.418									-.7523
.429	-.0336								
.497		-.5540							
.503									-.7791
.547	-.3454								
.550					-.4525	-.6878			
.565				-.3619					
.600								-.7613	
.633	-.6846								
.637			-.2741						
.650							-.6218		
.670									-.6681
.700		-.2635				-.4892			
.723									-.6537
.725					-.2426				
.7[illegible]	-.3219								
.7[illegible]							-.6778	-.6923	
.760				-.2613					
.775					-.9217	-.7630			

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (4) = 8.004 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	-.0398									
.799			-.2158							
.808				-.9911						
.834		-.2417								
.839			-.8627							
.850					-.4737	-.4010	-.5959			
.857				-.4841						
.862									-.6522	
.[illegible]		-.8028								
.[illegible]			-.6702							
.900		-.5855			-.2531			-.6501		
.[illegible]				-.2629						
.919			-.2696							
.950					-.1472	-.2227	-.5116			
.953				-.1569						
.955			-.1624							
.965		-.2671								

ALPHA (5) = 11.977 BETA (1) = -3.853 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2751	-.6941	-.5285	-.1967	.2078	.1831	.1287	-.0373	-.8691	
.010		-.6908	-.2624		-.7354	-.6424	-.8102	-.9868		
.020		-.5995		.0000	-.8553	-.8339	-.9547	-.9470	-.7391	
.040			-.1994	-.6675						
.041	-.2543									
.050					-.9942	-1.0318	-1.1119	-.8643		
.069									-.7018	
.080					-1.0889					
.081				-.7475						
.086			-.1807							
.094		-.3663								
.113	-.2526									
.150					-1.1871	-1.0984	-.9914	-.8403		
.157									-.6914	
.163			.0000							
.177				-.8014						
.229		-.2449								
.246			-.5663							
.247	-.1132									
.250					-1.0981	-1.0501	-.8852	-.7718		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U43)

ALPHA (5) = 11.977 BETA (1) = -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				-.8593						
.345									-.6826	
.362		-.3890								
.390			-.7716							
.400					-.9131	-.8851		-.7287		
.402				-.9196						
.418										-.6926
.423	-.0314									
.497		-.7721								
.503									-.6890	
.547	-.4831									
.550					-.8013	-.7746				
.565				-.5311						
.600								-.6918		
.633	-.8323									
.637			-.3243							
.650							-.7310			
.670									-.5872	
.700		-.2798				-.7320				
.723										-.5957
.725					-.5314					
.727	-.3050									
.750							-.6886	-.6170		
.760				-.2646						
.775					-.7564	-.6696				
.793	.0239									
.798			-.2760							
.808				-.9702						
.834		-.2473								
.839			-.9895							
.850					-.4377	-.5443	-.6494			
.857				-.5080						
.872									-.5958	
.886		-.8046								
.879			-.8012							
.900		-.6704			-.4086			-.6115		
.905				-.2899						
.919			-.3034							
.950					-.2909	-.4720	-.6301			
.953				-.1944						
.955			-.2296							
.965		-.3045								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U43)

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

ALPHA (5) = 11.988 BETA (2) = .182 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3974	-.7832	-.3368	-.3917	.0252	.0082	-.0596	-.2167	-.9655	
.010		-.5318	-.2873		-.8925	-.8014	-.9488	-.9778		
.020		-.4865		.0000	-1.0034	-.9849	-1.0988	-.8440	-.7852	
.040			-.2690	-.5530						
.041	-.4536									
.050					-1.1033	-1.1450	-1.1123	-.8097	-.7199	
.059					-1.1533					
.080				-.6382						
.081			-.2685							
.086		-.4832								
.094										
.113	-.2644				-1.2341	-1.0963	-.9887	-.7819		
.155									-.7078	
.157										
.163			.0000							
.177				-.7458						
.213		-.5917								
.246			-.5815							
.247	-.1642				-1.0191	-.9568	-.9098	-.7641		
.250										
.274				-.8492					-.7042	
.345										
.362		-.3100								
.390			-.7870							
.400					-.9176	-.9126		-.7415		
.402				-.9578						-.7102
.418										
.429	-.0713									
.497		-.7474							-.7125	
.503										
.547	-.5071				-.7850	-.8532				
.550										
.565				-.4253				-.7176		
.600										
.633	-.8576									
.637			-.3699				-.7541			
.650									-.6289	
.670						-.7277				
.700		-.3054								-.6411
.723					-.4792					
.725										
.727	-.3053						-.7244	-.6614		
.750				-.3110						
.750					-1.0310	-.6743				
.775										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU43)

ALPHA (5) = 11.988 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	.0112									
.799			-.3090							
.808				-1.0335						
.834		-.2782								
.839			-.8905							
.950					-.4535	-.5338	-.6980			
.857				-.8306						
.862									-.6194	
.865		-.7769								
.879			-.8081							
.900		-.6574						-.6462		
.905				-.3[illegible]						
.919			-.5928							
.950					-.[illegible]444	-.4775	-.6686			
.953				-.2528						
.955			-.2617							
.965		-.5231								

ALPHA (5) = 11.978 BETA (3) = 4.261 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.[illegible]270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5060	-.7288	-.3657	-.5513	-.1420	-.1715	-.2399	-.4203	-.8758	
.010		-.6244	-.3373		-1.0256	-.9505	-1.0946	-.8877		
.020		-.6237		.0000	-1.1117	-1.1109	-1.0341	-.8891	-.7928	
.040			-.3325	-.4579						
.041	-.6223									
.060					-1.1699	-1.2195	-.9712	-.8530		
.069									-.7595	
.080					-1.1386					
.081				-.5705						
.086			-.3110							
.094		-.6010								
.113	-.2415									
.160					-1.0929	-1.0205	-.8739	-.7999		
.157									-.7602	
.163			.0000							
.177				-.6799						
.229		-.6483								
.245			-.6006							
.247	-.2344									
.250					-.9031	-.9242	-.8525	-.7923		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U43)

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

ALPHA (5) = 11.978 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										
.274				-.8114					-.7500	
.345										
.382		-.3038								
.390			-.8081							
.400					-.7721	-.8819		-.7818		
.402				-.9677						-.7451
.419										
.429	-.1051									
.437		-.7291							-.7669	
.503										
.547	-.4823				-.6615	-.8328				
.560				-.4075				-.7700		
.605										
.633	-.8548									
.637			-.3236				-.8015			
.650									-.6774	
.670						-.7629				
.700		-.2591								-.6649
.723					-.4204					
.725										
.727	-.2750						-.7695	-.6980		
.750				-.4137						
.760					-1.0824	-.7799				
.775										
.793	-.0007									
.798			-.3352							
.808				-1.0711						
.834		-.2957								
.839			-.9534							
.850					-.6889	-.5304	-.7218			
.857				-.9280					-.6587	
.862										
.867		-.8143								
.879			-.7679							
.900		-.7071			-.4378			-.6831		
.905				-.5758						
.919			-.7549							
.950					-.3193	-.4068	-.6814			
.953				-.3575						
.955			-.4232							
.965		-.7023								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 22.500 L-ELVN = 10.000
R-ELVN = 10.000 MACH = .600

ALPHA (1) = -4.010 BETA (1) = -7.850 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION (1)LEFT WING TOP SURF DEPENDT VARIABLE CP

2Y BA	.2350	.2990	.3640	.4270	.5346	.6730	.7800	.8870	.9720	1.0000
.1000	-.1456	-.1316	-.2584	-.0609	.1604	.0928	.0704	.1849	-.5781	
.1010		.0084	-.0290		.6004	.5970	.5755	.4993		
.1020		.0370		.0000	.5357	.5250	.4940	.4507	-.0687	
.1040			.1192	.3519						
.1041	.0357									
.1060					.3074	.2817	.2474	.2111		
.1069									-.1175	
.1080					.0992					
.1081				.2126						
.1088			.2632							
.1094		.0567								
.1113	.0486									
.1150					-.1330	-.1627	-.2585	-.1888		
.1157									-.2044	
.1163			.0000							
.1177				-.0557						
.1229		.1458								
.1246			.0223							
.1247	.0806									
.1260					-.2836	-.3398	-.4004	-.4412		
.1274				-.1829						
.1345									-.2409	
.1352		.0945								
.1390			-.1544							
.1400					-.2386	-.3220		-.4054		
.1402				-.1945						
.1418										-.2611
.1429	.1183									
.1437		-.1012								
.1503									-.3240	
.1547	-.0134									
.1550					-.1860	-.2626				
.1555				-.0933						
.1600								-.3184		
.1612	-.1102									
.1621			-.0455							
.1650							-.2679			
.1670									-.2983	

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U44)

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

ALPHA (1) = -4.010 BETA (1) = -7.850

SECTION 1 1'LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.0020				-.2209				-.2151
.723					-.2046					
.726										
.727	-.0176						-.4075	-.2753		
.750				-.2139						
.751					-.4565	-.3208				
.773	.1083									
.775			-.1830							
.800				-.2915						
.801		-.1785								
.803			-.2594							
.826					-.0990	-.0859	-.0862			
.827				-.1057						
.850									-.0761	
.851		-.4169								
.852			-.1157							
.878		-.1414			-.0306			-.0311		
.879				-.0424						
.905			-.0539							
.919					.0340	.0117	.0353			
.951				.0231						
.953			-.0057							
.955		-.0475								
.985										

ALPHA (1) = -3.994 BETA (2) = -3.842 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.88+0

SECTION 1 1'LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1466	-.0857	-.1632	-.0142	.1511	.0556	.0002	.1069	-.5403	
.010		.0004	.0014		.5327	.5289	.5001	.4298		
.020		.0178		.0000	.4750	.4566	.4301	.3788	-.1407	
.040			.1035	.2989						
.041	-.0125				.2562	.2267	.2005	.1622		
.060									-.1766	
.061					.0680					
.080				.1752						
.081			.2242							
.101		.0256								
.102	.0178									
.122					-.1464	-.1764	-.2687	-.2068		
.150										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (1) = -3.994 BETA (2) = -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										
.157									-.2355	
.183			.0000							
.177				-.0725						
.223		.1189								
.245			-.0052							
.247	.0520									
.253					-.2948	-.3517	-.3999	-.4379		
.274				-.1953						
.345									-.2331	
.382		.0744								
.390			-.1692							
.400					-.2652	-.3366		-.4104		
.410				-.2243						
.416										-.2324
.489	.0912									
.497		-.1256								
.503									-.3026	
.547	-.0375									
.550					-.2218	-.2909				
.565				-.1347						
.600								-.3168		
.633	-.1454									
.637			-.0886							
.660							-.2817			
.670									-.2688	
.705		-.0431				-.2325				
.723										-.2424
.725					-.2354					
.727	-.0597									
.750							-.4115	-.2685		
.762				-.2416						
.775					-.4876	-.3412				
.793	.0668									
.799			-.2095							
.809				-.3298						
.824		-.1930								
.849			-.2920							
.850					-.1210	-.1058	-.1028			
.867				-.1295						
.882									-.0641	
.895		-.4384								
.879			-.1265							
.900		-.1606			-.0487			-.0516		
.905				-.0543						
.917			-.0827							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (1) = -3.994 BETA (2) = -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										
.950					.0253	.0022	.0223			
.953				.0141						
.955			-.0124							
.965		-.0512								

ALPHA (1) = -3.985 BETA (3) = .188 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.1511	-.0374	-.0870	.0470	.1384	.0380	-.0265	.0529	-.5247	
.010		.0038	.0202		.4650	.4524	.4290	.3594		
.020		.0074		.0000	.4118	.3903	.3619	.3159	-.1599	
.040			.0316	.2490						
.041	-.0544									
.060					.2096	.1806	.1590	.1184		
.080									-.2231	
.080					.0326					
.081				.1399						
.088			.1887							
.094		.0036								
.113	-.0178									
.150					-.1633	-.1865	-.2709	-.2214		
.157									-.2544	
.163			.3000							
.177				-.0865						
.200		.0953								
.246			-.0273							
.247	.0288									
.250					-.3068	-.3529	-.3981	-.4296		
.274				-.2083						
.345									- 2238	
.362		.0555								
.395			-.1831							
.400					-.2853	-.3477		-.4054		
.402				-.2482						
.418										-.2165
.429	.0675									
.497		-.1481								
.503									-.2818	
.547	-.0589									
.550					-.2497	-.3058				
.565				-.1683						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB044)

ALPHA (1) = -3.995 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										
.600								-.3043		
.633	-.1698									
.637			-.1284							
.650							-.2838			
.670									-.2380	
.700		-.0808				-.2493				
.743										-.2575
.756					-.2586					
.764	-.1010									
.780							-.4109	-.2479		
.791				-.2568						
.796					-.5044	-.3527				
.812	.0335									
.734			-.2284							
.819				-.3584						
.834		-.2168								
.850			-.3107							
.866					-.1378	-.1180	-.1095			
.877				-.1495						
.892									-.0504	
.916		-.4574								
.919			-.1420							
.930		-.1753			-.0549			-.0755		
.935				-.0695						
.939			-.0864							
.950					.0173	-.0027	.0096			
.953				.0081						
.966			-.0151							
.985		-.0592								

ALPHA (1) = -3.992 BETA (4) = 4.269 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1551	-.0190	-.0271	.0944	.1494	.0318	-.0210	.0562	-.4344	
.010		.0007	.0415		.4020	.3823	.3518	.2810		
.020		-.0083		.0000	.3444	.3176	.2887	.2386	-.2320	
.040			.0878	.2067						
.041	-.0853									
.060					.1573	.1225	.0977	.0576		
.080									-.2564	
.100					-.0033					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (1) = -3.932 BETA (4) = 4.269

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				.1086						
.096			.1664							
.094		-.0140								
.113	-.0351									
.150					-.1639	-.2146	-.2975	-.2602		
.167									-.2733	
.183			.0000							
.188				-.0972						
.226		.0799								
.248			-.0381							
.271	.0155									
.280					-.3268	-.3652	-.4090	-.4424		
.294				-.2172						
.345									-.2298	
.362		.0401								
.380			-.1949							
.401					-.3104	-.3654		-.4065		
.412				-.2697						
.418										
.439	.0543									-.1516
.457		-.1607								
.503									-.2628	
.547	-.0705									
.559					-.2843	-.3286				
.566				-.2030						
.610								-.2973		
.647	-.1896									
.657			-.1604							
.678							-.2867			
.700									-.2132	
.707		-.1207				-.2617				
.723										-.3155
.735					-.2809					
.747	-.1363									
.750							-.4043	-.2280		
.760				-.2745						
.775					-.5247	-.3633				
.783	-.0074									
.788			-.2491							
.808				-.3827						
.834		-.2354								
.839			-.3365							
.861					-.1507	-.1285	-.1153			
.867				-.1646						
.882									-.0462	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (1) = -3.992 BETA (4) = 4.269

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.866		-.1732								
.879			-.1593							
.900		-.1909			-.0596			-.0955		
.905				.0773						
.919			-.0[illegible]							
.950					.0054	-.0066	-.0071			
.952				-.0024						
.955			-.0254							
.965		-.0707								

ALPHA (1) = -4.007 BETA (5) = 8.349 MACH = .59610 Q = 593.75 P = 2367.2 RN/L = 4.8840

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	-.1668	-.0196	.0236	.1497	.1841	.0441	-.0266	.0344	-.3550	
.010		-.0034	.0568		.3296	.3128	.2754	.2065		
.020		-.0174		.0000	.2729	.2376	.2160	.1655	-.2469	
.040			.0884	.1549						
.041	-.1165									
.060					.0967	.0688	.0387	.0084		
.069									-.2749	
.080					-.0428					
.081				.0639						
.086			.1425							
.094		-.0236								
.113	-.0563									
.160					-.2010	-.2326	-.3135	-.[illegible]		
.167									-.2791	
.162			.0000							
.177				-.1173						
.239		.0852								
.248			-.0604							
.247	.0026									
.260					-.3300	-.3776	-.4120	-.44[illegible]		
.274				-.2304						
.346									.2149	
.[illegible]		.0295								
.[illegible]			-.2122							
.[illegible]					-.3211	-.[illegible]767		-.4011		
.[illegible]				-.2342						
.[illegible]										-.1228
.[illegible]	.0376									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (1) = -4.007 BETA (5) = 8.349

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1806								
.503									-.2438	
.547	-.0874									
.550					-.3054	-.3394				
.565				-.2304						
.600								-.2837		
.633	-.2135									
.637			-.1923							
.650							-.2869			
.670									-.1957	
.700		-.1593				-.2699				
.723										-.3958
.725					-.3010					
.727	-.1701									
.750							-.4032	-.2084		
.760				-.2914						
.775					-.5417	-.3750				
.793	-.0399									
.798			-.2651							
.809				-.3998						
.834		-.2583								
.833			-.3469							
.850					-.1647	-.1356	-.1142			
.857				-.1746						
.862									-.0383	
.865		-.4887								
.879			-.1623							
.900		-.2085			-.0775			-.1018		
.905				-.0870						
.919			-.0848							
.940					.0001	-.0163	-.0138			
.963				-.0053						
.955			-.0305							
.965		-.0840								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (2) = .039 BETA (1) = -7.886 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0545	.0518	.0780	.3154	.5186	.5135	.5079	.5408	-.0487	
.010		.0752	.1482		.4263	.4551	.3859	.1858		
.020		.0599		.0000	.2896	.2463	.1965	.1005	-.1557	
.040			.1804	.1517						
.041	-.0066									
.050					-.0057	-.0730	-.1249	-.1728		
.069									-.2853	
.080					-.2223					
.081				-.0284						
.085			.1984							
.094		.0229								
.113	.0108									
.150					-.3962	-.4656	-.5865	-.4878		
.157									-.4226	
.163			.0000							
.177				-.2777						
.229		.0859								
.246			-.1573							
.247	.0338									
.250					-.4753	-.5680	-.6435	-.6952		
.274				-.3481						
.345									-.4773	
.352		-.0230								
.390			-.2820							
.400					-.3380	-.4286		-.5287		
.402				-.2982						
.418										-.0935
.429	.0418									
.497		-.2264								
.503									-.5356	
.547	-.1272									
.550					-.2285	-.3143				
.565				-.1312						
.600								-.3738		
.633	-.1995									
.637			-.0775							
.650							-.2891			
.670									-.4077	
.700		-.0408				-.2229				
.723										-1.0407
.725					-.2075					
.727	-.0622									
.750							-.4156	-.3126		
.752				-.2101						
.775					-.4255	-.3086				

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U44)

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

ALPHA (2) = .039 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	.0847									
.799			-.1804							
.808				-.2720						
.834		-.1665								
.839			-.2440							
.850					-.0859	-.0825	-.0899			
.857				-.0928					-.2722	
.862										
.865		-.3952								
.879			-.1020							
.900		-.1376			-.0182			-.0544		
.905				-.0274						
.919			-.0369							
.950					.0430	.0209	.0403			
.953				.0360						
.965			.0073							
.995		-.0391								

ALPHA (2) = .052 BETA (2) = -3.866 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0993	.0315	.0760	.3059	.4888	.4659	.4481	.4743	-.0837	
.010		.0333	.1155		.3449	.3708	.2995	.0994		
.020		.0170		.0000	.2158	.1734	.1188	.0200	-.2298	
.040			.1370	.0868						
.041	-.0551									
.050					-.0590	-.1275	-.1774	-.2219	-.3343	
.069					-.2491					
.080				-.0749						
.081										
.086			.1521							
.094		-.0154								
.113	-.0291				-.4035	-.4765	-.5985	-.5084	-.4309	
.150										
.157										
.163			.0000							
.177				-.2980						
.229		.0575								
.245			-.1779							
.247	.0042				-.4928	-.5701	-.6479	-.6849		
.270										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (2) = .052 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										
.274				-.3658						
.345									-.4475	
.362		-.0510								
.390			-.3022							
.400					-.3636	-.4494		-.5325		
.402				-.3305						
.418										-.1670
.429	.0132									
.497		-.2556								
.503									-.5067	
.547	-.1563									
.550					-.2623	-.3399				
.565				-.1762						
.600								-.3708		
.633	-.2385									
.637			-.1221							
.650							-.3059			
.670									-.3968	
.700		-.0849				-.2406				
.723										-1.1668
.725					-.2363					
.727	-.1042									
.750							-.4205	-.3150		
.760				-.2318						
.775					-.4537	-.3252				
.793	.0379									
.798			-.2020							
.808				-.3097						
.834		-.1895								
.839			-.2764							
.850					-.1096	-.1046	-.1013			
.857				-.1136						
.862									-.3419	
.865		-.4058								
.879			-.1271							
.900		-.1628			-.0391			-.0664		
.905				-.0417						
.919			-.0572							
.950					.0236	.0044	.0197			
.953				.0234						
.955			-.0033							
.965		-.0499								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J44)

ALPHA (2) = .053 BETA (3) = .192 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1292	.0027	.0614	.2912	.4477	.4132	.3925	.3979	-.1260	
.010		-.0113	.0822		.2659	.2825	.2152	.0427		
.020		-.0262		.0000	.1368	.0997	.0502	-.0399	-.2698	
.040			.1038	.0397						
.041	-.1023									
.050					-.1036	-.1562	-.2236	-.2643		
.069									-.3571	
.080					-.2853					
.091				-.0978						
.095			.1126							
.094		-.0445								
.113	-.0659									
.150					-.4166	-.4739	-.5953	-.5098		
.157									-.4302	
.163			.0000							
.177				-.2949						
.223		.0332								
.246			-.2010							
.247	-.0191									
.250					-.4943	-.5720	-.6346	-.6730		
.274				-.3728						
.345									-.4188	
.362		-.0691								
.390			-.3148							
.400					-.3847	-.4644		-.5203		
.402				-.3495						
.418										-.2328
.429	-.0021									
.497		-.2672								
.503									-.4572	
.547	-.1752									
.550					-.2969	-.3556				
.565				-.2101						
.600								-.3647		
.633	-.2645									
.637			-.1584							
.650							-.3155			
.670									-.3768	
.700		-.1219				-.2559				
.723										-1.2589
.725					-.2549					
.727	-.1428									
.750							-.4129	-.3043		
.760				-.2534						
.775					-.4694	-.3357				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (2) = .053 BETA (3) = .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										
.793	.0010									
.798			-.2208							
.808				-.3382						
.834		-.2122								
.839			-.2969							
.850					-.1337	-.1238	-.1204			
.8				-.1352						
.862									-.2596	
.865		-.4162								
.879			-.1348							
.900		-.1750			-.0579			-.0813		
.905				-.0614						
.919			-.0705							
.950					.0109	-.0074	-.0014			
.953				.0069						
.955			-.0211							
.965		-.0599								

ALPHA (2) = .049 BETA (4) = 4.248 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1675	-.0512	.0191	.2496	.4057	.3630	.3472	.3355	-.1762	
.010		-.0652	.0355		.1693	.1903	.1068	-.0720		
.020		-.0685		.0000	.0617	.0253	-.0443	-.1494	-.3470	
.040			.0721	-.0118						
.041	-.1367									
.050					-.1528	-.2158	-.2822	-.3500		
.069									-.3989	
.080					.3182					
.081				-.132.						
.096			.0804							
.094		-.0617								
.113	-.0901									
.150					-.4290	-.4916	-.6209	-.5366		
.157									-.4437	
.163			.0000							
.177				-.3095						
.229		.0180								
245			-.2083							
.247	-.0302									
.250					-.5055	-.5796	-.6410	-.6787		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU44)

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

ALPHA (2) = .019 BETA (4) = 4.248

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				-.3831					-.4105	
.345										
.362		-.0776								
.390			-.3248							
.400					-.4043	-.4786		-.5198		
.402				-.3725						-.3835
.418										
.429	-.0101									
.497		-.2801							-.4418	
.503										
.547	-.1858									
.550					-.3205	-.3744				
.585				-.2432						
.600								-.3706		
.633	-.2892									
.637			-.2016							
.650							-.3175			
.670									-.4314	
.700		-.1651				-.2693				
.723										-1.4182
.725					-.2778					
.727	-.1771									
.750							-.3880	-.3017		
.760				-.2774						
.775					-.4841	-.3461				
.793	-.0413									
.799			-.2489							
.808				-.3644						
.834		-.2443								
.839			-.3142							
.850					-.1475	-.1340	-.1271			
.857				-.1570						
.862									-.4145	
.865		-.4349								
.879			-.1630							
.900		-.2004			-.0719			-.0817		
.905				-.0765						
.919			-.0869							
.950					-.0041	-.0199	-.0347			
.953				-.0133						
.955			-.0313							
.965		-.0873								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (2) = .044 BETA (5) = 8.307 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9730	1.0000
X/CW										
.000	-.2163	-.1333	-.0431	.1858	.3562	.3080	.2876	.2538	-.2621	
.010		-.1326	-.0115		.0637	.0952	.0109	-.1721		
.020		-.1160		.0000	-.0290	-.0634	-.1222	-.2237	-.4003	
.040			.0274	-.0737						
.041	-.1640									
.060					-.2225	-.2755	-.3267	-.3862		
.069									-.4273	
.080					-.3547					
.081				-.1702						
.085			.0422							
.094		-.0747								
.113	-.1028									
.150					-.4358	-.5035	-.6144	-.5388		
.157									-.4337	
.163			.0000							
.177				-.3155						
.229		.0085								
.246			-.2179							
.247	-.0413									
.260					-.5070	-.5737	-.6311	-.6616		
.274				-.3896						
.345									-.3756	
.342		-.0887								
.390			-.3234							
.400					-.4243	-.4828		-.5099		
.402				-.3882						
.410										-.5373
.440	-.0233									
.447		-.2955								
.503									-.4084	
.547	-.1981									
.550					-.3499	-.3882				
.566				-.2818						
.600								-.3514		
.633	-.3102									
.637			-.2373							
.650							-.3192			
.670									-.4515	
.700		-.1938				-.2786				
.723										-1.3799
.725					-.3006					
.727	-.2095									
.750							-.3764	-.2849		
.753				-.2931						
.775					-.4992	-.3578				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (2) = .044 BETA (5) = 8.307

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	-.0714									
.798			-.2714							
.808				-.3695						
.834		-.2576								
.879			-.3334							
.910					-.1514	-.1426	-.1389			
.957				-.1708						
.962									-.3676	
.886		-.4574								
.879			-.1765							
.910		-.2231			-.0795			-.0940		
.905				-.0946						
.919			-.1001							
.950					-.0205	-.0328	-.0511			
.953				-.0266						
.935			-.0479							
.955		-.1137								

ALPHA (3) = 3.960 BETA (1) = -7.902 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0386	.0504	.0942	.3922	.5974	.5808	.5450	.4436	-.1706	
.010		-.0057	.0913		.0185	.0240	-.1468	-.4795		
.020		-.0218		.0000	-.1414	-.2332	-.3576	-.5620	-.6631	
.040			.0887	-.1634						
.041	-.0433									
.050					-.4398	-.5526	-.6701	-.7661		
.069									-.7516	
.080					-.6463					
.081				-.3456						
.085			.0505							
.094		-.0500								
.113	-.0301									
.150					-.6931	-.8230	-.9891	-.8595		
.157									-.9012	
.163			.0000							
.177				-.5271						
.178		.0116								
.245			-.3521							
.247	-.0369									
.260					-.6785	-.8168	-.9193	-.9858		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (B) = 3.960 BETA ( ) = -7.902

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.274				-.5203						
.345									-.8824	
.362		-.1608								
.390			-.4163							
.400					-.4210	-.5320		-.6584		
.402				-.3924						
.418										-.7945
.429	-.0277									
.441		-.3526								
.502									-.9053	
.540	-.1687									
.570					-.2567	-.3595				
.590				-.1653						
.633								-.4641		
.638	-.2839									
.657			-.1059							
.695							-.3320			
.700									-.8147	
.708		-.0927				-.2284				
.735										-2.4747
.744					-.1923					
.746	-.1022									
.760							-.4256	-.4113		
.775				-.1888						
.785					-.3795	-.2909				
.793	.0867									
.798			-.1708							
.818				-.2451						
.824		-.1601								
.839			-.2271							
.850					-.0732	-.0840	-.1044			
.870				-.0819						
.898									-.7533	
.906		-.4000								
.919			-.0936							
.921		-.1205			-.0102			-.0956		
.935				-.0196						
.940			-.0312							
.963					.0423	.0224	.0185			
.965				.0386						
.965			.0163							
.965		-.0234								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (31) = 3.964 BETA (21) = -3.864 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2500	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cm										
.000	-.1037	-.0420	-.0021	.2988	.5085	.4805	.4421	.3167	-.3505	
.010		-.0340	.0038		-.0992	-.0885	-.2583	-.6060		
.020		-.0378		.0300	-.2241	-.3159	-.4574	-.6832	-.7708	
.040			.0155	-.2370						
.041	-.1075									
.060					-.4980	-.6194	-.7338	-.8315		
.078									-.8191	
.081					-.6645					
.101				-.3844						
.106			-.0083							
.104		-.0340								
.113	-.0756									
.120					-.7108	-.8419	-.9867	-.8673		
.138									-.9142	
.163			.0000							
.171				-.5472						
.200		-.0235								
.208			-.3816							
.247	-.0382									
.260					-.6989	-.8185	-.9180	-.9771		
.274				-.5354						
.276									-.8411	
.298		-.1851								
.300			-.4383							
.320					-.4522	-.5551		-.6544		
.322				-.4243						
.348										-1.0580
.353	-.0630									
.400		-.3394								
.403									-.8697	
.447	-.3034									
.460					-.2910	-.3827				
.465				-.2143						
.520								-.4701		
.533	-.3350									
.537			-.1561							
.550							-.3424			
.570									-.9404	
.600		-.1350				-.2478				
.623										-2.3259
.625					-.2251					
.647	-.1508									
.650							-.4306	-.4082		
.670				-.2202						
.696					-.3938	-.3155				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA B = 3.864 BETA B = -3.864

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.0000	.0410									
.0050			-.1930							
.0100				-.2747						
.0150		-.1856								
.0200			-.0994							
.0250					-.0892	-.0989	-.1218			
.0300				-.1087						
.0350									-.8089	
.0400		-.1400								
.0450			-.0111							
.0500		-.0535			-.0371			-.1112		
.0550				-.0421						
.0600			-.0788							
.0650					0171	.0084	.0008			
.0700				.0129						
.0750			-.0055							
.0800		-.0307								

ALPHA B = 3.909 BETA B = .189 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/B	.0350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.0000	-.1661	-.1494	-.1226	.1874	.4187	.3811	.3359	.2090	-.5221	
.0050		-.1973	-.0941		-.1920	-.1921	-.3569	-.6812		
.0100		-.1781		.0000	-.3163	-.4115	-.5426	-.7419	-.9084	
.0150			-.0431	-.2840						
.0200	-.1456									
.0250					-.5379	-.6502	-.7638	-.8494		
.0300									-.8155	
.0350				-.6775						
.0400				-.4123						
.0450			-.0540							
.0500		-.1304								
.0550	-.1101				-.7083	-.8363	-.9674	-.8451		
.0600									-.8670	
.0650			.0000							
.0700				-.5401						
.0750		-.0372								
.0800			-.0887							
.0850	-.0778									
.0900					-.6859	-.8143	-.8909	-.9426		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (α) = 3.969 BETA (β) = .183

SECTION 1 : LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/SW	.0450	.2350	.3540	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.127				-.5394						
.345									-.7851	
.362		-.1942								
380			-.4445							
.400					-.4728	-.5650		-.6368		
.402				-.4389						
.418										-1.2759
.459	-.0767									
.481		-.3378								
.503									-.7922	
.547	-.3127									
.561					-.3360	-.3926				
.606				-.2430						
.611								-.4663		
.627	-.2334									
.647			-.2013							
.650							-.3492			
.671									-.9500	
.693		-.1731				-.2636				
.715										-2.2638
.716					-.2483					
.737	-.1951									
.739							-.4304	-.3944		
.760				-.2369						
.775					-.4055	-.3213				
.793	.0057									
.798			-.2251							
.818				-.2365						
.841		-.2164								
.844			-.2871							
.861					-.1185	-.1071	-.1310			
.867				-.1266						
.872									-.9247	
.905		-.4502								
.919			-.1448							
.920		-.1764			-.0556			-.1111		
.935				-.0646						
.939			-.0727							
.950					-.0015	-.0152	-.0129			
.953				-.0055						
.975			-.0240							
.985		-.0600								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (B) = 3.972 BETA (W) = 4.243 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/C	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8970	.9720	1.0000
Y/B										
.000	-.2288	-.2737	-.2268	.0679	.3082	.2548	.1954	.0188	-.8186	
.010		-.2687	-.1728		-.3189	-.3345	-.5302	-.8464		
.020		-.2306		.0000	-.4086	-.5198	-.6646	-.9142	-.9727	
.040			-.0920	-.3393						
.041	-.1917									
.060					-.5803	-.7339	-.8434	-.9457		
.080									-.9007	
.080					-.7064					
.081				-.4391						
.100			-.0970							
.101		-.1358								
.118	-.1336									
.140					-.7059	-.8384	-.9797	-.8820		
.160									-.8655	
.160			.0000							
.177				-.5383						
.180		-.0579								
.200			-.3785							
.217	-.0906									
.240					-.6932	-.8093	-.8942	-.9416		
.274				-.5317						
.280									-.7664	
.282		-.1976								
.300			-.4344							
.320					-.4909	-.5754		-.6408		
.322				-.4538						
.340										-1.6914
.342	-.0872									
.357		-.4113								
.380									-.7998	
.387	-.3205									
.400					-.3595	-.4188				
.405				-.2843						
.420								-.4569		
.443	-.3789									
.457			-.2574							
.480							-.3622			
.480									-1.0678	
.500		-.2024				-.2792				
.518										-2.2177
.540					-.2713					
.557	-.2099									
.580							-.4201	-.4053		
.620				-.2695						
.640					-.3333	-.3077				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (3) = 3.972 BETA (4) = 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										
.783	-.0349									
.798			-.2418							
.809				-.3239						
.834		-.2374								
.839			-.3304							
.850					-.1358	-.1338	-.1542			
.857				-.1616						
.862									-1.0287	
.865		-.4939								
.879			-.1686							
.900		-.2100			-.0831			-.1258		
.905				-.0979						
.919			-.1010							
.950					-.0434	-.0419	-.0406			
.953				-.0364						
.965			-.0531							
.966		-.1034								

ALPHA (3) = 3.982 BETA (5) = 8.290 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3040	-.4337	-.2650	-.1091	.1571	.1113	.0524	-.1320	-1.0988	
.010		-.3291	-.1385		-.4633	-.4634	-.6530	-.1547		
.020		-.2529		.0000	-.5173	-.6094	-.7617	-1.0195	-1.0013	
.040			-.1299	-.3695						
.041	-.2310									
.050					-.6388	-.7502	-.8846	-.9852		
.069									-.9244	
.080					-.7281					
.081				-.4274						
.096			-.1529							
.094		-.2414								
.113	-.1703									
.150					-.6964	-.8086	-.9859	-.8017		
.157									-.8272	
.163			.0000							
.177				-.4963						
.229		-.0407								
.245			-.4706							
.247	-.0906									
.250					-.6816	-.7870	-.8684	-.9027		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (3) = 3.982 BETA (5) = 8.290

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5310	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5149						
.345									-.7198	
.362		-.1827								
.390			-.4596							
.400					-.4984	-.5847		-.6269		
.402				-.4589						
.418										-1.9733
.429	-.0929									
.437		-.3937								
.443									-.7492	
.547	-.3210									
.560					-.3765	-.4266				
.565				-.3528						
.600								-.4405		
.633	-.3042									
.637			-.2591							
.650							-.3454			
.670									-1.1826	
.700		-.2335				-.2801				
.723										-1.9943
.735					-.2929					
.727	-.2406									
.750							-.3628	-.3880		
.760				-.3255						
.775					-.3772	-.2887				
.793	-.0890									
.798			-.2704							
.808				-.4119						
.834		-.2669								
.839			-.3615							
.850					-.1942	-.1593	-.1626			
.857				-.2051						
.862									-.8312	
.865		-.5038								
.879			-.1987							
.900		-.2501			-.1527			-.1539		
.905				-.1205						
.919			-.1225							
.930					-.0875	-.0919	-.0910			
.943				-.0489						
.955			-.0604							
.966		-.1424								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (4) = 8.025 BETA (1) = -7.890 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

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	-.0680	-.1511	-.2314	.1336	.3332	.2501	.1277	-.1505	-1.0989	
.010		-.2525	-.2291		-.6779	-.7526	-1.0993	-1.6377		
.020		-.2214		.0000	-.7840	-.9925	-1.2618	-1.7412	-1.8030	
.040			-.1746	-.6156						
.041	-.0936									
.050					-1.0321	-1.2795	-1.4914	-1.6773		
.059									-1.5464	
.090					-1.1808					
.091				-.7522						
.096			-.1967							
.094		-.1506								
.113	-.0753									
.150					-1.0701	-1.2592	-1.4608	-1.3094		
.157									-1.7505	
.163			.0000							
.177				-.8091						
.229		-.0813								
.246			-.5705							
.247	-.0554									
.250					-.8878	-1.0582	-1.1690	-1.3854		
.274				-.6975						
.345									-1.4409	
.362		-.3012								
.390			-.5341							
.400					-.4934	-.6385		-.8568		
.402				-.4543						
.418										-2.2362
.449	-.1267									
.457		-.4971								
.493									-1.4042	
.547	-.4040									
.550					-.2668	-.3941				
.565				.2105						
.600								-.5873		
.633	-.3990									
.647			-.1652							
.650							-.3660			
.670									-1.8684	
.700		-.1331				-.2337				
.723										-1.8561
.725					-.1869					
.727	-.1115									
.750							-.4211	-.5331		
.750				-.2061						
.775					-.2789	-.2520				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (4) = 8.025 BETA (1) = -7.890

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	.1203									
.798			-.1749							
.808				-.2610						
.834		- 1725								
.839			-.2484							
.850					-.0746	-.0754	-.1557			
.857				-.1156						
.868									-1.4526	
.876		-.4527								
.879			-.1032							
.900		-.0851			-.0300			-.2318		
.905				-.0554						
.919			-.0558							
.950					.0074	.0058	-.0512			
.953				-.0058						
.955			-.0101							
.965		-.0110								

ALPHA (4) = 8.036 BETA (2) = -3.859 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1590	-.3067	-.4145	-.0457	.1893	.0950	-.0505	-.3441	-1.4471	
.010		-.3747	-.3522		-.8252	-.8919	-1.2739	-1.7905		
.020		-.3172		.0000	-.9115	-1.1135	-1.3846	-1.9499	-2.0067	
.040			-.2604	-.6756						
.041	-.1564									
.050					-1.0856	-1.3270	-1.5524	-1.7406		
.069									-1.5916	
.080					-1.2134					
.081				-.7899						
.086			-.2589							
.094		-.1827								
.113	-.1282									
.130					-1.0637	-1.2667	-1.4432	-1.2613		
.157									-1.6609	
.183			.0000							
.177				-.8070						
.209		-.1026								
.245			-.5849							
.247	- 0879									
.250					-.8924	-1.0592	-1.1852	-1.3438		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (4) = 8.036 BETA (2) = -3.859

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				-.7051						
.345									-1.3637	
.362		-.3238								
.390			-.5416							
.400					-.5218	-.6505		-.8454		
.402				-.4781						
.418										-2.5281
.429	-.1450									
.497		-.5406								
.503									-1.3419	
.547	-.4309									
.550					.5038	-.4154				
.565				-.2650						
.600								-.5815		
.633	-.4234									
.637			-.2057							
.650							-.3736			
.673									-1.8142	
.700		-.2057				-.2489				
.723										-1.9522
.725					-.1992					
.727	-.1783									
.750							-.4187	-.4913		
.760				-.2288						
.775					-.2530	-.2689				
.793	.0547									
.798			-.2225							
.819				-.2933						
.834		-.1713								
.849			-.3277							
.850					-.1180	-.0867	-.1775			
.867				-.1395						
.882									-1.5755	
.885		-.4595								
.879			-.1553							
.900		-.1194			-.0862			-.2460		
.905				-.0919						
.919			-.0863							
.950					-.0425	-.0282	-.0739			
.953				-.0278						
.955			-.0255							
.965		-.0301								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (4) = 8.040 BETA (3) = .178 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2553	-.4925	-.5914	-.2628	.0020	-.0780	-.2309	-.5475	-1.8103	
.010		-.5032	-.4099		-.9972	-1.0647	-1.4493	-1.9212		
.020		-.3991		.0000	-1.0183	-1.2210	-1.5186	-2.0578	-2.1627	
.040			-.2484	-.7332						
.041	-.2098									
.050					-1.1282	-1.3793	-1.6012	-1.8088		
.059									-1.5442	
.080					-1.2027					
.081				-.7823						
.086			-.2363							
.094		-.2193								
.113	-.1859									
.150					-1.0369	-1.2325	-1.4732	-1.2687		
.157									-1.4668	
.163			.0000							
.177				-.7740						
.203		-.1901								
.246			-.5843							
.247	-.1026									
.250					-.8856	-1.0561	-1.1675	-1.2971		
.274				-.6761						
.345									-1.2833	
.352		-.3659								
.380			-.5679							
.400					-.5296	-.6585		-.8305		
.402				-.5221						
.418										-2.8137
.429	-.1447									
.497		-.5599							-1.2204	
.503										
.547	-.4533				-.3477	-.4276				
.550										
.565				-.3088						
.600								-.5673		
.633	-.4519									
.637			-.2968							
.650							-.3860			
.670									-1.6636	
.700		-.1721				-.2630				
.723										-1.9673
.725					-.2581					
.727	-.2207									
.750							-.4219	-.4935		
.760				-.2550						
.775					-.3401	-.2325				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (4) = 8.040 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	-.0106									
.798			-.2453							
.808				-.3658						
.834		-.2112								
.839			-.3588							
.850					-.1783	-.1663	-.1965			
.857				-.1955						
.882									-1.5774	
.885		-.4638								
.879			-.1611							
.900		-.1805			-.1217			-.2645		
.905				-.1139						
.919			-.0920							
.950					-.0641	-.0596	-.0904			
.953				-.0232						
.955			-.0329							
.965		-.0658								

ALPHA (4) = 8.039 BETA (4) = 4.241 MACH = .59618 Q = 593.73 P = 1366.3 PN/L = 4.8652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3502	-.6578	-.5723	-.4328	-.1595	-.2736	-.4581	-.8030	-2.3517	
.010		-.5009	-.2767		-1.1057	-1.2380	-1.6833	-2.2269		
.020		-.3650		.0000	-1.0872	-1.3597	-1.6724	-2.3078	-2.1960	
.040			-.2618	-.6790						
.041	-.2815									
.050					-1.1373	-1.4099	-1.6784	-2.0215		
.069									-1.5877	
.080					-1.1801					
.081				-.6939						
.086			-.2976							
.094		-.4024								
.113	-.2173									
.150					-1.0061	-1.2036	-1.4748	-1.2651		
.157									-1.4991	
.163			.0000							
.177				-.7150						
.229		-.2685								
.245			-.6729							
.247	-.1130									
.250					-.8560	-1.0298	-1.1457	-1.2527		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (4) = 9.039 BETA (4) = 4.241

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				-.6891						
.345									-1.1019	
.392		-.2760								
.391			-.7219							
.441					-.5476	-.6631		-.8130		
.476				-.5117						
.4										-2.4722
.4	-.1554									
.4		-.5338								
.5									-1.0857	
.5	-.4626									
.5					-.4253	-.4519				
.5				-.3462						
.5								-.5624		
.6	-.4690									
.6			-.2917							
.6							-.3926			
.6									-1.4461	
.7		-.2287				-.3061				
.7										-1.8530
.7					-.3454					
.7	-.2487									
.7							-.4157	-.4864		
.7				-.3504						
.7					-.5780	-.3235				
.7	-.0654									
.7			-.2660							
.8				-.4403						
.8		-.2445								
.8			-.3939							
.8					-.1507	-.1969	-.2157			
.8				-.2261						
.8									-1.3941	
.8		-.4985								
.9			-.1983							
.9		-.2339			-.0897			-.3185		
.9				-.1384						
1.0			-.1254							
1.0					.0034	-.0435	-.1324			
1.0				-.0469						
1.0			-.0557							
1.0		-.1271								

AMES 11-073/OA148) -140A/B/C/R ORB LEFT WING TOP (XE8044)

ALPHA +1 = 8.739 BETA (5) = 8.285 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.0652

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/ CW	.2350	.2390	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CW										
000	-.4786	-.7421	-.4046	-.5951	-.3740	-.4869	-.7034	-1.0402	-2.5934	
010		-.4302	- 3543		-1.2097	-1.3992	-1.8415	-2.4367		
020		- 4178		.0000	-1.1643	-1.4487	-1.8135	-2.4188	-1.7313	
040			-.3629	-.5582						
041	-.3837									
060					-1.1334	-1 4229	-1.8819	-2.1420		
080									-1.6090	
081					-1.1170					
100				-.6346						
120			-.3910							
121		- 4362								
140	-.2254									
160					-.9305	-1.1570	-1.3961	-1.2370		
180									-1.4016	
181			.0000							
200				-.6798						
220		-.3720								
221			-.8482							
240	-.1456									
260					-.7749	-.9751	-1.0845	-1.1902		
280				-.6829						
281									-1.0038	
300		- 2545								
320			-.6248							
340					-.6029	-.6388		-.7785		
360				-.6796						
361										-2.1028
380	- 1733									
381		-.5468								
382									-.9524	
400	-.4095									
420					-.4366	-.4647				
440				-.5097						
460								-.5304		
480	-.4657									
481			-.3017							
500							-.3890			
520									-1.4408	
540		-.2682				-.3585				
560										-1.4429
580					-.3722					
600	-.2802									
620							-.3867	-.4871		
640				-.3439						
660					-.5497	-.4273				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE [illegible] 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073 OA148) -140A B/C P CPB LEFT WING TOP (XEB044)

ALPHA ( ) = 8.0?8 BETA (5) = 8.285

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2710	.3330	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.??8									
[illegible]			-.2872							
[illegible]				-.5022						
[illegible]		-.2889								
[illegible]			-.4051							
[illegible]					-.2716	-.1789	-.2474			
[illegible]				-.2417						
[illegible]									-1.1393	
[illegible]		-.4309								
[illegible]			-.3305							
[illegible]		-.1694			-.1773			-.3484		
[illegible]				-.1453						
[illegible]			-.5[illegible]							
[illegible]					-.0733	-.0670	-.1743			
[illegible]				-.0323						
[illegible]			-.0338							
[illegible]		-.1?64								

ALPHA ( ) = 12.02? BETA ( ) = -? 852 MACH = .59515 Q = 593.74 P = 2386.7 RN/L = 1.8554

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2310	.2330	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
[illegible]	-.1685	-.6435	-.9510	-.4613	-.2218	-.3705	-.5302	-.8741	-2.3711	
[illegible]		-.6?76	-.7107		-1.7?13	-1.8044	-2.1984	-2.6934		
[illegible]		-.?0?4		.0000	-.6934	-1.9060	-2.1396	-2.8041	-3.0413	
[illegible]			-.5253	-1.1060						
[illegible]	-.1020									
[illegible]					-1.7610	-2.1131	-2.5632	-2.8760	-3.0540	
[illegible]					-.8343					
[illegible]				-.3003						
[illegible]			-.4653							
[illegible]		-.2323								
[illegible]	-.1619				-1.38??	-1.7872	-2.3737	-2.0227	-2.7957	
[illegible]			.0000	-1.0362						
[illegible]		-.2183								
[illegible]			-.7440							
[illegible]	-.01?9				.0060	-1.2294	-1.2981	-1.4727		

AMES 11-073'OA148: -140A/B/C R CRB LEFT WING TOP (XEBU+4)

[illegible] = 18.081 BETA [illegible] = -7.852

[illegible] LEFT WING TOP SURF DEPENDENT VARIABLE CP

[illegible]	.0040	.0190	.0440	.1270	.5340	.6730	.7800	.9870	.9720	1.0000
[illegible]				-.3771						
[illegible]									-2.4247	
[illegible]		- 8388								
[illegible]			-.6560							
[illegible]					-.4949	- 6769		-1.0273		
[illegible]				-.5726						
[illegible]										-2.3235
[illegible]	- 01 8									
[illegible]		- 8789								
[illegible]									-2 2396	
[illegible]	- 5478									
[illegible]					-.3.67	-.3988				
[illegible]				-.3087						
[illegible]								- 7664		
[illegible]	- 4095									
[illegible]			- 6071							
[illegible]							-.4221			
[illegible]									-1.7212	
[illegible]		- .89				-.2469				
[illegible]										-1.7241
[illegible]					-.2593					
[illegible]	- .1999									
[illegible]							-.4310	-.8232		
[illegible]				-.1957						
[illegible]					-.4384	-.3416				
[illegible]	.1007									
[illegible]			-.2633							
[illegible]				-.2870						
[illegible]		- 439								
[illegible]			-.4059							
[illegible]					-.1927	-.1131	-.2078			
[illegible]				- 1488						
[illegible]									-1.3857	
[illegible]		-.4348								
[illegible]			-.1735							
[illegible]		-.0732			-.1236			-.5109		
[illegible]				- 0950						
[illegible]			- 1116							
[illegible]					- 0653	-.0035	-.1087			
[illegible]				.0154						
[illegible]			-.0343							
[illegible]		-.0041								

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073 OA148 -1+OA/B C/R OFB LEFT WING TOP (XE8544)

ALPHA = 11.830 BETA = -3.840 MACH = .59816 Q = 893.74 P = 2386.7 RN/L = 4.8654

SECT ON LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/C	.0250	.0930	.2540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.2724	-.7581	-.3378	-.6851	-.4816	-.5571	-.7754	-1.0846	-2.5807	
.010		-.7289	-.5059		-1.8177	-1.9539	-2.3645	-2.8332		
.020		-.6848		.0010	-1.7637	-2.1749	-2.5356	-2.9439	-2.7181	
.030			-.3780	-.1227						
.040	-.2409									
.050					-1.7784	-2.2527	-2.7010	-2.7914		
.060					-1.7203				-3.0272	
.070				-1.1141						
.080			-.3919							
.090		-.4010								
.100	-.8995									
.120					-1.3441	-1.5827	-1.9293	-2.0167		
.140									-2.7346	
.160			.0000							
.180				-.9514						
.200		-.4869								
.220			-.7944							
.240	-.1837									
.260					-1.0261	-1.2354	-1.3532	-1.6116		
.280				-.2679						
.300									-2.4033	
.320		-.8730								
.340			-.6880							
.360					-.5638	-.6977		-1.0881		
.380				-.6440						
.400										-2.2140
.420	-.2123									
.440		-.7678								
.460									-2.2812	
.480	-.5787									
.500					-.4222	-.4326				
.520				-.2429						
.540								-.8063		
.560	-.5384									
.580			-.3678							
.600							-.4351			
.620									-1.5432	
.640		-.1992				-.3094				
.660										-1.6023
.680					-.3359					
.700	-.2880									
.720							-.4252	-.8058		
.740				-.2493						
.760					-.5739	-.3259				

AMES 11-073(CA148) -140A/B/C/P ORB LEFT WING TOP (XEB344)

ALPHA (5) = 11.932 BETA (2) = -3.840

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	.0027									
.798			-.2593							
.808				-.3459						
.834		-.1945								
.838			-.3953							
.850					-.1843	-.1472	-.2277			
.[illegible]				-.1899						
.[illegible]									-1.2303	
.[illegible]		-.4614								
.879			-.1880							
.[illegible]		-.1569			-.1049			-.5372		
.[illegible]				.0993						
.[illegible]			-.1167							
.[illegible]					.0185	-.0369	-.1461			
.[illegible]				-.0115						
.[illegible]			-.0035							
.[illegible]		-.0887								

ALPHA (5) = 11.946 BETA (3) = .176 MACH = .59616 Q = 533.74 P = 2386.7 PT/L = -.8654

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	-.4182	-.9313	-.9436	-.8976	-.6221	-.7914	-.9709	-1.2869	-2.6660	
.010		-.8883	-.4649		-2.0070	-2.1205	-2.5509	-2.9287		
.020		-.4894		.0000	-1.8464	-2.3247	-2.7247	-2.8508	-2.0349	
.040			-.4355	-.9917						
.041	-.3674									
.060					-1.7681	-2.3199	-2.8167	-2.7139		
.080									-1.9867	
.080					-1.7335					
.081				-.9393						
.096			-.5035							
.094		-.5394								
.113	-.2281									
.150					-1.2518	-1.5479	-1.5431	-2.2064		
.157									-2.0899	
.153			.0000							
.177				-.9593						
.200		-.7131								
.[illegible]			-.6054							
.217	-.1636									
.250					-.9158	-1.1813	-1.3443	-1.7100		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XESL44)

ALPHA (S) = 11.946 BETA (B) = .176

... LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/C	.0380	.0880	.1540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.034				-.8771						
.345									-1.9829	
.002		-.6350								
.001			-.3064							
.011					-.6477	-.6670		-1.0100		
.018				-.5885						
.030	-.2835									-1.8092
.044		-.7830								
.073									-1.8340	
.104	- 9051									
.145					-.5282	-.4560				
.197				-.3728						
.302	- 57.4							-.6321		
.397			-.4375							
.500							-.4077			
.601									-1.4370	
.702		-.2272				-.3601				
.802										-1.5409
.901					-.3109					
.951	-.2528									
.975							-.3997	-.6217		
.985				-.4008						
.995					-.5395	-.4297				
1.000	-.0423									
1.005			-.2765							
1.010				-.5119						
1.021		-.2309								
1.043			-.4479							
1.082					-.1467	-.1945	-.2556			
1.157				-.2390						
1.262									-1.1804	
1.363		-.4972								
1.479			-.2206							
1.601		-.2134			-.0794			-.3706		
1.705				-.2031						
1.819			-.1404							
1.900					- 0028	-.0735	-.1713			
1.953				-.0398						
1.985			-.0712							
1.995		-.1166								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU44)

ALPHA (5) = 11.941 BETA (4) = 4.247 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.9654

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	-.5295	-1.0206	-.6374	-1.0009	-.8245	-1.0162	-1.2183	-1.5364	-2.4465	
.010		-.5540	-.5041		-2.0640	-2.2980	-2.7130	-2.4947		
.020		-.5335		.0000	-1.8874	-2.4877	-2.8796	-2.4561	-1.7957	
.040			-.5044	-.8000						
.041	-.4995									
.050					-1.6390	-2.3140	-2.8698	-2.3358		
.069									-1.7890	
.080					-1.5580					
.091				-.8778						
.096			-.5500							
.094		-.5870								
.113	-.2621									
.150					-1.1232	-1.4833	-1.5649	-2.1760		
.157									-1.6921	
.163			.0000							
.177				-.9035						
.229		-.7499								
.246			-.9358							
.247	-.2124									
.250					-.9101	-1.1140	-1.3073	-1.9504		
.274				-.8446						
.343									-1.6071	
.362		-.5476								
.390			-.9465							
.400					-.6985	-.6724		-1.1803		
.402				-.7255						
.418										-1.5495
.429	-.2737									
.497		-.7020								
.503									-1.5574	
.547	-.5856									
.550					-.4742	-.5481				
.565				-.6606						
.600								-.5863		
.633	-.5806									
.637			-.3771							
.650							-.4269			
.670									-1.3443	
.700		-.2646				-.4428				
.723										-1.5009
.725					-.4020					
.727	-.2877									
.750							-.4316	-.5816		
.760				-.4150						
.775					-.5702	-.4590				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XE8U44)

ALPHA (5) = 11.941 BETA (4) = 4.247

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.1007									
.798			-.2879							
.808				-.5712						
.824		-.2698								
.839			-.4535							
.860					-.3301	-.1455	-.2767			
.867				-.3339						
.882									-1.0754	
.885		-.5227								
.879			-.2505							
.900		-.2750			-.2389			-.3441		
.905				-.2163						
.918			-.1665							
.930					-.1174	-.0492	-.1934			
.953				-.1071						
.955			-.0970							
.965		-.1961								

ALPHA (5) = 11.928 BETA (5) = 8.307 MACH = .5961 6 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6866	-1.1060	-.5886	-1.0578	-1.0422	-1.2636	-1.4925	-1.8013	-2.0125	
.010		-.6070	-.5367		-2.1051	-2.4858	-2.9094	-2.4148		
.020		-.6257		.0000	-1.7842	-2.6409	-3.0240	-2.3752	-1.7426	
.040			-.5488	-.7964						
.041	-.7173									
.050					-1.5252	-2.2328	-2.9229	-2.2830		
.059									-1.7216	
.080					-1.3556					
.081				-.8335						
.096			-.6024							
.099		-.6368								
.113	-.3400									
.150					-1.0228	-1.3784	-1.5497	-2.1567		
.157									-1.6427	
.158			.0000							
.177				-.8571						
.203		-.9950								
.245			-1.0713							
.247	-.2595									
.250					-.9339	-1.0079	-1.2066	-1.9574		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U44)

ALPHA (5) = 11.928 BETA (5) = 8.307

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				-.8476					-1.5378	
.345										
.362		-.4519								
.390			-.8244							
.400					-.6702	-.7272		-1.1166		
.402				-.8828						-1.4974
.418										
.429	-.2557									
.497		-.6877							-1.5397	
.503										
.547	-.5656									
.550					-.5561	-.6087				
.565				-.6548						
.600								-.5249		
.633	-.5798									
.637			-.3876							
.650							-.4866			
.670									-1.3761	
.700		-.3158				-.4854				-1.4238
.723										
.725					-.5057					
.727	-.3093									
.750							-.5212	-.5035		
.760				-.3952						
.775					-.7149	-.4379				
.793	-.1411									
.798			-.3203							
.808				-.5672						
.824		-.2945								
.849			-.4681							
.850					-.3505	-.1726	-.3420			
.857				-.3282						
.862									-1.0032	
.865		-.5317								
.879			-.2695							
.900		-.2942			-.2496			-.3077		
.905				-.2090						
.919			-.1991							
.950					-.1680	-.1092	-.2523			
.953				-.0954						
.955			-.1235							
.965		-.2676								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6600 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000
BDFLAP = 22.500 L-ELVN = 4.000
R-ELVN = 4.000 MACH = .900

ALPHA (1) = -3.961 BETA (1) = -3.852 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4585	-.0465	-.0330	.1541	.4065	.3133	.2530	.2691	-1.0696	
.010		.0342	.0563		.6079	.5720	.5321	.4381		
.020		.0446		.0000	.5371	.4868	.4523	.3939	-.3938	
.040			.1599	.3861						
.041	-.0397									
.060					.3252	.2708	.2383	.1862		
.079									-.4, .	
.080					.1323					
.081				.2576						
.086			.2853							
.094		.0508								
.116	.0379									
.140					-.0960	-.1443	-.1815	-.2009		
.157									-.5755	
.163			.0000							
.177				-.0157						
.209		.1577								
.246			.0731							
.247	.0713									
.250					-.3013	-.3556	-.4076	-.5071		
.274				-.1636						
.345									-.4942	
.362		.1537								
.390			-.1425							
.400					-.2234	-.3462		-.6473		
.402				-.2032						
.418										-.4198
.429	.1546									
.497		-.0875								
.503									-.2437	
.547	.0220									
.550					-.1744	-.3397				
.565				-.0533						
.600								-.2600		
.633	-.1184									
.637			-.0002							
.680							-.2814			
.703									-.0888	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (1) = -3.961 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		.0406				-.1780				
.723										-.2038
.725					-.1868					
.727	.0156									
.750							-.2378	-.0907		
.760				-.1928						
.775					-.4600	-.2261				
.783	.1532									
.798			-.1696							
.808				-.2086						
.834		-.1724								
.839			-.1632							
.850					-.0133	-.0508	.0229			
.857				-.0345						
.862									.0353	
.865		-.3395								
.879			-.0413							
.880		-.0754			.0330			.0944		
.905				.0223						
.919			.0017							
.950					.0943	.0927	.1212			
.953				.0696						
.955			.0441							
.965		.0229								

ALPHA (1) = -3.932 BETA (2) = .188 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4624	-.0059	-.0297	.1679	.3497	.2298	.1527	.1594	-.6583	
.010		.0339	.0684		.5399	.4964	.4545	.3712		
.020		.0299		.0000	.4770	.4236	.3926	.3313	-.4168	
.040			.1457	.3291						
.041	-.0933									
.060					2862	.2321	.2028	.1529		
.069									-.4983	
.080					.1066					
.091				.2200						
.086			.2454							
.094		.0304								
.113	.0226									
.150					-.1012	-.1391	-.1911	-.2102		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (1) = -3.932 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZY/B=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.5614	
.163			.0000							
.177				-.0185						
.189		.1320								
.196			.0533							
.247	.0544									
.250					-.2822	-.3250	-.3778	-.5113		
.254				-.1557						
.265									-.4144	
.278		.1295								
.287			-.1360							
.299					-.2230	-.3395		-.6144		
.302				-.2072						
.318										-.3325
.329	.1320									
.337		-.0930								
.353									-.3244	
.357	.0083									
.368					-.2077	-.3642				
.375				-.0889						
.390								-.5436		
.393	-.1258									
.397			-.0383							
.410							-.4543			
.420									-.0815	
.430		.0045				-.2958				
.443										-.1813
.445					-.2505					
.447	-.0164									
.453							-.2395	-.1195		
.460				-.2396						
.475					-.5914	-.2652				
.483	.1049									
.498			-.2214							
.509				-.4239						
.534		-.2241								
.539			-.3051							
.550					-.0482	-.0842	-.0084			
.557				-.0679						
.572									.0192	
.585		-.4450								
.593			-.0858							
.600		-.1301			.0172			.0629		
.610				.0010						
.619			-.0193							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (1) = -3.932 BETA (2) = .138

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					.0843	.0701	.1000			
.953				.0550						
.955			.0305							
.965		-.0065								

ALPHA (1) = -3.942 BETA (3) = 4.270 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4855	.0178	.0280	.1848	.3014	.1610	.0751	.0838	-.7525	
.010		.0327	.0819		.4685	.4237	.3795	.3037		
.020		.0237		.0000	.4152	.3586	.3266	.2684	-.5140	
.040			.1369	.2781						
.041	-.1018									
.050					.2371	.1896	.1630	.1138		
.069									-.5701	
.090					.0791					
.081				.1857						
.088			.2157							
.094		.0183								
.113	.0031									
.150					-.1021	-.1418	-.1935	-.2226		
.157									-.6035	
.163			.0000							
.177				-.0190						
.229		.1161								
.246			.0381							
.247	.0474									
.256					-.2617	-.3103	-.3590	-.4977		
.274				-.1485						
.345									-.4411	
.362		.1139								
.390			-.1253							
.400					-.2230	-.3302		-.6047		
.402				-.2008						
.418										-.3124
.429	.1151									
.497		-.0964								
.503									-.3537	
.547	-.0028									
.550					-.2342	-.3774				
.555				-.1176						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (1) = -3.942 BETA (3) = 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										
.600								-.5840		
.633	-.1236									
.637			-.0726							
.650							-.5000			
.699									-.0944	
.700		-.0265				-.3458				
.703										-.1735
.745					-.3075					
.747	-.0462									
.750							-.2397	-.1367		
.760				-.2819						
.770					-.6488	-.3764				
.788	.0892									
.799			-.2611							
.799				-.6166						
.834		-.2738								
.849			-.5218							
.850					-.1113	-.1125	-.0571			
.897				-.1468						
.882									.0323	
.885		-.5438								
.879			-.1577							
.900		-.2319			-.0084			.0215		
.905				-.0306						
.919			-.0600							
.950					.0656	.0439	.0340			
.953				.0356						
.955			.0015							
.965		-.0524								

ALPHA (2) = .010 BETA (1) = -3.868 MACH = .89660 Q = 597.56 P = 1061.9 RN/L = 3.6228

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2590	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.3731	.0467	.1089	.3734	.5421	.4799	.4461	.4518	-.3540	
.010		.0458	.1487		.4522	.4617	.4139	.2587		
.020		.0311		.0000	.3368	.2974	.2605	.1915	-.2861	
.040			.1887	.1965						
.041	-.1216									
.043					.0692	.0094	-.0231	-.0711		
.045									-.3927	
.048					-.1550					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (2) = .010 BETA (1) = -3.868

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				.0352						
.086			.2243							
.094		.0057								
.113	-.0262									
.152					-.3789	-.4414	-.4748	-.4497		
.157									-.6943	
.163			.0000							
.177				-.2474						
.209		.1017								
.246			-.1000							
.267	.0266									
.280					-.5361	-.6352	-.6738	-.6781		
.304				-.3961						
.345									-.7418	
.382		.0315								
.390			-.3373							
.400					-.3353	-.5312		-.9528		
.402				-.4283						
.418										-.3102
.463	.0947									
.497		-.2553								
.513									-.7814	
.547	-.1057									
.550					-.2218	-.3940				
.565				-.0982						
.600								-.1703		
.633	-.2970									
.647			-.0407							
.660							-.1302			
.670									-.2270	
.700		-.0054				-.1371				
.713										-.4238
.725					-.1597					
.727	-.0454									
.750							-.1582	-.0545		
.760				-.1632						
.775					-.2987	-.1720				
.793	.1204									
.798			-.1580							
.808				-.1500						
.834		-.1586								
.839			-.1343							
.852					.0123	-.0018	.0655			
.857				-.0124						
.882									-.0654	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (2) = .010 BETA (1) = -3.868

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.865		-.2771								
.878			-.0282							
.900		-.0600			.0565			.1158		
.905				.0404						
.919			.0239							
.950					.1153	.1257	.1551			
.953				.0899						
.965			.0633							
.966		.0511								

ALPHA 2) = .025 BETA (2) = .185 MACH = .89660 Q = 597.56 P = 1061.9 RN/L = 3.6228

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.4089	.0114	.0999	.3472	.4922	.4184	.3757	.3736	-.3444	
.010		-.0031	.1132		.3682	.3774	.3292	.1918		
.020		-.0119		.0000	.2594	.2206	.1938	.1233	-.3548	
.040			.1497	.1402						
.041	-.1934									
.060					.0131	-.0448	-.0714	-.1095		
.069									-.4330	
.080					-.1611					
.081				.0032						
.086			.1756							
.094		-.0171								
.113	-.0390									
.150					-.3815	-.4180	-.4680	-.4689		
.157									-.7254	
.163			.0000							
.177				-.2445						
.229		.0778								
.246			-.1144							
.247	.0036									
.250					-.5002	-.6163	-.6713	-.6960		
.274				-.3801						
.345									-.7251	
.352		.0140								
.370			- 3289							
.400					-.3214	-.4323		-.9198		
.402				-.4005						
.418										-.4027
.429	.0713									

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU45)

ALPHA (2) = .025 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										
.497		-.2552							-.6512	
.503										
.547	-.1263				-.2555	-.4327				
.550										
.565				-.1389						
.600								-.2665		
.633	-.3008									
.637			-.0819							
.650							-.3411			
.700									-.1765	
.721		-.0468				-.2036				
.725										-.4639
.735					-.2451					
.737	-.0749									
.750							-.1556	-.0652		
.760				-.2326						
.775					-.4160	-.1918				
.793	.0671									
.799			-.2147							
.808				-.2724						
.824		-.2180								
.830			-.2341							
.850					-.0252	-.0386	.0469			
.857				-.0605						
.862									-.0428	
.885		-.3660								
.879			-.0738							
.900		-.1284			.0361			.1164		
.915				.0141						
.919			-.0084							
.950					.0989	.1030	.1370			
.953				.0645						
.955			.0393							
.965		.0093								

DATE 11 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R OF FT WING TOP (XE8U45)

ALPHA (2) = .019 BETA (3) = +.247 MACH = .89660 Q = 597.56 P = 1061.9 RN/L = 3.6228

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2)*CW	.0350	.2330	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
* CM	-.4446	-.0329	.0542	.3083	.4523	.3675	.3219	.3101	-.3296	
		-.0415	.0703		.2867	.2881	.2399	.1007		
		-.0460		.0000	.1910	.1420	.1061	.0399	-.4036	
			.1.36	.0885						
	-.2759				-.0356	-.0920	-.1313	-.1820	-.4839	
					-.2078					
				-.0280						
			.1+31							
		-.0331								
	-.0487				-.3732	-.4260	-.4780	-.4987	-.7542	
			.0000							
				-.2419						
		.0655								
			-.1170							
	.0012				-.4905	-.6012	-.6668	-.7187		
				-.3309					-.6713	
		.0085								
			-.2849							
					-.3133	-.4426		-.7905		
				-.3735						-.4994
	.0602									
		-.2+59							-.5888	
	-.1208				-.2224	-.4520				
				-.1656				-.5539		
	-.2830									
			-.1136				-.5298		-.1932	
						-.3367				
		-.0758								-.5781
					-.3185					
	-.0949						-.1873	-.0958		
				-.2819						
					-.6323	-.2996				

AMES 11-073(OA148) -140A/B/C/R CPB LEFT WING TOP (XEB045)

ALPHA (2) = .019 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	.0273									
.798			-.2477							
.808				-.5447						
.834		-.2689								
.839			-.3990							
[illegible]					-.0985	-.0859	-.0079			
[illegible]				-.1127						
[illegible]									-.0555	
[illegible]		-.4883								
[illegible]			-.1634							
[illegible]		-.3263			-.0069			.0920		
[illegible]				-.0335						
[illegible]			-.0393							
[illegible]					.0561	.0498	.0806			
[illegible]				.0222						
[illegible]			-.0032							
[illegible]		-.0437								

ALPHA (2) = 3.848 BETA (3) = -3.873 MACH = .89837 Q = 699.08 P = 1060.5 RN/L = 3.6099

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]	-.8999	-.1431	.0572	.4027	.6076	.6682	.5430	.4826	-.2037	
[illegible]		-.0460	.0691		.1607	.2006	.0963	-.1422		
[illegible]		-.1934		.0000	.0349	-.0213	-.0914	-.2237	-.5548	
[illegible]			.0399	-.0482						
[illegible]	-.1643									
[illegible]					-.2493	-.3283	-.3973	-.4929		
[illegible]									-.6498	
[illegible]					-.4766					
[illegible]				-.2299						
[illegible]			.0944							
[illegible]		-.0826								
[illegible]	-.0895									
[illegible]					-.7075	-.7417	-.7695	-.7401		
[illegible]									-.9173	
[illegible]			.0000							
[illegible]				-.4731						
[illegible]		.0476								
[illegible]			-.2709							
[illegible]	-.0119									
[illegible]					-.7631	-.9281	-.9736	-.8424		

AMES 11-0.3(OA148) -140A/B/C/R CRB LEFT WING TOP (XEBU45)

ALPHA (3) = 3.946 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
X/CW										
.274				-.6013						
.345									-.7301	
.382		-.0754								
.390			-.5395							
[illegible]					-.8488	-.9520		-.6337		
.418				-.7196						
.429	.0399									-.7846
.481		-.4302								
.513									-.5038	
.547	-.2156									
.560					-.1775	-.3714				
.585				-.1433						
.610								-.4991		
.633	-.5155									
.657			-.0882							
.681							-.4575			
.705									-.4721	
.730		-.0922				-.1917				
.754										-.8523
.778					-.1443					
.787	-.1375									
.802							-.3046	-.3493		
.826				-.1511						
.850					-.2656	-.2083				
.873	.1299									
.898			-.1319							
.918				-.1291						
.934		-.1292								
.950			-.1140							
.959					-.0055	-.0267	-.1467			
.967				-.0167						
.982									-.3653	
.985		-.2436								
.989			-.0245							
.992		-.0503			.0451			-.2043		
.995				.0423						
.999			.0260							
1.003					.1087	.1008	-.0105			
1.006				.0960						
1.008			.0710							
1.011		.0607								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (3) = 4.002 BETA (2) = .184 MACH = .89837 Q = 599.08 P = 1060.5 RN/L = 3.6099

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3632	-.1500	-.0635	.3061	.5200	.4800	.4464	.3724	-.3449	
.010		-.1827	-.0251		.0459	.0787	-.0232	-.2532		
.020		-.1599		.0000	-.0722	-.1230	-.1965	-.3336	-.6599	
.040			.0411	-.1204						
.041	-.3788									
.060					-.3178	-.4103	-.4723	-.5703		
.069									-.7250	
.080					-.5112					
.081				-.2727						
.100			.0505							
.099		-.0844								
.113	-.1078									
.150					-.7209	-.7696	-.8047	-.7862		
.157									-.9635	
.163			.0000							
.177				-.4884						
.199		.0244								
.246			-.2871							
.247	-.0304									
.250					-.7604	-.9128	-.9859	-.9106		
.274				-.5944						
.345									-.7677	
.362		-.0885								
.390			-.5415							
.400					-.7934	-.9870		-.7061		
.402				-.6903						
.418										-1.0025
.429	.0232									
.497		-.4288								
.503									-.6020	
.547	-.2241									
.550					-.2796	-.1813				
.565				-.1877						
.600								-.5380		
.633	-.5181									
.637			-.1400							
.650							-.4310			
.670									-.4300	
.700		-.1280				-.2045				
.723										-.7743
.725					-.1874					
.747	-.1720									
.750							-.2771	-.3648		
.752				-.1752						
.775					-.3128	-.2192				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (3) = 4.002 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	.0718									
.798			-.1811							
.809				-.1901						
.834		-.2006								
.839			-.1922							
.850					-.0335	-.0585	-.1005			
.857				-.0567					-.3517	
.862										
.866		-.3675								
.879			-.0601					-.1945		
.900		-.0977			.0288					
.905				.0120						
.919			-.0041							
.950					.0915	.0789	.0466			
.953				.0672						
.955			.0448							
.966		.0204								

ALPHA (3) = 3.937 BETA (3) = 4.239 MACH = .89837 Q = 599.08 P = 1060.5 RN/L = 3.6099

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4314	-.2680	-.1673	.1844	.4241	.3815	.3446	.2548	-.5517	
.010		-.2600	-.0761		-.0705	-.0480	-.1572	-.3882		
.020		-.2021		.0000	-.1719	-.2292	-.3169	-.4790	-.8016	
.040			.0031	-.1738						
.041	-.4936									
.050					-.3797	-.4814	-.5637	-.6635	-.8120	
.069					-.5527					
.080				-.3025						
.081			.0140							
.086		-.0957								
.094	-.1171									
.113					-.7225	-.7876	-.8345	-.8349	-1.0172	
.150										
.157										
.163			.0000							
.177				-.4836						
.189		-.0001								
.246			-.2707							
.247	-.0392									
.250					-.7303	-.8385	-.9898	-1.0116		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (3) = 3.937 BETA (3) = 4.239

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				-.5731						
.345									-.7110	
.362		-.0957								
.390			-.5089							
.400					-.6420	-.9303		-.9988		
.402				-.6428						
.418										-.7164
.429	.0100									
.497		-.4286								
.503									-.6712	
.547	-.2287									
.550					-.3304	-.4613				
.565				-.2383						
.600								-.5499		
.633	-.4870									
.637			-.1908							
.650							-.2651			
.670									-.4930	
.700		-.1264				-.2354				
.723										-.6918
.725					-.2762					
.727	-.1654									
.750							-.2549	-.3456		
.760				-.2711						
.775					-.3020	-.2046				
.793	.0141									
.798			-.2591							
.808				-.3743						
.834		-.2749								
.849			-.3771							
.850					-.0727	-.0588	-.0050			
.857				-.1233						
.882									-.3654	
.885		-.5201								
.879			-.1237							
.900		-.2151			-.0293			-.1491		
.905				-.0465						
.919			-.0575							
.950					.0171	.0450	.1017			
.953				.0112						
.955			-.0058							
.965		-.0507								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (4) = 7.970 BETA (1) = -3.868 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2637	-.2973	-.2836	.2069	.4795	.4575	.4166	.2840	-.5953	
.010		-.3712	-.2141		-.2790	-.1890	-.3373	-.5897		
.020		-.3118		.0000	-.3855	-.4088	-.4975	-.6985	-1.1052	
.040			-.0997	-.3850						
.041	-.2093									
.050					-.5980	-.6549	-.7563	-.8962	-1.0875	
.069										
.080					-.7812					
.081				-.5431						
.086			-.0777							
.094		-.1461								
.113	-.1674									
.150					-.9911	-1.0495	-.9478	-.8893	-1 0783	
.157										
.163			.0000							
.177				-.6694						
.229		-.0069								
.246			-.4322							
.247	-.0652									
.250					-1.0125	-1.0488	-.8260	-.7087		
.274				-.7676					-.7897	
.345										
.362		-.1648								
.390			-.6610							
.400					-.8452	-.7724		-.6076		
.402				-.9034						-.9346
.418										
.429	-.0014									
.497		-.5352							-.6142	
.503										
.547	-.3237				-.4163	-.6329				
.550										
.565				-.3042				-.5286		
.600										
.633	-.6789									
.637			-.1249				-.5774			
.650									-.4878	
.670						-.4960				
.700		-.1653								-.6157
.723					-.2434					
.725										
.727	-.2067						-.4935	-.4405		
.750				-.1760						
.760					- 3724	-.4098				
.775										

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (4) = 7.970 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										
.733	.1502									
.799			-.1705							
.808				-.2419						
.834		-.1762								
.839			-.2407							
.850					-.1172	-.2722	-.4276			
.867				-.0824						
.888									-.4438	
.885		-.5106								
.879			-.1159							
.900		-.0798			-.0546			-.3920		
.905				-.0202						
.919			-.0890							
.950					.0384	-.1310	-.3702			
.963				.0460						
.985			-.0171							
.995		.0183								

ALPHA (4) = 7.979 BETA (2) = .177 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3527	-.4923	-.4028	.0153	.3406	.3170	.2694	.1351	-.7900	
.010		-.4805	-.1945		-.4221	-.3440	-.4919	-.7436		
.020		-.3570		.0000	-.4939	-.5330	-.6216	-.8158	-.6728	
.040			-.0837	-.4406						
.041	-.4038									
.059					-.6717	-.7531	-.8573	-.9976		
.069									-.5946	
.080					-.8297					
.081				-.5839						
.095			-.0754							
.094		-.1931								
.113	-.2060									
.150					-.9750	-1.0849	-1.0076	-1.0076		
.157									-.5804	
.163			.0000							
.177				-.6608						
.229		-.1201								
.245			-.4236							
.247	-.0673									
.250					-.9978	-1.0899	-.8856	-.9003		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (A) = 7.979 BETA (2) = .177

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2993	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7414						
.345									-.5645	
.362		-.1857								
.390			-.5612							
.400					-.9821	-.8502		-.6515		
.402				-.8798						
.418										-.5505
.429	-.0116									
.437		-.5679								
.443									-.5486	
.447	-.3392									
.460					-.4474	-.6444				
.505				-.2711						
.600								-.5666		
.633	-.7040									
.637			-.1690							
.650							-.5877			
.670									-.4981	
.700		-.1836				-.5058				
.723										-.7962
.725					-.2566					
.727	-.2735									
.750							-.5007	-.5192		
.760				-.2098						
.775					-.5352	-.4189				
.793	.0614									
.798			-.2273							
.808				-.3808						
.834		-.2085								
.839			-.3548							
.850					-.1366	-.2490	-.4235			
.857				-.1250						
.882									-.4181	
.855		-.4945								
.879			-.1489							
.900		-.1765			-.0600			-.4778		
.905				-.0546						
.919			-.0769							
.950					.0375	-.0977	-.3612			
.953				.0148						
.965			-.0116							
.965		-.0204								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (4) = 7.978 BETA (3) = 4.243 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4389	-.5949	-.2447	-.1449	.1838	.1644	.1030	-.0377	-.7277	
.010		-.3739	-.1824		-.5642	-.5075	-.6710	-.9158		
.020		-.3365		.0000	-.6361	-.6646	-.7867	-.9804	-.6765	
.040			-.1594	-.4089						
.041	-.5161									
.060					-.7234	-.8504	-.9588	-1.1027		
.080									-.6346	
.080					-.8448					
.081				-.4868						
.086			-.1679							
.094		-.3223								
.113	-.2200									
.150					-.9224	-1.1225	-1.0655	-1.0321		
.157									-.5990	
.163			.0000							
.177				-.6044						
.229		-.2405								
.246			-.5259							
.247	-.0850									
.250					-.9191	-1.1059	-.9365	-.8016		
.274				-.7071						
.345									-.5803	
.362		-.1195								
.399			-.7011							
.400					-.8930	-.8654		-.6320		
.402				-.8469						
.418										-.5797
.469	-.0327									
.487		-.5447								
.503									-.5727	
.547	-.3378									
.550					-.3913	-.6374				
.565				-.2632						
.600								-.6009		
.633	-.6755									
.637			-.2159							
.650							-.6132			
.670									-.5296	
.700		-.2071				-.4494				
.723										-.6441
.725					-.2433					
.727	-.2798									
.750							-.5451	-.5617		
.760				-.2823						
.775					-.6676	-.4724				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (4) = 7.978 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	-.0044									
.798			-.2332							
.808				-.6967						
.834		-.2410								
.839			-.5167							
.850					-.1837	-.2392	-.4899			
.857				-.2794						
.870									-.4740	
.885		-.4770								
.879			-.2381							
.900		-.2915			-.0753			-.5081		
.905				-.1453						
.919			-.1129							
.930					.0198	-.0899	-.4187			
.943				-.0508						
.956			-.0454							
.965		-.0909								

ALPHA (5) = 11.950 BETA (1) = -3.855 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2811	-.6848	-.5447	-.1854	.2199	.2064	.1473	-.0041	-.7675	
.010		-.6877	-.2694		-.7142	-.6124	-.7831	-.8873		
.020		-.5970		.0000	-.8371	-.8064	-.9273	-.7507	-.7012	
.040			-.1883	-.6665						
.041	-.2629									
.050					-.9738	-1.0117	-1.0767	-.7332		
.059									-.6340	
.060					-1.0713					
.081				-.7493						
.095			-.1767							
.099		-.3457								
.113	-.2523									
.150					-1.1810	-1.0387	-1.0490	-.6925		
.157									-.5904	
.163			.0000							
.177				-.7989						
.179		-.2448								
.190			-.5548							
.194	-.1124									
.200					-1.0965	-.9224	-.9148	-.6799		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (5) = 11.950 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				-.8569						
.345									-.5859	
.382		-.3866								
.390			-.7601							
.400					-.8343	-.8371		-.6482		
.402				-.9040						
.418										-.5841
.439	- 0326									
.447		-.7544								
.503									-.5942	
.547	-.4773									
.560					-.7254	-.7069				
.566				-.4799						
.610								-.6186		
.633	-.8238									
.637			-.3154							
.650							-.5683			
.670									-.5447	
.700		-.2270				-.6399				
.723										-.5337
.750					-.4654					
.767	-.2432									
.780							-.6297	-.5819		
.790				-.2944						
.795					-.5376	-.5854				
.803	.0546									
.798			-.2960							
.808				-.4858						
.834		-.2727								
.839			-.6467							
.840					-.3290	-.4869	-.5980			
.857				-.2658						
.862									-.5158	
.865		-.5020								
.879			-.2778							
.900		-.2376			-.2828			-.5630		
.905				-.1930						
.919			-.2067							
.950					-.1942	-.3910	-.5662			
.953				-.1240						
.965			-.1258							
.985		-.0603								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU45)

ALPHA (5) = 11.961 BETA (2) = .178 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

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	-.3995	-.7719	-.3369	-.3725	.0474	.0202	-.0315	-.1812	-.8370	
.010		-.5224	-.2853		-.8659	-.7721	-.9188	-.9225		
.020		-.4784		.0000	-.9815	-.9570	-1.0688	-.7399	-.7204	
.040			-.2746	-.5606						
.041	-.4513									
.060					-1.0795	-1.1207	-1.0965	-.7138		
.079									-.6605	
.080					-1.1258					
.081				-.6405						
.100			-.2670							
.084		-.4751								
.118	-.2843									
.160					-1.2170	-1.0598	-.9993	-.7136		
.157									-.6290	
.163			.0000							
.171				-.7435						
.229		-.5883								
.245			-.5803							
.247	-.1739									
.260					-.9922	-.9333	-.9091	-.7001		
.274				-.8490						
.345									-.6157	
.355		-.3010								
.362			-.7809							
.410					-.8652	-.8375		-.6747		
.402				-.9564						
.418										-.6196
.429	-.0729									
.497		-.7442								
.503									-.6290	
.547	-.5027									
.560					-.7188	-.7782				
.576				-.4051						
.600								-.6303		
.633	-.6508									
.637			-.3338							
.650							-.6927			
.670									-.5695	
.700		-.2642				-.6548				
.723										-.5529
.725					-.4266					
.727	-.3008									
.750							-.6545	-.6103		
.773				-.3219						
.775					-.6937	-.5946				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (5) = 11.951 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										
.793	.0836									
.788			-.3044							
.808				-.7366						
.834		-.2972								
.880			-.6126							
.891					-.3101	-.4789	-.6285			
.914				-.4096						
.942									-.5432	
.965		- 5083								
.979			-.4990							
.991		-.4089			-.2589			-.5892		
.996				-.2919						
.998			-.2478							
1.000					-.1589	-.3836	-.5995			
1.003				-.2022						
1.005			-.1739							
1.010		-.1368								

ALPHA (5) = 11.950 BETA (3) = 4.259 MACH = .89653 Q = 597.97 P = 1052.9 RN/L = 3.8958

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.3990	.3640	.4270	.5340	6730	.7800	.8870	.9720	1.0000
X CW										
.000	-.5055	-.7459	-.3656	-.5371	-.1318	-.1534	-.2217	-.3692	-.7960	
.010		-.6244	-.3370		-1.0131	-.9304	-1.0634	-.8113		
.020		-.6329		.0000	-1.0385	-1.0923	-.9783	-.8123	-.7187	
.040			-.3344	-.4522						
.041	-.5184									
.058					-1.1510	-1.1898	-.8910	-.7703		
.069									-.6739	
.077					-1.1349					
.081				-.5643						
.086			-.3114							
.094		-.5960								
.113	-.2422									
.150					-1.0930	-.9330	-.8019	-.7177		
.157									-.6653	
.163			.0000							
.177				-.6757						
.209		-.6377								
.246			-.6036							
.247	-.2444									
.310					-.8554	-.8806	-.7848	-.7094		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U45)

ALPHA (5) = 11.950 BETA (3) = 4.259

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				-.8067						
.345									-.6608	
.382		-.3017								
.390			-.8070							
.400					-.7270	-.8038		-.7113		
.402				-.9119						
.418										-.6687
.429	-.1049									
.437		-.7234								
.503									-.6634	
.547	-.4778									
.550					-.6413	-.7630				
.566				-.3865						
.611								-.6862		
.622	-.8425									
.647			-.3092							
.711							-.7374			
.720									-.6101	
.730		-.2110				-.6968				
.733										-.6149
.745					-.4212					
.747	-.2552									
.760							-.6869	-.6602		
.780				-.4224						
.775					-.8938	-.6667				
.783	.0014									
.798			-.3722							
.818				-.7970						
.854		-.3320								
.863			-.7033							
.880					-.5465	-.4723	-.6665			
.857				-.7262						
.902									-.5885	
.865		-.5804								
.879			-.5344							
.910		-.4629			-.3314			-.6256		
.905				-.6920						
.919			-.5448							
.900					-.2144	-.3599	-.6155			
.953				-.2406						
.956			-.2581							
955		-.3282								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8046) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8700 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 = 4.000 MACH = .600

ALPHA ( ) = -4.081 BETA ( ) = -7.651 MACH = .59592 Q = 593.39 P = 2367.4 RN/L = -.8516

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

	.2350	.2990	.3640	.4270	.5340	.6730	.7830	.8870	.9720	1.0000
X/C										
.000	-.1021	-.1444	-.2730	-.0992	.1388	.0673	.0297	.1145	-.8042	
.010		-.0188	-.1379		.6034	.5897	.5797	.5149		
.020		.0348		.0000	.5485	.5387	.5135	.4732	-.0986	
.030	.1032			.1003	.3093					
.050					.3264	.3118	.2770	.2485		
.070									-.1130	
.090					.1289					
.110				.2277						
.130			.2597							
.150		.0595								
.170	.0439									
.190					-.0963	-.1225	-.1845	-.1427		
.210									-.1700	
.230			.0000							
.250				-.0344						
.270		.1480								
.290			.0340							
.310	.0803									
.330					-.2451	-.2934	-.3404	-.3907		
.350				-.1557						
.370									-.1714	
.390		.1040								
.410			-.1248							
.430					-.1956	-.2650		-.3397		
.450				-.1634						
.470										-.4513
.490	.1206									
.510		-.0845								
.530									-.2340	
.547	-.0052									
.550					-.1282	-.1953				
.570				-.0473						
.590								-.2367		
.610	-.0976									
.630			-.0009							
.650							-.1791			
.670									-.1714	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (1) = -4.081 BETA (1) = -7.851

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/L=	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/L=										
		.0346				-.1275				
										-.2076
					-.1087					
	.0160									
							-.1671	-.1174		
				-.1404						
					-.2063	-.1405				
	.0321									
			-.1149							
				-.0836						
		-.1072								
			-.0533							
					.0131	.0000	.0111			
				-.0088						
									-.0187	
		-.1459								
			-.0040							
		-.0364			.0210			.0525		
				.0136						
			-.0031							
					.0639	.0692	.0842			
				.0474						
			.0252							
		.0223								

ALPHA (1) = -3.953 BETA (2) = -3.833 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/L=	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/L=										
	-.1487	-.0304	-.1772	-.0264	.1273	.0177	-.0344	.0438	-.7175	
		-.0003	-.0165		.5343	.5234	.5025	.4402		
		.0139		.0000	.4830	.4614	.4398	.3978	-.1713	
			.1021	.3096						
	-.0116									
					.2730	.2523	.2265	.1942		
									-.1753	
					.0953					
				.1838						
			.2246							
		.1267								
	.0148									
					-.1206	-.1480	-.2125	-.1681		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (1) = -3.953 BETA (2) = -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										
.157									-.2091	
.163			.0000							
.171				-.0516						
.228		.1215								
.246			.0059							
.247	.0502									
.268					-.2660	-.3052	-.3500	-.3884		
.270				-.1726						
.296									-.1848	
.298		.0798								
.310			-.1422							
.400					-.2286	-.2888		-.3502		
.402				-.1950						
.418										-.4169
.419	.0940									
.441		-.1141								
.503									-.2323	
.547	-.0310									
.550					-.1680	-.2200				
.555				-.0868						
.600								-.2408		
.633	-.1234									
.637			-.0431							
.650							-.1924			
.670									-.1511	
.700		-.0027				-.1451				
.723										-.2035
.725					-.1404					
.727	-.0301									
.750							-.1867	-.1246		
.760				-.1566						
.775					-.2412	-.1594				
.793	.1109									
.798			-.1162							
.808				-.1221						
.834		-.1292								
.839			-.0940							
.850					-.0134	-.0196	.0038			
.857				-.0320						
.862									-.0053	
.875		-.2037								
.879			-.0304							
.900		-.0562			.0023			.0497		
.905				-.0053						
.919			-.0164							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (1) = -3.953 BETA (2) = -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										
.950					.0559	.0593	.0860			
.953				.0417						
.955			.0143							
.955		-.0042								

ALPHA (1) = -3.951 BETA (3) = .188 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1552	-.0452	-.0834	.0224	.1129	-.0140	-.0814	-.0266	-.6510	
.010		.0022	.0112		.4687	.4534	.4276	.3757		
.020		.0012		.0000	.4174	.3987	.3760	.3345	-.2283	
.040			.0860	.2543						
.041	-.0579									
.060					.2218	.2047	.1897	.1551		
.069									-.2243	
.080					.0552					
.081				.1495						
.086			.1904							
.094		.0012								
.113	-.0217									
.150					-.1359	-.1624	-.2181	-.1809		
.157									-.2326	
.163			.0000							
.177				-.0698						
.229		.0962								
.246			-.0119							
.247	.0268									
.250					-.2806	-.3128	-.3544	-.3808		
.274				-.1862						
.345									-.1844	
.352		.0599								
.390			-.1631							
400					-.2457	-.3059		-.3521		
.402				-.2228						
.418										-.3841
.429	.0706									
.441		-.1307								
.502									-.2205	
.547	-.0490									
.552					-.1926	-.2383				
.565				-.1246						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (1) = -3.951 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										
.600								-.2379		
.633	-.1472									
.637			-.0812							
.650							-.2026			
.670									-.1322	
.700		-.0431				-.1602				
.723										-.2018
.726					-.1518					
.727	-.0628									
.750							-.2014	-.1286		
.760				-.1659						
.775					-.2696	-.1788				
.723	.0699									
.726			-.1406							
.800				-.1595						
.824		-.1502								
.839			-.1314							
.850					-.0322	-.0341	-.0100			
.857				-.0626						
.950									.0055	
.955		-.2404								
.973			-.0552							
.900		-.0780			-.0095			.0447		
.905				-.0203						
.919			-.0310							
.950					.0495	.0466	.0761			
.953				.0284						
.970			.0029							
.985		-.0252								

ALPHA (1) = -3.958 BETA (4) = 4.269 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1602	-.0228	-.0300	.0742	.1280	-.0030	-.0746	-.0181	-.5487	
.010		-.0007	.0287		.4067	.3853	.3576	.3028		
.020		-.0114		.0000	.3523	.3277	.3026	.2642	-.2485	
.040			.0822	.2072						
.041	-.0878									
.050					.1725	.1447	.1206	.0945		
.069									-.2497	
.080					.0217					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (1) = -3.958 BETA (4) = 4.269

SECTION (1)LEFT WING TOP SUPF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1205						
.085			.1638							
.094		-.0162								
.113	-.0430									
.150					-.1522	-.1859	-.2516	-.2188		
.157									-.2482	
.163			.0000							
.177				-.0819						
.223		.0800								
.246			-.0272							
.247	.0140									
.260					-.2907	-.3311	-.3692	-.3987		
.274				-.2040						
.345									-.1896	
.362		.0460								
.380			-.1758							
.400					-.2684	-.3218		-.3589		
.402				-.2394						
.418										-.2585
.429	.0559									
.437		-.1477								
.503									-.2174	
.547	-.0620									
.550					-.2221	-.2562				
.565				-.1615						
.600								-.2402		
.633	-.1690									
.637			-.1178							
.650							-.2113			
.670									-.1194	
.700		-.0833				-.1719				
.723										-.1554
.725					-.1724					
.727	-.0955									
.750							-.2122	-.1320		
.760				-.1839						
.775					-.2955	-.1912				
.793	.0361									
.798			-.1637							
.809				-.1853						
.824		-.1729								
.829			-.1649							
.850					-.0494	-.0462	-.0121			
.857				-.0797						
.875									.0171	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (1) = -3.958 BETA (4) = 4.269

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		-.2690								
.879			-.0778							
.900		-.0936			-.0221			.0479		
.905				-.0358						
.919			-.0491							
.950					.0431	.0464	.0796			
.953				.0163						
.955			-.0096							
.965		-.0396								

ALPHA (1) = -3.973 BETA (5) = 8.335 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1699	-.0189	.0214	.1346	.1647	.0004	-.0826	-.0279	-.4682	
.010		-.0139	.0545		.3338	.3141	.2840	.2247		
.020		-.0191		.0000	.2830	.2551	.2288	.1914	-.2713	
.040			.0858	.1582						
.041	-.1147									
.050					.1174	.0954	.0696	.0419		
.069									-.2788	
.080					-.0174					
.091				.0786						
.095			.1414							
.099		-.0236								
.113	-.0579									
.150					-.1764	-.2001	-.2050	-.2367		
.157									-.2634	
.163			.0000							
.177				-.0983						
.222		.0692								
.246			-.0513							
.247	.0070									
.250					-.3087	-.3405	-.3718	-.3959		
.274				-.2126						
.345									-.1861	
.362		.0329								
.390			-.1900							
.400					-.2862	-.3334		-.3533		
.402				-.2624						
.418										-.1910
.429	.0470									

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU46)

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

ALPHA (1) = -3.973 BETA (5) = 8.335

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZT/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1658							-.1972	
.503										
.547	-.0815									
.550					-.2493	-.2698				
.585				-.1864						
.600								-.2330		
.633	-.1999									
.637			-.1557							
.650							-.2106			
.670									-.0938	
.700		-.1167				-.1768				-.1176
.723										
.725					-.1837					
.727	-.1388									
.750							-.2129	-.1246		
.770				-.1989						
.775					-.3149	-.1970				
.793	.0020									
.798			-.1768							
.808				-.2166						
.834		-.1851								
.839			-.1858							
.850					-.0650	-.0440	-.0141			
.857				-.0932						
.852									.0379	
.955		-.2848								
.879			-.0885							
.900		-.0998			-.0284			.0544		
.905				-.0452						
.919			-.0521							
950					.0411	.0462	.0777			
.953				.0137						
955			-.0090							
965		-.0387								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (2) = .060 BETA (1) = -7.888 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0654	.0528	.0686	.3071	.5030	.4898	.4751	.5196	-.1023	
.010		.0754	.1488		.4398	.4781	.4185	.2404		
.020		.0571		.0000	.3047	.2908	.2359	.1729	-.1161	
.040			.1773	.1622						
.041	-.0047									
.050					.0224	-.0325	-.0822	-.1146		
.059									-.2353	
.060					-.1975					
.081				-.0164						
.085			.2087							
.094		.0234								
.113	.0116									
.150					-.3616	-.4268	-.5035	-.4319		
.157									-.3619	
.163			.0000							
.177				-.2512						
.229		.0901								
.246			-.1415							
.247	.0377									
.250					-.4387	-.5206	-.5894	-.6299		
.274				-.3143						
.345									-.3773	
.362		-.0182								
.390			-.2603							
.400					-.2927	-.3822		-.4589		
.402				-.2590						
.418										-.0549
.429	.0486									
.497		-.2049								
.503									-.4106	
.547	-.1151									
.550					-.1672	-.2436				
.605				-.0823						
.600								-.2801		
.633	-.1693									
.637			-.0260							
.650							-.1999			
.670									-.2650	
.700		.0027				-.1309				
.723										-.3037
.725					-.1090					
.727	-.0256									
.750							-.1863	-.1497		
.762				-.1231						
.775					-.1948	-.1351				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (2) = .060 BETA (1) = -7.888

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.1255									
.798			-.1079							
.808				-.0742						
.834		-.0963								
.838			-.0476							
.850					.0147	.0054	.0105			
.[illegible]				.0015						
.[illegible]									-.0790	
.865		-.1462								
.878			.0066							
.[illegible]		-.0222			.0318			.0483		
.[illegible]				.0265						
.919			.0147							
.950					.0777	.0848	.0974			
.[illegible]				.0622						
.[illegible]			.0379							
.965		.0336								

ALPHA (2) = .070 BETA (2) = -3.865 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

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	-.0956	.0309	.0735	.2988	.4747	.4466	.4254	.4582	-.1254	
.010		.0327	.1162		.3680	.3998	.3332	.1688		
.020		.0147		.0000	.2390	.2128	.1664	.0897	-.1815	
.040			.1404	.1028						
.041	-.0569									
.050					-.0277	-.0818	-.1163	-.1652		
.069									-.2738	
.080					-.2253					
.081				-.0520						
.085			.1629							
.094		-.0155								
.113	-.0288									
.[illegible]					-.3743	-.4219	-.5141	-.4376		
.[illegible]									-.3684	
.163			.0000							
.[illegible]				-.2718						
.[illegible]		.0581								
.[illegible]			-.1659							
.[illegible]	.0071									
.850					-.4452	-.5221	-.5837	-.6191		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (2) = .070 BETA (2) = -3.865

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				-.3368						
.345									-.3516	
.382		-.0444								
.390			-.2824							
.420					-.3172	-.3972		-.4661		
.432				-.2911						
.438										-.0957
.439	.0222									
.447		-.2359								
.503									-.3786	
.547	-.1452									
.560					-.2033	-.2646				
.565				-.1241						
.580								-.2803		
.583	-.2116									
.637			-.0760							
.650							-.2083			
.670									-.2380	
.700		-.0442				-.1428				
.723										-.3440
.725					-.1271					
.747	-.0663									
.750							-.1946	-.1449		
.760				-.1417						
.775					-.2208	-.1549				
.783	.0808									
.798			-.1119							
.808				-.1163						
.824		-.1228								
.839			-.0935							
.850					-.0095	-.0165	.0020			
.857				-.0254						
.862									-.0710	
.865		-.1864								
.879			-.0269							
.900		-.0487			.0162			.0468		
.905				.0060						
.919			-.0075							
.950					.0683	.0727	.0896			
.963				.0508						
.975			.0253							
.985		.0066								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (2) = .070 BETA (3) = .181 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/Cw										
.000	-.1319	-.0021	.0606	.2820	.4400	.3896	.3679	.3879	-.1568	
.010		-.0123	.0827		.2839	.3101	.2557	.0981		
.020		-.0251		.0000	.1647	.1438	.0973	.0160	-.2287	
.040			.1046	.0501						
.041	-.1031									
.060					-.0818	-.1264	-.1505	-.2050		
.069									-.3076	
.080					-.2591					
.081				-.0879						
.085			.1212							
.094		-.0429								
.113	-.0626									
.150					-.3863	-.4337	-.5236	-.4462		
.157									-.3715	
.163			.0000							
.177				-.2790						
.229		.0342								
.246			-.1813							
.247	-.0217									
.350					-.4630	-.5293	-.5719	-.6098		
.374				-.3484						
.375									-.3283	
.382		-.0526								
.390			-.2927							
.400					-.3423	-.4126		-.4580		
.402				-.3163						
.418										-.1422
.429	.0019									
.497		-.2527								
.503									-.3437	
.547	-.1536									
.550					-.2384	-.2834				
.565				-.1672						
.600								-.2750		
.633	-.2381									
.657			-.1153							
.658							-.2167			
.670									-.2097	
.700		-.0834				-.1630				
.723										-.3782
.725					-.1495					
.727	-.1074									
.750							-.2099	-.1431		
.767				-.1540						
.775					-.2523	-.1692				

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU46)

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

ALPHA (2) = .070 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										
.793	.0401									
.799			-.1347							
.808				-.1547						
.834		-.1448								
.839			-.1328							
.880					-.0372	-.0355	-.0067			
.884				-.0579					-.0463	
.913										
.918		-.2195								
.879			-.0557					.0435		
.918		-.0728			-.0037					
.918				-.0134						
.918			-.0240							
.918					.0585	.0544	.0846			
.980				.0325						
.983			.0077							
.985		-.0217								

ALPHA (2) = .068 BETA (4) = 4.248 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/Bw	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1679	-.0494	.0231	.2485	.4032	.3530	.3321	.3277	-.1680	
.010		-.0698	.0466		.1964	.2150	.1558	-.0108		
.020		-.0664		.0000	.0945	.0596	.0054	-.0783	-.2927	
.040			.0736	-.0022						
.041	-.1348				-.1293	-.1810	-.2212	-.2746	-.3535	
.060					-.2668					
.060				-.1167						
.081			.0838							
.086		-.0577								
.094										
.113	-.0842				-.3968	-.4539	-.5404	-.4743	-.3807	
.150										
.157										
.163			.0000							
.177				-.2850						
.209		.0221								
.245			-.1661							
.247	-.0304				-.4722	-.5324	-.5712	-.6062		
.249										

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (2) = .068 BETA (4) = 4.248

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				-.3587						
.345									-.3131	
.352		-.0707								
.390			-.2394							
.400					-.3622	-.4240		-.4482		
.408				-.3349						
.418										-.2278
.429	-.0082									
.437		-.2669								
.473									-.3261	
.547	-.1726									
.580					-.2620	-.3023				
.605				-.2001						
.631								-.2715		
.648	-.2606									
.687			-.1548							
.691							-.2236			
.741									-.2002	
.771		-.1228				-.1725				
.783										-.4799
.796					-.1736					
.797	-.1384									
.830							-.2111	-.1406		
.850				-.1787						
.875					-.2845	-.1839				
.893	.0032									
.896			-.1553							
.908				-.1858						
.934		-.1664								
.949			-.1095							
.950					-.0554	-.0434	-.0102			
.957				-.0763						
.962									-.0539	
.965		-.2462								
.979			-.0819							
.980		-.0949			-.0152			.0491		
.985				-.0281						
.989			-.0453							
.990					.0493	.0520	.0763			
.993				.0197						
.995			-.0063							
.995		-.0390								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (Z) = .063 BETA (S) = 8.306 MACH = .59634 Q = 594.08 P = 2395.3 RN/L = 4.5479

SECTION ( )LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/SW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2145	-.1339	-.0366	.1933	.3530	.3053	.2792	.2602	-.2130	
.010		-.1275	-.0039		.0887	.1253	.0596	-.0913		
.020		-.1114		.0000	-.0050	-.0304	-.0696	-.1539	-.3369	
.040			.0358	-.0566						
.041	-.1662									
.080					-.1861	-.2257	-.2716	-.3318		
.100									-.3741	
.120					-.3260					
.081				-.1493						
.160			.0498							
.171		-.0729								
.173	-.1088									
.200					-.4145	-.4574	-.5519	-.4877		
.150									-.3736	
.160			.0000							
.171				-.2993						
.172		.0110								
.240			-.1997							
.247	-.0394									
.280					-.4768	-.5261	-.5771	-.5992		
.274				-.3592						
.345									-.2974	
.350		-.0777								
.370			-.3082							
.400					-.3820	-.4301		-.4482		
.402				-.3554						
.418										-.3242
.438	-.0179									
.457		-.2736								
.460									-.2953	
.547	-.1911									
.560					-.2912	-.3172				
.565				-.2330						
.610								-.2621		
.633	-.2823									
.647			-.1923							
.660							-.2268			
.670									-.1804	
.700		-.1555				-.1898				
.733										-.5279
.735					-.1911					
.737	-.1789									
.750							-.2177	-.1352		
.760				-.1934						
.775					-.3076	-.2085				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (2) = .053 BETA (5) = 8.306

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	-.0328									
.798			-.1781							
.838				-.2073						
.934		-.1955								
.939			-.1891							
.950					-.0662	-.0422	-.0174			
.954				-.0874					-.0345	
.962										
.966		-.2758								
.979			-.1022					.0478		
.983		-.1135			-.0257					
.990				-.0433						
.994			-.0585							
.998					.0392	.0450	.0734			
1.002				.0120						
1.006			-.0173							
1.010		-.0489								

ALPHA (2) = 4.012 BETA (1) = -7.901 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

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	-.0431	.0620	.0970	.3969	.5970	.5828	.5606	.4831	-.1086	
.010		-.0008	.0889		.0514	.0690	-.0677	-.3799		
.020		-.0216		.0000	-.1085	-.1972	-.2894	-.4597	-.5370	
.040			.0970	-.1429						
.041	-.0453				-.3965	-.5125	-.5893	-.6697		
.060									-.6500	
.080					-.5969					
.080				-.3215						
.081			.0612							
.096		-.0476								
.094										
.113	-.0311				-.6541	-.7724	-.8626	-.7769	-.7704	
.160										
.157										
.163			.0000							
.177				-.4945						
.199		.0150								
.245			-.3385							
.247	-.0092				-.6410	-.7641	-.8405	-.9039		
.251										

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU46)

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

ALPHA (3) = 4.012 BETA (1) = -7.901

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				-.4879					-.7142	
.345										
.362		-.1470								
.390			-.3858							
.400					-.3718	-.4777		-.5762		
.402				-.3502						-.5306
.416										
.429	-.0184									
.497		-.3291							-.7017	
.503										
.547	-.2401				-.1931	-.2761				
.560										
.565				-.1100				-.3522		
.600										
.633	-.2583									
.637			-.0571				-.2197			
.650									-.5639	
.670						-.1283				
.700		-.0384								-1.2591
.723					-.0862					
.725										
.727	-.0643						-.1890	-.1903		
.756				-.1022						
.760					-.1597	-.1259				
.775										
.793	.1340									
.798			-.0918							
.808				-.0591						
.834		-.0921								
.839			-.0401							
.850					.0224	.0169	.0076			
.857				.0112					-.3052	
.862										
.865		-.1519								
.879			.0042							
.900		.0006			.0502			.0209		
.905				.0355						
.919			.0237							
.930					.0934	.0963	.0876			
.943				.0747						
.945			.0470							
.955		.0396								

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (3) = 4.016 BETA (2) = -3.862 MACH = .59704 Q = 595.39 P = 2388.0 RN/L = 4.8489

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0971	-.0340	.0069	.3100	.5153	.4606	.4587	.3642	-.2542	
.010		-.0830	.0144		-.0698	-.0447	-.1866	-.4994		
.020		-.0950		.0000	-.2000	-.2806	-.3880	-.5744	-.6319	
.040			.0213	-.2120						
.041	-.1025									
.050					-.4593	-.5701	-.6768	-.7326		
.069									-.6958	
.090					-.6329					
.081				-.3658						
.088			.0033							
.094		-.0882								
.113	-.0719									
.150					-.6721	-.7891	-.8845	-.8008		
.157									-.7764	
.163			.0000							
.177				-.5193						
.229		-.0160								
.246			-.3575							
.247	-.0377									
.260					-.6553	-.7654	-.8466	-.9037		
.274				-.5061						
.345									-.6842	
.362		-.1683								
.390			-.4079							
.400					-.4047	-.5024		-.5768		
.402				-.3846						
.418										-.7444
.429	-.0528									
.497		-.3584								
.503									-.6650	
.507	-.2847									
.550					-.2308	-.3086				
.565				-.1607						
.600								-.3450		
.633	-.3059									
.637			-.1003							
.650							-.2385			
.670									-.6274	
.700		-.0900				-.1520				
.723										-1.3767
.725					-.1219					
.727	-.1108									
.751							-.2110	-.1912		
.760				-.1215						
.775					-.1955	-.1501				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (3) = 4.016 BETA (2) = -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	.0896									
.798			-.1048							
.808				-.1036						
.834		-.1139								
.839			-.0881							
.850					-.0075	-.0141	-.0038			
.857				-.0237						
.882									-.4002	
.885		-.1971								
.879			-.0212							
.900		-.0338			.0249			.0151		
.905				.0103						
.919			-.0032							
.950					.0749	.0723	.0843			
.953				.0616						
.955			.0295							
.955		.0116								

ALPHA (3) = 4.027 BETA (3) = .191 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.6469

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1661	-.1514	-.1041	.2050	.4274	.3933	.3582	.2583	-.3901	
.010		-.1890	-.0887		-.1728	-.1480	-.2964	-.5788		
.020		-.1713		.0000	-.2825	-.3653	-.4701	-.6359	-.6830	
.040			-.0409	-.2582						
.041	-.1515									
.060					-.4975	-.6068	-.7071	-.7577		
.069									-.7204	
.080					-.6459					
.091				-.3905						
.086			-.0421							
.094		-.1181								
.113	-.1129									
.150					-.6737	-.7930	-.8682	-.7971		
.157									-.7495	
.163			.0000							
.177				-.5149						
.229		-.0339								
.245			-.3726							
.247	-.0662									
.250					-.6547	-.7630	-.8317	-.8712		

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

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

ALPHA (3) = 4.027 BETA (3) = .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										
.274				-.5177						
.345										
.362		-.1810							-.6279	
.390			-.4202							
.400										
.402					-.4279	-.5137		-.5644		
.418				-.4049						
.429	-.0719									-.8996
.497		-.3771								
.503										
.547	-.3002								-.6167	
.580					-.2691	-.3289				
.595				-.1973						
.600										
.633	-.3382							-.3411		
.637			-.1518							
.650										
.670							-.2479			
.700		-.1301							-.6515	
.723						-.1715				
.725										
.727	-.1515				-.1475					-1.3912
.750										
.760							-.2244	-.1879		
.775				-.1437						
.793	.0516				-.2299	-.1658				
.798			-.1358							
.808				-.1402						
.834		-.1427								
.839			-.1398							
.850					-.0335	-.0271	-.0180			
.857				-.0523						
.862										
.865		-.2474							-.4362	
.879			-.0644							
.900		-.0632								
.905					.0034			.0158		
.919				-.0110						
.950			-.0263							
.953					.0533	.0615	.0763			
.955				.0375						
.965			.0086							
.985		-.0108								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (3) = 4.030 BETA (4) = 4.239 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

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

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2292	-.2716	-.2511	.0770	.3208	.2803	.2301	.0913	-.6401	
.010		-.2747	-.1706		-.2829	-.2828	-.4457	-.7425		
.020		-.2310		.0000	-.3720	-.4680	-.5856	-.7873	-.8078	
.040			-.0940	-.3181						
.041	-.1936									
.050					-.5594	-.6797	-.7735	-.8527		
.069									-.7768	
.080					-.6754					
.081				-.4210						
.086			-.0833							
.094		-.1357								
.113	-.1393									
.150					-.6718	-.7936	-.8762	-.8109		
.167									-.7535	
.163			.0000							
.177				-.5219						
.229		-.0515								
.246			-.3696							
.247	-.0818									
.250					-.6535	-.7630	-.8292	-.8594		
.274				-.5168						
.345									-.6124	
.362		-.1900								
.380			-.4123							
.400					-.4426	-.5171		-.5664		
.402				-.4158						
.418										-1.2305
.429	-.0802									
.497		-.3899								
.503									-.5987	
.547	-.3091									
.550					-.2956	-.3456				
.565				-.2336						
.600								-.3408		
.633	-.3539									
.637			-.2131							
.650							-.2547			
.670									-.6337	
.700		-.1671				-.1830				
.723										-1.4595
.725					-.1686					
.727	-.1798									
750							-.2317	-.1869		
.760				-.1724						
.775					-.2437	-.1844				

AMES 1 -073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (3) = 4.030 BETA (4) = 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										
.793	.0079									
.798			-.1582							
.808				-.1868						
.834		-.1678								
.839			-.1747							
.850					-.0582	-.0343	-.0196			
.857				-.0995						
.862									-.4901	
.865		-.2797								
.873			-.0844							
.880		-.0870			-.0127			.0112		
.905				-.0521						
.919			-.0462							
.950					.0341	.0532	.0668			
.953				.0046						
.955			-.0071							
.965		-.0421								

ALPHA (3) = 4.035 BETA (5) = 8.288 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3125	-.4213	-.2605	-.0890	.1799	.1504	.0905	-.0527	-.8793	
.010		-.3314	-.1458		-.4087	-.4174	-.5630	-.8345		
.020		-.2543		.0000	-.4862	-.5491	-.6704	-.8669	-.8727	
.040			-.1243	-.3566						
.041	-.2314									
.050					-.6025	-.6945	-.8001	-.8909		
.069									-.7883	
.080					-.6922					
.081				-.4110						
.086			-.1413							
.094		-.2526								
.113	-.1722									
.150					-.6634	-.7673	-.8993	-.7900		
.157									-.7019	
.163			.0000							
.177				-.4819						
.229		-.0399								
.245			-.4528							
.247	-.0830									
.250					-.6444	-.7320	-.7985	-.8286		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (3) = 4.035 BETA (5) = 8.288

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				-.4925						
.345									-.5671	
.362		-.1769								
.390			-.4192							
.400					-.4518	-.5237		-.5488		
.402				-.4345						
.419										-1.4939
.489	-.0792									
.49[illegible]		-.3859								
.503									-.5638	
.547	-.3114									
.560					-.3217	-.3515				
.585				-.2942						
.600								-.3297		
.633	-.3689									
.637			-.2133							
.650							-.2580			
.670									-.6127	
.700		- .1944				-.1928				
.723										-1.3652
.725					-.1950					
.727	-.2114									
.750							-.2303	-.1824		
.760				-.2140						
.775					-.2843	-.1883				
.733	-.0375									
.799			-.1836							
.808				-.2319						
.824		-.1942								
.839			-.2032							
.850					-.0781	-.0438	-.0378			
.857				-.1082						
.862									-.3498	
.865		-.3056								
.879			-.1122							
.900		-.1125			-.0398			.0051		
.905				-.0621						
.919			-.0620							
.950					.0260	.0331	.0543			
.953				.0076						
.955			-.0224							
.965		-.0548								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (4) = 7.996 BETA (1) = -7.892 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0695	-.1470	-.2050	.1553	.3648	.2993	.2013	-.0362	-.8660	
.010		-.2434	-.1944		-.6116	-.6539	-.9594	-1.4630		
.020		-.2086		.0000	-.7343	-.9040	-1.1193	-1.5185	-1.4840	
.040			-.1576	-.5721						
.041	-.0946									
.060					-.9638	-1.1738	-1.3660	-1.4930		
.069									-1.3992	
.080					-1.1147					
.081				-.7206						
.086			-.1854							
.094		-.1508								
.113	-.0769									
.150					-1.0177	-1.1913	-1.3260	-1.2132		
.157									-1.4807	
.163			.0000							
.177				-.7788						
.229		-.0741								
.246			-.5536							
.247	-.0519									
.250					-.8356	-.9887	-1.0942	-1.2468		
.274				-.6604						
.345									-1.2066	
.352		-.2808								
.390			-.5018							
.400					-.4387	-.5705		-.7603		
.402				-.4078						
.416										-1.8531
.429	-.1149									
.437		-.4730								
.503									-1.1334	
.547	-.3927									
.550					-.2000	-.3063				
.565				-.1524						
.600								-.4528		
.633	-.3705									
.637			-.1203							
.650							-.2589			
670									-.9969	
.700		-.0843				-.1345				
.723										-2.0957
.725					-.0786					
.727	-.0806									
.760							-.2123	-.2878		
.781				-.1067						
.775					-.1074	-.1043				

AMES 11-073(OA148) -140A/B/C/R ORR LEFT WING TOP (XE8046)

ALPHA (4) = 7.996 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	.1690									
.738			-.0807							
.808				-.1001						
.834		-.0930								
.839			-.0382							
.850					.0129	.0172	-.0263			
857				-.0181						
892									-.8155	
.856		-.1865								
.879			.0132							
.900		.0293			.0483			-.0761		
.905				.0144						
.919			.0200							
.950					.0878	.0887	.0567			
.953				.0567						
.955			.0519							
.965		.0576								

ALPHA (4) = 8.007 BETA (2) = -3.861 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.6410

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1601	-.3007	-.3920	-.0179	.2223	.1550	.0334	-.2231	-1.1606	
.010		-.3549	-.3321		-.7672	-.8162	-1.1340	-1.6103		
.020		-.3177		.0000	-.8327	-1.0344	-1.2630	-1.7025	-1.6669	
.040			-.2582	-.6413						
.041	-.1549									
.060					-1.0212	-1.2311	-1.4341	-1.5777		
.069									-1.4414	
.080					-1.1549					
.081				-.7488						
.086			-.2339							
.094		-.1844								
.113	-.1262									
.150					-1.0082	-1.2020	-1.3367	-1.1753		
.157									-1.4302	
.163			.0000							
.177				-.7794						
.229		-.0986								
.245			-.5599							
.247	-.0896									
.250					-.8391	-.9908	-1.0956	-1.2389		

AMES 11-073(OA148) -14OA/B/C/R ORB LEFT WING TOP (XE8L46)

ALPHA (4) = 8.007 BETA (2) = -3.861

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				-.6660						
.245									-1.1554	
.252		-.3094								
.390			-.5221							
.400					-.4712	-.5920		-.7517		
.402				-.4359						
.418										-2.2059
.428	-.1328									
.432		-.5115								
.438									-1.0911	
.547	-.4082									
.560					-.2361	-.3324				
.565				-.2056						
.570								-.4511		
.643	-.4010									
.647			-.1619							
.660							-.2649			
.670									-1.1315	
.702		-.1612				-.1573				
.723										-2.1147
.735					-.1102					
.727	-.1377									
.750							-.2290	-.2718		
.760				-.1301						
.775					-.1297	-.1229				
.793	.0973									
.798			-.1209							
.808				-.1308						
.834		-.1007								
.839			-.1327							
.850					-.0194	-.0035	-.0406			
.857				-.0420						
.862									-.9620	
.865		-.2128								
.879			-.0415							
.900		.0014			.0181			-.0709		
.905				-.0070						
.919			-.0191							
.950					.0600	.0700	.0527			
.953				.0324						
.955			.0285							
.965		.0196								

AMES 11-073(OA148) -140A/B/C/R ORP LEFT WING TOP (XE8046)

ALPHA (4) = 8.012 BETA (3) = .176 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION (1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2578	-.4943	-.5754	-.2140	.0539	-.0196	-.1449	-.4141	-1.4961	
.010		-.4905	-.4037		-.9030	-.9636	-1.2784	-1.7291		
.020		-.3948		.0000	-.9383	-1.1437	-1.3851	-1.8185	-1.8293	
.040			-.2513	-.6983						
.041	-.2177									
.050					-1.0615	-1.2964	-1.4753	-1.6302		
.069									-1.4531	
.080					-1.1501					
.098				-.7604						
.100			-.2327							
.104		-.2098								
.113	-.1859									
.130					-.9838	-1.1744	-1.3699	-1.1638		
.167									-1.2932	
.183			.0000							
.197				-.7472						
.229		-.1819								
.246			-.5585							
.262	-.1008									
.280					-.8311	-.9831	-1.0843	-1.1974		
.294				- 6407						
.345									-1.0844	
.362		-.3521								
.380			-.5418							
.400					-.4821	-.5970		-.7331		
.402				-.4792						
.418										-2.4742
.429	-.1447									
.497		-.5330								
.503									-1.0121	
.547	-.4355									
.570					-.2869	-.3471				
.585				-.2669						
.630								-.4468		
.633	-.4214									
.637			-.2454							
.650							-.2735			
.670									-1.1650	
.700		-.1337				-.1719				
.723										-2.0527
.725					-.1604					
.727	-.1813									
.750							-.2324	-.2673		
.760				-.1517						
.775					-.2129	-.1352				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8046)

ALPHA (4) = 8.012 BETA (3) = .176

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	.0336									
.798			-.1460							
.808				-.1691						
.834		-.1344								
.839			-.1486							
.860					-.0752	-.0285	-.0467			
.877				-.0817						
.902									-1.2670	
.956		-.2222								
.978			-.0489							
.980		-.0487			-.0483			-.0562		
.985				-.0404						
.987			-.0225							
.990					.0069	.0469	.0452			
.995				.0008						
.996			.0138							
.998		-.0078								

ALPHA (4) = 8.012 BETA (4) = 4.240 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8[illegible]

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	-.3614	-.6539	-.5603	-.3950	-.1117	-.2049	-.3676	-.6638	-1.5978	
.010		-.4991	-.2876		-1.0288	-1.1298	-1.4858	-1.9555		
.020		-.3595		.0000	-1.0292	-1.2484	-1.5203	-2.0444	-2.0164	
.040			-.2594	-.6590						
.041	-.2808									
.050					-1.0849	-1.3232	-1.5229	-1.7551		
.069									-1.4277	
.080					-1.1321					
.081				-.6841						
.096			-.2824							
.094		-.3972								
.113	-.2297									
.150					-.9578	-1.1315	-1.3322	-1.1684		
.157									-1.2714	
.163			.0000							
.177				-.6891						
.209		-.2520								
.246			-.6555							
.247	-.1147									
.250					-.8009	-.9593	-1.0551	-1.1427		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE3045)

ALPHA (4) = 8.012 BETA (4) = 4.240

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2950	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6632					-1.0323	
.345										
.362		-.2709								
.390			-.6874							
.400					-.4943	-.5987		-.7091		
.408				-.4766						-2.4171
.418										
.428	-.1557									
.497		-.5175							-.9003	
.503										
.647	-.4394									
.661					-.3500	-.3555				
.686				-.2895						
.691								-.4305		
.695										
.625	-.4394									
.637			-.2373							
.650							-.2728			
.670									-1.1741	
.700		-.1853				-.1910				
.723										-1.8034
.725					-.2090					
.727	-.2032									
.750							-.2244	-.2593		
.760				-.2310						
.775					-.3515	-.1811				
.793	-.0223									
.799			-.1699							
.808				-.2685						
.824		- 1733								
.839			-.1880							
.850					-.0330	-.0706	-.0571			
.857				-.1440						
.862									-1.2652	
.865		-.2756								
.879			-.0919							
.900		-.0894			-.0239			-.0647		
.905				-.0852						
.919			-.0605							
.950					.0443	.0254	.0174			
.953				-.0279						
.955			-.0115							
.965		-.0454								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J46)

ALPHA (∝) = 8.009 BETA (β) = 8.233 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION 1 (LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/C=	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.000	-.4740	-.7263	-.3369	-.5533	-.3130	-.4031	-.5633	-.8956	-2.3178	
.010		-.4178	-.3305		-1.1304	-1.2789	-1.6678	-2.1335		
.020		-.4128		.0000	-1.0780	-1.3443	-1.6201	-2.1420	-1.6701	
.040			-.3425	-.5366						
.047	-.3883									
.060					-1.0606	-1.3146	-1.5248	-1.7965		
.080									-1.4237	
.100					-1.0593					
.101				-.6030						
.120			-.3709							
.140		-.4383								
.153	-.2163									
.160					-.8763	-1.0939	-1.2708	-1.1141		
.167									-1.2197	
.183			.0000							
.187				-.6429						
.200		-.3334								
.240			-.8120							
.247	-.1447									
.260					-.7222	-.9115	-1.0064	-1.0695		
.274				-.6353						
.345									-.8674	
.362		-.2347								
.380			-.5773							
.400					-.5404	-.5509		-.6719		
.402				-.6225						
.418										-2.0157
.429	-.1625									
.497		-.5153								
.503									-.8275	
.547	-.4326									
.560					-.3543	-.3514				
.563				-.4373						
.600								-.3934		
.633	-.4444									
.637			-.2442							
.650							-.2540			
.670									-1.0237	
.700		-.2192				-.2249				
.746										-1.4475
.750					-.2232					
.767	-.2304									
.780							-.1813	-.2447		
.790				-.2235						
.795					-.3136	-.2583				

/ 0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (4) = 8.009 BETA (5) = ,

SECTION (1)LEFT WING TOP SURF NT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.		.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.0724									
.798			-.1899							
.808				-.2653						
.834		-.1951								
.839			-.2108							
.850					-.1698	-.0972	-.0847			
.857				-.1313						
.862									-.8760	
.865		-.2791								
.879			-.1110							
.900		-.1184			-.0980			-.0752		
.905				-.0724						
.919			-.0755							
.950					-.0174	.0132	-.0155			
.953				-.0129						
.955			-.0256							
.965		-.0541								

ALPHA (5) = 11.987 BETA (1) = -7.852 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.83G3

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1514	-.5330	-.8247	-.3986	-.1592	-.3050	-.4790	-.7655	-2.1256	
.010		-.6192	-.6852		-1.6144	-1.6877	-2.0927	-2.5844		
.020		-.4880		.0000	-1.5795	-1.8724	-2.3034	-2.6764	-2.8597	
.040			-.5151	-1.1162						
.041	-.1517									
.050					-1.6809	-2.0296	-2.4063	-2.6196		
.063									-2.8554	
.080					-1.7225					
.081				-1.1519						
.086			-.4507							
.094		-.2213								
.113	-.1743									
.150					-1.3114	-1.5755	-1.9420	-1.7615		
.157									-2.3032	
.163			.0000							
.177				-.9993						
.229		-.2125								
.245			-.7057							
.247	-.0851									
.250					-.9708	-1.1579	-1.2551	-1.4097		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 11.987 BETA (1) = -7.852

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.7420						
.345									-2.2357	
.352		-.5046								
.390			-.6234							
.400					-.4295	-.5963		-.8856		
.402				-.5139						
.418										-2.4291
.429	-.1984									
.497		-.7844								
.503									-2.2067	
.547	-.5254									
.550					-.2333	-.2924				
.565				-.2649						
.600								-.5787		
.633	-.4509									
.637			-.1555							
.650							-.2733			
.670									-1.6238	
.700		-.1436				-.1275				
.723										-1.6313
.725					-.1327					
.727	-.0989									
.750							-.2046	-.4766		
.760				-.0986						
.775					-.2455	-.0938				
.793	.1494									
.798			-.1560							
.808				-.0986						
.834		-.0759								
.839			-.1787							
.850					-.0874	-.0197	-.0601			
.857				-.0485						
.862									-1.2633	
.865		-.1498								
.879			-.0617							
.900		.0476			-.0831			-.2257		
.905				-.0121						
.919			-.0246							
.950					-.0190	.0635	.0011			
.953				.0067						
.970			.0259							
.975		.0608								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 12.008 BETA (2) = -3.842 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2693	-.7374	-.9180	-.6450	-.3645	-.5074	-.6795	-.9908	-2.4596	
.010		-.7324	-.5808		-1.7648	-1.8785	-2.2617	-2.7288		
.020		-.5259		.0000	-1.7136	-2.0494	-2.4742	-2.8465	-2.6517	
.040			-.3538	-1.0832						
.041	-.2398									
.050					-1.7010	-2.1178	-2.5607	-2.7324		
.069									-2.8402	
.080					-1.7658					
.081				-1.0681						
.086			-.3892							
.094		-.3940								
.113	-.2322									
.150					-1.2809	-1.4775	-1.4512	-1.7677		
.157									-2.3762	
.163			.0000							
.177				-.9139						
.229		-.4634								
.246			-.7626							
.247	-.1170									
.250					-.9362	-1.1576	-1.2621	-1.3283		
.274				-.8131						
.345									-2.3653	
.362		-.6372								
.390			-.6580							
.400					-.4990	-.6151		-.9205		
.402				-.5901						
.418										-2.1882
.429	-.2093									
.497		-.7172								
.503									-2.2704	
.547	-.5593									
.550					-.3389	-.3238				
.565				-.1803						
.600								-.6024		
.633	-.5017									
.637			-.2980							
.650							-.2807			
.670									-1.6304	
.700		-.1501				-.1714				
.723										-1.5771
.725					-.2477					
.727	-.1830									
.750							-.2029	-.5012		
.760				-.1348						
.775					-.3907	-.1605				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 12.008 BETA (2) = -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										
.793	.0614									
.798			-.1572							
.808				-.1461						
.834		-.1124								
.839			-.1915							
.850					-.0502	-.0584	-.0835			
.857				-.0789						
.862									-1.1395	
.865		-.1996								
.879			-.0730							
.900		-.0156			-.0143			-.2489		
.905				-.0322						
.919			-.0569							
.950					.0767	.0378	-.0195			
.953				.0142						
.956			-.0132							
.965		.0080								

ALPHA (5) = 12.016 BETA (3) = .174 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4092	-.9265	-.9166	-.8589	-.5621	-.7258	-.8977	-1.1930	-2.5772	
.010		-.6196	-.4531		-1.9086	-2.0383	-2.4356	-2.8506		
.020		-.4854		.0000	-1.7511	-2.1996	-2.6416	-2.8413	-1.9212	
.040			-.4212	-.9592						
.041	-.3607									
.050					-1.6677	-2.1746	-2.6917	-2.6923		
.069									-1.8715	
.080					-1.6651					
.081				-.9041						
.086			-.4848							
.094		-.5312								
.113	-.2282									
.150					-1.1933	-1.4681	-1.5018	-1.9536		
.157									-1.8470	
.163			.0000							
.177				-.9193						
.229		-.6933								
.245			-.8485							
.247	-.1637									
.250					-.8597	-1.1085	-1.2376	-1.3691		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 12.016 BETA (3) = .174

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.274				-.8239						
.345									-1.9322	
.362		-.6026								
.390			-.7644							
.400					-.5836	-.5748		-.8701		
.402				-.5332						
.418										-1.8538
.429	-.2558									
.497		-.7404								
.503									-1.7490	
.547	-.5763									
.560					-.4416	-.3541				
.585				-.3090						
.600								-.5583		
.633	-.5256									
.637			-.3688							
.650							-.2683			
.670									-1.2672	
.700		-.1782				-.2308				
.723										-1.5114
.725					-.1682					
.727	-.2114									
.750							-.2136	-.3857		
.760				-.2535						
.775					-.2635	-.2637				
.793	.0109									
.798			-.1663							
.808				-.3344						
.834		-.1444								
.839			-.2026							
.850					-.0479	-.1195	-.1304			
.857				-.2094						
.862									-.9884	
.865		-.2413								
.879			-.0956							
.900		-.0477			-.0137			-.1886		
.905				-.1586						
.919			-.0593							
.950					.0443	-.0257	-.0523			
.953				-.0877						
.965			-.0070							
.985		-.0152								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU46)

ALPHA (5) = 11.917 BETA (4) = 4.245 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5340	-1.0021	-.6296	-.9521	-.7308	-.9285	-1.1248	-1.4300	-2.4579	
.010		-.5489	-.4954		-1.9326	-2.1913	-2.6439	-2.5837		
.020		-.5370		.0000	-1.7250	-2.3720	-2.7901	-2.5340	-1.7214	
.040			-.5021	-.7770						
.041	-.4988									
.050					-1.5793	-2.1307	-2.7422	-2.3405		
.069									-1.6840	
.080					-1.4908					
.081				-.8486						
.086			-.5293							
.094		-.5842								
.113	-.2660									
.150					-1.0570	-1.4032	-1.5494	-2.0664		
.157									-1.5920	
.163			.0000							
.177				-.8655						
.229		-.7241								
.246			-.8921							
.247	-.2048									
.250					-.8523	-1.0407	-1.2000	-1.5472		
.274				-.7964						
.345									-1.4562	
.362		-.5271								
.390			-.8952							
.400					-.6342	-.5968		-.8257		
.402				-.6703						
.418										-1.4184
.419	-.2643									
.497		-.6746								
.503									-1.4488	
.547	-.5644									
.550					-.3937	-.4460				
.565				-.5860						
.600								-.4468		
.633	-.5342									
.637			-.3090							
.650							-.3175			
.670									-1.1202	
.700		-.2170				-.3106				
.723										-1.4465
.725					-.2451					
.727	-.2338									
.750							-.2917	-.3051		
.760				-.2816						
.775					-.3567	-.2831				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 11.917 BETA (4) = 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	-.0430									
.798			-.1792							
.808				-.3501						
.834		-.1881								
.839			-.2092							
.850					-.2394	-.0932	-.1958			
.857				-.1921						
.862									-.8810	
.865		-.2705								
.879			-.1113							
.900		-.0957			-.1532			-.1993		
.905				-.1141						
.919			-.0707							
.950					-.0609	.0146	-.1269			
.953				-.0400						
.975			-.0209							
.965		-.0464								

ALPHA (5) = 11.904 BETA (5) = 8.309 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6873	-1.1000	-.5697	-1.0244	-.9529	-1.1795	-1.3887	-1.6705	-1.9456	
.010		-.8053	-.5219		-1.9674	-2.3813	-2.8165	-2.3499		
.020		-.6044		.0000	-1.6822	-2.4980	-2.9417	-2.2903	-1.5742	
.040			-.5429	-.7693						
.041	-.7116									
.050					-1.4598	-1.9833	-2.8034	-2.1561		
.069									-1.5364	
.080					-1.3016					
.081				-.8077						
.086			-.5783							
.094		-.6448								
.113	-.3349									
.150					-.9645	-1.2950	-1.5015	-2.0164		
.157									-1.4264	
.163			.0000							
.177				-.8345						
.229		-.8591								
.245			-1.0337							
.247	-.2613									
.250					-.8654	-.9337	-1.0970	-1.6429		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U46)

ALPHA (5) = 11.904 BETA (5) = 8.309

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				-.8098						
.345									-1.3076	
.362		-.4340								
.390			-.7704							
.400					-.6105	-.6531		-.8390		
.402				-.8357						
.418										-1.2528
.429	-.2523									
.497		-.6574								
.503									-1.3337	
.547	-.5395									
.560					-.4750	-.4988				
.595				-.5930						
.600								-.4091		
.633	-.5303									
.637			-.3273							
.650							-.3972			
.670									-1.0985	
.700		-.2603				-.3464				
.723										-1.2089
.725					-.3465					
.727	-.2570									
.750							-.3778	-.2819		
.760				-.2674						
.775					-.5334	-.2434				
.793	-.0745									
.798			-.2152							
.808				-.3386						
.834		-.2118								
.839			-.2428							
.850					-.2886	-.0896	-.2603			
.857				-.1925						
.862									-.7690	
.865		-.2967								
.879			-.1499							
.900		-.1264			-.2426			-.1783		
.905				-.1115						
.919			-.0992							
.950					-.1578	-.0401	-.1561			
.953				-.0343						
.955			-.0440							
.965		-.0782								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WIN ((XE8U47) (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 = -10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 4.000
R-ELVN = 4.000 MACH = 1.400

ALPHA (1) = -4.021 BETA (1) = -3.852 MACH = 1.3993 Q = 600.40 P = 438.06 RN/L = 2.9180

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	-.1278	-.0944	-.0979	.2957	.7088	.6537	.6154	.6367	-.3107	
.010		-.0300	.0072		.7549	.7422	.7031	.6339		
.020		-.0222		.0000	.6739	.6418	.6156	.5921	.0204	
.040			.0594	.3952						
.041	-.0442									
.050										
.069					.4648	.4369	.4154	.4096		
.080									-.0316	
.081					.2840					
.086				.3092						
.094			.1737							
.113	-.0239	-.0146								
.150										
.157					.0543	.0637	.0970	.1240		
.163									-.1675	
.177			.0000							
.229				.1194						
.246		.0619								
.247	-.0229		.1051							
.250										
.274					-.0797	-.0904	-.0803	-.0840		
.345				-.0140						
.362									-.2053	
.390		.1479								
.400			-.0085							
.402					-.2062	-.2514		-.2813		
.418				-.1724						
.429	.0850									-.3818
.497		.0069								
.503										
.547	.0777								-.2447	
.550										
.565					-.2578	-.2980				
.570				-.1734						
.644	-.0237							-.3320		
.647			-.1436							
.650										
.670							-.3524			
									-.3896	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (1) = -4.021 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		-.1176				-.3102				
.723										-.3369
.725					-.0577					
.727	-.0986									
.750							-.4063	-.4160		
.760				.0105						
.775					-.0205	-.2098				
.793	.2504									
.798			.0632							
.808				.0682						
.834		.1231								
.839			.0571							
.850					.0481	-.1315	-.3860			
.857				.0355						
.862									-.3346	
.865		-.0581								
.879			.0122							
.900		.0425			.0211			-.3432		
.905				.0214						
.919			.0172							
.950					.0252	.0117	-.1743			
.953				.0303						
.955			.0068							
.965		.0633								

ALPHA (1) = -4.015 BETA (2) = .189 MACH = 1.3993 Q = 600.40 P = 438.06 RN/L = 2.9180

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	-.1505	-.0633	-.0477	.2681	.6357	.5667	.5240	.5346	-.3711	
.010		-.0414	.0114		.6653	.6490	.6150	.5493		
.020		-.0514		.0000	.5916	.5570	.5359	.5123	-.0604	
.040			.0372	.3167						
.041	-.1027									
.050					.3975	.3691	.3528	.3511		
.069									-.1006	
.080					.2273					
.081				.2502						
.086			.1332							
.094		-.0419								
.113	-.0859									
.150					.0331	.0388	.0647	.0941		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (1) = -4.015 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2157	
.163			.0000							
.177				.0925						
.229		.0409								
.246			.0708							
.247	-.0452									
.250					-.0880	-.0946	-.0987	-.1036		
.274				-.0194						
.345									-.2386	
.352		.1162								
.390			-.0186							
.400					-.2015	-.2461		-.2834		
.402				-.1759						
.418										-.4424
.429	.0383									
.497		-.0211								
.503									-.2651	
.547	.0554									
.550					-.2456	-.2792				
.565				-.1598						
.600								-.3554		
.633	-.0556									
.637			-.0503							
.650							-.3355			
.670									-.3934	
.720		-.0741				-.2754				
.723										-.3979
.725					-.0091					
.727	-.0960									
.750							-.3912	-.4262		
.760				.0436						
.775					-.0472	-.1219				
.793	.2983									
.798			.0554							
.808				-.0052						
.834		.0937								
.839			-.0053							
.850					.0403	-.0738	-.3469			
.857				-.0105						
.862									-.3328	
.865		-.1065								
.879			-.0347							
.900		-.0102			.0009			-.3457		
.905				-.0307						
.919			-.0259							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUN7)

ALPHA (1) = -4.015 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					-.0057	-.0050	-.1397			
.953				-.0136						
.955			-.0342							
.965		.0002								

ALPHA (1) = -4.023 BETA (3) = 4.275 MACH = 1.3993 Q = 600.40 P = 438.05 RN/L = 2.9180

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	-.1610	-.0748	-.0247	.2550	.5652	.4818	.4291	.4330	-.4190	
.010		-.0814	.0024		.5767	.5563	.5167	.4538		
.020		-.0974		.0000	.5085	.4667	.4473	.4236	-.1399	
.040			.0260	.2644						
.041	-.1543									
.060					.3347	.2953	.2795	.2809		
.069									-.1687	
.080					.1865					
.081				.2023						
.085			.1075							
.094		-.0625								
.113	-.1452									
.150					.0160	.0097	.0291	.0521		
.157									-.2631	
.163			.0000							
.177				.0659						
.229		.0193								
.246			.0538							
.247	-.0607									
.250					-.0985	-.1098	-.1189	-.1281		
.274				-.0235						
.345									-.2748	
.362		.1104								
.390			-.0228							
.400					-.2024	-.2475		-.2955		
.402				-.1808						
.418										-.4833
.429	.0270									
.497		-.0373								
.503									-.2954	
.547	.0418									
.550					-.2392	-.2803				
.565				-.1545						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XSBL=7)

ALPHA (1) = -4.023 BETA (3) = 4.275

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	-.0829							-.3700		
.637			.02[illegible]							
.650							-.3263			
.670									-.4004	
.700		-.0272				-.1376				
.723										-.4319
.725					.0203					
.727	-.0895									
.750							-.3879	-.4345		
.760				.0367						
.775					-.0510	-.0994				
.793	.3017									
.798			.0125							
.809				-.0251						
.834		.0788								
.839			-.0353							
.850					.0104	-.0494	-.2090			
.857				-.0469						
.862									-.3331	
.865		-.1288								
.879			-.0727							
.900		-.0489			-.0307			-.3365		
.905				-.0680						
.919			-.0624							
.950					-.0413	-.0193	-.0993			
.953				-.0570						
.965			-.0734							
985		-.0457								

ALPHA (2) = -.011 BETA (1) = -3.871 MACH = 1.3999 [illegible] = 600.31 P = 437.53 RN/L = 2.9198

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	[illegible]	.9720	1.0000
X/CW										
.000	-.0308	.0195	.0188	.4071	.7500	.7126	.6762	.6893	-.1423	
.010		.0252	.0450		.6112	.6469	.6081	.5143		
.020		.0028		.0000	.5116	.5093	.4867	.4648	.0149	
.040			.0594	.2486						
.041	-.0289									
.050					.2905	.2813	.2631	.2[illegible]		
.069									.0328	
.090					.1197					

REPRODUCIBILITY [illegible]
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (2) = -.011 BETA (1) = -3.671

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				.1298						
.086			.1169							
.094		-.0508								
.113	-.0296									
.150					-.0790	-.0709	-.0341	-.0038		
.157									-.2098	
.163			.0000							
.177				-.0106						
.229		-.0003								
.246			.0035							
.247	-.0506									
.250					-.2228	-.2213	-.2058	-.1910		
.274				-.1437						
.345									-.2677	
.362		.0742								
.390			-.1127							
.400					-.3174	-.3650		-.3705		
.402				-.2683						
.418										-.1749
.429	.0088									
.497		-.0758								
.503									-.3175	
.547	.0079									
.550					-.3512	-.3978				
.565				-.2652						
.600								-.4134		
.633	-.1115									
.637			-.2240							
.650							-.4408			
.670									-.4558	
.700		-.1892				-.4011				
.723										-.2240
.725					-.1968					
.727	-.1672									
.750							-.4930	-.4770		
.760				-.1135						
.775					-.1975	-.3967				
.793	.0351									
.798			-.0634							
.808				-.0464						
.834		.0308								
.839			.0009							
.850					-.1066	-.2236	-.4672			
.857				-.0125						
.882									-.4433	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (2) = -.011 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										
.865		-.1135								
.879			-.0111							
.900		-.0019			-.0809			-.4125		
.905				-.0121						
.919			-.0158							
.950					-.0274	-.1892	-.3166			
.953				-.0083						
.955			-.0151							
.965		.0035								

ALPHA (2) = -.002 BETA (2) = .186 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0447	-.0213	-.0226	.3551	.6679	.6185	.5850	.5896	-.1954	
.010		-.0430	-.0054		.4965	.5468	.5100	.4229		
.020		-.0617		.0000	.4032	.4151	.4000	.3735	-.0565	
.040			.0182	.1746						
.041	-.0872									
.050					.2195	.2078	.1961	.1976		
.069									-.1194	
.080					.0651					
.081				.0694						
.086			.0759							
.094		-.1057								
.113	-.0962									
.150					-.1109	-.1109	-.0747	-.0439		
.157									-.2569	
.163			.0000							
.177				-.0454						
.229		-.0196								
.246			-.0243							
.247	-.0983									
.250					-.2323	-.2466	-.2358	-.2177		
.274				-.1492						
.345									-.3006	
.362		.0442								
.390			-.1213							
.400					-.3074	-.3686		-.3872		
.402				-.2624						
.418										-.1952
.429	-.0088									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (2) = -.002 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		-.0976								
.503									-.3397	
.547	-.0106									
.550					-.3391	-.3913				
.565				-.2627						
.600								-.4242		
.633	-.1447									
.637			-.2191							
.650							-.4390			
.670									-.4511	
.700		-.1907				-.3774				
.723										-.2591
.725					-.1352					
.727	-.1692									
.750							-.4755	-.4882		
.760				-.0912						
.775					-.1760	-.2842				
.793	.1350									
.798			-.0448							
.808				-.0777						
.834		.0224								
.839			-.0755							
.850					-.1040	-.1918	-.4509			
.857				-.0612						
.862									-.4251	
.865		-.1529								
.879			-.0649							
.900		-.0565			-.0753			-.4217		
.905				-.0599						
.919			-.0604							
.950					-.0417	-.1211	-.2065			
.953				-.0541						
.955			-.0576							
.965		-.0680								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (2) = -.007 BETA (3) = 4.251 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0673	-.0958	-.0869	.2913	.5873	.5354	.4920	.4950	-.2060	
.010		-.1298	-.0567		.3914	.4451	.4072	.3268		
.020		-.1409		.0000	.3167	.3263	.3046	.2854	-.1190	
.040			-.0171	.1169						
.041	-.1318									
.050					.1582	.1397	.1221	.1212		
.069									-.1731	
.080					.0194					
.081				.0356						
.086			.0367							
.094		-.1603								
.113	-.1575									
.150					-.1275	-.1435	-.1173	-.0863		
.157									-.2963	
.163			.0000							
.177				-.0651						
.229		-.0297								
.246			-.0329							
.247	-.1332									
.250					-.2202	-.2634	-.2556	-.2486		
.274				-.1438						
.345									-.3218	
.362		.0424								
.390			-.1233							
.400					-.3006	-.3563		-.4037		
.402				-.2578						
.418										-.1538
.429	-.0144									
.497		-.1071								
.503									-.3487	
.547	-.0182									
.550					-.3363	-.3801				
.565				-.2597						
.600								-.4440		
.633	-.1655									
.637			-.1603							
.650							-.4267			
.670									-.4445	
.700		-.1749				-.3367				
.723										-.3839
.725					-.1301					
.727	-.1683									
.750							-.4688	-.4961		
.760				-.0811						
.775					-.1620	-.2226				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (2) = -.007 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	.1668									
.798			-.0409							
.808				-.1023						
.834		.0036								
.839			-.1122							
.850					-.1022	-.1992	-.2986			
.857				-.0996						
.862									-.4128	
.865		-.1792								
.879			-.1127							
.900		-.0939			-.0819			-.3129		
.905				-.0963						
.919			-.0945							
.950					-.0703	-.0835	-.2041			
.953				-.0878						
.955			-.0912							
.965		-.1133								

ALPHA (3) = 3.927 BETA (1) = -3.876 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0560	.0266	-.0366	.3779	.7538	.7411	.7175	.7056	.0785	
.010		-.0169	-.0539		.3866	.4973	.4627	.3524		
.020		-.0341		.0000	.2857	.3316	.3252	.2862	-.0495	
.040			-.0435	.0442						
.041	-.0208									
.050					.0798	1067	.1007	.0949		
.069									-.0989	
.080					-.0735					
.081				-.0623						
.086			-.0071							
.094		-.0831								
.113	-.0380									
.150					-.2812	-.2315	-.1857	-.1460		
.157									-.2709	
.163			.0000							
.177				-.1866						
.229		-.0840								
.246			- 1247							
.247	-.0593									
.250					-.3473	-.3649	-.3328	-.3021		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (3) = 3.927 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										
.274				-.2745						
.345										
.362		-.0219							-.3395	
.390			-.2199							
.400					-.4317	-.4739		-.4534		
.402				-.3589						
.418										
.429	-.0543									-.1304
.497		-.1601								
.503										
.547	-.0626								-.4158	
.550										
.565					-.4445	-.5082				
.600				-.3511						
.633	-.2086							-.4748		
.637			-.3059							
.650										
.670							-.5051			
.700		-.2727							-.5653	
.723						-.5030				
.725										-.4809
.727	-.2416				-.2762					
.750										
.760							-.4107	-.4747		
.775				-.1762						
.793	-.1672				-.3130	-.4521				
.798			-.1647							
.808				-.1979						
.834		-.0639								
.839			-.1262							
.850					-.2388	-.2767	-.3866			
.857				-.1405						
.862										
.865		-.1656							-.6242	
.879			-.0704							
.900		-.0382			-.2237			-.3671		
.905				-.0975						
.919			-.0506							
.950					-.1621	-.2464	-.3498			
.953				-.0583						
.955			-.0428							
.965		-.0468								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (3) = 3.927 BETA (2) = .191 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

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	.0211	-.0803	-.2004	.2567	.6476	.6398	.6203	.6003	.0224	
.010		-.1309	-.1992		.2666	.3831	.3551	.2449		
.020		-.1340		.0000	.1795	.2357	.2316	.1933	-.1173	
.040			-.1506	-.0202						
.041	-.0725									
.050					.0092	.0328	.0279	.0193		
.069									-.1596	
.080					-.1264					
.081				-.1055						
.086			-.0684							
.094		-.1446								
.113	-.0394									
.150					-.3122	-.2712	-.2289	-.1923		
.157									-.3118	
.163			.0000							
.177				-.2062						
.223		-.1207								
.246			-.1401							
.247	-.1147									
.250					-.3591	-.3855	-.3626	-.3349		
.274				-.2765						
.345									-.3714	
.362		-.0347								
.390			-.2177							
.400					-.4246	-.4829		-.4706		
.402				-.3484						
.418										-.2480
.429	-.0684									
.497		-.1734								
.503									-.4381	
.547	-.0781									
.550					-.4151	-.4989				
.565				-.3404						
.600								-.4878		
.633	-.2303									
.637			-.3010							
.650							-.5071			
.670									-.5724	
.700		-.2731				-.4810				
.723										-.5810
.725					-.2100					
.727	-.2420									
.750							-.4345	-.4879		
.765				-.1671						
.775					-.2717	-.3416				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (3) = 3.927 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										
.793	-.0073									
.798			-.1332							
.808				-.1853						
.834		-.0246								
.839			-.1358							
.850					-.2462	-.1987	-.3841			
.857				-.1763						
.862									-.6305	
.865		-.1878								
.879			-.1398							
.900		-.1004			-.2204			-.3526		
.905				-.1391						
.919			-.0879							
.940					-.1485	-.1441	-.3443			
.953				-.0984						
.965			-.0767							
.955		-.0948								

ALPHA (3) = 3.930 BETA (3) = 4.244 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0086	-.2175	-.4142	.1299	.5380	.5430	.5270	.5094	-.0572	
.010		-.2716	-.3616		.1493	.2648	.2390	.1405		
.020		-.2515		.0000	.0719	.1306	.1276	.0942	-.1947	
.040			-.2293	-.0867						
.041	-.1128									
.050					-.0675	-.0457	-.0535	-.0609		
.059									-.2273	
.080					-.1785					
.081				-.1438						
.086			-.1195							
.094		-.2052								
.113	-.1572									
.150					-.3215	-.3063	-.2769	-.2436		
.157									-.3530	
.163			.0000							
.177				-.2008						
.209		-.1254								
.246			-.1345							
.247	-.1574									
.250					-.3510	-.4072	-.3934	-.3693		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (3) = 3.930 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										
.274				-.2579						
.345										
.362		-.0293							-.4094	
.390			-.2058							
.400										
.402					-.3939	-.4823		-.4905		
.418				-.3310						
.429	-.0709									-.4123
.437		-.1755								
.503										
.547	-.0771								-.4628	
.550										
.565					-.4029	-.4821				
.600				-.3310						
.633	-.2403							-.4993		
.637			-.2983							
.650										
.670							-.5192			
.700		-.2711							-.5857	
.723						-.4093				
.725										-.6605
.727	-.2391				-.1953					
.750										
.760							-.4757	-.4317		
.775				-.1589						
.793	.1074				-.2665	-.2950				
.799			-.0855							
.808				-.1938						
.824		-.0262								
.849			-.1624							
.850										
.857					-.2429	-.2016	-.3714			
.862				-.1882						
.865		-.2208							-.6277	
.879			-.1768							
.900		-.1245								
.905					-.2128			-.3426		
.919				-.1590						
.950			-.1107							
.953					-.1409	-.1388	-.3127			
.955				-.1207						
.965			-.1039							
		-.1301								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (4) = 7.863 BETA (1) = -3.871 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0936	-.0638	-.2150	.2663	.6914	.7124	.7042	.6718	.0210	
.010		-.1482	-.2453		.1569	.3038	.2691	.1372		
.020		-.1354		.0000	.0482	.1388	.1355	.0755	-.2289	
.040			-.1780	-.1508						
.041	-.0209									
.060					-.1208	-.0751	-.0754	-.1018		
.068									-.2558	
.080					-.2500					
.081				-.2562						
.088			-.1244							
.094		-.1165								
.113	-.0360									
.120					-.4225	-.3654	-.3307	-.2936		
.127									-.3953	
.143			.0000							
.145				-.3847						
.159		-.1222								
.166			-.2706							
.167	- 0571									
.180					-.5094	-.4789	-.4465	-.4140		
.194				-.4272						
.196									-.4871	
.199		-.1179								
.200			-.3302							
.200					-.5716	-.5685		-.5066		
.202				-.4460						
.218										-.3888
.229	-.1116									
.297		-.2580								
.303									-.5124	
.347	-.1645									
.350					-.5626	-.5652				
.355				-.4203						
.300								-.4833		
.333	-.3017									
.337			-.3911							
.350							-.5025			
.370									-.5835	
.700		-.3631				-.4947				
.723										-.5951
.746					-.3648					
.750	-.3150									
.760							-.4330	-.4357		
.775				-.2475						
.795					-.4445	-.4427				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (4) = 7.863 BETA (1) = -3.871

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	-.2833									
.799			-.2150							
.808				-.3017						
.834		-.1370								
.839			-.2447							
.850					-.2893	-.4117	-.4380			
.857				-.2658						
.868									-.5563	
.878		-.2160								
.879			-.1662							
.900		-.0926			-.2497			-.4456		
.913				-.1871						
.919			-.0734							
.930					-.1719	-.3444	-.4216			
.938				-.1143						
.952			-.0262							
.959		-.0614								

ALPHA (4) = 7.994 BETA (2) = .174 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

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	.0356	-.2259	-.4380	.0576	.5390	.5797	.5828	.5454	-.1408	
.010		-.2334	-.3946		-.0063	.1505	.1237	.0086		
.020		-.2750		.0000	-.1076	.0028	.0126	-.0455	-.3458	
.040			-.3188	-.2930						
.041	-.0551									
.050					-.2523	-.1851	-.1719	-.1978		
.069									-.3553	
.080					-.3498					
.081				-.3466						
.086			-.2276							
.094		-.1841								
.113	-.0991									
.150					-.4819	-.4215	-.3862	-.3548		
.157									-.4515	
.163			.0000							
.177				-.4371						
.229		-.1810								
.246			-.2741							
.247	-.1166									
.250					-.5323	-.5096	-.4827	-.4537		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8047)

ALPHA (4) = 7.994 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										
.274				-.3654						
.345										
.362		-.1522							-.5189	
.390			-.3012							
.400					-.5441	-.5819		-.5069		
.402				-.4064						
.418										
.429	-.1686									-.5347
.497		-.2355								
.503										
.547	-.1551								-.5490	
.550										
.555					-.4703	-.5633				
.600				-.3994						
.613	-.3049							-.4986		
.637			-.3921							
.650							-.5179			
.671										
.700		-.3518							-.5341	
.703						-.4971				
.708										-.5118
.727	-.3011				-.2428					
.741										
.760							-.4496	-.4634		
.775				-.2044						
.793	-.1285				-.3046	-.4399				
.798			-.1864							
.818				-.2904						
.824		-.0478								
.836			-.2223							
.850					-.2769	-.3978	-.4555			
.857				-.2722						
.880									-.5341	
.886		-.2075								
.899			-.2089							
.900		-.1215			-.2672			-.4695		
.905				-.2321						
.919			-.1361							
.930					-.2790	-.3354	-.4362			
.953				-.1592						
.965			-.0950							
.985		-.1305								

AMES 11-073(OA148) -140A/B/C/R OPB LEFT WING TOP (XE8047)

ALPHA (A) = 7.994 BETA (B) = 4.239 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2 9228

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	- 0186	-.4043	-.4143	-.1455	.3682	.4434	.4461	.4087	-.3084	
.010		- 3823	-.4072		-.1696	.0119	-.0170	-.1136		
.020		-.3823		.0000	-.2595	-.1153	-.1153	-.1620	-.4564	
.040			-.3971	-.3315						
.041	-.1121									
.060					-.3768	-.2711	-.2620	-.2930		
.080									-.4850	
.100					-.4511					
.101				.3122						
.120			-.3720							
.141		-.3733								
.160	-.1543									
.161					-.5035	-.4673	-.4369	-.4116		
.180									-.5101	
.181			.0000							
.200				-.3195						
.220		-.2075								
.240			-.4311							
.241	-.1745									
.260					-.4769	-.5408	-.5173	-.4936		
.274				-.3400						
.346									-.5233	
.322		-.1144								
.330			-.2822							
.400					-.4487	-.5923		-.5175		
.409				-.3831						
.418										-.5268
.463	-.1639									
.497		-.2403								
.503									-.5292	
.547	-.1407									
550					-.4412	-.5630				
.585				-.4050						
610								-.5169		
633	-.2939									
637			-.3752							
660							-.5310			
670									-.5094	
.710		-.3266				-.4668				
.713										-.4828
.736					-.2521					
.737	-.2970									
760							-.4641	-.4511		
763				-.1859						
.790					-.3302	-.4349				

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (NEB047)

ALPHA (4) = 7.994 BETA (3) = 4.239

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/CW	.2350	.2990	.3540	.4270	.5340	.5730	.7830	.8870	.9720	1.0000
.743	.0247									
.788			- 1528							
.808				-.2700						
.834		-.1097								
.888			-.2390							
900					-.2838	-.2874	-.4554			
904				-.2594						
908									-.5009	
.918		-.2510								
879			-.2003							
.900		-.1773			-.2573			-.4291		
914				-.2471						
.930			-.1439							
944					-.2275	-.2185	-.4052			
958				-.1822						
965			-.1701							
.97		-.1773								

ALPHA (5) = 11.987 BETA (1) = -3.858 MACH = 1.3955 Q = 600.34 P = 443.41 PS/L = 2.92-5

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/CW	.2350	.2990	.3540	.4270	.5340	.6730	.7830	.8870	.9720	1.0000
.700	.0206	-.2408	-.3733	.1089	.6008	.6418	.6359	.5748	-.1747	
.810		-.2870	-.3377		- 0262	.1224	.0918	-.0751		
848		-.2731		.0000	-.1956	-.0304	-.0575	-.1275	-.4685	
870			-.2728	-.3849						
894	-.0171									
918					-.2653	-.2201	-.2290	-.2046		
940									-.4875	
960					-.3852					
981				-.3641						
.060			-.2067							
.094		-.1995								
.113	-.0403									
.150					-.5128	-.4624	-.4301	-.4166		
.157									-.5347	
163			.0000							
177				-.4755						
.220		-.1721								
245			-.2905							
.247	-.0582									
.260					-.5743	-.5360	-.5210	-.4983		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (S) = 11.867 BETA (I) = -3.858

SECTION ( ) LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4734						
.345									-.5454	
.352		-.1541								
.380			-.3766							
.400					-.5601	-.5058		-.5072		
.402				-.4969						
.419										-.5407
.489	-.1347									
.497		-.3600								
.503									-.5501	
.547	-.2027									
.641					-.5114	-.5089				
.656				-.4764						
.680								-.5065		
.683	-.3974									
.687			-.4745							
.690							-.4929			
.670									-.5201	
.700		-.4667				-.4990				
.723										-.4904
.725					-.4861					
.727	-.4073									
.750							-.4572	-.4872		
.760				-.3284						
.775					-.4604	-.4480				
.783	-.3763									
.789			-.2338							
.808				-.4458						
.834		-.1732								
.839			-.3171							
.850					-.4285	-.4338	-.4579			
.857				-.3931						
.862									-.5187	
.865		-.2462								
.879			-.2579							
.900		-.0185			-.4065			-.5164		
905				-.2658						
.919			-.2346							
950					-.3817	-.3748	-.4301			
.953				-.2544						
.965			-.2327							
955		-.1178								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (5) = 11.873 BETA (2) = .176 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0630	-.3654	-.3675	-.0947	.4299	.4834	.4799	.4158	-.3431	
.010		-.3170	-.3614		-.1780	-.0299	-.0838	-.2008		
.020		-.3106		.0000	-.2760	-.1690	-.1933	-.2528	-.5761	
.040			-.3479	-.3805						
.041	-.0822									
.050					-.3992	-.3280	-.3336	-.3736		
.069									-.5496	
.080					-.4789					
.081				-.4145						
.086			-.3201							
.094		-.3550								
.113	-.1235									
.150					-.5762	-.5244	-.4942	-.4836		
.184									-.5463	
.183			.0000							
.197				-.4395						
.223		-.4179								
.246			-.3896							
.247	-.1098									
.250					-.6200	-.5935	-.5666	-.5472		
.274				-.4669						
.345									-.5579	
.382		-.2860								
.390			-.4036							
.400					-.5862	-.5790		-.5434		
.402				-.4983						
.418										-.5757
.439	-.1968									
.497		-.4089								
.503									-.5654	
.547	-.2682									
.550					-.5762	-.5795				
.565				-.4775						
.600								-.5444		
.633	-.4112									
.637			-.4864							
.650							-.5327			
.670									-.5363	
.700		-.4266				-.5483				
.723										-.5097
.725					-.4827					
.727	-.3344									
.750							-.4963	-.5103		
.760				-.2418						
.775					-.5410	-.4939				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (5) = 11.873 BETA (2) = .176

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									
.798			-.2219							
.808				-.3478						
.834		-.1676								
.838			-.3177							
.840					-.4479	-.4226	-.4[illegible]			
.857				-.3424					-.5387	
.862										
.865		-.2716								
.879			-.2738							
.900		-.1685			-.2869			-.5295		
.905				-.2985						
.919			-.2089							
.923					-.2950	-.3564	-.4308			
.928				-.3221						
.955			-.2210							
.965		-.1690								

ALPHA (5) = 11.868 BETA (3) = 4.257 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1432	-.3899	-.4080	-.2980	.2517	.3105	.3059	.2434	-.4655	
.010		-.3828	-.4110		-.3165	-.1721	-.2212	-.3329		
.020		-.3910		.0000	-.3946	-.2971	-.3196	-.3728	-.5544	
.040			-.4120	-.3898						
.041	-.1720									
.050					-.4904	-.4234	-.4327	-.4675	-.5530	
.069					-.5503					
.080				-.4186						
.081			-.3848							
.086		-.4396								
.094										
.113	-.1635				-.5860	-.5777	-.5527	-.5481	-.5539	
.150										
.157										
.163			.0000							
.177				-.4242						
.[illegible]		.5[illegible]8								
.[illegible]			-.4249							
.[illegible]										
247	-.1919				-.5850	-.6297	-.6098	-.5928		
250										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (S) = 11.868 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				-.4127						
.345									-.5620	
.362		-.3859								
.390			-.4077							
.400					-.6047	-.6165		-.5848		
.402				-.4617						
.418										-.5630
.429	-.2706									
.497		-.3668								
.547	-.2337								-.5658	
.566					-.5429	-.6111				
.585				-.4785						
.633	-.3816							-.5597		
.637			-.4655							
.650							-.5892			
.700		-.3691							-.5457	
.723						-.5437				
.735										-.5375
.737	-.3676				-.2740					
.750							-.5324	-.5417		
.760				-.2539						
.775					-.3809	-.5210				
.793	-.0483									
.798			-.2422							
.808				-.3681						
.834		-.1861								
.839			-.3286							
.850					-.3667	-.4418	-.5021			
.857				-.3637						
.862									-.5412	
.865		-.3107								
.879			-.2396							
.900		-.2356			-.3601			-.5219		
.905				-.3068						
.919			-.2327							
.950					-.3317	-.2496	-.4451			
.953				-.2594						
.955			-.2469							
.965		-.2816								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (S) = 15.839 BETA (I) = -3.834 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2550	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0335	-.3276	-.3061	-.0169	.4933	.5277	.5151	.4196	-.3397	
.010		-.2865	-.2912		-.1806	-.0463	-.1265	-.2767		
.020		-.2798		.0000	-.2831	-.1965	-.2402	-.3233	-.6141	
.040			-.2733	-.3475						
.041	-.1574									
.050					-.4070	-.3505	-.3770	-.4305		
.069									-.6061	
.080					-.4868					
.081				-.3791						
.085			-.2499							
.094		-.2926								
.113	-.0458									
.150					-.5842	-.5419	-.5211	-.5287		
.157									-.5954	
.163			.0000							
.177				-.3935						
.229		-.3657								
.246			-.3636							
.247	-.0791									
.250					-.5705	-.5672	-.5525	-.5704		
.274				-.4388						
.345									-.6046	
.362		-.3796								
.390			-.4016							
.400					-.5660	-.5563		-.5626		
.402				-.5016						
.418										-.6062
.429	-.1626									
.497		-.4824								
.503									-.6075	
.547	-.2505									
.550					-.5733	-.5681				
.565				-.5323						
.600								-.5747		
.633	-.4787									
.657			-.5170							
.650							-.5542			
.670									-.5777	
.700		-.5198				-.5613				
.723										-.5437
.725					-.5291					
.727	-.5264									
.750							-.5175	-.5465		
.760				-.3213						
.775					-.5592	-.5062				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (6) = 15.839 BETA (1) = -3.834

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	-.4030									
.798			-.2980							
.808				-.4344						
.834		-.2697								
.839			-.3751							
.850					-.4697	-.4834	-.5237			
.857				-.4609						
.862									-.5673	
.865		-.2657								
.873			-.3138							
.888		-.2496			-.4560			-.5862		
.905				-.4664						
.919			-.2942							
.930					-.4153	-.4371	-.4946			
.953				-.4555						
.965			-.3220							
.978		-.3596								

ALPHA (6) = 15.851 BETA (2) = .174 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1411	-.3726	-.3651	-.2339	.3103	.3493	.3316	.2410	-.4561	
.010		-.3652	-.3637		-.3209	-.1934	-.2576	-.3797		
.020		-.3659		.0000	-.3998	-.3238	-.3560	-.4230	-.5781	
.040			-.3620	-.3685						
.041	-.3184									
.050					-.4958	-.4454	-.4657	-.5081		
.069									-.5762	
.080					-.5564					
.081				-.4150						
.085			-.3296							
.094		-.3891								
.113	-.1326									
.150					-.6122	-.5929	-.5762	-.5822		
.157									-.5796	
.163			.0000							
.177				-.4600						
.229		-.4336								
.245			-.4428							
.247	-.1861									
.250					-.6167	-.6205	-.5897	-.6063		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU47)

ALPHA (6) = 15.851 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										
.274				-.4985						
.345									-.5952	
.362		-.4759								
.390			-.4628							
.400					-.6001	-.6054		-.5949		
.402				-.5436						
.418										-.6078
.429	-.2626									
.497		-.5307								
.503									-.6037	
.547	-.3508									
.550					-.6027	-.6146				
.565				-.5271						
.600								-.5849		
.633	-.5064									
.637			-.5245							
.650							-.5904			
.670									-.5682	
.700		-.5045				-.6063				
.723										-.5568
.725					-.5313					
.727	-.5178									
.750							-.5523	-.5696		
.760				-.3548						
.775					-.5640	-.5470				
.793	-.3130									
.798			-.2805							
.808				-.4272						
.834		-.2373								
.849			-.3266							
.860					-.5450	-.5115	-.5431			
.867				-.4316						
.882									-.5684	
.885		-.3054								
.879			-.2909							
.900		-.2373			-.4977			-.5800		
.905				-.4247						
.919			-.3372							
.950					-.3871	-.3981	-.4913			
.953				-.4413						
.955			-.3660							
.985		-.2948								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (6) = 15.843 BETA (3) = 4.283 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2370	-.4179	-.4413	-.4141	.1290	.1779	.1576	.0684	-.5340	
.010		-.4207	-.4429		-.4344	-.3206	-.3761	-.4894		
.020		-.4254		.0000	-.5025	-.4335	-.4584	-.5209	-.5590	
.040			-.4399	-.4141						
.041	-.4301									
.050					-.5711	-.5281	-.5427	-.5812		
.068									-.5567	
.090					-.6139					
.091				-.4294						
.096			-.4011							
.096		-.4529								
.113	-.2219									
.150					-.6194	-.6346	-.6229	-.5930		
.167									-.5576	
.168			.0000							
.177				-.4974						
.220		-.4893								
.246			-.5095							
.247	-.2670									
.250					-.6288	-.6240	-.6070	-.5883		
.274				-.5031						
.345									-.5579	
.362		-.5257								
.390			-.4710							
.400					-.6343	-.6211		-.5762		
.402				-.5038						
.418										-.5567
.429	-.3434									
.497		-.5075								
.503									-.5664	
.547	-.3774									
.550					-.6338	-.6143				
.565				-.5186						
.600								-.5533		
.633	-.4608									
.637			-.4602							
.650							-.5890			
.670									-.5432	
.700		-.4292				-.5880				
.723										-.5383
.725					-.4677					
.727	-.4338									
.750							-.5571	-.5412		
.760				-.3431						
.775					-.5323	-.5603				

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U47)

ALPHA (6) = 15.843 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										
.793	-.2204									
.798			-.2870							
.808				-.4344						
.834		-.2334								
.839			-.3857							
.850					-.5243	-.4844	-.5427			
.857				-.3929						
.882									-.5368	
.855		-.3337								
.879			-.2920							
.900		-.2831			-.5271			-.5382		
.905				-.4086						
.919			-.3165							
.950					-.5328	-.4247	-.5276			
.953				-.4208						
955			-.3397							
.965		-.3332								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 65.000
BDFLAP = 16.300 L-ELVN = 4.000
R-ELVN = 4.000 MACH = 1.250

ALPHA (1) = -4.024 BETA (1) = -3.849 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.3350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.0000	-.1980	-.0857	-.1193	.2711	.6607	.5969	.5541	.5798	-.4345	
.0100		-.0304	-.0134		.7253	.7055	6681	.5937		
.0200		-.0329		.0000	.6469	.6024	.5785	.5495	-.0491	
.0400			.0473	.4145						
.0441	-.0990									
.0600					.4419	.3978	.3792	.3546		
.0800									-.1077	
.0900					.2547					
.0981				.3039						
.1000			.1676							
.1094		-.0035								
.1113	-.0581									
.1200					.0174	.0155	.0327	.0500		
.1357									-.2484	
.1600			.0000							
.1777				.1000						
.2000		.0537								
.2046			.1001							
.2447	-.0012									
.2800					-.1198	-.1382	-.1299	-.1496		
.2974				-.0421						
.3456									-.2952	
.3882		.1535								
.4000			-.0229							
.4400					-.2625	-.3115		-.3793		
.4622				-.1999						
.4800										-.5083
.4900	.0497									
.5000		.0195								
.5033									-.3361	
.5347	.0757									
.5600					-.1973	-.3577				
.5965				.0153						
.6000								-.4544		
.6200	-.0465									
.6447			.1461							
.6800							-.4253			
.7000									-.4974	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (1) = -4.024 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		.1154				-.1186				
.723									-.4384	
.725					.0633					
.727	-.0633									
.750							-.4513	-.5160		
.760				.0535						
.775					-.0464	-.1103				
.797	.3460									
.799			.0544							
.815				-.0362						
.824		.0889								
.849			-.0415							
.867					-.0343	-.0940	-.1874			
.874				-.0609						
.900									-.4255	
.906		-.1372								
.925			-.0401							
.930		-.0354			-.0931			-.3464		
.935				-.0502						
.939			-.0620							
.950					-.0690	-.0481	.0123			
.953				-.0564						
.955			-.0549							
.988		-.0053								

ALPHA (1) = -4.006 BETA (2) = .189 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720	1.0000
X/CW										
.000	-.2188	-.0808	-.0729	.2416	.5963	.5108	.4634	.4785	-.5070	
.010		-.0687	-.0109		.6531	.6228	.5654	.5197		
.020		-.0801		.0000	.5758	.5330	.5063	.4813	-.1320	
.040			.0286	.3483						
.041	-.1712									
.060					.3899	.3424	.3197	.3167		
.069									-.1732	
.080					.2197					
.101				.2527						
.105			.1310							
.124		-.0256								
.150	-.1197									
.170					.0099	-.0068	.0084	.0319		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (1) = -4.006 BETA (2) = .189

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.0350	.0790	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.3051	
.163			.0000							
.177				.0922						
.229		.0278								
.246			.0714							
.247	-.0244									
.250					-.1218	-.1531	-.1507	-.1718		
.274				-.0369						
.296									-.3292	
.300		.1348								
.350			-.0237							
.400					-.2495	-.3045		-.3895		
.408				-.1808						
.418										-.5829
.439	.0340									
.497		-.0041								
.503									-.3610	
.547	.0635									
.550					.0130	-.3337				
.595				.1191						
.600								-.4416		
.638	-.0526									
.650			.1955							
.650							-.3820			
.670									-.4966	
.700		.1861				-.0319				
.702										-.5157
.750					.0799					
.750	.0346									
.750							-.1972	-.5170		
.750				.0348						
.750					-.0913	-.1173				
.750	.3437									
.774			.0869							
.800				-.0794						
.834		.0894								
.839			-.0951							
.850					-.0710	-.1256	-.1173			
.850				-.1046						
.850									-.3507	
.900		-.1733								
.900			-.0896							
.900		-.0481			-.1275			-.1631		
.900				-.1014						
.900			-.1033							

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU-8)

ALPHA (1) = -4.035 BETA (2) = .189

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.0	.0990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.050					-.1225	-.0906	.0013			
.053				-.0946						
.056			-.1029							
.059		-.0662								

ALPHA (1) = -4.015 BETA (3) = 4.273 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

SECTION (1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.0	.0990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.050	-.1433	-.0906	-.0381	.2531	.5334	.4322	.3769	.3878	-.5002	
.053		-.1009	-.0134		.6711	.5350	.4955	.4336		
.056		-.1006		.0000	.5062	.4499	.4241	.3994	-.2112	
.059	-.1857		.0233	.3057						
.062					.3373	.2786	.2570	.2476		
.065									-.2436	
.068					.1829					
.071				.2116						
.074			.1121							
.077		-.0330								
.080	-.1681									
.083					-.0089	-.0375	-.0175	-.0016		
.087									-.3581	
.183			.0000							
.283				.0743						
.383		.0126								
.483			.0731							
.583	-.0240									
.683					-.1331	-.1716	-.1844	-.2036		
.783				-.0460						
.883									-.3683	
.983		.1379								
1.083			-.0264							
1.183					-.2484	-.2953		-.3960		
1.283				-.1904						
1.383										-.6281
1.483	.0331									
1.583		-.0307								
1.683									-.3681	
1.783	.0469									
1.883					.0662	-.0628				
1.983				.1550						

DATE 11 FEB 76 TABULATED PRESSU- TA - OA148 (AMES 11-073-1)

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (XES0+8)

ALPHA (1) = -4.015 BETA (3) = 4.273

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2830	.3840	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600								-.4358		
.633	-.0711									
.637			.2076							
.660							-.1116			
.670									-.4765	
.710		.3019				.0179				
.730										-.4143
.750					.0723					
.770	.1319									
.790							-.1423	-.2488		
.810				.0125						
.830					-.1199	-.1359				
.850	.3366									
.870			.0075							
.890				-.1109						
.910		.0393								
.930			-.1165							
.950					-.1015	-.1515	-.1211			
.970				-.1377						
.990									-.1160	
1.010		-.1399								
1.030			-.1268							
1.050		-.0867			-.1530			-.0307		
1.070				-.1410						
1.090			-.1341							
1.110					-.1579	-.1236	-.0372			
1.130				-.1282						
1.150			-.1365							
1.170		-.1104								

ALPHA (2) = 0.0 BETA (1) = -3.869 MACH = 1.2460 Q = 699.82 P = 552.04 RN/L = 3.0347

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/B=	.2350	.2830	.3840	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.600	-.0889	.0087	.0108	-.153	.7158	.6563	.6317	.6432	-.2498	
.633		-.0141	.0295		.5739	.6020	.5676	.4692		
.637		-.0998		.0000	.4880	.4567	.4436	.4148	-.0578	
.660			.0641	.2615						
.670	-.0941									
.710					.2383	.2089	.2065	.2013		
.730									-.1340	
.750					.0470					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (2) = .012 BETA (1) = -3.869

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				.1238						
.086			.1139							
.094		-.0868								
.113	-.0583									
.150					-.1575	-.1480	-.1335	-.1080		
.167									-.3146	
.183			.0000							
.197				-.0700						
.209		-.0066								
.218			-.0246							
.247	-.0756									
.260					-.2682	-.3170	-.3105	-.3002		
.274				-.1897						
.346									-.3771	
.362		.0815								
.380			-.1532							
.403					-.3758	-.4467		-.4954		
.422				-.3270						
.418										-.2585
.429	.0081									
.437		-.0920								
.503									-.4348	
.547	.0003									
.550					-.3987	-.4838				
.555				-.3015						
.600								-.5224		
.633	-.1443									
.637			-.1761							
.650							-.5303			
.670									-.5844	
.700		-.2132				-.3965				
.723										-.2864
.725					-.1204					
.727	-.2140									
.750							-.5940	-.5837		
.760				-.0525						
.775					-.1211	-.2431				
.793	.1770									
.798			-.0311							
.808				-.0393						
.824		.0354								
.833			-.0547							
.850					-.0728	-.2043	-.3292			
.857				-.0658						
.900									-.5626	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU48)

ALPHA (2) = .012 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										
.865		-.1598								
.879			-.0613							
.900		-.0430			-.1033			-.2872		
.905				-.0698						
.919			-.0705							
.950					-.0657	-.0668	-.2495			
.953				-.0760						
.955			-.0682							
.965		-.0547								

ALPHA (2) = .020 BETA (2) = .189 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1068	-.0614	-.0262	.3664	.6370	.5803	.5414	.5472	-.3032	
.010		-.0938	-.0054		.4850	.5139	.4773	.3876		
.020		-.1175		.0000	.3861	.3783	.3635	.3351	-.1277	
.040			.0147	.1724						
.041	-.1524									
.050					.1821	.1520	.1496	.1398		
.069									-.1984	
.090					.0089					
.091				.0701						
.095			.0636							
.098		-.1383								
.113	-.1359									
.150					-.1705	-.1785	-.1686	-.1344		
.157									-.3564	
.163			.0000							
.177				-.0758						
.229		-.0222								
.248			-.0416							
.247	-.1148									
.250					-.2735	-.3214	-.3257	-.3197		
.274				-.1743						
.345									-.3973	
.352		.0629								
.390			-.1459							
.400					-.3699	-.4452		-.5008		
.402				-.3227						
.418										-.1795
.429	-.0068									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (2) = .020 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										
.497		-.1094								
.503									-.4316	
.547	-.0162									
.550					-.3775	-.4644				
.565				-.2296						
.600								-.5263		
.623	-.1531									
.627			-.0384							
.640							-.5325			
.670									-.5643	
.700		-.0792				-.2298				
.723										-.3753
.735					-.0984					
.747	-.1951									
.750							-.5399	-.5528		
.760				-.0602						
.775					-.1140	-.2395				
.793	.2126									
.798			-.0443							
.808				-.0965						
.834		-.0044								
.839			-.1206							
.850					-.0868	-.1785	-.3139			
.857				-.1217						
.862									-.4960	
.865		-.2052								
.879			-.1135							
.900		-.0960			-.1371			-.2651		
.905				-.1181						
.919			-.1164							
.950					-.1239	-.0568	-.2122			
.953				-.1139						
.955			-.1133							
.965		-.1224								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (2) = .014 BETA (3) = 4.249 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION (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	-.1566	-.0860	.3194	.5748	.5022	.4604	.4601	-.2176	
.010		-.1954	-.0602		.3986	.4219	.3840	.3004		
.020		-.2015		.0000	.3089	.2934	.2766	.2510	-.1776	
.040			-.0171	.1345						
.041	-.1962									
.050					.1251	.0915	.0792	.0712		
.069									-.2358	
.080					-.0266					
.081				.0482						
.086			.0413							
.094		-.1544								
.113	-.1936									
.150					-.1847	-.2138	-.2090	-.1768		
.157									-.3812	
.163			.0000							
.177				-.0727						
.229		-.0333								
.246			-.0374							
.247	-.1245									
.250					-.2794	-.3298	-.3444	-.3504		
.274				-.1750						
.345									-.4075	
.382		.0612								
.320			-.1511							
.400					-.3623	-.4394		-.5165		
.402				-.3191						
.418										-.2131
.499	-.0006									
.497		-.1199								
.503									-.4375	
.547	-.0230									
.550					-.2591	-.4488				
.555				-.0919						
.600								-.5368		
.633	-.1744									
.637			.0064							
.650							-.5197			
.670									-.5643	
.700		-.0025				-.2091				
.723										-.5327
.725					-.0646					
.727	-.1273									
.750							-.4208	-.4396		
.760				-.0692						
.775					-.1376	-.1889				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (2) = .014 BETA (3) = 4.249

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2450	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	.2129									
.798			-.0596							
.808				-.1372						
834		-.0288								
.839			-.1612							
850					-.1150	-.1624	-.2291			
.857				-.1641						
.862									-.3498	
.865		-.2337								
.879			-.1575							
.900		-.1291			-.1679			-.2309		
.905				-.1614						
919			-.1549							
.950					-.1658	-.0850	-.0818			
.953				-.1504						
.955			-.1546							
.965		-.1679								

ALPHA (3) = 3.961 BETA (1) = -3.873 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0011	-.0014	-.1072	.4002	.7301	.7064	.6821	.6675	.0490	
.010		-.0570	-.1157		.3508	.4469	.4040	.2766		
.020		-.0794		.0000	.2359	.2672	.2536	.2085	-.1273	
.040			-.0864	.0339						
.041	-.0739									
.060					.0212	.0253	.0152	-.0049		
.069									-.1819	
.080					-.1525					
.091				-.0890						
.096			-.0209							
.094		-.1373								
.113	-.0687									
.150					-.3507	-.3360	-.2911	-.2533		
.157									-.3806	
.163			.0000							
.177				-.2326						
.229		-.1035								
.246			-.1395							
.247	-.0380									
250					-.4429	-.4750	-.4497	-.4188		

AMES 11-073(OA148) -140A/B/C/R ORB LE"T WING TOP (XE8U48)

ALPHA (3) = 3.961 BETA (1) = -3.873

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				-.3232						
.345									-.4600	
.362		-.0019								
.390			-.2583							
.400					-.5019	-.5842		-.5837		
.402				-.4204						
.418										-.2224
.429	-.0505									
.497		-.1844								
.503									-.5524	
.507	-.0746									
.510					-.5092	-.6150				
.585				-.4022						
.600								-.5910		
.633	-.2468									
.637			-.3503							
.650							-.5908			
.670									-.6880	
.700		-.3288				-.5790				
.723										-.6457
.725					-.1992					
.727	-.2955									
.750							-.4518	-.4313		
.760				-.1633						
.775					-.2492	-.2901				
.793	.0028									
.798			-.1294							
.808				-.1274						
.834		-.0253								
.839			-.0846							
.850					-.2292	-.1844	-.4263			
.857				-.1193						
.882									-.7195	
.865		-.1915								
.879			-.0886							
.900		-.0487			-.1846			-.3783		
.905				-.0988						
.919			-.0759							
.950					-.0897	-.1272	-.3606			
.953				-.0707						
.955			-.0763							
.965		-.0967								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (3) = 3.960 BETA (2) = .185 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2250	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0357	-.1422	-.2906	.2738	.6324	.6183	.5950	.5759	-.0271	
.010		-.2008	-.2424		.2341	.3442	.3082	.1841		
.020		-.1970		.0000	.1533	.1816	.1716	.1163	-.2033	
.040			-.1401	-.0276						
.041	-.1379									
.050					-.0344	-.0345	-.0474	-.0691		
.069									-.2465	
.080					-.1878					
.081				-.1267						
.086			-.0563							
.094		-.2079								
.113	-.1473									
.130					-.3545	-.3584	-.3239	-.2914		
.157									-.4208	
.163			.0000							
.177				-.2200						
.229		-.1044								
.246			-.1434							
.247	-.1560									
.250					-.4289	-.4842	-.4706	-.4463		
.274				-.3012						
.345									-.4883	
.352		-.0099								
.380			-.2464							
.400					-.4777	-.5750		-.5989		
.402				-.4073						
.418										-.3672
.420	-.0525									
.427		-.1923								
.443									-.5672	
.447	-.0845									
.450					-.4921	-.5918				
.465				-.3847						
.500								-.6121		
.523	-.2573									
.537			-.2662							
.650							-.6081			
.670									-.7011	
.700		-.3234				-.3932				
.723										-.7306
.725					-.2194					
.727	-.2949									
.750							-.4654	-.4449		
.760				-.1670						
.775					-.2885	-.3033				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (3) = 3.950 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	.1246									
.798			-.1175							
.808				-.1691						
.834		-.0422								
.839			-.1687							
.850					-.2128	-.2095	-.4295			
.857				-.1615						
.882									-.7156	
.885		-.2613								
.879			-.1562							
.900		-.1124			-.1840			-.3606		
.905				-.1506						
.919			-.1187							
.940					-.1143	-.1279	-.3334			
.953				-.1266						
.955			-.1204							
.965		-.1353								

ALPHA (3) = 3.964 BETA (3) = 4.240 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0626	-.3173	-.3725	.1411	.5457	.5245	.5077	.4766	-.1337	
.010		-.3627	-.2781		.1341	.2290	.1892	.0608		
.020		-.3265		.0000	.0622	.0848	.0702	.0072	-.2998	
.040			-.2219	-.0748						
.041	-.1792									
.052					-.0896	-.1068	-.1254	-.1572		
.069									-.3298	
.080					-.2155					
.081				-.1406						
.086			-.1737							
.094		-.2713								
.113	-.2012									
.150					-.3551	-.3943	-.3720	-.3468		
.157									-.4670	
.163			.0000							
.177				-.2188						
.229		-.1125								
.248			-.1220							
.247	-.2047									
.250					-.4117	-.4968	-.4972	-.4826		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (3) = 3.964 BETA (3) = 4.240

SECTION (11)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2867						
.345									-.5348	
.352		-.0048								
.330			-.2320							
.402					-.4657	-.5705		-.6170		
.423				-.3986						
.418										-.5842
.413	-.0451									
.497		-.1952								
.503									-.5958	
.547	-.0820									
.550					-.4626	-.5630				
.555				-.3261						
.711								-.6148		
.663	-.2710									
.637			-.2075							
.650							-.6049			
.670									-.7309	
.703		-.3008				-.3043				
.723										-.7268
.726					-.2092					
.727	-.2873									
.752							-.4856	-.4604		
.760				-.1501						
.775					-.2601	-.3121				
.793	.1416									
.778			-.1001							
.806				-.1921						
.836		-.0639								
.860			-.1983							
.850					-.1846	-.2324	-.4414			
.857				-.2066						
.882									-.6967	
885		-.2885								
.879			-.1957							
900		-.1435			-.1997			-.3348		
.905				-.1959						
919			-.1532							
.930					-.1712	-.1635	-.2675			
.933				-.1747						
.955			-.1551							
.965		-.1736								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8048)

ALPHA (4) = 7.858 BETA (1) = -3.868 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0530	-.1180	-.3485	.2154	.6348	.6577	.6571	.6083	-.0877	
.010		-.2099	-.3664		.0343	.1940	.1478	.0018		
.020		-.1964		.0000	-.0759	.0177	.0096	-.0702	-.3929	
.040			-.2689	-.2439						
.041	-.0550									
.050					-.2476	-.1986	-.2064	-.2511		
.069									-.4071	
.080					-.3813					
.081				-.3633						
.086			-.1943							
.094		-.1906								
.113	-.0697									
.150					-.5487	-.4956	-.4683	-.4405		
.157									-.5460	
.163			.0000							
.177				-.4688						
.228		-.1704								
.246			-.3046							
.247	-.1051									
.250					-.6266	-.6072	-.5834	-.5544		
.274				-.4379						
.345									-.5942	
.352		-.1319								
.380			-.3479							
.400					-.6558	-.7007		-.6037		
.402				-.4985						
.416										-.5739
.429	-.1521									
.497		-.2847								
.503									-.6053	
.547	-.1592									
.550					-.5778	-.6705				
.565				-.4681						
.600								-.5925		
.633	-.3320									
.637			-.4433							
.650							-.5959			
.670									-.5566	
.700		-.4194				-.5702				
.723										-.5442
.725					-.2844					
.727	-.3562									
.750							-.5215	-.5190		
.760				-.2340						
.775					-.3601	-.4805				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (4) = 7.898 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	-.2021									
.798			-.1789							
.808				-.2805						
.834		-.0488								
.839			-.2007							
.850					-.2497	-.4214	-.5094			
.857				-.2154						
.862									-.5521	
.875		-.2325								
.879			-.1797							
.900		-.0563			-.2330			-.5187		
.905				-.1652						
.919			-.0819							
.940					-.1823	-.3353	-.4606			
.943				-.1137						
.946			-.0522							
.965		-.0915								

ALPHA (4) = 8.000 BETA (2) = .178 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0068	-.3257	-.5440	-.0190	.4981	.5468	.5433	.4905	-.2695	
.010		-.3995	-.5083		-.0990	.0665	.0208	-.1162		
.020		-.3722		.0000	-.1971	-.0834	-.0936	-.1760	-.5146	
.040			-.4081	-.3638						
.041	-.1294									
.060					-.3319	-.2752	-.2868	-.3334		
.069									-.5160	
.080					-.4218					
.081				-.3162						
.096			-.3150							
.094		-.2548								
.113	-.1502									
.150					-.5515	-.5325	-.5097	-.4870		
.157									-.5934	
.163			.0000							
.177				-.3655						
.209		-.2388								
.215			-.2789							
.217	-.1582									
.250					-.5970	-.6245	-.6095	-.5872		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (4) = 8.000 BETA (2) = .178

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				-.3917						
.345									-.6158	
.362		-.1102								
.390			-.3374							
.400					-.5715	-.7027		-.6196		
.402				-.4616						
.418										-.6336
.429	-.1505									
.497		-.2777								
.503									-.6227	
.547	-.1488									
.560					-.5359	-.6715				
.566				-.4630						
.600								-.6059		
.633	-.3331									
.637			-.4639							
.660							-.6038			
.670									-.5860	
.700		-.4056				-.5453				
.723										-.5599
.726					-.2494					
.727	-.3563									
.750							-.5307	-.5123		
.750				-.1995						
.775					-.3416	-.4448				
.793	-.0193									
.798			-.1780							
.808				-.2850						
.824		-.0658								
.829			-.2267							
.840					-.3058	-.3030	-.5101			
.847				-.2789						
.867									-.5707	
.868		-.2818								
.870			-.2052							
.880		-.1332			-.2862			-.5028		
.905				-.2278						
.919			-.1353							
.930					-.2135	-.2736	-.4563			
.933				-.1832						
.955			-.1254							
.965		-.1710								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (+) = 8.03 BETA (3) = 4.235 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

SECTION 1 LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y BW	.2350	.0930	.3840	.4270	5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0545	-.5326	-.5039	-.1814	.3535	4189	.4159	.3532	-.4622	
.010		-.4779	.4847		-.2101	-.0682	-.1183	-.2473		
.020		-.4126		.0010	-.2933	-.1919	-.2150	-.2986	-.6156	
.040			-.4545	-.2234						
.041	-.1714									
.060					-.3085	-.3590	-.3675	-.4309		
.080									-.6030	
.081					-.4633					
.100				-.2676						
.120			-.4090							
.121		-.4934								
.140	-.2080									
.160					-.5593	-.5677	-.5524	-.5457		
.161									-.6018	
.180			.0000							
.200				-.2058						
.201		-.2403								
.220			-.3535							
.241	-.2281									
.260					-.4959	-.6410	-.6392	-.6265		
.280				-.3513						
.285									-.6198	
.300		-.0269								
.320			-.2571							
.400					-.5093	-.6873		-.6442		
.402				-.4572						
.418										
.429	-.1329									-.6128
.497		-.2338								
.503										
.547	-.1313								-.6134	
.560										
.565					-.5121	-.6507				
.600				-.4761						
.633	-.3483							-.6214		
.641			-.4169							
.660							-.6105			
.679									-.5926	
.700		-.3946				-.4973				
.723										-.5792
.725					-.2509					
.737	-.3593									
.760							-.5396	-.5443		
.780				-.1875						
.798					-.3240	-.3978				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE80-8)

ALPHA (+) = 8.003 BETA (3) = 4.235

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/CW	.2950	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	.0505									
.799			-.1616							
.808				-.2890						
.834		-.1250								
.839			-.2581							
.860					-.2407	-.2252	-.5131			
.867				-.2743						
.882									-.5837	
.888		-.3147								
.911			-.2180							
.918		-.1734			-.2363			-.5105		
.938				-.3813						
.941			-.1859							
.960					-.1983	-.1945	-.4279			
.967				-.2020						
.970			-.2255							
.988		-.2216								

ALPHA (1) = 11.933 BETA (1) = -3.954 MACH = 1.2460 Q = 599.95 P = 858.88 PA/ = 3.0281

SECT 1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

P+/CW	.9350	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.733	.0400	-.3248	-.4936	-.6001	.6078	.5483	.5355	.4402	-.3661	
.799		-.3083	-.4470		-.1886	-.0433	-.1285	-.2935		
.808		-.0794		.0000	-.3022	-.2030	-.2513	-.3467	-.6215	
.834			-.3747	-.4843						
.839	-.0813									
.860					-.4472	-.3875	-.4042	-.4781		
.867									-.6076	
.882					-.5430					
.888				-.5159						
.911			-.3053							
.918		-.0833								
.938	-.0791									
.941					-.6781	-.6290	-.6061	-.6100		
.960									-.6157	
.967			.0000							
.970				-.5936						
.988		-.3769								
.991			-.3789							
1.000	-.1000									
					-.7335	-.5989	-.6217	-.6123		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (5) = 11.933 BETA (1) = -3.854

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.345									-.6330	
.362		-.1884								
.390			-.4688							
.400					-.7305	-.6625		-.6369		
.402				-.5862						
.418										-.6458
.429	-.1884									
.497		-.4505								
.503									-.6448	
.547	-.2810									
.550					-.6800	-.6476				
.595				-.5766						
.600								-.6175		
.633	-.4622									
.647			-.5174							
.650							-.5990			
.670									-.5876	
.700		-.5207				-.6136				
.723										-.5625
.725					-.5718					
.727	-.4474									
.750							-.5654	-.6057		
.760				-.2920						
.775					-.5890	-.5609				
.793	-.2243									
.798			-.2386							
.808				-.3875						
.834		-.1593								
.839			-.2935							
.850					-.4820	-.4678	-.5385			
.857				-.3246						
.862									-.5876	
.865		-.2708								
.879			-.2402							
.900		-.0542			-.4653			-.6069		
.905				-.2507						
.919			-.2214							
.950					-.3979	-.3960	-.4595			
.953				-.1763						
.965			-.2256							
.985		-.1411								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU48)

ALPHA (5) = 11.941 BETA (2) = .176 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0308	-.4765	-.4680	-.2056	.3315	.3811	.3647	.2696	-.5220	
.010		-.4177	-.4586		-.3408	-.1968	-.2824	-.4301		
.020		-.4049		.0000	-.4398	-.3410	-.3914	-.4773	-.6472	
.040			-.4468	-.4894						
.041	-.1369									
.050					-.5600	-.4976	-.5266	-.5836		
.069									-.6446	
.080					-.6396					
.081				-.5073						
.088			-.4201							
.094		-.4616								
.113	-.1773									
.150					-.7405	-.6928	-.6727	-.6798		
.157									-.6479	
.163			.0000							
.177				-.4887						
.189		-.5318								
.196			-.4614							
.197	-.1684									
.250					-.7351	-.7602	-.6901	-.7015		
.274				-.5106						
.345									-.6510	
.362		-.3794								
.390			-.4354							
.400					-.7457	-.7410		-.6963		
.402				-.5140						
.418										-.6440
.469	-.2577									
.497		-.4037								
.503									-.6571	
.547	-.2523									
.550					-.6839	-.7183				
.595				-.5163						
.600								-.6590		
.633	-.4472									
.637			-.5561							
.650							-.6381			
.670									-.6278	
.700		-.4746				-.6453				
.723										-.6192
.725					-.3370					
.727	-.4324									
.750							-.5779	-.6337		
.750				-.2413						
.775					-.4171	-.5941				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (5) = 11.941 BETA (2) = .176

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	-.1450									
.798			-.2385							
.808				-.4106						
.834		-.1523								
.839			-.3398							
.850					-.3806	-.4828	-.5375			
.857				-.4004						
.882									-.6224	
.896		-.2950								
.903			-.2728							
.920		-.1851			-.3061			-.6169		
.928				-.3716						
.939			-.2057							
.950					-.1890	-.3710	-.4660			
.953				-.3262						
.965			-.2687							
.966		-.2175								

ALPHA (5) = 11.936 BETA (3) = 4.253 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0916	-.5061	-.5136	-.4255	.1537	.1966	.1914	.0918	-.6343	
.010		-.4929	-.5169		-.4857	-.3532	-.4096	-.53??		
.020		-.4898		.0000	-.5605	-.4824	-.5083	-.5825	-.6265	
.040			-.5195	-.4262						
.041	-.2014									
.050					-.6548	-.5994	-.6140	-.6648		
.069									-.6184	
.080					-.6734					
.081				-.4123						
.096			-.4897							
.094		-.5621								
.113	-.2236									
.150					-.6749	-.7221	-.7083	-.6988		
.157									-.6116	
.174			.0000							
.177				-.4406						
.209		-.6507								
.216			-.4831							
.247	-.2577									
.250					-.6326	-.6994	-.6731	-.6981		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U48)

ALPHA (5) = 11.936 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				-.4566						
.345									-.6019	
.362		-.3511								
.390			-.5425							
.400					-.6307	-.6938		-.6260		
.402				-.5124						
.418										-.5999
.429	-.2839									
.497		-.3608								
.503									-.6099	
.547	-.2135									
.550					-.5596	-.6441				
.585				-.5270						
.600								-.6066		
.633	-.4098									
.637			-.5061							
.650							-.5207			
.670									-.5934	
.700		-.4021				-.5973				
.723										-.5803
.725					-.2294					
.727	-.4052									
.750							-.5891	-.5893		
.760				-.2409						
.775					-.3834	-.3829				
.793	-.0186									
.798			-.2202							
.808				-.3976						
.834		-.2050								
.839			-.2997							
.850					-.3389	-.5533	-.5681			
.857				-.3718						
.882									-.5848	
.865		-.3258								
.879			-.2702							
.900		-.2060			-.3595			-.5799		
.905				-.3322						
.919			-.2421							
.950					-.3570	-.1792	-.4824			
.953				-.2800						
.955			-.2416							
.965		-.2854								

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 4.000
R-ELVN = 4.000 MACH = 1.100

ALPHA (1) = -4.022 BETA (1) = -3.848 MACH = 1.1001 Q = 600.26 P = 708.59 RN/L = 3.1930

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2857	-.1158	-.1612	.2669	.5935	.5212	.4735	.4906	-.6325	
.010		-.0543	-.0495		.7167	.6882	.6489	.5688		
.020		-.0517		.0000	.6395	.5927	.5676	.5230	-.1337	
.040			.0368	.4688						
.041	-.1503									
.050					.4328	.3833	.3650	.3403		
.069									-.1956	
.080					.2429					
.081				.3573						
.086			.2391							
.094		-.0158								
.113	-.1177									
.150					.0201	.0043	.0079	-.0023		
.157									-.3542	
.163			.0000							
.177				.0752						
.229		.0289								
.246			.1742							
.247	.0021									
.250					-.1399	-.2022	-.2242	-.2589		
.274				-.0295						
.345									-.3606	
.362		.2112								
.390			-.0153							
.400					-.0780	-.2187		-.4685		
.402				-.1385						
.418										-.7024
.429	.1167									
.497		.0183								
.503									-.3961	
.547	.1285									
.550					.0895	-.0493				
.565				.1850						
.600								-.2456		
.634	-.0175									
.637			.2330							
.650							-.1665			
.670									-.3089	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (1) = -4.022 BETA (1) = -3.948

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		.2555				-.0571				
.723										-.5859
.725					-.0051					
.727	.2241									
.750							-.2861	-.3194		
.760				-.0580						
.775					-.2338	-.2804				
.793	.3553									
.798			-.0424							
.809				-.1981						
.834		-.0118								
.839			-.1952							
.850					-.1974	-.2235	-.2055			
.857				-.2014						
.862									-.1710	
.865		-.2740								
.879			-.1525							
.900		-.1321			-.2373			-.1103		
.905				-.1620						
.919			-.1834							
.950					-.1458	-.1502	-.0325			
.953				-.1700						
.955			-.1593							
.965		-.1385								

ALPHA (1) = -4.022 BETA (2) = .189 MACH = 1.1001 Q = 600.26 P = 708.59 RN/L = 3.1930

SECTION (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	-.1189	-.0981	.2811	.5349	.4451	.3897	.4018	-.7024	
.010		-.0922	-.0251		.6540	.6219	.5930	.5323		
.020		-.0796		.0000	.5855	.5439	.5285	.4931	-.2078	
.040			.0451	.4223						
.041	-.2397									
.050					.4025	.3560	.3497	.3329		
.069									-.2485	
.080					.2371					
.081				.3326						
.085			.2268							
.094		-.0434								
.113	-.1832									
.150					.0454	.0304	.0296	.0150		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (1) = -4.022 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									-.3544	
.163			.0000							
.177				.1172						
.229		.0242								
.246			.1641							
.247	-.0175									
.253					-.0978	-.1542	-.1705	-.2246		
.274				-.0110						
.345									-.2877	
.352		.1997								
.398			-.0030							
.400					.0458	-.0386		-.2950		
.402				-.0337						
.418										-.7878
.429	.1050									
.437		.0566								
.503									-.3012	
.547	.1340									
.550					.0723	-.0627				
.565				.1694						
.600								-.3041		
.633	.0508									
.637			.2129							
.650							-.1870			
.670									-.3771	
.700		.2425				-.0821				
.723										-.5147
.725					-.0275					
.727	.2185									
.750							-.3209	-.3687		
.760				-.0788						
.775					-.2606	-.3030				
.793	.3309									
.798			-.0649							
.808				-.2323						
.834		-.0352								
.839			-.2363							
.850					-.2297	-.2537	-.2577			
.857				-.2480						
.862									-.1695	
.865		-.3104								
.879			-.1955							
.900		-.1690			-.2830			-.1861		
.904				-.2122						
.919			-.2262							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (1) = -4.022 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					-.2186	-.2036	-.1236			
.953				-.2211						
.955			-.2106							
.965		-.2052								

ALPHA (1) = -4.029 BETA (3) = 4.271 MACH = 1.1001 Q = 600.26 P = 708.59 RN/L = 3.1930

SECTION (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	-.1419	-.0478	.3308	.4987	.3767	.3004	.3045	-.7697	
.010		-.0938	.0087		.6030	.5531	.5117	.4540		
.020		-.0794		.0000	.5422	.4850	4514	.4188	-.2977	
.040			.0605	.3986						
.041	-.3030									
.050					.3743	.3212	.2983	.2771		
.069									-.3154	
.080					.2285					
.081				.3225						
.086			.2209							
.094		-.0629								
.113	-.2430									
.150					.0469	.0233	.0055	-.0026		
.157									-.3752	
.163			.0000							
.177				.1321						
.209		.0282								
.246			.1783							
.247	-.0313									
.250					-.0742	-.1542	-.1625	-.1904		
.274				.0232						
.345									-.3280	
.362		.2046								
.390			.0284							
.400					.0438	-.0389		-.3007		
.402				-.0313						
.418										-.4129
.429	.1242									
.497		.0618								
.503									-.2942	
.547	.1457									
.550					.0535	-.0717				
.565				.1463						

AMES 11-073(OA148) -140A/C/C/R ORB LEFT WING TOP (XEBU49)

ALPHA (1) = -4.029 BETA (3) = 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										
.600								-.3215		
.633	.0552									
.637			.1855							
.650							-.2053			
.670									-.3580	
.700		.2150				-.1119				
.725										-.2818
.735					-.0558					
.747	.1902									
.750							-.3511	-.3907		
.760				-.1050						
.775					-.2888	-.3318				
.784	.3051									
.795			-.0916							
.800				-.2683						
.814		-.0636								
.830			-.2777							
.850					-.2652	-.2902	-.3119			
.857				-.2927						
.862									-.1342	
.865		-.3460								
.879			-.2515							
.900		-.2135			-.3237			-.2235		
.905				-.2735						
.919			-.2735							
.930					-.2902	-.2469	-.1870			
.953				-.2707						
.955			-.2673							
.965		-.2626								

ALPHA (2) = .025 BETA (1) = -3.866 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1545	-.0302	-.0115	.4532	.6756	.6067	.5751	.5830	-.3953	
.010		-.0731	.0272		.5607	.5742	.5290	.4131		
.020		-.1013		.0000	.4521	.4231	.4002	.3517	-.1559	
.040			.0520	.2902						
.041	-.1573									
.060					.2171	.1651	.1455	.1253		
.080									-.2379	
.080					.0193					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (2) = .025 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										
.081				.1442						
.086			.1402							
.094		-.0999								
.113	-.1171									
.150					-.2174	-.2530	-.2320	-.2093		
.157									-.4452	
.163			.0000							
.177				-.0739						
.229		-.0220								
.246			.0193							
.247	-.0831									
.250					-.3318	-.4000	-.4218	-.4279		
.274				-.2174						
.345									-.4880	
.358		.1081								
.390			-.1822							
.400					-.4597	-.5508		-.6457		
.402				-.3870						
.418										-.1568
.429	.0593									
.497		-.1053								
.503									-.5369	
.547	.0247									
.550					-.0994	-.4492				
.595				.0227						
.600								-.6474		
.633	-.2025									
.637			.1065							
.650							-.5681			
.670									-.4211	
.700		.0996				-.1233				
.723										-.4575
.725					-.0382					
.727	.0199									
.750							-.2580	-.3608		
.760				-.0791						
.775					-.2398	-.2504				
.793	.2744									
.808			-.0654							
.808				-.1994						
.824		-.0320								
.839			-.1966							
.850					-.2030	-.1682	-.0507			
.857				-.2079						
.862									-.3027	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (2) = .025 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										
.865		-.2546								
.879			-.1640							
.900		-.1429			-.2289			-.2100		
.905				-.1819						
.919			-.1812							
.930					-.1048	-.0658	.0885			
.953				-.1777						
.955			-.1738							
.965		-.1838								

ALPHA (2) = .030 BETA (2) = .186 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION (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	-.1239	-.0375	.4185	.6084	.5308	.4950	.5094	-.2260	
.010		-.1664	-.0163		.4791	.4916	.4525	.3559		
.020		-.1871		.0000	.3767	.3534	.3255	.3039	-.1573	
.040			.0278	.2282						
.041	-.2305									
.050					.1589	.1051	.0991	.0864		
.069									-.2241	
.080					-.0174					
.081				.0967						
.085			.1298							
.094		-.1177								
.113	-.1902									
.150					-.2279	-.2601	-.2416	-.2149		
.157									-.4319	
.163			.0000							
.177				-.0917						
.229		-.0332								
.246			-.0115							
.247	-.0970									
.250					-.3272	-.3593	-.4120	-.4315		
.274				-.2181						
.345									-.4468	
.362		.0903								
.390			-.1819							
.400					-.4350	-.5194		-.6120		
.402				-.3696						
.418										-.1748
.429	.0617									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU49)

ALPHA (2) = .030 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		-.1130								
.503										
.547	.0090								-.5040	
.550					.0116	-.1110				
.565				.0952						
.600								-.5978		
.633	-.2018									
.637			.1384							
.650							-.1887			
.670									-.4810	
.700		.1203				-.1117				
.723										-.5373
.725					-.0489					
.727	.0824									
.750							-.2940	-.2995		
.760				-.0927						
.775					-.2766	-.2941				
.793	.2603									
.798			-.0814							
.808				-.2318						
.834		-.0634								
.839			-.2253							
.850					-.2399	-.2305	-.1472			
.857				-.2384						
.862									-.2419	
.865		-.2839								
.879			-.1961							
.900		-.1706			-.2816			-.0312		
.905				-.2162						
.919			-.2112							
.950					-.1896	-.1521	.0385			
.953				-.2124						
.955			-.2079							
.965		-.2200								

AMES 11-073(OA148) -140A/B/C/R ORU LEFT WING TOP (XE8L49)

ALPHA (2) = .026 BETA (3) = 4.247 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/DW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1955	-.2457	-.0701	.3824	.5816	.4813	.4299	.4301	-.1864	
.010		-.2854	-.0295		.4212	.4106	.3635	.2509		
.020		-.2854		.0000	.3285	.2764	.2449	.1989	-.2145	
.040			.0210	.1974						
.041	-.2936									
.050					.1365	.0527	.0238	-.0015		
.059									-.2808	
.080					-.0...					
.081				.0847						
.086			.1038							
.094		-.1272								
.113	-.2516									
.150					-.2096	-.2662	-.2700	-.2683		
.157									-.4705	
.162			.0000							
.177				-.0734						
.329		-.0193								
.346			.0242							
.347	-.0944									
.350					-.3044	-.3666	-.3900	-.4588		
.374				-.1845						
.345										
.362		.0939							-.4671	
.390			-.1569							
.400					-.3924	-.4999		-.6175		
.402				-.3190						
.418										
.419	.0525									-.2664
.407		-.0087								
.503										
.547	.0182								-.5191	
.550					-.0077	-.1141				
.574				.0689						
.625								-.5232		
.633	-.1659									
.637			.1041							
.650							-.1935			
.676									-.4218	
.700		.1161				-.1328				
.723										-.6896
.725					-.0790					
.727	.0856									
.750							-.3399	-.2362		
.700				-.1272						
.775					-.3061	-.3340				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEEL49)

ALPHA (2) = .026 BETA (3) = 4.247

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	.2271									
.798			-.1157							
.808				-.2725						
.834		-.0953								
.839			-.2779							
.850					-.2807	-.2773	-.2246			
.8[illegible]				-.2853						
.882									-.2603	
.885		-.3369								
.870			-.2463							
.900		-.2202			-.3312			-.0239		
.900				-.2706						
.919			-.2612							
.950					-.2792	-.2185	-.0411			
.953				-.2667						
.[illegible]			-.2635							
.956		-.2650								

ALPHA (3) = 3.995 BETA (1) = -3.857 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

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	-.0728	-.0795	-.1395	.4700	.7093	.6827	.6646	.6320	.0125	
.010		-.1508	-.1178		.3248	.3957	.3334	.1508		
.020		-.1716		.0000	.2034	.2057	.1677	.0839	-.2571	
.040			-.0599	.0497						
.041	-.1469									
.059					-.0380	-.0607	-.0918	-.1523		
.060									-.3247	
.080					-.2190					
.081				-.1057						
.096			-.0041							
.099		-.2222								
.118	-.1236									
.150					-.3904	-.4528	-.4230	-.4037		
.157									-.5448	
.163			.0000							
.177				-.2665						
.279		-.0835								
.298			-.1417							
.297	-.1721									
.250					-.5034	-.5813	-.5915	-.5764		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (3) = 3.995 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										
.274				-.3669						
.345									-.6439	
.362		.0344								
390			-.3010							
.400					-.5814	-.7202		-.7595		
.402				-.4982						
.418										-.4332
.429	.0066									
.497		-.1995								
.503									-.6087	
.547	-.0731									
.550					-.3301	-.7179				
.565				-.2077						
.600								-.6068		
.633	-.3091									
.637			-.1218							
.650							-.5778			
.670									-.5458	
.700		-.1747				-.4337				
.723										-.5425
.725					-.1764					
.727	-.3288									
.750							-.4871	-.4417		
.760				-.1180						
.775					-.2739	-.2493				
.793	.1975									
.798			-.0937							
.808				-.1655						
.834		-.0504								
.839			-.1959							
.850					-.1531	-.1313	-.3979			
.857				-.1856						
.862									-.5280	
.865		-.3025								
.879			-.1525							
.900		-.1345			-.1208			-.3666		
.905				-.1415						
.919			-.1367							
.950					-.0241	-.0702	-.2880			
.953				-.0636						
.955			-.1223							
.965		-.1766								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (3) = 3.996 BETA (2) = .185 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1155	-.2344	-.2518	.3820	.6299	.5992	.5888	.5498	-.0909	
.010		-.3045	-.1973		.2192	.2877	.2271	.0562		
.020		-.2989		.0000	.1145	.1155	.0817	-.0157	-.3460	
.040			-.1113	.0006						
.041	-.2200									
.050					-.0933	-.1280	-.1592	-.2152		
.069									-.3859	
.080					-.2598					
.081				-.1278						
.088			-.0250							
.094		-.2941								
.113	-.2042									
.150					-.4014	-.4729	-.4549	-.4365		
.157									-.5819	
.163			.0000							
.177				-.2587						
.229		-.0900								
.246			-.1474							
.247	-.2261									
.250					-.4932	-.5808	-.6032	-.5961		
.274				-.3614						
.345									-.6663	
.352		.0297								
.390			-.2984							
.400					-.5506	-.6861		-.7658		
.403				-.4858						
.416										-.6042
.429	.0017									
.497		-.2092								
.503									-.6925	
.547	-.0896									
.550					-.2381	-.6667				
.565				-.1667						
.600								-.7323		
.633	-.3148									
.637			-.0929							
.650							-.6859			
.670									-.5623	
.700		-.1034				-.2463				
.723										-.5697
.725					-.1397					
.727	-.2528									
.750							-.5374	-.4495		
.750				-.1299						
.775					-.2652	-.2777				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (3) = 3.996 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	.1972									
.798			-.0988							
.808				-.2146						
.834		-.0723								
.839			-.2544							
.850					-.2141	-.1575	-.2843			
.857				-.2297						
.862									-.5651	
.855		-.3409								
.879			-.2032							
.900		-.1681			-.2110			-.4010		
.905				-.2230						
.919			-.1966							
.950					-.0623	-.0504	-.0738			
.953				-.1528						
.955			-.1990							
.965		-.2073								

ALPHA (3) = 3.999 BETA (3) = 4.239 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1574	-.4400	-.3264	.2834	.5613	.5265	.4929	.4339	-.2836	
.010		-.4855	-.1914		.1157	.1790	.1002	-.0774		
.020		-.4489		.0000	.0329	.0191	-.0355	-.1494	-.4845	
.040			-.1059	-.0288						
.041	-.2858									
.050					-.1304	-.1941	-.2486	-.3135		
.069									-.4956	
.080					-.2722					
.081				-.1324						
.086			-.0148							
.094		-.3222								
.113	-.2825									
.150					-.4026	-.4973	-.5029	-.5056		
.157									-.6478	
.163			.0000							
.177				-.2449						
.229		-.0793								
.245			-.1352							
.247	-.2492									
.250					-.4633	-.5962	-.6251	-.6390		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU49)

ALPHA (3) = 3.999 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				-.3194						
.345									-.7048	
.362		.0336								
.390			-.2585							
.400					-.5388	-.6530		-.7875		
.402				-.4341						
.418										-.7359
.429	.0255									
.497		-.1784								
.503									-.7121	
.547	-.0495									
.550					-.2306	-.6196				
.565				-.1456						
.600								-.7397		
.633	-.2872									
.637			-.0499							
.650							-.7104			
.670									-.6337	
.700		-.0299				-.2560				
.723										-.6240
.725					-.1370					
.727	-.1798									
.750							-.3245	-.5000		
.760				-.1312						
.775					-.3088	-.3220				
.793	.1771									
.799			-.1251							
.808				-.2977						
.819		-.1092								
.849			-.3243							
.850					-.2915	-.2203	-.1404			
.857				-.3061						
.862									-.6289	
.869		-.3724								
.879			-.2717							
.900		-.2256			-.3255			-.4103		
.905				-.2988						
.919			-.2576							
.950					-.2188	-.1484	-.0096			
.953				-.2872						
.955			-.2614							
.965		-.2707								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (4) = 7.942 BETA (1) = -3.865 MACH = 1.1006 Q = 600.80 P = 708.61 RN/L = 3.1953

SECTION (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	-.2313	-.5247	.2409	.6164	.6211	.5910	.4945	-.2815	
.010		-.3305	-.5247		-.0502	.0751	-.0242	-.2236		
.020		-.3052		.0000	-.1304	-.1070	-.1576	-.3027	-.6655	
.040			-.3830	-.1964						
.041	-.1525									
.050					-.3066	-.3306	-.3811	-.4795		
.069									-.5975	
.080					-.4527					
.081				-.3145						
.086			-.2844							
.094		-.2802								
.113	-.1277									
.150					-.6550	-.6481	-.6486	-.6477		
.157									-.6025	
.163			.0000							
.177				-.4291						
.229		-.2424								
.246			-.2317							
.247	-.1857									
.250					-.6975	-.7745	-.6648	-.6350		
.274				-.4791						
.345									-.5692	
.362		-.0153								
.390			-.3791							
.400					-.7067	-.7684		-.6508		
.402				-.5820						
.418										-.5718
.429	-.0900									
.497		-.2861								
.503									-.5557	
.547	-.1098									
.550					-.5683	-.6570				
.565				-.4358						
.600								-.5591		
.633	-.3954									
.637			-.3704							
.650							-.5598			
.670									-.5248	
.700		-.5091				-.5923				
.723										-.4995
.725					-.2864					
.727	-.4377									
.750							-.5157	-.5297		
.760				-.1600						
.775					-.3651	-.4871				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (4) = 7.942 BETA (1) = -3.865

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	.0968									
.798			-.1202							
.808				-.1956						
.834		.0095								
.839			-.2215							
.850					-.2631	-.3920	-.4649			
.857				-.1926						
.862									-.4978	
.865		-.2920								
.879			-.1591							
.900		-.0654			-.1921			-.5071		
.905				-.1422						
.919			-.1167							
.950					-.1003	-.2746	-.4064			
.953				-.1053						
.955			-.1030							
.965		-.1433								

ALPHA (4) = 8.042 BETA (2) = .178 MACH = 1.1006 Q = 600.80 P = 708.61 RN/L = 3.1953

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1018	-.4692	-.6831	.0457	.4976	.4973	.4707	.3749	-.4737	
.010		-.5276	-.5907		-.1548	-.0483	-.1476	-.3386		
.020		-.4928		.0000	-.2450	-.2065	-.2652	-.4009	-.6408	
.040			-.4733	-.2416						
.041	-.2209									
.060					-.3630	-.4019	-.4613	-.5576		
.069									-.6373	
.080					-.4948					
.081				-.3049						
.086			-.3718							
.094		-.3670								
.113	-.2223									
.150					-.6609	-.6764	-.6863	-.6950		
.157									-.6203	
.163			.0000							
.177				-.3828						
.229		-.2323								
.245			-.2746							
.247	-.2627									
.250					-.6685	-.7872	-.7218	-.6872		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (4) = 8.042 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				-.4480						
.345									-.5962	
.352		.0099								
.390			-.4007							
.400					-.6692	-.8163		-.7243		
.402				-.5580						
.418										-.5939
.429	-.0624									
.497		-.2982								
.503									-.5860	
.547	-.1214									
.550					-.5265	-.6844				
.565				-.4801						
.600								-.5891		
.633	-.4039									
.637			-.3283							
.650							-.5961			
.670									-.5650	
.700		-.4353				-.5684				
.723										-.5528
.725					-.2194					
.727	-.4243									
.750							-.5343	-.5649		
.760				-.1259						
.775					-.3703	-.4469				
.793	.1084									
.798			-.1325							
.808				-.2473						
.834		-.0767								
.839			-.3006							
.850					-.2890	-.2961	-.4662			
.857				-.2556						
.862									-.5454	
.865		-.3327								
.879			-.1715							
.900		-.1502			-.2478			-.5413		
.905				-.2300						
.919			-.1842							
.950					-.1073	-.1994	-.4297			
.953				-.1864						
.955			-.1842							
.965		-.1876								

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (4) = 8.044 BETA (3) = 4.232 MACH = 1.1006 Q = 600.80 P = 708.61 RN/L = 3.1953

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1605	-.6802	-.4578	-.0586	.3622	.3681	.3269	.2199	-.6824	
.010		-.6028	-.4186		-.2746	-.1873	-.3063	-.4854		
.020		-.5780		.0000	-.3361	-.3209	-.4069	-.5420	-.7462	
.040			-.3952	-.1299						
.041	-.2830									
.050					-.4111	-.4887	-.5534	-.6624		
.069									-.7287	
.080					-.5046					
.081				-.2002						
.086			-.2630							
.094		-.6516								
.113	-.3104									
.150					-.5885	-.7122	-.7371	-.76F3		
.157									-.7162	
.163			.0000							
.177				-.2917						
.229		-.1813								
.246			-.2482							
.247	-.3215									
.250					-.5798	-.7994	-.8254	-.8366		
.274				-.3893						
.345									-.7091	
.362		.0472								
.390			-.3332							
.400					-.5939	-.8320		-.8279		
.402				-.5162						
.418										-.7007
.429	-.0282									
.497		-.2654								
.503									-.7013	
.547	-.0978									
.550					-.4616	-.7441				
.565				-.3070						
.600								-.6996		
.633	-.3812									
.657			-.1971							
.650							-.6866			
.670									-.6796	
.700		-.2937				-.3337				
.723										-.6662
.725					-.1719					
.727	-.3806									
.750							-.5649	-.6667		
.760				-.2035						
.775					-.3493	-.3854				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (4) = 8.044 BETA (3) = 4.232

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			-.1553							
.808				-.3735						
.834		-.1534								
.839			-.3556							
.850					-.2854	-.2511	-.4950			
.857				-.4044						
.862									-.6694	
.865		-.3773								
.879			-.2870							
.900		-.2491			-.3289			-.6409		
.905				-.3329						
.919			-.3120							
.950					-.1773	-.1734	-.4498			
.953				-.2538						
.955			-.3016							
.965		-.3242								

ALPHA (5) = 11.980 BETA (1) = -3.845 MACH = 1.0980 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION (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	-.4668	-.6465	-.1580	.3706	.3923	.3669	.2498	-.5977	
.010		-.5275	-.5931		-.4388	-.2972	-.4044	-.5723		
.020		-.5140		.0000	-.5533	-.4598	-.5295	-.6306	-.6754	
.040			-.5112	-.6210						
.041	-.1547									
.050					-.6877	-.6367	-.6849	-.7592		
.069									-.6378	
.080					-.7858					
.081				-.7010						
.086			-.4254							
.094		-.3852								
.113	-.1450									
.150					-.8196	-.7790	-.7635	-.8251		
.157									-.6249	
.163			.0000							
.177				-.6103						
.[illegible]		-.3334								
.246			-.3915							
.247	-.1913									
.250					-.8149	-.7646	-.7635	-.8020		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (5) = 11.980 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				-.4510						
.345									-.6199	
.362		-.2403								
.390			-.4518							
.400					-.7312	-.7331		-.6362		
.402				-.5938						
.418										-.6123
.429	-.2675									
.497		-.3954								
.503									-.6326	
.547	-.1618									
.550					-.6925	-.7135				
.565				-.5072						
.600								-.6218		
.633	-.4472									
.637			-.4891							
.650							-.6471			
.670									-.5892	
.700		-.5906				-.6412				
.723										-.5639
.725					-.5239					
.727	-.5078									
.750							-.6074	-.6086		
.760				-.2437						
.775					-.6845	-.5702				
.793	.0095									
.798			-.2614							
.808				-.5131						
.834		-.0802								
.839			-.3220							
.850					-.3885	-.4463	-.5758			
.857				-.5176						
.862									-.5649	
.865		-.3211								
.879			-.3219							
.900		-.1393			-.3397			-.5987		
.905				-.4735						
.919			-.3015							
.950					-.2419	-.3468	-.5240			
.953				-.3299						
.955			-.3029							
.965		-.2899								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U49)

ALPHA (5) = 11.986 BETA (2) = 181 MACH = 1.0980 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Y/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1334	-.6331	-.6074	-.3874	.1953	.2406	.2128	.1014	-.7269	
.010		-.5464	-.5972		-.5858	-.4221	-.5146	-.6809		
.020		-.5246		.0000	-.6732	-.5797	-.6377	-.7319	-.6695	
.040			-.5800	-.3714						
.041	-.2366									
.050					-.7282	-.7150	-.7639	-.8324		
.069									-.6508	
.080					-.7219					
.081				-.3328						
.086			-.5389							
.094		-.6029								
.113	-.2603									
.150					-.7209	-.8385	-.8038	-.8853		
.157									-.6435	
.163			.0000							
.177				-.3919						
.223		-.6901								
.246			-.4466							
.247	-.2629									
.250					-.7021	-.8149	-.8189	-.6842		
.274				-.5085						
.345									-.6428	
.362		-.1759								
.380			-.5583							
.400					-.7270	-.7775		-.6525		
.402				-.6139						
.418										-.6312
.429	-.2459									
.497		-.3359								
.503									-.6570	
.547	-.0960									
.550					-.6441	-.7389				
.565				-.5945						
.600								-.6558		
.633	-.5042									
.637			-.6405							
.650							-.6776			
.670									-.6168	
.700		-.5279				-.6817				
.723										-.6034
.725					-.3549					
.727	-.5300									
.750							-.6608	-.6389		
.760				-.2218						
.775					-.4977	-.5707				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU49)

ALPHA (5) = 11.986 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										
.793	-.0622									
.798			-.1690							
.809				-.4685						
.834		-.1303								
.839			-.2958							
.850					-.4693	-.4351	-.6256			
.857				-.4458						
.862									-.5861	
.865		-.2816								
.879			-.2668							
.900		-.1501			-.3507			-.6261		
.905				-.4481						
.919			-.2894							
.930					-.1627	-.3028	-.5537			
.953				-.3994						
.965			-.3237							
.966		-.2790								

ALPHA (5) = 11.982 BETA (3) = 4.250 MACH = 1.0980 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2109	-.6745	-.6612	-.4137	.0849	.0929	.0517	-.0687	-.7961	
.010		-.6475	-.6569		-.6384	-.5395	-.6358	-.7859		
.020		-.6402		.0000	-.7085	-.6738	-.7353	-.8240	-.7207	
.040			-.6240	-.1613						
.041	-.3287									
.050					-.7367	-.7858	-.8429	-.7845		
.069									-.7055	
.080					-.7348					
.081				-.2506						
.085			-.5247							
.094		-.7099								
.113	-.3239									
.150					-.6795	-.8613	-.8207	-.7658		
.157									-.6913	
.163			.0000							
.177				-.4638						
.220		-.8275								
.246			-.4527							
.247	-.3750									
.250					-.6235	-.8492	-.8030	-.7344		

AMES 11-073(OA149) -140A/B/C/R CPB LEFT WING TOP (XEBU49)

ALPHA (5) = 11.982 BETA (3) = 4.250

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

X/CW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
.274				-.4465						
.345									-.6887	
.382		-.0303								
.390			-.4544							
.400					-.6410	-.7893		-.7247		
.432				-.5688						
.478										-.6830
.488	-.2008									
.497		-.3133								
.518									-.6994	
.547	-.1031									
.580					-.5047	-.7540				
.550				-.6405						
.600								-.7070		
.613	-.0455									
.637			-.4750							
.650							-.7287			
.670									-.6667	
.700		-.4396				-.6652				
.723										-.5511
.725					-.2922					
.727	-.4748									
.750							-.7221	-.6859		
.750				-.2559						
.775					-.5579	-.6236				
.783	-.0225									
.798			-.1840							
.808				-.4789						
.824		-.1681								
.839			-.4029							
.850					-.4847	-.4199	-.6715			
.867				-.4521						
.882									-.6357	
.805		-.3332								
.879			-.3181							
.900		-.2303			-.4967			-.6682		
.905				-.3906						
.919			-.2893							
.950					-.3454	-.2738	-.5697			
.953				-.4135						
.955			-.2884							
.965		-.3066								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEB50) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0660 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 4.000
R-ELVN = 4.000 MACH = .900

ALPHA (1) = -4.039 BETA (1) = -3.850 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

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	-.4395	-.0448	-.0993	.1468	.4070	.3139	.2477	.2653	-1.0868	
.010		.0334	.0557		.6168	.5786	.5360	.4434		
.020		.0464		.0000	.5474	.4937	.4604	.3957	-.3914	
.040			.1630	.3903						
.041	-.0440									
.050					.3334	.2843	.2477	.1985		
.069									-.4644	
.080					.1399					
.081				.2644						
.089			.2915							
.094		.0544								
.113	.0446									
.150					-.0870	-.1299	-.1441	-.1848		
.157									-.5676	
.163			.0000							
.177				-.0048						
.229		.1628								
.246			.0d51							
.247	.0769									
.250					-.2840	-.3389	-.3785	-.4934		
.274				-.1543						
.345									-.4764	
.352		.1588								
.390			-.1256							
.400					-.2122	-.3342		-.6255		
.402				-.1907						
.418										-.5098
.429	.1632									
.497		-.0793							-.3881	
.503										
.547	.0328									
.550					-.1677	-.3288				
.565				-.0473						
.600								-.3687		
.633	-.1047									
.647			.0094							
.650							-.2797			
.670									-.0819	

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (1) = -4.039 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										
.700		.0506				-.1840				
.723										-.2174
.725					-.1962					
.727	.0273									
.750							-.2488	-.0967		
.760				-.2018						
.775					-.4812	-.2455				
.793	.1616									
.798			-.1809							
.808				-.2400						
.832		-.1947								
.849			-.1835							
.850					-.0173	-.0502	.0242			
.857				-.0401						
.862									.0383	
.865		-.3680								
.879			-.0546							
.900		-.1025			.0284			.0959		
.905				.0144						
.919			-.0102							
.950					.0877	.0941	.1202			
.953				.0615						
.955			.0332							
.965		.0145								

ALPHA (1) = -4.026 BETA (2) = .188 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4564	.0024	-.0197	.1625	.3491	.2289	.1465	.1518	-.7115	
.010		.0412	.0691		.5507	.5008	.4605	.3819		
.020		.0360		.0000	.4880	.4338	.4003	.3413	-.4338	
.040			.1493	.3371						
.041	-.0705									
.050					.2945	.2422	.2187	.1680		
.069									-.4893	
.080					.1205					
.081				.2328						
.086			.2510							
.094		.0345								
.113	.0286									
.150					-.0801	-.1192	-.1334	-.1910		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U50)

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

ALPHA (1) = -4.026 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										
.157									-.5566	
.163			.0000							
.177				-.0009						
.229		.1415								
.246			.0645							
.247	.0574									
.250					-.2570	-.3026	-.3587	-.4854		
.274				-.1425						
.345									-.4435	
.362		.1399								
.390			-.1137							
.400					-.2048	-.3220		-.5954		
.402				-.1880						
.418										-.3523
.429	.1374									
.497		-.0750								
.503									-.3448	
.547	.0192									
.550					-.1978	-.3473				
.565				-.0785						
.600								-.5308		
.633	-.1082									
.637			-.0253							
.650							-.4472			
.670									-.0741	
.700		.0201				-.2983				
.723										-.1902
.725					-.2720					
.727	-.0052									
.750							-.2616	-.1240		
.760				-.2709						
.775					-.5938	-.3328				
.793	.1172									
.798			-.2321							
.808				-.5208						
.834		-.2425								
.839			-.3757							
.850					-.0531	-.0967	-.0118			
.857				-.0847						
.862									.0154	
.865		-.4989								
.877			-.1114							
.900		-.1768			.0084			.0599		
.905				-.0130						
.919			-.0380							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (1) = -4.026 BETA (2) = .188

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2*BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
*BW										
.235					.0768	.0516	.0877			
.237				.0454						
.239			.0146							
.241		-.1885								

ALPHA (1) = -4.037 BETA (3) = 4.267 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2*BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
*BW										
.000	-.4903	.0240	.0255	.1804	.2972	.1579	.0638	.0697	-.6768	
.010		.0386	.0835		.4791	.4250	.3846	.3121		
.020		.0299		.0000	.4271	.3709	.3367	.2783	-.4840	
.040			.1409	.2634						
.041	-.1122									
.080					.2489	.2006	.1746	.1233		
.082									-.5407	
.080					.0979					
.081				.1931						
.096			.2230							
.044		0219								
.113	.0039									
.120					-.0803	-.1254	-.1391	-.2068		
.157									-.5750	
.163			.0000							
.177				-.0076						
.220		.1255								
.246			.0518							
.247	.0509									
.250					-.2435	-.2909	-.3427	-.4778		
.274				-.1312						
.345									-.4505	
.362		.1234								
.390			-.1070							
.400					-.2111	-.3174		-.5889		
.402				-.1857						
.418										-.3673
.439	.1240									
.447		-.0869								
.503									-.4240	
.547	.0117									
.580					-.2233	-.3692				
.585				-.1081						

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (1) = -4.037 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										
.600								-.5721		
.633	-.1075									
.637			-.0603							
.650							-.4878			
.670									-.1039	
.700		-.0196				-.3510				
.723										-.1944
.725					-.3164					
.727	-.0369									
.760							-.2936	-.1529		
.760				-.2974						
.775					-.6412	-.4149				
.793	.0769									
.798			-.2721							
.808				-.6165						
.834		-.2929								
.839			-.5597							
.850							-.1393	-.1313	-.0737	
.857				-.1599						
.862									.0078	
.865		-.5834								
.879			-.2056							
.900		-.2594					-.0192		.0125	
.905				-.0451						
.919			-.0825							
.950							.0544	.0378	.0262	
.953				.0243						
.976			-.0126							
.976		-.0552								

ALPHA (2) = .032 BETA (1) = -3.867 MACH = .89853 Q = 599.04 P = 1060.0 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	-.3630	.0464	.1090	.3786	.5453	.4805	.4486	.4529	-.3605	
.010		.0454	.1521		.4573	.4656	.4166	.2636		
.020		.0268		.0000	.3388	.2976	.2667	.1958	-.2814	
.040			.1887	.2004						
.041	-.1192									
.050					.0712	.0141	-.0163	-.0590		
.059									-.3820	
.080					-.1492					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (2) = .032 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										
.091				.0405						
.086			.2211							
.094		.0119								
.113	-.0287									
.150					-.3743	-.4278	-.4372	-.4445		
.157									-.6867	
.163			.0000							
.177				-.2417						
.229		.1057								
.245			-.0943							
.247	.0299									
.250					-.5196	-.6268	-.6654	-.6702		
.274				-.3882						
.345									.7295	
.362		.0357								
.330			-.3314							
.400					-.3256	-.5092		-.9480		
.402				-.3997						
.418										-.3169
.429	.0961									
.497		-.2440								
.503									-.7784	
.547	-.1060									
.550					-.2197	-.3895				
.565				-.0949						
.600								-.1724		
.633	-.2892									
.637			-.0357							
.650							-.1324			
.670									-.2327	
.700		-.0009				-.1396				
.723										-.3996
.725					-.1715					
.727	-.0371									
.750							-.1554	-.0496		
.760				-.1774						
.775					-.3023	-.1818				
.793	.1206									
.798			-.1684							
.808				-.1564						
.834		-.1673								
.839			-.1450							
.850					.0093	-.0036	.0681			
.857				-.0220						
.862									-.0638	

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (2) = .032 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		-.2797								
.879			-.0350							
.900		-.0815			.0533			.1178		
.905				.0334						
.919			.0142							
.950					.1083	.1246	.1517			
.953				.0776						
.955			.0569							
.965		.0376								

ALPHA (2) = .035 BETA (2) = .184 MACH = .89853 Q = 599.04 P = 1060.0 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	-.4121	.0141	.0882	.3469	.4970	.4100	.3718	.3692	-.3672	
.010		-.0025	.1120		.3758	.3847	.3334	.1971		
.020		-.0159		.0000	.2646	.2222	.1922	.1283	-.3594	
.040			.1496	.1408						
.041	-.2174									
.050					.0203	-.0355	-.0673	-.1084	-.4325	
.059					-.1682					
.080										
.081				.0021						
.086			.1765							
.094		-.0171								
.113	-.0386									
.150					-.3670	-.4080	-.4374	-.4614	-.7184	
.157										
.163			.0000							
.177				-.2452						
.229		.0801								
.246			-.1054							
.247	.0096									
.250					-.4824	-.6036	-.6592	-.6899		
.274				-.3664					-.7229	
.345										
.382		.0176								
.390			-.2973							
.400					-.3090	-.4248		-.9018		
.402				-.3806						-.3862
.418										
.429	.0723									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (2) = .035 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										
.497		-.2567								
.503									-.7547	
.547	-.1216									
.550					-.2466	-.4262				
.565				-.1335						
.600								-.3181		
.633	-.2885									
.637			-.0772							
.660							-.4681			
.670									-.1948	
.700		-.0439				-.2663				
.723										-.4374
.725					-.2686					
.727	-.0637									
.750							-.1482	-.0507		
.775				-.2508						
.775					-.5052	-.2209				
.792	.0730									
.798			-.2307							
.819				-.3298						
.834		-.2307								
.839			-.2835							
.850					-.0354	-.0544	.0515			
.857				-.0666						
.882									-.0443	
.865		-.3990								
.879			-.1003							
.900		-.1804			.0226			.1198		
.925				-.0011						
.919			-.0306							
.950					.0834	.0975	.1330			
.953				.0542						
.955			.0214							
.965		-.0065								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (2) = .028 BETA (3) = 4.248 MACH = .89953 Q = 599.04 P = 1060.0 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	-.4444	-.0348	.0588	.3114	.4490	.3642	.3184	.3080	-.3268	
.010		-.0443	.0857		.2893	.2981	.2428	.1069		
.020		-.0424		.0000	.1691	.1500	.1147	.0443	-.4015	
.040			.1242	.0969						
.041	-.3069									
.050					-.0290	- 0821	-.1190	-.1724		
.069									-.4826	
.080					-.2019					
.081				-.0224						
.086			.1472							
.094		-.0270								
.113	-.0459									
.150					-.3683	-.4196	-.4458	-.4860		
.157									-.7480	
.163			.0000							
.177				-.2338						
.229		.0701								
.246			-.1188							
.247	.0071									
.250					-.4828	-.5946	-.6797	-.7086		
.274				-.2976						
.345									-.5952	
.362		.0129								
.390			-.2630							
.400					-.3077	-.4376		-.7634		
.402				-.3500						
.418										-.4877
.429	.0659									
.497		-.2364								
.503									-.5926	
.547	-.1186									
.550					-.2769	-.4442				
.565				-.1558						
.600								-.5542		
.633	-.2531									
.637			-.1079							
.650							-.5207			
.670									-.1924	
.700		-.0677				-.3599				
.723										-.5177
.725					-.3220					
.727	-.0918									
.750							-.2102	-.0923		
.780				-.2919						
.775					-.6540	-.3298				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (2) = .028 BETA (3) = 4.248

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.793	.0342									
.798			-.2743							
.808				-.5567						
.834		-.2811								
.839			-.4660							
.850					-.1146	-.0946	-.0219			
.857				-.1601						
.872									-.0512	
.885		-.5041								
.879			-.1818							
.900		-.2589			-.0182			.0866		
.905				-.0588						
.919			-.0857							
.950					.0549	.0397	.0795			
.953				.0089						
.956			-.0211							
.965		-.0773								

ALPHA (3) = 3.993 BETA (1) = -3.868 MACH = .90073 Q = 600.62 P = 1057.6 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	-.2875	-.0378	.0594	.4073	.6091	.5712	.5444	.4851	-.1960	
.010		-.0880	.0709		.1624	.2052	.1034	-.1372		
.020		-.0920		.0000	.0312	-.0199	-.0913	-.2185	-.5479	
.040			.0983	-.0445						
.041	-.1780									
.050					-.2457	-.3271	-.3915	-.4910		
.069									-.6401	
.080					-.4704					
.081				-.2225						
.085			.1005							
.094		-.0584								
.113	-.0962									
.150					-.7010	-.7357	-.7426	-.7358		
.157									-.9102	
.163			.0000							
.177				-.4646						
.179		.0487								
.196			-.2697							
.217	-.0083									
.230					-.7596	-.9248	-.9688	-.8286		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU50)

ALPHA (3) = 3.759 BETA (1) = -3.868

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				-.5940						
.345									-.7197	
.362		-.0700								
.390			-.5376							
.400					-.8456	-.9409		-.6356		
.402				-.7085						
.418										-.7832
.429	.0435									
.497		-.4236								
.503									-.5708	
.547	-.2090									
.559					-.1879	-.3363				
.565				-.1335						
.600								-.4967		
.623	-.5099									
.637			-.0783							
.650							-.4581			
.670									-.4666	
.719		-.0806				-.1860				
.723										-.8248
.725					-.1493					
.727	-.1353									
.750							-.3014	-.3465		
.760				-.1460						
.775					-.2683	-.2097				
.778	.1335									
.790			-.1335							
.808				-.1337						
.834		-.1343								
.839			-.1274							
.840					-.3099	-.0320	-.1719			
.857				-.0199						
.862									-.3690	
.866		-.2541								
.879			-.0235							
.900		-.0702			.0 12			-.2175		
.915				0366						
.919			.0187							
.950					.1067	.0937	-.0179			
.953				.0867						
.965			.0615							
.965		.0565								

AMES 11-073'OA148) -140A/B/C/P ORB LEFT WING TOP (XE8U50)

ALPHA (3) = 4.003 BETA (2) = .184 MACH = .90073 Q = 600.62 P = 1057.6 RN/L = 3.5790

SECTION (1:LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/W	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3521	-.1521	-.0540	.3074	.5220	.4784	.4514	.3800	-.3298	
.010		-.1824	-.0204		.0540	.0905	-.0077	-.2343		
.020		-.1554		.0000	-.0637	-.1124	-.1923	-.3145	-.6460	
.040			.0401	-.1101						
.041	-.3754									
.050					-.3079	-.3985	-.4641	-.5557		
.069									-.7088	
.080					-.5087					
.081				-.2681						
.086			.0488							
.094		-.0836								
.113	-.1070									
.150					-.7116	-.7615	-.7723	-.7754		
.157									-.9516	
.163			.0000							
.177				-.4818						
.229		.0296								
.246			-.2939							
.247	-.0312									
.250					-.7471	-.9003	-.9767	-.9043		
.274				-.5954						
.296									-.7306	
.322		-.0841								
.330			-.5339							
.350					-.7715	-.9791		-.7070		
.402				-.6820						
.419										-.9759
.443	.0234									
.447		-.4241								
.503									-.6059	
.547	-.2218									
.550					-.2692	-.2027				
.585				-.1828						
.600								-.5259		
.623	-.5133									
.637			-.1325							
.650							-.4016			
.670									-.4160	
.700		-.1160				-.2141				
.723										-.7511
.725					-.1809					
.727	-.1533									
.750							-.2791	-.3572		
.752				-.1854						
775					-.3345	-.2330				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (3) = 4.003 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	.0783									
.798			-.1822							
.808				-.2147						
.834		-.2034								
.839			-.2117							
.850					-.0397	-.0583	-.0889			
.857				-.0651						
.862									-.3530	
.865		-.3913								
.879			-.0845							
.900		-.1306			.0159			-.2041		
.907				-.0043						
.919			-.0220							
.950					.0805	.0709	.0590			
.953				.0583						
.965			.0285							
.975		.0013								

ALPHA (3) = 4.005 BETA (3) = 4.239 MACH = .90073 Q = 600.62 P = 1057.6 PN/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	-.4261	-.2799	-.1760	.1824	.4208	.3838	.3423	.2541	-.5523	
.010		-.2687	-.0774		-.0732	-.0451	-.1563	-.3871		
.020		-.2073		.0000	-.1711	-.2313	-.3161	-.4786	-.7967	
.040			-.0015	-.1748						
.041	-.5166									
.050					-.3790	-.4624	-.5591	-.6614		
.069									-.8116	
.080					-.5405					
.081				-.3058						
.095			.0139							
.004		-.1009								
.113	-.1254									
.150					-.7169	-.7929	-.8101	-.8316		
.157									-1.0183	
.163			.0000							
.177				-.4918						
.223		-.0051								
.248			-.2727							
.267	-.0420									
.280					-.7289	-.8446	-.9862	-1.0094		

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

ALPHA (3) = 4.005 BETA (3) = 4.239

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/CW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5769						
.345									-.7160	
.382		-.0956								
.390			-.5023							
.400					-.6162	-.9218		-1.0023		
.402				-.6302						
.418										-.7342
.429	.0097									
.437		-.4271								
.503									-.6777	
.547	-.2309									
.550					-.3230	-.4563				
.565				-.2388						
.600								-.5486		
.633	-.4844									
.637			-.1874							
.650							-.2873			
.670									-.4957	
.710		-.1257				-.2256				
.728										-.7711
.748					-.2847					
.767	-.1606									
.750							-.2705	-.3661		
.780				-.2767						
.790					-.3585	-.2282				
.793	.0175									
.798			-.2669							
.810				-.3705						
.824		-.2915								
.849			-.4204							
.850					-.0953	-.0721	-.0069			
.867				-.1283						
.875									-.3627	
.885		-.5456								
.878			-.1466							
.900		-.2424			-.0373			-.1530		
.905				-.0669						
.919			-.0770							
.950					.0178	.0319	.0869			
.953				.0014						
.956			-.0247							
.965		-.0626								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AME 11-073-1) (XE8U50)

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

ALPHA (A) = 8.040 BETA (I) = -3.870 MACH = .89937 Q = 599.61 P = 1059.0 PN/L = 3.5771

SECTION (I)LEFT WING TOP SURF DEPENDENT VARIABLE CP

ZY/PN	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
CW										
.000	-.2638	-.3126	-.2970	.1893	.4746	.4525	.4116	.2793	-.6062	
.010		-.3810	-.2211		-.2928	-.1957	-.3412	-.5982		
.020		-.3204		.0000	-.3870	-.4162	-.5006	-.7012	-1.0217	
.040			-.1106	-.3931						
.041	-.2270				-.6053	-.6618	-.7577	-.8985	-.9831	
.060					-.7814					
.080				-.5494						
.100			-.0844							
.101		-.1641								
.120	-.1781				-.9905	-1.0516	-.9381	-.8947	-1.0794	
.140			.0000							
.141				-.6768						
.160		-.0135								
.161			-.2332							
.180	-.0775				-1.0186	-1.0493	-.8333	-.7028		
.200				-.7629					-.7553	
.201		-.1669								
.220			-.0635		-.8478	-.7495		-.6045		
.240				-.9039						-.8634
.241	-.0128									
.260		-.0388							-.5762	
.280	-.0378				-.4124	-.6464				
.300				-.3191				-.5364		
.320	-.1051						-.5853			
.321			-.1318						-.4974	
.340		-.1728			-.4993					-.6115
.360					-.2565					
.380	-.1346						-.5008	-.4531		
.400				-.1862						
.420					-.3656	-.4085				

OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (4) = 8.040 BETA (1) =

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	.1451									
.798			-.1800							
.808				-.2583						
.834		-.1766								
.839			-.2580							
.850					-.1170	-.2911	-.4386			
.857				-.0922						
.862									-.4399	
.865		-.5255								
.879			-.1531							
.900		-.1220			-.0576			-.4070		
.905				-.0286						
.919			-.1065							
.950					.0378	-.1364	-.3724			
.953				.0309						
.955			-.0297							
.965		.0006								

ALPHA (4) = 8.045 BETA (2) = .178 MACH = .89937 Q = 599.61 P = 1059.0 RN/L = 3.5771

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3493	-.4951	-.3921	.0264	.3405	.3189	.2725	.1391	-.7955	
.010		-.4843	-.1929		-.4149	-.3394	-.4792	-.7320		
.020		-.3574		.0000	-.4908	-.5281	-.6149	-.8073	-.6954	
.040			-.0784	-.4352						
.041	-.3909									
.050					-.6640	-.7450	-.8451	-.9957		
.069									-.5944	
.080					-.8211					
.081				-.5773						
.086			-.0723							
.094		-.1969								
.113	-.2003									
.150					-.9637	-1.0742	-.9946	-.9959		
.157									-.5798	
.163			.0000							
.177				-.6543						
.229		-.1315								
.246			-.4165							
.247	-.0575									
.250					-.9767	-1.0809	-.8907	-.8956		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (4) = 8.045 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				-.7322						
.345									-.5644	
.362		-.1806								
.390			-.6558							
.400					-.8768	-.8434		-.6464		
.402				-.8616						
.418										-.5510
.429	-.0072									
.497		-.5587								
.503									-.5453	
.547	-.3349									
.550					-.4285	-.6490				
.565				-.2420						
.600								-.5701		
.633	-.6970									
.637			-.1732							
.650							-.5866			
.670									-.4981	
.700		-.1466				-.4995				
.723										-.7809
.725					-.2646					
.727	-.2428									
.750							-.4964	-.5083		
.760				-.2127						
.775					-.5561	-.4059				
.793	.0585									
.798			-.2333							
.808				-.4002						
.834		-.2059								
.839			-.4236							
.850					-.1311	-.2186	-.4313			
.857				-.1522						
.862									-.4131	
.865		-.4718								
.879			-.1803							
.900		-.1894			-.0642			-.4675		
.905				-.0655						
.919			-.0984							
.950					.0344	-.0837	-.3520			
.953				.0007						
.955			-.0268							
.965		-.0504								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (4) = 8.043 BETA (3) = 4.236 MACH = .89937 Q = 599.61 P = 1059.0 RN/L = 3.5771

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/C	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4372	-.5891	-.2424	-.1445	.1956	.1712	.1149	-.0287	-.7506	
.010		-.3877	-.1694		-.5459	-.4987	-.6611	-.8944		
.020		-.3317		.0000	-.6129	-.6496	-.7665	-.9681	-.6800	
.040			-.1548	-.4054						
.041	-.5198									
.050					-.7122	-.8382	-.9502	-1.1038		
.069									-.6498	
.080					-.8333					
.081				-.4809						
.086			-.1590							
.094		-.3194								
.113	-.2069									
.150					-.9087	-1.1081	-1.0881	-1.0778		
.157									-.6002	
.163			.0000							
.177				-.5995						
.229		-.2375								
.246			-.5136							
.247	-.0875									
.250					-.9111	-1.0949	-.9859	-.9235		
.274				-.6930						
.345									-.5990	
.362		-.1140								
.390			-.7006							
.400					-.9160	-.8836		-.6402		
.402				-.8261						
.418										-.5929
.479	-.0269									
.497		-.5390								
.503									-.5971	
.547	-.3270									
.550					-.3944	-.6610				
.565				-.2588						
.600								-.6208		
.633	-.6637									
.637			-.2207							
.650							-.5761			
.670									-.5520	
.700		-.2052				-.4554				
.723										-.5941
.725					-.2374					
.727	-.2573									
.750							-.5513	-.5793		
.760				-.2802						
.775					-.6567	-.4755				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU50)

ALPHA (4) = 8.043 BETA (3) = 4.236

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	-.0057									
.798			-.2384							
.808				-.6953						
.834		-.2373								
.839			-.5250							
.850					-.1569	-.2415	-.4814			
.857				-.2792						
.862									-.4772	
.865		-.4807								
.879			-.2549							
.900		-.2921			-.0765			-.5264		
.905				-.1417						
.919			-.1266							
.950					.0048	-.1073	-.3912			
.953				-.0686						
.955			-.0591							
.965		-.0965								

ALPHA (5) = 11.980 BETA (1) = -3.854 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2827	-.6806	-.5323	-.1884	.2226	.2060	.1490	-.0026	-.7861	
.010		-.6837	-.2596		-.7084	-.6143	-.7783	-.8857		
.020		-.5826		.0000	-.8327	-.7973	-.9186	-.7872	-.6934	
.040			-.1935	-.6589						
.041	-.2695									
.050					-.9754	-1.0074	-1.0896	-.7377		
.069									-.6336	
.080					-1.0572					
.081				-.7402						
.086			-.1840							
.094		-.3725								
.113	-.2478									
.150					-1.1831	-1.0434	-1.0586	-.6940		
.157									-.5935	
.163			.0000							
.177				-.7943						
.229		-.2406								
.246			-.5527							
.247	-.1134									
.250					-1.0860	-.9201	-.9228	-.6855		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU50)

ALPHA (5) = 11.980 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				-.8505						
.345									-.5831	
.362		-.3852								
.390			-.7584							
.400					-.8359	-.8361		-.6470		
.402				[illegible]						
.418										-.5858
.429	-.0317									
.497		-.7607								
.503									-.5956	
.547	-.4740									
.550					-.7286	-.6842				
.565				-.4707						
.600								-.6102		
.633	-.8254									
.637			-.2914							
.650							-.6699			
.670									-.5426	
.700		-.2312				-.6475				
.723										-.5175
.725					-.4727					
.727	-.2531									
.750							-.6170	-.5795		
.760				-.2940						
.775					-.5688	-.5833				
.793	.0661									
.799			-.2944							
.808				-.5087						
.834		-.2664								
.839			-.6668							
.850					-.3309	-.4847	-.5950			
.857				-.2625						
.862									-.5155	
.865		-.5034								
.879			-.2855							
.900		-.2820			-.2896			-.5504		
.905				-.2090						
.919			-.2187							
.950					-.1869	-.3822	-.5618			
.953				-.1306						
.955			-.1420							
.965		-.0873								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U50)

ALPHA (5) = 11.989 BETA (2) = .180 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3945	-.7737	-.3302	-.3748	.0454	.0331	-.0268	-.1740	-.8054	
.010		-.5329	-.2747		-.1537	-.7605	-.9085	-.9128		
.020		-.4873		.0000	-.9667	-.9418	-1.0585	-.7359	-.7085	
.040			-.2645	-.5510						
.041	-.4543									
.050					-1.0709	-1.1124	-1.1075	-.7043	-.6530	
.059										
.060					-1.1136					
.081				-.6310						
.086			-.2598							
.094		-.4800								
.113	-.2939									
.150					-1.2081	-1.0627	-1.0219	-.7026	-.6343	
.157										
.163			.0000							
.177				-.7342						
.229		-.5787								
.246			-.5760							
.247	-.1629				-1.0056	-.9342	-.9307	-.6970		
.250										
.274				-.8389					-.6123	
.345										
.362		-.2933								
.390			-.7668							
.400					-.8399	-.8414		-.6760		
.402				-.9487						-.6329
.418										
.429	-.0677									
.497		-.7354							-.6215	
.503										
.547	-.4932									
.550					-.7013	-.7648				
.565				-.3762				-.6434		
.600										
.633	-.8415									
.637			-.3253				-.6787			
.650									-.5700	
.670						-.6512				
.700		-.2512								-.5644
.723					-.4028					
.725										
.727	-.2975						-.6414	-.5921		
.750				-.3110						
.760					-.6730	-.5759				
.775										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU50)

ALPHA (5) = 11.989 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	.0326									
.798			-.3149							
.808				-.7293						
.834		-.2836								
.839			-.6170							
.850					-.3106	-.4455	-.6118			
.857				-.4363						
.862									-.5258	
.865		-.4974								
.879			-.5443							
.900		-.4039			-.2607			-.5765		
.905				-.2898						
.919			-.2441							
.950					-.1555	-.3599	-.5795			
.953				-.1912						
.955			-.1481							
.965		-.1309								

ALPHA (5) = 11.973 BETA (3) = 4.260 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5013	-.7383	-.3629	-.5317	-.1212	-.1506	-.2028	-.3714	-.8005	
.010		-.6116	-.3322		-.9937	-.9077	-1.0544	-.9447		
.020		-.6028		.0000	-1.0744	-1.0703	-1.1521	-.7939	-.7288	
.040			-.3298	-.4485						
.041	-.6176									
.050					-1.1250	-1.2053	-1.0613	-.7498		
.069									-.6700	
.080					-1.0999					
.081				-.5583						
.086			-.3038							
.094		-.5997								
.113	-.2406									
.150					-1.0718	-1.2150	-.7965	-.7229		
.157									-.6554	
.163			.0000							
.177				-.6694						
.209		-.6428								
.246			-.5033							
.247	-.2553									
.250					-1.0051	-1.0458	-.7892	-.7181		

DATE 11 FEB 75 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU50)

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

ALPHA (5) = 11.979 BETA (3) = 4.260

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				-.8012						
.345									-.6674	
.362		-.2949								
.390			-.8038							
.400					-.6828	-.8576		-.7240		
.402				-.9526						
.418										-.6455
.429	-.1033									
.497		-.7154								
.503									-.6625	
.547	-.4704									
.550					-.5585	-.7465				
.565				-.3686						
.600								-.6809		
.633	-.8360									
.637			-.2939							
.650							-.7288			
.670									-.6212	
.700		-.2038				-.6911				
.723										-.5964
.725					-.3579					
.727	-.2907									
.750							-.6941	-.6749		
.760				-.3944						
.775					-.7998	-.6978				
.793	.0214									
.798			-.3154							
.808				-.7875						
.834		-.3173								
.839			-.6047							
.850					-.4901	-.4398	-.8573			
.857				-.6944						
.862									-.6073	
.865		-.5789								
.879			-.5010							
.900		-.4886			-.2895			-.6334		
.905				-.5525						
.919			-.5669							
.950					-.1753	-.3361	-.6188			
.953				-.2081						
.955			-.2821							
.965		-.2452								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51) (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 = -10.000 SPDBRK = 85.000
BDFLAP = 16.300 L-ELVN = 4.000
R-ELVN = 4.000 MACH = .600

ALPHA (1) = -3.976 BETA (1) = -7.854 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1499	-.1375	-.2728	-.0981	.1273	.0468	.0111	.1055	-.7971	
.010		-.0020	-.0432		.6027	.5999	.5774	.5142		
.020		.0287		.0000	.5481	.5415	.5139	.4720	-.1041	
.040			.1135	.3612						
.041	.0334									
.050					.3246	.3082	.2796	.2479		
.069									-.1182	
.080					.1261					
.081				.2274						
.086			.2607							
.094		.0603								
.113	.0482									
.150					-.0953	-.1142	-.1375	-.1409		
.157									-.1715	
.163			.0000							
.177				-.0259						
.229		.1507								
.246			.0360							
.247	.0792									
.250					-.2421	-.2916	-.3350	-.3716		
.27-				-.1542						
.345									-.1756	
.362		.1079								
.390			-.1192							
.400					-.1918	-.2662		-.3383		
.402				-.1623						
.418										-.4633
.429	.1241									
.497		-.0826								
.503									-.2342	
.547	-.0033									
.550					-.1250	-.1983				
.565				-.0487						
.600								-.2398		
.633	-.0856									
.637			-.0007							
.650							-.1835			
.670									-.1670	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (1) = -3.976 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		.0384				-.1290				
.723										-.2157
.725					-.1125					
.727	.0171									
.750							-.1749	-.1195		
.760				-.1474						
.775					-.2074	-.1424				
.793	.1507									
.798			-.1263							
.808				-.0922						
.834		-.1145								
.839			-.0621							
.850					.0069	-.0047	.0088			
.857				-.0126						
.862									-.0193	
.865		-.1727								
.879			-.0126							
.900		-.0443			.0138			.0483		
.905				.0077						
.919			-.0102							
.950					.0549	.0629	.0823			
.953				.0413						
.955			.0161							
.965		.0163								

ALPHA (1) = -3.959 BETA (2) = -3.844 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1529	-.0868	-.1888	-.0372	.1077	-.0012	-.0529	.0272	-.7334	
.010		-.0019	-.0216		.5423	.5295	.5058	.4472		
.020		.0146		.0000	.4904	.4724	.4471	.4051	-.1792	
.040			.0952	.3103						
.041	-.0121									
.050					.2814	.2594	.2387	.2016		
.069									-.1763	
.080					.0955					
.091				.1941						
.086			.2263							
.094		.0289								
.113	.0109									
.150					-.1099	-.1296	-.1480	-.1675		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U51)

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

ALPHA (1) = -3.959 BETA (2) = -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										
.157									-.2107	
.162			.0000							
.177				-.0429						
.229		.1219								
.246			.0146							
.247	.0494									
.250					-.2569	-.3003	-.3505	-.3872		
.274				-.1657						
.345									-.1792	
.362		.0831								
.390			-.1422							
.400					-.2196	-.2882		-.3560		
.402				-.1898						
.418										-.4396
.429	.0980									
.497		-.1106								
.503									-.2323	
.547	-.0247									
.550					-.1604	-.2210				
.565				-.0858						
.600								-.2390		
.633	-.1138									
.637			-.0425							
.650							-.1953			
.670									-.1561	
.700		-.0047				-.1500				
.723										-.2156
.725					-.1382					
.727	-.0221									
.750							-.1903	-.1228		
.760				-.1638						
.775					-.2413	-.1710				
.793	.1074									
.798			-.1249							
.808				-.1247						
.834		-.1404								
.839			-.1038							
.850					-.0163	-.0244	-.0020			
.857				-.0387						
.862									-.0141	
.865		-.2173								
.879			-.0421							
.900		-.0709			-.0033			.0462		
.905				-.0098						
.919			-.0250							

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (1) = -3.959 BETA (2) = -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										
.950					.0488	.0537	.0788			
.953				.0303						
.955			.0061							
.965		-.0045								

ALPHA (1) = -3.956 BETA (3) = .188 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1572	-.0453	-.0982	.0214	.1111	-.0174	-.1144	-.0504	-.7153	
.010		.0029	.0085		.4748	.4518	.4282	.3794		
.020		.0038		.0000	.4235	.4030	.3831	.3392	-.2428	
.040			.0860	.2600						
.041	-.0574									
.050					.2320	.2141	.1970	.1598	-.2297	
.069					.0623					
.080										
.081				.1539						
.086			.1922							
.094		.0010								
.113	-.0190									
.150					-.1245	-.1528	-.1704	-.1760	-.2333	
.157										
.163			.0000							
.177				-.0615						
.229		.0983								
.246			-.0109							
.247	.0250									
.250					-.2734	-.3073	-.3487	-.3853		
.274				-.1784					-.1856	
.345										
.362		.0665								
.390			-.1586							
.400					-.2415	-.3009		-.3526		
.402				-.2143						-.4055
.418										
.429	.0747									
.497		-.1291							-.2216	
.503										
.517	-.0432				-.1982	-.2404				
.550										
.565				-.1227						

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (1) = -3.956 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										
.600								-.2462		
.633	-.1426									
.637			-.0791							
.650							-.2050			
.670									-.1386	
.700		-.0453				-.1661				
.723										-.2189
.725					-.1618					
.727	-.0608									
.750							-.2039	-.1332		
.760				-.1742						
.775					-.2766	-.1847				
.793	.0667									
.798			-.1496							
.808				-.1654						
.834		-.1609								
.839			-.1466							
.850					-.0384	-.0406	-.0137			
.857				-.0655						
.862									-.0004	
.865		-.2544								
.879			-.0656							
.900		-.0959			-.0158			.0436		
.905				-.0302						
.919			-.0498							
.950					.0439	.0408	.0748			
.956				.0128						
.966			-.0133							
.986		-.0367								

ALPHA (1) = -3.963 BETA (4) = 4.269 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1611	-.0235	-.0394	.0610	.1166	-.0200	-.1015	-.0[illegible]	-.5841	
.010		-.0015	.0222		.4101	.3872	.3620	.3[illegible]		
.020		-.0074		.0000	.3587	.3371	.3091	.2[illegible]	-.1[illegible]5	
.040			.0806	.2141						
.041	-.0899									
.050					.1796	.1559	.1294	.1035		
.059									-.2559	
.080					.0267					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (1) = -3.963 BETA (4) = 4.269

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				.1210						
.086			.1679							
.094		-.0143								
.113	-.0402									
.150					-.1424	-.1787	-.1947	-.2101		
.157									-.2488	
.163			.0000							
.177				-.0739						
.229		.0804								
.246			-.0196							
.247	.0128									
.250					-.2851	-.3204	-.3630	-.3915		
.274				-.1953						
.345									-.1910	
.362		.0531								
.390			-.1676							
.400					-.2658	-.3187		-.3594		
.402				-.2411						
.418										-.2756
.429	.0590									
.497		-.1451								
.503									-.2173	
.547	-.0578									
.550					-.2210	-.2633				
.565				-.1587						
.600								-.2400		
.633	-.1661									
.637			-.1207							
.650							-.2154			
.670									-.1204	
.700		-.0862				-.1756				
.723										-.1667
.725					-.1801					
.727	-.0983									
.750							-.2154	-.1349		
.760				-.1936						
.775					-.3051	-.1982				
.793	.0330									
.798			-.1742							
.808				-.1993						
.834		-.1831								
.839			-.1790							
.850					-.0578	-.0551	-.0158			
.857				-.0924						
.862									.0109	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (1) = -3.963 BETA (4) = 4.269

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		-.2894								
.879			-.0981							
.900		-.1154			-.0285			.0470		
.905				-.0491						
.919			-.0647							
.950					.0328	.0361	.0731			
.953				.0057						
.955			-.0275							
.965		-.0593								

ALPHA (1) = -3.980 BETA (5) = 8.339 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1698	-.0225	.0211	.1272	.1400	-.0183	-.0906	-.0478	-.4895	
.010		-.0145	.0499		.3043	.3179	.2912	.2328		
.020		-.0218		.0000	.2887	.2607	.2376	.1990	-.2763	
.040			.0833	.1602						
.041	-.1170									
.050					.1281	.0997	.0783	.0504		
.069									-.2793	
.080					-.0139					
.081				.0793						
.085			.1419							
.094		-.0204								
.113	-.0556									
.150					-.1646	-.1959	-.2129	-.2311		
.157									-.2599	
.163			.0000							
.177				-.0957						
.229		.0692								
.246			-.0445							
.247	.0026									
.250					-.2953	-.3258	-.3634	-.3948		
.274				-.2094						
.345									-.1866	
.362		.0353								
.390			-.1863							
.400					-.2769	-.3289		-.3545		
.402				-.2568						
.418										-.2105
.429	.0485									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (1) = -3.980 BETA (5) = 8.339

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		-.1641								
.503									-.2010	
.547	-.0787									
.550					-.2453	-.2719				
.565				-.1912						
.600								-.2411		
.633	-.1944									
.637			-.1548							
.650							-.2152			
.670									-.0954	
.700		-.1197				-.1838				
.723										-.1236
.725					-.1902					
.727	-.1419									
.750							-.2211	-.1310		
.763				-.2080						
.775					-.3220	-.2078				
.793	-.0050									
.798			-.1877							
.808				-.2191						
.834		-.1970								
.839			-.2084							
.850					-.0661	-.0518	-.0202			
.857				-.1032						
.862									.0312	
.865		-.3049								
.879			-.1088							
.900		-.1264			-.0321			.0485		
.905				-.0566						
.919			-.0660							
.950					.0323	.0366	.0756			
.953				-.0038						
.955			-.0282							
.955		-.0616								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (2) = .060 BETA (1) = -7.891 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

PY/BW	.2350	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0656	.0490	.0630	.3014	.5019	.4836	.4646	.5103	-.1086	
.010		.0758	.1448		.4530	.4847	.4279	.2563		
.020		.0637		.0000	.3207	.2995	.2475	.1777	-.1095	
.040			.1769	.1695						
.041	-.0025									
.050					.0317	-.0185	-.0551	-.0985		
.069									-.2268	
.080					-.1811					
.081				-.0067						
.086			.2058							
.094		.0244								
.113	.0138									
.150					-.3494	-.4027	-.4519	-.4220		
.157									-.3547	
.163			.0000							
.177				-.2454						
.229		.0914								
.246			-.1341							
.247	.0379									
.250					-.4305	-.5150	-.5788	-.6224		
.274				-.3098						
.345									-.3644	
.362		-.0140								
.390			-.2485							
.400					-.2859	-.3761		-.4570		
.402				-.2610						
.418										-.0568
.479	.0498									
.497		-.1988								
.503									-.4021	
.547	-.1094									
.550					-.1659	-.2406				
.565				-.0874						
.600								-.2741		
.633	-.1661									
.637			-.0260							
.650							-.1976			
.670									-.2623	
.700		.0033				-.1293				
.723										-.2878
.725					-.1079					
.727	-.0234									
.750							-.1879	-.1491		
.760				-.1326						
.775					-.1943	-.1386				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (2) = .060 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	.1289									
.798			-.1078							
.808				-.0782						
.834		-.1052								
.839			-.0489							
.850					.0115	.0058	.0111			
.857				.0004						
.862									-.0770	
.865		-.1583								
.879			.0028							
.900		-.0363			.0269			.0437		
.905				.0261						
.919			.0089							
.950					.0740	.0790	.0950			
.953				.0570						
.955			.0366							
.965		.0327								

ALPHA (2) = .070 BETA (2) = -3.863 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0961	.0328	.0701	.2977	.4660	.4324	.4137	.4468	-.1372	
.010		.0318	.1171		.3739	.4005	.3448	.1835		
.020		.0164		.0000	.2418	.2260	.1800	.1017	-.1732	
.040			.1399	.1161						
.061	-.0542									
.060					-.0194	-.0677	-.1.62	-.1550		
.069									-.2742	
.080					.2165					
.081				-.0423						
.096			.1618							
.094		-.0114								
.113	-.0274									
.150					-.3640	-.4210	-.4675	-.4405		
.157									-.3702	
.163			.0000							
.177				-.2619						
.229		.0627								
.245			-.1610							
.247	.0109									
.250					-.4417	-.5188	-.5800	-.6199		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (2) = .070 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				-.3316						
.345									-.3475	
.362		-.0382								
.390			-.2727							
.400					-.3160	-.3947		-.4580		
.402				-.2832						
.418										-.0984
.429	.0256									
.497		-.2284								
.503									-.3768	
.547	-.1378									
.550					-.2028	-.2701				
.565				-.1257						
.600								-.2833		
.633	-.2064									
.637			-.0776							
.650							-.2127			
.670									-.2389	
.700		-.0422				-.1521				
.723										-.3304
.725					-.1348					
.727	-.0690									
.750							-.2045	-.1489		
.760				-.1498						
.775					-.2301	-.1604				
.793	.0812									
.799			-.1199							
.808				-.1205						
.834		-.1312								
.839			-.1022							
.850					-.0137	-.0218	.0013			
.857				-.0323						
.862									-.0614	
.865		-.1936								
.879			-.0326							
.900		-.0633			.0086			.0447		
.905				-.0026						
.919			-.0144							
.950					.0613	.0626	.0885			
.953				.0405						
.955			.0194							
.965		-.0055								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XE8U51)

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

ALPHA (2) = .075 BETA (3) = .185 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1310	.0036	.0586	.2799	.4348	.3878	.3575	.3780	-.1615	
.010		-.0101	.0792		.2921	.3175	.2647	.1111		
.020		-.0267		.0000	.1735	.1515	.1077	.0386	-.2241	
.040			.1077	.0636						
.041	-.1007				-.0676	-.1137	-.1518	-.1862	-.3032	
.050										
.069					-.2439					
.080										
.081				-.0731						
.084			.1231							
.094		-.0395								
.113	-.0622				-.3823	-.4250	-.4658	-.4460	-.3618	
.150										
.157										
.163			.0000							
.177				-.2722						
.229		.0399								
.246			-.1748							
.247	-.0146				-.4500	-.5135	-.5668	-.6029		
.250										
.274				-.3413					-.3222	
.345										
.362		-.0530								
.390			-.2831		-.3369	-.4089		-.4535		
.400										
.402				-.3097						-.1430
.418										
.429	.0081									
.497		-.2467							-.3409	
.503										
.547	-.1573				-.2367	-.2876				
.550										
.565				-.1641				-.2742		
.620										
.635	-.2339									
.637			-.1116				-.2219			
.650									-.2011	
.670						-.1655				
.700		-.0843								-.3693
.723					-.1553					
.725										
.727	-.0997						-.2092	-.1486		
.750										
.760				-.1663						
.775					-.2617	-.1753				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (2) = .075 BETA (3) = .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	.0425									
.798			-.1430							
.808				-.1632						
.834		-.1524								
.839			-.1402							
.850					-.0376	-.0395	-.0058			
.857				-.0646						
.862									-.0388	
.865		-.2294								
.879			-.0679							
.900		-.0914			-.0106			.0445		
.905				-.0229						
.919			-.0415							
.950					.0481	.0533	.0816			
.953				.0253						
.955			-.0025							
.965		-.0313								

ALPHA (2) = .070 BETA (4) = 4.248 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION (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	-.0485	.0284	.2505	.3976	.3501	.3238	.3247	-.1693	
.010		-.0617	.0530		.2055	.2291	.1618	.0081		
.020		-.0598		.0000	.0930	.0709	.0226	-.0625	-.2856	
.040			.0789	.0110						
.041	-.1376									
.050					-.1212	-.1671	-.2153	-.2577		
.069									-.3474	
.080					-.2789					
.081				-.1058						
.086			.0919							
.094		-.0613								
.113	-.0837									
.150					-.3819	-.4435	-.4770	-.4678		
.157									-.3744	
.163			.0000							
.177				-.2779						
.229		.0259								
.245			-.1837							
.247	-.0257									
.250					-.4540	-.5240	-.5722	-.6059		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (2) = .070 BETA (4) = 4.248

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				-.3446						
.345									-.3111	
.362		-.0646								
.390			-.2890							
.400					-.3549	-.4195		-.4503		
.402				-.3330						
.418										-.2107
.429	-.0032									
.497		-.2599								
.503									-.3201	
.547	-.1650									
.550					-.2657	-.3055				
.585				-.1968						
.600								-.2727		
.633	-.2594									
.637			-.1604							
.650							-.2273			
.670									-.1968	
.700		-.1233				-.1818				
.723										-.4479
.725					-.1802					
.727	-.1380									
.750							-.2207	-.1406		
.760				-.1876						
.775					-.2898	-.1934				
.793	.0017									
.798			-.1670							
.808				-.1938						
.834		-.1726								
.839			-.1748							
.850					-.0622	-.0516	-.0167			
.857				-.0888						
.862									-.0537	
.865		-.2599								
.879			-.0987							
.900		-.1138			-.0234			.0435		
.905				-.0432						
.919			-.0659							
.950					.0383	.0422	.0761			
.953				.0109						
.955			-.0236							
.965		-.0596								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (2) = .066 BETA (5) = 8.300 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2113	-.1311	-.0362	.1970	.3568	.3030	.2699	.2589	-.2097	
.010		-.1232	.0039		.0994	.1335	.0670	-.0793		
.020		-.1083		.0000	.0067	-.0135	-.0643	-.1433	-.3333	
.040			.0385	-.0476						
.041	-.1636									
.050					-.1783	-.2161	-.2632	-.3123		
.069									-.3722	
.080					-.3085					
.081				-.1406						
.086			.0497							
.094		-.0680								
.113	-.1018									
.150					-.4013	-.4451	-.4840	-.4768		
.157									-.3731	
.163			.0000							
.177				-.2869						
.229		.0186								
.246			-.1984							
.247	-.0365									
.250					-.4704	-.5264	-.5673	-.5942		
.274				-.3548						
.345									-.2926	
.352		-.0727								
.390			-.2978							
.400					-.3715	-.4329		-.4397		
.402				-.3464						
.418										-.3013
.429	-.0103									
.497		-.2665								
.503									-.2969	
.547	-.1773									
.550					-.2940	-.3207				
.565				-.2255						
.600								-.2671		
.633	-.2745									
.637			-.1924							
.650							-.2335			
.670									-.1758	
.700		-.1557				-.1921				
.723										-.4948
.725					-.1974					
.727	-.1733									
.750							-.2244	-.1355		
.760				-.1993						
.775					-.3129	-.2118				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU51)

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

ALPHA (2) = .066 BETA (5) = 8.300

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	-.0324									
.798			-.1813							
.808				-.2182						
.834		-.1920								
.839			-.2004							
.850					-.0765	-.0503	-.0238			
.857				-.1063						
.862									-.0285	
.865		-.2855								
.879			-.1051							
.900		-.1299			-.0370			.0450		
.905				-.0574						
.919			-.0699							
.950					.0312	.0357	.0719			
.953				.0010						
.955			-.0276							
.965		-.0675								

ALPHA (3) = 4.023 BETA (1) = -7.901 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8168

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2950	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0413	.0477	.0990	.3996	.6017	.5880	.5645	.4882	-.0931	
.010		-.0010	.0900		.0603	.0872	-.0693	-.3577		
.020		-.0202		.0000	-.0879	-.1687	-.2647	-.4347	-.5188	
.040			.0971	-.1287						
.041	-.0491									
.050					-.3791	-.4995	-.5736	-.6437		
.069									-.6197	
.080					-.5825					
.081				-.3100						
.086			.0611							
.094		-.0486								
.113	-.0323									
.150					-.6439	-.7597	-.8374	-.7659		
.157									-.7557	
.163			.0000							
.177				-.4918						
.229		.0172								
.246			-.3236							
.247	-.0037									
.253					-.6328	-.7478	-.8360	-.8986		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (3) = 4.023 BETA (1) = -7.901

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				-.4822						
.345									-.7097	
.352		-.1426								
.390			-.3770							
.400					-.3720	-.4729		-.5736		
.402				-.3484						
.418										-.5114
.429	-.0222									
.497		-.3233								
.503									-.6988	
.547	-.2351									
.550					-.1925	-.2792				
.565				-.1146						
.600								-.3483		
.633	-.2604									
.637			-.0536							
.650							-.2244			
.670									-.5517	
.700		-.0422				-.1342				
.723										-1.2183
.725					-.0943					
.727	-.0618									
.750							-.1948	-.1899		
.760				-.1134						
.775					-.1661	-.1326				
.793	.1320									
.799			-.1005							
.808				-.0958						
.834		-.1012								
.839			-.0458							
.850					.0210	.0107	.0014			
.857				.0030						
.862									-.3248	
.865		-.1557								
.879			.0007							
.900		-.0186			.0442			.0178		
.905				.0346						
.919			.0196							
.950					.0889	.0879	.0854			
.953				.0667						
.955			.0435							
.965		.0453								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (3) = 4.027 BETA (2) = -3.864 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8168

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1038	-.0367	.0048	.3127	.5179	.5015	.4663	.3738	-.2265	
.010		-.0898	.0081		-.0490	-.0279	-.1751	-.4601		
.020		-.0978		.0000	-.1899	-.2703	-.3758	-.5460	-.5980	
.040			.0276	-.2070						
.041	-.1076									
.050					-.4425	-.5544	-.6367	-.7185		
.069									-.6686	
.080					-.6190					
.081				-.3632						
.086			.0043							
.094		-.0886								
.113	-.0761									
.150					-.6625	-.7652	-.8525	-.7862		
.157									-.7692	
.163			.0000							
.177				-.5157						
.229		-.0163								
.246			-.3534							
.247	-.0395									
.250					-.6466	-.7609	-.8449	-.8961		
.274				-.5072						
.345									-.6660	
.362		-.1746								
.390			-.4069							
.400					-.4058	-.4916		-.5696		
.402				-.3854						
.418										-.7155
.429	-.0494									
.497		-.3607								
.503									-.6598	
.547	-.2788									
.560					-.2356	-.3051				
.565				-.1621						
.600								-.3490		
.633	-.3039									
.637			-.1075							
.650							-.2406			
.670									-.6068	
.700		-.0940				-.1592				
.723										-1.3480
.725					-.1202					
.727	-.1105									
.750							-.2128	-.1908		
.760				-.1345						
.775					-.1990	-.1662				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (3) = 4.027 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										
.793	.0856									
.798			-.1176							
.808				-.1138						
.834		-.1294								
.839			-.0987							
.850					-.0105	-.0179	-.0083			
.857				-.0281						
.862									-.3837	
.865		-.2076								
.870			-.0366							
.900		-.0490			.0215			.0132		
.905				.0043						
.919			-.0127							
.950					.0696	.0706	.0809			
.953				.0480						
.955			.0187							
.960		.0094								

ALPHA (3) = 4.029 BETA (3) = .191 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1624	-.1508	-.1104	.2110	.4295	.3973	.3646	.2661	-.3712	
.010		-.1782	-.0800		-.1503	-.1298	-.2699	-.5439		
.020		-.1657		.0000	-.2674	-.3455	-.4492	-.6033	-.6508	
.040			-.0290	-.2619						
.041	-.1522									
.050					-.4868	-.5931	-.6813	-.7394		
.069									-.6883	
.080					-.6301					
.081				-.3779						
.086			-.0413							
.094		-.1185								
.113	-.1115									
.150					-.6578	-.7683	-.8339	-.7798		
.157									-.7308	
.163			.0000							
.177				-.5136						
.229		-.0325								
.246			-.3621							
.247	-.0654									
.250					-.6451	-.7549	-.8268	-.8619		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (REBUS1)

ALPHA (3) = 4.029 BETA (3) = .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										
.274				-.5070						
.345									-.6171	
.362		-.1806								
.390			-.4109							
.400					-.4288	-.5071		-.5598		
.402				-.3987						
.418										-.8578
.429	-.0673									
.497		-.3638								
.503									-.6034	
.547	-.2931									
.550					-.2717	-.3269				
.565				-.1958						
.600								-.3398		
.633	-.3281									
.637			-.1489							
.650							-.2463			
.670									-.6311	
.700		-.1342				-.1755				
.723										-1.3543
.725					-.1485					
.727	-.1457									
.750							-.2282	-.1856		
.760				-.1505						
.775					-.2342	-.1751				
.793	.0467									
.798			-.1375							
.808				-.1524						
.834		-.1534								
.839			-.1430							
.850					-.0386	-.0336	-.0209			
.857				-.0642						
.862									-.4231	
.865		-.2548								
.879			-.0690							
.900		-.0799			.0003			.0164		
.905				-.0189						
.919			-.0362							
.950					.0521	.0590	.0740			
.953				.0273						
.955			-.0012							
.965		-.0274								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (3) = 4.031 BETA (4) = 4.239 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

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	-.2319	-.2698	-.2369	.0860	.3248	.2872	.2394	.1037	-.6034	
.010		-.2705	-.1672		-.2650	-.2620	-.4147	-.7124		
.020		-.2300		.0000	-.3607	-.4538	-.5733	-.7509	-.7809	
.040			-.0849	-.3076						
.041	-.1905									
.050					-.5395	-.6688	-.7521	-.8508		
.069									-.7635	
.080					-.6665					
.081				-.4092						
.086			-.0780							
.094		-.1367								
.113	-.1345									
.150					-.6649	-.7860	-.8430	-.7938		
.157									-.7360	
.163			.0000							
.177				-.5091						
.229		-.0548								
.246			-.3650							
.247	-.0750									
.250					-.6424	-.7506	-.8263	-.8568		
.274				-.5061						
.345									-.6115	
.362		-.1834								
.390			-.4043							
.400					-.4448	-.5197		-.5625		
.402				-.4137						
.418										-1.1712
.429	-.0807									
.497		-.3871								
.503									-.5944	
.547	-.3002									
.550					-.2989	-.3448				
.565				-.2357						
.606								-.3365		
.633	-.3441									
.637			-.2126							
.650							-.2564			
.670									-.5989	
.700		-.1625				-.1899				
.723										-1.4338
.725					-.1819					
.727	-.1811									
.750							-.2427	-.1863		
.760				-.1785						
.775					-.2523	-.1916				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (3) = 4.031 BETA (4) = 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										
.793	.0009									
.798			-.1698							
.808				-.1987						
.834		-.1753								
.839			-.1866							
.850					-.0640	-.0427	-.0292			
.857				-.1082						
.862									-.4823	
.865		-.2890								
.879			-.0952							
.900		-.1071			-.0237			.0047		
.905				-.0601						
.919			-.0614							
.950					.0306	.0418	.0658			
.953				-.0058						
.955			-.0241							
.965		-.0590								

ALPHA (3) = 4.035 BETA (5) = 8.279 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3148	-.4210	-.2546	-.0839	.1930	.1588	.1102	-.0244	-.8182	
.010		-.3327	-.1446		-.3952	-.3878	-.5397	-.7952		
.020		-.2525		.0000	-.4566	-.5389	-.6563	-.8394	-.8244	
.040			-.1211	-.3502						
.041	-.2344									
.050					-.5821	-.6890	-.7809	-.8816		
.069									-.7685	
.080					-.6793					
.081				-.4073						
.086			-.1385							
.094		-.2433								
.113	-.1750									
.150					-.6616	-.7547	-.8167	-.7790		
.157									-.8919	
.163			.0000							
.177				-.4736						
.229		-.0392								
.246			-.4370							
.247	-.0792									
.250					-.6359	-.7299	-.7938	-.8172		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (3) = 4.035 BETA (5) = 8.279

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4868						
.345									-.5610	
.362		-.1768								
.390			-.4178							
.400					-.4475	-.5277		-.5466		
.402				-.4212						
.418										-1.4180
.429	-.0825									
.497		-.3864								
.503									-.5482	
.547	-.2938									
.550					-.3134	-.3510				
.565				-.3013						
.600								-.3332		
.633	-.3629									
.637			-.2152							
.650							-.2575			
.670									-.5810	
.700		-.1953				-.2001				
.723										-1.3581
.725					-.2016					
.727	-.2038									
.750							-.2292	-.1825		
.760				-.2253						
.775					-.2857	-.1940				
.793	-.0415									
.798			-.1907							
.808				-.2442						
.834		-.2051								
.839			-.2103							
.850					-.0904	-.0455	-.0311			
.857				-.1159						
.862									-.3410	
.865		-.3138								
.879			-.1155							
.900		-.1336			.0520			.0116		
.905				-.0655						
.919			-.0798							
.950					.0207	.0340	.0531			
.953				-.0076						
.965			-.0366							
.980		-.0718								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (4) = 8.061 BETA (1) = -7.886 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0717	-.1498	-.2047	.1564	.3633	.2957	.2055	-.0373	-.8492	
.010		-.2396	-.1971		-.6189	-.6597	-.9513	-1.4408		
.020		-.2163		.0080	-.7304	-.8929	-1.1346	-1.4873	-1.4926	
.040			-.1558	-.5792						
.041	-.0926									
.050					-.9680	-1.1763	-1.3636	-1.4985		
.069									-1.3912	
.080					-1.1210					
.081				-.7193						
.086			-.1855							
.094		-.1458								
.113	-.0769									
.150					-1.0090	-1.1931	-1.2963	-1.2123		
.157									-1.4628	
.163			.0000							
.177				-.7683						
.229		-.0708								
.246			-.5493							
.247	-.0570									
.250					-.8203	-.9693	-1.0883	-1.2233		
.274				-.6473						
.345									-1.2003	
.362		-.2781								
.390			-.4949							
.400					-.4360	-.5684		-.7566		
.402				-.4041						
.418										-1.8506
.429	-.1120									
.497		-.4686								
.503									-1.1327	
.547	-.3777									
.550					-.1998	-.3091				
.565				-.1569						
.600								-.4575		
.633	-.3628									
.637			-.1161							
.650							-.2553			
.670									-.9695	
.700		-.0826				-.1293				
.723										-2.0959
.725					-.0815					
.727	-.0758									
.750							-.2129	-.2841		
.760				-.1087						
.775					-.1081	-.1079				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (4) = 8.061 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	.1644									
.798			-.0882							
.808				-.1007						
.834		-.0990								
.839			-.0456							
.850					.0193	.0184	-.0282			
.857				-.0221						
.862									-.8086	
.865		-.1988								
.879			.0100							
.900		.0178			.0482			-.0732		
.905				.0124						
.919			.0190							
.950					.0844	.0888	.0559			
.953				.0527						
.955			.0425							
.965		.0534								

ALPHA (4) = 8.070 BETA (2) = -3.859 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION (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	-.3130	-.4065	-.0176	.2154	.1443	.0286	-.2243	-1.1717	
.010		-.3845	-.3378		-.7654	-.8045	-1.1299	-1.6139		
.020		-.3189		.0000	-.8451	-1.0432	-1.2616	-1.6935	-1.6693	
.040			-.2420	-.6387						
.041	-.1573									
.050					-1.0283	-1.2496	-1.4231	-1.5685		
.059									-1.4417	
.080					-1.1437					
.081				-.7491						
.086			-.2384							
.094		-.1859								
.113	-.1260									
.150					-1.0131	-1.1902	-1.3032	-1.1805		
.157									-1.4068	
.163			.0000							
.177				-.7727						
.229		-.1040								
.245			-.5555							
.247	-.0938									
.250					-.8438	-.9850	-1.0900	-1.2429		

AMES 11-073(OA148) -140A/B/C/R ORG LEFT WING TOP (XEBU51)

ALPHA (4) = 8.070 BETA (2) = -3.859

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				-.6581						
.345									-1.1483	
.362		-.3135								
.390			-.5092							
.400					-.4623	-.5882		-.7476		
.402				-.4375						
.418										-2.1809
.429	-.1388									
.497		-.5082								
.503									-1.0923	
.547	-.3997									
.550					-.2362	-.3363				
.565				-.2150						
.600								-.4556		
.633	-.3933									
.637			T.1589							
.650							-.2658			
.670									-1.1387	
.700		-.1605				-.1605				
.723										-2.1195
.725					-.1148					
.727	-.1345									
.750							-.2257	-.2705		
.760				-.1373						
.775					-.1305	-.1259				
.793	.0958									
.798			-.1348							
.808				-.1373						
.834		-.1075								
.839			-.1457							
.850					-.0239	-.0075	-.0400			
.857				-.0465						
.862									-.9498	
.865		-.2244								
.879			-.0493							
.900		-.0197			.0121			-.0648		
.905				-.0163						
.919			-.0237							
.950					.0485	.0711	.0517			
.953				.0269						
.955			.0203							
.965		.0147								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (4) = 8.069 BETA (3) = .180 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2529	-.4842	-.5698	-.2014	.0669	-.0025	-.1230	-.3930	-1.4591	
.010		-.4944	-.4031		-.8757	-.9221	-1.2490	-1.7058		
.020		-.3927		.0000	-.9136	-1.1106	-1.3330	-1.7641	-1.7582	
.040			-.2427	-.6757						
.041	-.2132									
.050					-1.0411	-1.2541	-1.4264	-1.5731		
.069									-1.4173	
.080					-1.1278					
.081				-.7441						
.086			-.2230							
.094		-.2126								
.113	-.1890									
.150										
.157					-.9723	-1.1618	-1.2518	-1.1352		
.163			.0000						-1.2590	
.177				-.7391						
.229		-.1813								
.246			-.5474							
.247	-.1018									
.250										
.274					-.8127	-.9647	-1.0692	-1.1713		
.345				-.6391						
.362		-.3437							-1.0628	
.390			-.5267							
.400										
.402					-.4729	-.5862		-.7242		
.418				-.4719						
.479	-.1394									-2.4134
.497		-.5245								
.503										
.547	-.4248								-1.0017	
.550										
.565					-.2834	-.3481				
.600				-.2599						
.633	-.4161							-.4371		
.637			-.2457							
.650										
.670							-.2762			
.700		-.1324							-1.1438	
.723						-.1665				
.725										-2.0441
.727	-.1741				-.1609					
.750										
.760							-.2388	-.2687		
.775				-.1552						
					-.2227	-.1370				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (4) = 8.069 BETA (3) = .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	.0342									
.798			-.1519							
.808				-.1691						
.834		-.1448								
.839			-.1536							
.850					-.0719	-.0301	-.0526			
.857				-.0867						
.862									-1.1983	
.865		-.2436								
.879			-.0567							
.900		-.0632			-.0453			-.0608		
.905				-.0512						
.919			-.0342							
.950					.0042	.0413	.0417			
.953				-.0104						
.965			.0060							
.965		-.0230								

ALPHA (4) = 8.069 BETA (4) = 4.237 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3546	-.6374	-.5445	-.3779	-.0902	-.1779	-.3253	-.6421	-1.9398	
.010		-.4904	-.2753		-.9931	-1.0732	-1.4338	-1.8836		
.020		-.3582		.0003	-.9924	-1.2105	-1.4601	-1.9598	-1.9632	
.040			-.2437	-.5380						
.041	-.2742									
.050					-1.0566	-1.2727	-1.4930	-1.6990		
.069									-1.4173	
.080					-1.1155					
.081				-.6651						
.096			-.2710							
.094		-.3888								
.113	-.2213									
.150					-.9373	-1.1153	-1.2105	-1.1586		
.157									-1.2411	
.163			.0000							
.177				-.6698						
.229		-.2345								
.245			-.6359							
.247	-.1100									
.250					-.8007	-.9537	-1.0412	-1.1222		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (4) = 8.069 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										
.274				-.6453						
.345									-1.0307	
.362		-.2589								
.390			-.6734							
.400					-.4892	-.5964		-.7012		
.402				-.4710						
418										-2.4815
.429	-.1469									
.497		-.5056								
.503									-.9101	
.547	-.4281									
.550					-.3491	-.3573				
.565				-.2777						
.600								-.4324		
.633	-.4312									
.637			-.2332							
.650							-.2758			
.670									-1.1819	
.700		-.1772				-.1909				
.723										-1.8490
.725					-.2142					
.727	-.2068									
.750							-.2280	-.2574		
.760				-.2338						
.775					-.3627	-.1785				
.793	-.0186									
.798			-.1659							
.808				-.2701						
.824		-.1724								
.849			-.1963							
.850					-.0422	-.0741	-.0827			
.857				-.1434						
.862									-1.2038	
.865		-.2826								
.879			-.0955							
.900		-.0968			-.0281			-.0803		
.905				-.0907						
.919			-.0610							
.950					.0392	.0288	.0289			
.953				-.0274						
.955			-.0249							
.965		-.0500								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING (XEBU51)

ALPHA (4) = 8.063 BETA (5) = 8.284 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4723	-.7348	-.3792	-.5397	-.2857	-.3749	-.5360	-.8510	-2.2808	
.010		-.4164	-.3285		-1.1033	-1.2262	-1.5837	-2.0475		
.020		-.4126		.0000	-1.0571	-1.2944	-1.5482	-2.0423	-1.6754	
.040			-.3309	-.5298						
.041	-.3905									
.050					-1.0507	-1.2886	-1.4904	-1.7157		
.069									-1.3780	
.080					-1.0474					
.081				-.5959						
.086			-.3699							
.094		-.4152								
.113	-.2215									
.150					-.8766	-1.0823	-1.1705	-1.1079		
.157									-1.1815	
.163			.0000							
.177				-.6316						
.229		-.3335								
.246			-.8038							
.247	-.1478									
.250					-.7128	-.8987	-.9932	-1.0607		
.274				-.6298						
.345									-.8728	
.362		-.2386								
.390			-.5691							
.400					-.5243	-.5631		-.6606		
.402				-.6267						
.418										-2.0449
.429	-.1625									
.497		-.5029								
.503									-.8282	
.547	-.4251									
.550					-.3513	-.3567				
.565				-.4307						
.600								-.3977		
.633	-.4391									
.637			-.2481							
.650							-.2528			
.670									-1.0273	
.700		-.2213				-.2229				
.723										-1.4630
.75					-.2256					
.77	-.2292									
.850							-.1842	-.2382		
.883				- 2362						
.918					-.3110	-.3567				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (4) = 8.063 BETA (5) = 8.284

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	-.0742									
.798			-.1929							
.808				-.2721						
.834		-.2047								
.839			-.2171							
.850					-.1708	-.1012	-.0822			
.857				-.1355						
.862									-.8671	
.865		-.2916								
.879			-.1221							
.900		-.1334			-.1005			-.0744		
.905				-.0817						
.919			-.0740							
.950					-.0271	.0054	-.0134			
.953				-.0200						
.955			-.0368							
.965		-.0743								

ALPHA (5) = 12.002 BETA (1) = -7.847 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8287

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1558	-.5207	-.8034	-.3934	-.1466	-.2900	-.4487	-.7676	-2.1127	
.010		-.6172	-.6783		-1.5754	-1.6658	-2.0790	-2.5579		
.020		-.4873		.0000	-1.5679	-1.8554	-2.2435	-2.6740	-2.8245	
.040			-.4996	-1.1018						
.041	-.1492									
.050					-1.6731	-2.0076	-2.3701	-2.6061		
.069									-2.8063	
.080					-1.7613					
.081				-1.1434						
.085			-.4402							
.094		-.2265								
.113	-.1862									
.150					-1.2938	-1.4921	-1.7295	-1.8625		
.157									-2.1949	
.163			.0000							
.177				-.9798						
.229		-.2064								
.245			-.5970							
.247	-.0853									
.250					-.9674	-1.1604	-1.2640	-1.4288		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (5) = 12.002 BETA (1) = -7.847

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				-.7311						
.345									-2.2090	
.362		-.5018								
.390			-.6183							
.400					-.4265	-.5985		-.8796		
.402				-.5001						
.418										-2.4745
.429	-.1899									
.497		-.7599								
.503									-2.1875	
.547	-.5025									
.550					-.2313	-.2930				
.565				-.2568						
.600								-.5672		
.633	-.4416									
.637			-.1629							
.650							-.2747			
.670									-1.6266	
.700		-.1419				-.1241				
.723										-1.6337
.725					-.1347					
.727	-.0974									
.750							-.2077	-.4534		
.760				-.0994						
.775					-.2420	-.0970				
.793	.1487									
.798			-.1619							
.808				-.1131						
.824		-.0769								
.840			-.1922							
.850					-.0919	-.0212	-.0649			
.867				-.0561						
.900									-1.2872	
.865		-.1526								
.879			-.0593							
.910		.0397			-.0848			-.2290		
.905				-.0294						
.919			-.0232							
.930					-.0147	.0583	.0080			
.953				-.0164						
.915			.0355							
.955		.0525								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (5) = 12.023 BETA (2) = -3.840 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2724	-.7331	-.9091	-.6158	-.3564	-.4975	- 6713	-.9787	-2.4610	
.010		-.7293	-.5721		-1.7494	-1.8487	-2.2565	-2.7316		
.020		-.5248		.0000	-1.6778	-2.0257	-2.4798	-2.8443	-2.6545	
.040			-.3443	-1.0700						
.041	-.2388									
.050					-1.6703	-2.0726	-2.5460	-2.7197		
.069									-2.7632	
.080					-1.7413					
.081				-1.0549						
.086			-.3737							
.094		-.3927								
.113	-.2329									
.150					-1.2705	-1.4695	-1.3928	-1.6992		
.157									-2.2864	
.163			.0000							
.177				-.9012						
.229		-.4624								
.246			-.7588							
.247	-.1156									
.250					-.9224	-1.1508	-1.2538	-1.3332		
.274				-.8015						
.345									-2.2967	
.352		-.6362								
.390			-.6465							
.400					-.4921	-.6057		-.8913		
.402				-.5851						
.418										-2.2211
.429	-.2033									
.497		-.7127								
.503									-2.2492	
.547	-.5435									
.550					-.3426	-.3193				
.565				-.1855						
.600								-.5828		
.633	-.4865									
.637			-.3051							
.650							-.2798			
.670									-1.6793	
.700		-.1455				-.1729				
.723										-1.6055
.725					-.2500					
.727	-.1812									
.750							-.1977	-.4753		
.760				-.1393						
.775					-.3863	-.1598				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (5) = 12.023 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	.0610									
.798			-.1562							
.808				-.1525						
.834		-.1182								
.839			-.1933							
.850					-.0568	-.0603	-.0839			
.857				-.0873						
.862								-1.2004		
.865		-.2024								
.879			-.0801							
.900		-.0222			-.0154		-.2320			
.905				-.0410						
.919			-.0593							
.950					.0722	.0332	-.0214			
.953				.0030						
.955			-.0147							
.965		-.0051								

ALPHA (5) = 12.027 BETA (3) = .177 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4101	-.9132	-.9119	-.8488	-.5502	-.6997	-.8634	-1.1716	-2.5990	
.010		-.6155	-.4507		-1.8379	-2.0000	-2.4116	-2.8389		
.020		-.4829		.0000	-1.7343	-2.1736	-2.5909	-2.8737	-1.9776	
.040			-.4186	-.9409						
.041	-.3651									
.050					-1.6373	-2.1131	-2.6205	-2.7559		
.069									-1.9234	
.080					-1.5986					
.081				-.8938						
.085			-.4819							
.094		-.5288								
.113	-.2325									
.150					-1.1846	-1.4395	-1.4496	-1.8275		
.157									-1.7967	
.163			.0000							
.177				-.9043						
.229		-.6994								
.246			-.8317							
.247	-.1636									
.250					-.9403	-1.0933	-1.2111	-1.2487		

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U51)

ALPHA (5) = 12.027 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										
.274				-.8177						
.345									-1.9265	
.362		-.5901								
.390			-.7610							
.400					-.5628	-.5655		-.8448		
.402				-.5446						
.418										-1.9714
.429	-.2510									
.497		-.7180								
.503									-1.8377	
.547	-.5640									
.550					-.4440	-.3504				
.565				-.3226						
.600								-.5541		
.633	-.5182									
.637			-.3708							
.650							-.2672			
.670									-1.3291	
.700		-.1766				-.2274				
.723										-1.5339
.725					-.1811					
.727	-.2089									
.750							-.2154	-.3814		
.760				-.2765						
.775					-.2672	-.2507				
.793	.0109									
.798			-.1677							
.808				-.3533						
.834		-.1521								
.839			-.1956							
.850					-.0601	-.1177	-.1332			
.857				-.2272						
.862									-.9991	
.865		-.2493								
.879			-.0983							
.900		-.0614			-.0242			-.2006		
.905				-.1660						
.919			-.0616							
.950					.0263	-.0206	-.0583			
.953				-.0969						
.955			-.0194							
.965		-.0285								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (5) = 12.024 BETA (4) = 4.250 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5264	-.9925	-.6191	-.9298	-.7238	-.8976	-1.0910	-1.4118	-2.5059	
.010		-.5449	-.4799		-1.9034	-2.1811	-2.6282	-2.6636		
.020		-.5297		.0000	-1.7074	-2.2973	-2.7729	-2.6379	-1.7679	
.040			-.4870	-.7540						
.041	-.4918									
.050					-1.5691	-2.0763	-2.6709	-2.3936		
.069									-1.7257	
.080					-1.4696					
.081				-.8326						
.086			-.5179							
.094		-.5810								
.113	-.2562									
.150					-1.0467	-1.3765	-1.4657	-2.0019		
.157									-1.6015	
.163			.0000							
.177				-.8577						
.229		-.7160								
.246			-.8830							
.247	-.2084									
.250					-.8450	-1.0215	-1.1690	-1.4664		
.274				-.7879						
.345									-1.5857	
.362		-.5134								
.390			-.8778							
.400					-.6338	-.5927		-.7835		
.402				-.6752						
.418										-1.4485
.429	-.2576									
.497		-.6463								
.503									-1.5048	
.547	-.5472									
.550					-.3842	-.4290				
.565				-.5887						
.600								-.4414		
.633	-.5262									
.637			-.3055							
.650							-.3089			
.670									-1.1635	
.700		-.2081				-.3127				
.723										-1.4618
.725					-.2474					
.727	-.2375									
.750							-.2899	-.2874		
.760				-.2792						
.775					-.3673	-.2836				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (5) = 12.024 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	-.0365									
.798			-.1785							
.808				-.3387						
.834		-.1811								
.839			.2123							
.850					-.2476	-.0843	-.2051			
.857				-.1927						
.862									-.8855	
.865		-.2782								
.879			-.1080							
.900		-.1013			-.1616			-.1878		
.905				-.1218						
.919			-.0735							
.950					-.0637	.0266	-.1259			
.963				-.0369						
.955			-.0246							
.955		-.0507								

ALPHA (5) = 12.010 BETA (5) = 8.307 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6696	-1.0981	-.5633	-1.0071	-.9424	-1.1502	-1.3441	-1.6448	-2.0511	
.010		-.5951	-.5176		-1.9470	-2.3551	-2.7679	-2.4479		
.020		-.6017		.0000	-1.6633	-2.4596	-2.9108	-2.3977	-1.6018	
.040			-.5231	-.7572						
.041	-.6947									
.050					-1.4367	-1.9245	-2.7570	-2.2337		
.069									-1.5561	
.080					-1.2937					
.081				-.7990						
.086			-.5674							
.094		-.6271								
.113	-.3402									
.150					-.9505	-1.2668	-1.4051	-2.0251		
.157									-1.4577	
.163			.0000							
.177				-.8078						
.229		-.8614								
.245			-1.0378							
.247	-.2481									
.250					-.8582	-.9128	-1.0863	-1.5508		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU51)

ALPHA (5) = 12.010 BETA (5) = 8.307

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				-.8059						
.345									-1.3491	
.362		-.4161								
.390			-.7694							
.400					-.5982	-.6393		-.7649		
.402				-.8340						
.418										-1.2536
.429	-.2432									
.497		-.6372								
.503									-1.3596	
.547	-.5152									
.550					-.4732	-.4888				
.565				-.5720						
.600								-.3981		
.633	-.5072									
.637			-.3173							
.650							-.3908			
.670									-1.1200	
.700		-.2488				-.3402				
.723										-1.2422
.725					-.3841					
.727	-.2532									
.750							-.3779	-.2775		
.760				-.2617						
.775					-.5270	-.2521				
.793	-.0833									
.798			-.2066							
.808				-.3164						
.834		-.2135								
.839			-.2397							
.850					-.2877	-.0911	-.2510			
.857				-.1914						
.862									-.7504	
.865		-.2992								
.879			-.1436							
.900		-.1252			-.2501			-.1694		
.905				-.1168						
.919			-.0952							
.950					-.1589	-.0389	-.1503			
.953				-.0401						
.955			-.0452							
.965		-.0765								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBUS2) (05 AUG 75)

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

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 = -10.000 SPOBRK = 55.000
BDFLAP = 16.300 L-ELVN = -4.000
R-ELVN = 4.000 MACH = 1.400

ALPHA (1) = -4.050 BETA (1) = -3.860 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1299	-.0984	-.1015	.2970	.7076	.6550	.6142	.6330	-.3120	
.010		-.0278	.0061		.7566	.7420	.7024	.6318		
.020		-.0226		.0000	.6766	.6413	.6161	.5893	.0183	
.040			.0590	.3938						
.041	-.0436				.4657	.4329	.4159	.4116		
.050									-.0316	
.069					.2900					
.080				.3085						
.081			.1728							
.086		-.0146								
.094										
.113	-.0230				.0556	.0657	.1025	.1248		
.150									-.1685	
.157			.0000							
.163				.1183						
.177		.0635								
.229			.1066							
.246										
.247	-.0188				-.0740	-.0881	-.0795	-.0808		
.250				-.0153					-.2054	
.274										
.345										
.362		.1481								
.380			-.0073		-.2042	-.2488		-.2793		
.400				-.1746						-.3843
.402										
.418										
.429	.0615									
.497		.0088							-.2444	
.503										
.547	.0759				-.2569	-.2929				
.550				-.1723						
.565								-.3520		
.600										
.633	-.0221									
.637			-.1417				-.3504			
.650									-.2479	
.670										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (1) = -4.050 BETA (1) = -3.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.1149				-.3078				
.723										-.4079
.725					-.0082					
.727	-.1004									
.750							-.2533	-.2540		
.760				.0160						
.775					.1974	-.0574				
.793	.2540									
.798			.0622							
.808				.3837						
.834		.1211								
.839			.3802							
.850					.3209	.0598	-.1885			
.857				.3687						
.862									-.1962	
.865		.2871								
.879			.3440							
.900		.2977			.3190			-.1479		
.905				.3207						
.919			.2699							
.950					.3192	.3093	.0389			
.953				.2838						
.955			.3150							
.965		.3564								

ALPHA (1) = -4.043 BETA (2) = .186 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1541	-.0693	-.0500	.2631	.6309	.5638	.5210	.5338	-.3760	
.010		-.0432	.0017		.6641	.6490	.6120	.5452		
.020		-.0544		.0000	.5885	.5566	.5374	.5104	-.0642	
.040			.0351	.3166						
.041	-.1028									
.050					.3963	.3680	.3537	.3515		
.069									-.1061	
.080					.2261					
.081				.2456						
.085			.1335							
.094		-.0423								
.113	-.0876									
.150					.0325	.0375	.0705	.0944		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU52)

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

ALPHA (1) = -4.043 BETA (2) = .186

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.157									-.2205	
.163			.0000							
.177				.0898						
.229		.0381								
.246			.0688							
.247	-.0457									
.250					-.0904	-.0937	-.1004	-.1045		
.274				-.0231						
.345									-.2399	
.362		.1242								
.390			-.0191							
.400					-.2029	-.2469		-.2849		
.402				-.1789						
.418										-.4491
.429	.0338									
.497		-.0227								
.503									-.2685	
.547	.0546									
.550					-.2481	-.2781				
.565				-.1640						
.600								-.3588		
.633	-.0540									
.637			-.0397							
.650							-.3358			
.670									-.2503	
.700		-.0690				-.2282				
.723										-.4763
.725					-.0051					
.727	-.0955									
.750							-.2351	-.2662		
.760				.0426						
.775					.2463	.0439				
.793	.2987									
.798			.0530							
.808				.3230						
.834		.0927								
.839			.2997							
.850					.3226	.1427	-.0377			
.857				.2975						
.862									-.1980	
.865		.1944								
.879			.2798							
.900		.2448			.2701			-.1499		
.905				.2628						
.919			.2048							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (1) = -4.043 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										
.950					.2622	.3110	.0752			
.953				.2222						
.955			.2559							
.965		.2956								

ALPHA (1) = -4.048 BETA (3) = 4.268 MACH = 1.3963 Q = 600.46 P = 439.84 RN/L = 2.9139

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1629	-.0768	-.0260	.2507	.5632	.4767	.4300	.4345	-.4215	
.010		-.0824	.0014		.5763	.5554	.5162	.4558		
.020		-.0968		.0000	.5054	.4662	.4501	.4253	-.1394	
.040			.0253	.2629						
.041	-.1561									
.050					.3350	.2984	.2833	.2795		
.069									-.1703	
.080					.1887					
.081				.2016						
.086			.1060							
.094		-.0610								
.113	-.1462									
.150					.0151	.0077	.0317	.0513		
.157									-.2612	
.163			.0000							
.177				.0668						
.229		.0217								
.246			.0528							
.247	-.0588									
.250					-.0997	-.1110	-.1171	-.1276		
.274				-.0265						
.345									-.2747	
.362		.1092								
.390			-.0238							
.400					-.2065	-.2465		-.2986		
.402				-.1806						
.418										-.4855
.429	.0259									
.497		-.0376								
.503									-.2966	
.547	.0413									
.550					-.2385	-.2831				
.565				-.1540						

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (1) = -4.048 BETA (3) = 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										
.600								-.3706		
.633	-.0838									
.637			.0347							
.650							-.3278			
.670									-.2534	
.700		-.0239				-.1080				
.723										-.5212
.725					.0250					
.727	-.0912									
.750							-.1587	-.2566		
.760				.0374						
.775					.2618	.0888				
.793	.3023									
.798			.0385							
.808				.2829						
.834		.0781								
.839			.2513							
.850					.2952	.1714	.0001			
.857				.2407						
.862									-.1911	
.865		.1553								
.873			.2192							
.900		.1985			.2228			-.0271		
.905				.2138						
.919			.1558							
.930					.2105	.2816	.1748			
.953				.1759						
.956			.2001							
.965		.2525								

ALPHA (2) = -.027 BETA (1) = -3.878 MACH = 1.3371 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0341	.0183	.0157	.4065	.7592	.7091	.6765	.6863	-.1448	
.010		.0226	.0409		.6131	.6497	.6058	.5117		
.020		.0025		.0000	.5116	.5083	.4872	.4607	.0135	
.040			.0565	.2480						
.041	-.0343									
.050					.2898	.2781	.2616	.2639		
.069									-.0552	
.080					.1182					

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU52)

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

ALPHA (2) = -.027 BETA (1) = -3.878

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				.1276						
.086			.1167							
.094		-.0528								
.113	-.0326				-.0813	-.0738	-.0309	-.0051	-.2121	
.150										
.157										
.163			.0000							
.177				-.0161						
.229		-.0008								
.246			.0062							
.247	-.0527				-.2229	-.2240	-.2082	-.1919		
.250										
.274				-.1474					-.2890	
.315										
.362		.0715								
.390			-.1140		-.3202	-.3649		-.3719		
.400										
.402				-.2701						-.1782
.418										
.429	.0122									
.497		-.0774							-.3191	
.503										
.547	.0099				-.3529	-.3982				
.550										
.565				-.2680				-.4151		
.600										
.633	-.1120									
.637			-.2251				-.4296			
.650									-.3472	
.670						-.4010				
.700		-.1926								-.2318
.723					-.1119					
.725										
.727	-.1664						-.3858	-.3490		
.750										
.760				-.0633						
.775					-.0080	-.1255				
.793	.0292									
.799			-.0529							
.808				1796						
.834		.0263								
.842			.2592							
.850					.0765	-.1602	-.3124			
.857				2837						
.867									.2222	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (2) = -.027 BETA (1) = -3.878

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		.1811								
.879			.2703							
.900		.2269			.1538			-.2531		
.905				.2682						
.919			.2276							
.950					.2331	-.0632	-.1277			
.953				.2428						
.955			.2578							
.965		.2932								

ALPHA (2) = -.013 BETA (2) = .172 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0464	-.0197	-.0208	.3544	.6696	.6175	.5846	.5877	-.1968	
.010		-.0424	-.0099		.5001	.5467	.5123	.4246		
.020		-.0577		.0000	.4059	.4186	.3993	.3754	-.0572	
.040			.0207	.1780						
.041	-.0865									
.050					.2216	.2093	.1946	.1979		
.069									-.1179	
.080					.0641					
.081				.0758						
.085			.0795							
.094		-.1075								
.113	-.0957									
.150					-.1134	-.1107	-.0723	-.0434		
.157									-.2575	
.163			.0000							
.177				-.0406						
.229		-.0161								
.246			-.0241							
.247	-.0974									
.250					-.2301	-.2457	-.2363	-.2188		
.274				-.1452						
.345									-.3003	
.362		.0483								
.390			-.1202							
.409					-.3074	-.3676		-.3883		
.402				-.2636						
.418										-.1984
.429	-.0091									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (2) = -.013 BETA (2) = .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										
.497		-.0964								
.503									-.3395	
.547	-.0079									
.550					-.3401	-.3901				
.565				-.2615						
.600								-.4298		
.633	-.1425									
.637			-.2194							
.650							-.4372			
.670									-.3444	
.700		-.1892				-.3643				
.723										-.2234
.725					-.0998					
.727	-.1689									
.750							-.3476	-.3585		
.760				-.0835						
.775					.0052	-.1284				
.793	.1362									
.798			-.0484							
.808				.1808						
.834		.0223								
.839			.1990							
.850					.1189	-.1206	-.2207			
.857				.2156						
.862									-.2977	
.865		.1168								
.879			.1973							
.900		.1503			.1732			-.2625		
.905				.2049						
.919			.1612							
.950					.2081	.0613	-.1041			
.953				.1814						
.955			.1695							
.965		.2163								

AMES 11-073(OA14B) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (2) = -.015 BETA (3) = 4.247 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0637	-.0943	-.0850	.2919	.5878	.5367	.4921	.4944	-.2052	
.010		-.1285	-.0550		.3900	.4442	.4062	.3262		
.020		-.1389		.0000	.3166	.3245	.3056	.2870	-.1200	
.040			-.0147	.1214						
.041	-.1295									
.050					.1583	.1381	.1229	.1265		
.069									-.1734	
.080					.0199					
.081				.0376						
.086			.0384							
.094		-.1575								
.113	-.1555									
.150					-.1266	-.1444	-.1126	-.0850		
.157									-.2965	
.163			.0000							
.177				-.0632						
.229		-.0273								
.246			-.0332							
.247	-.1312									
.250					-.2200	-.2648	-.2540	-.2485		
.274				-.1428						
.345									-.3201	
.352		.0437								
.390			-.1214							
.400					-.3019	-.3545		-.4040		
.402				-.2586						
.418										-.1519
.429	-.0128									
.497		-.1052								
.503									-.3470	
.547	-.0169									
.550					-.3381	-.3807				
.565				-.2596						
.600								-.4452		
.633	-.1633									
.637			-.1610							
.650							-.4271			
.670									-.3404	
.700		-.1714				-.2211				
.723										-.2560
.725					-.1143					
.727	-.1687									
.750							-.3015	-.3594		
.760				-.0842						
.775					.0308	-.1317				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (2) = -.015 BETA (3) = 4.24?

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	.1692									
.798			-.0441							
.808				.1565						
.834		.0064								
.839			.1507							
.850					.1510	-.0625	-.1835			
.857				.1717						
.862									-.2935	
.865		.0817								
.879			.1417							
.900		.0963			.1706			-.1956		
.905				.1511						
.919			.1021							
.950					.1730	.1197	-.1197			
.953				.1290						
.955			.1247							
.965		.1533								

ALPHA (3) = 3.910 BETA (1) = -3.886 MACH = 1.1964 Q = 600.16 P = 439.71 RN/L = 2.9092

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0541	.0304	-.0342	.3838	.7563	.7397	.7237	.7093	.0789	
.010		-.0146	-.0498		.3804	.5016	.4679	.3568		
.020		-.0314		.0000	.2928	.3567	.3294	.2915	-.0481	
.040			-.0408	.0491						
.041	-.0185									
.050					.0839	.1115	.1051	.0969		
.069									-.0937	
.080					-.0715					
.081				-.0553						
.086			-.0022							
.094		-.0794								
.113	-.0369									
.150					-.2785	-.2302	-.1783	-.1428		
.157									-.2694	
.163			.0000							
.177				-.1834						
.229		-.0804								
.245			-.1230							
.247	-.0585									
.250					-.3476	-.3619	-.3313	-.3001		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (3) = 3.910 BETA (1) = -3.886

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2743						
.345									-.3388	
.362		-.0179								
.390			-.2189							
.400					-.4313	-.4736		-.4526		
.402				-.3577						
.418										-.1265
.429	-.0511									
.497		-.1564								
.503									-.4141	
.547	-.0611									
.550					-.4436	-.5063				
.565				-.3497						
.600								-.4757		
.633	-.2054									
.637			-.3031							
.650							-.4914			
.670									-.4796	
.700		-.2688				-.5077				
.723										-.3493
.725					-.1803					
.727	-.2401									
.750							-.4668	-.4218		
.760				-.1288						
.775					-.1658	-.2060				
.793	-.1658									
.798			-.1368							
.808				-.0320						
.834		-.0650								
.839			.0840							
.850					-.1354	-.1814	-.3150			
.857				.0640						
.862									-.4834	
.865		.0713								
.879			.1748							
.900		.1928			-.1000			-.3512		
.905				.1473						
.919			.1755							
.950					.0017	-.2098	-.2027			
.953				.1865						
.955			.1935							
.965		.2331								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (3) = 3.912 BETA (2) = .174 MACH = 1.3964 Q = 600.16 P = 439.71 RN/L = 2.9092

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0211	-.0750	-.1961	.2594	.6486	.6409	.6232	.6016	.0268	
.010		-.1288	-.1984		.2727	.3851	.3605	.2491		
.020		-.1310		.0000	.1843	.2399	.2345	.1968	-.1120	
.040			-.1479	-.0170						
.041	-.0725									
.050					.0127	.0347	.0327	.0218		
.069									-.1555	
.080					-.1220					
.081				-.1052						
.086			-.0652							
.094		-.1435								
.113	-.1002									
.150					-.3073	-.2689	-.2219	-.1890		
.157									-.3099	
.163			.0000							
.177				-.2064						
.229		-.1213								
.246			-.1370							
.247	-.1115									
.250					-.3559	-.3831	-.3586	-.3326		
.274				-.2776						
.345									-.3688	
.362		-.0348								
.390			-.2160							
.400					-.4216	-.4810		-.4672		
.402				-.3470						
.418										-.2422
.419	-.0671									
.497		-.1726								
.503									-.4343	
.547	-.0787									
.550					-.4133	-.4959				
.565				-.3420						
.600								-.4884		
.633	-.2306									
.637			-.2974							
.650							-.5010			
.670									-.4863	
.700		-.2726				-.4313				
.723										-.4908
.725					-.1593					
.727	-.2401									
.750							-.4487	-.4308		
.760				-.1423						
.775					-.1481	-.1824				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (3) = 3.912 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										
.793	-.0064									
.798			.1312							
.808				-.0180						
.834		-.0258								
.839			.0806							
.850					-.1061	-.1878	-.2801			
.857				.0518						
.862									-.4773	
.865		.0499								
.879			.1021							
.900		.1009			-.0485			-.3445		
.905				.1050						
.919			.1099							
.950					.0424	-.1902	-.2163			
.953				.1233						
.955			.1170							
.965		.1429								

ALPHA (3) = 3.916 BETA (3) = 4.238 MACH = 1.3964 Q = 600.16 P = 439.71 RN/L = 2.9082

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0074	-.2155	-.4137	.1320	.5430	.5442	.5241	.5075	-.0587	
.010		-.2709	.3630		.1502	.2667	.2398	.1416		
.020		-.2492		.0000	.0726	.1342	.1279	.0954	-.1944	
.040			-.2271	-.0873						
.041	-.1126									
.050					-.0642	-.0424	-.0525	-.0625		
.069									-.2244	
.080					-.1769					
.081				-.1443						
.086			.1184							
.094		-.2051								
.113	-.1536									
.150					-.3217	-.3048	-.2701	-.2417		
.157									-.3513	
.163			.0000							
.177				.2003						
.229		-.1242								
.245			-.1311							
.247	-.1569									
.250					-.3508	-.4034	-.3915	-.3861		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (3) = 3.916 BETA (3) = 4.236

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				-.2575						
.345									-.4070	
.352		-.0263								
.390			-.2050							
.400					-.3920	-.4789		-.4884		
.402				-.3309						
.418										-.4082
.429	-.0689									
.497		-.1751								
.503									-.4582	
.547	-.0781									
.550					-.4010	-.4787				
.565				-.3312						
.600								-.4938		
.633	-.2420									
.637			-.2985							
.650							-.5110			
.670									-.5019	
.700		-.2707				-.2634				
.723										-.5945
.725					-.1672					
.727	-.2367									
.750							-.3702	-.3829		
.760				-.1560						
.775					-.1418	-.1815				
.793	.1070									
.798			-.0852							
.808				-.0021						
.834		-.0242								
.839			.0779							
.850					-.0623	-.1924	-.2822			
.857				.0419						
.862									-.5189	
.865		.0237								
.879			.0581							
.900		.0254			-.0121			-.2519		
.905				.0751						
.919			.0581							
.950					.0563	-.1332	-.2253			
.953				.0742						
.955			.0633							
.965		.0610								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (4) = 7.922 BETA ( ) = -3.876 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.1006	-.0592	-.2013	.2814	.7020	.7195	.7126	.6809	.0276	
.010		-.1409	-.2351		.1663	.3143	.2798	.1458		
.020		-.1267		.0000	.0582	.1463	.1434	.0837	-.2222	
.040			-.1689	-.1421						
.041	-.0145									
.050					-.1143	-.0694	-.0673	-.0962		
.069									-.2473	
.080					-.2459					
.081				-.2472						
.086			-.1138							
.094		-.1094								
.113	-.0318									
.150					-.4198	-.3635	-.3235	-.2916		
.157									-.3927	
.163			.0000							
.177				-.3764						
.229		-.1172								
.246			-.2689							
.247	-.0543									
.250					-.5077	-.4771	-.4435	-.4126		
.274				-.4201						
.345									-.4844	
.362		-.1108								
.390			-.3237							
.400					-.5697	-.5666		-.4578		
.402				-.4418						
.418										-.3816
.429	-.1054									
.497		-.2549								
.503									-.5009	
.547	-.1604									
.550					-.5583	-.5306				
.565				-.4163						
.600								-.4542		
.633	-.2972									
.637			-.3871							
.650							-.4496			
.670									-.5812	
.700		-.3569				-.4631				
.723										-.6114
.725					-.3490					
.727	-.3132									
.750							-.3971	-.4164		
.760				-.2017						
.775					-.3202	-.3720				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (4) = 7.922 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										
.793	-.2783									
.798			-.1957							
.808				-.1889						
.834		-.1361								
.839			-.0449							
.850					-.2281	-.3448	-.3826			
.857				-.0947					-.5942	
.862										
.865		-.0077								
.879			.0671							
.900		.1542			-.2003			-.3735		
.905				.0076						
.919			.1397							
.950					-.1613	-.2894	-.3412			
.953				.0803						
.955			.1761							
.965		.1713								

ALPHA (4) = 7.930 BETA (2) = .169 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9187

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0411	-.2151	-.4359	.0674	.5419	.5862	.5843	.5500	-.1375	
.010		-.2934	-.3916		.0006	.1526	.1272	.0080		
.020		-.2660		.0000	-.1048	.0056	.0123	-.0434	-.3473	
.043			-.3138	-.2852						
.041	-.0617									
.059					-.2482	-.1827	-.1718	-.1978		
.069					-.3467				-.3527	
.080										
.081				-.3402						
.086			-.2226							
.094		-.1787								
.113	-.0960									
.150					-.4801	-.4217	-.3829	-.3551		
.157									-.4527	
.163			.0000							
.177				-.4386						
.229		-.1763								
.246			-.2773							
.247	-.1135									
.250					-.5333	-.5101	-.4831	-.4526		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (4) = 7.930 BETA (2) = .169

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				-.3665						
.345									-.5011	
.362		-.1510								
.390			-.3017							
.400					-.5476	-.5757		-.4701		
.402				-.4076						
.418										-.5325
.429	-.1659									
.497		-.2665								
.503									-.5399	
.547	-.1545									
.550					-.4742	-.5305				
.565				-.3981						
.600								-.4792		
.633	-.3044									
.637			-.3890							
.650							-.4786			
.670									-.5757	
.700		-.3512				-.4554				
.723										-.5069
.725					-.2138					
.727	-.3025									
.750							-.4244	-.4256		
.760				-.1857						
.775					-.1917	-.3755				
.793	-.1361									
.798			-.1832							
.808				-.1318						
.834		-.0459								
.849			-.0074							
.850					-.1665	-.3777	-.4045			
.857				-.0642						
.862									-.5139	
.865		.0217								
.879			.0132							
.900		.0705			-.1648			-.3828		
.905				-.0316						
.919			.0894							
.950					-.0886	-.2872	-.3570			
.953				.0139						
.955			.1090							
.965		.0624								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (4) = 7.931 BETA (3) = 4.235 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0190	-.4012	-.4143	-.1459	.3689	.4434	.4458	.4066	-.3099	
.010		-.3816	-.4103		-.1720	.0099	-.0176	-.1189		
.020		-.3812		.0000	-.2607	-.1140	-.1153	-.1631	-.4582	
.040			-.3952	-.3351						
.041	-.1092									
.050					-.3778	-.2712	-.2621	-.2946		
.069									-.4837	
.080					-.4517					
.081				-.3155						
.086			-.3709							
.094		-.3720								
.113	-.1555									
.150					-.5058	-.4665	-.4335	-.4124		
.157									-.4960	
.163			.0000							
.177				-.3209						
.229		-.2042								
.246			-.4334							
.247	-.1727									
.250					-.4747	-.5391	-.5172	-.4921		
.274				-.3422						
.345									-.5083	
.362		-.1190								
.390			-.2860							
.400					-.4472	-.5830		-.4890		
.402				-.3844						
.418										-.5050
.429	-.1649									
.497		-.2911								
.503									-.5171	
.547	-.1418									
.550					-.4446	-.5313				
.565				-.4059						
.600								-.4829		
.633	-.3005									
.637			-.3748							
.650							-.4889			
.670									-.4745	
.700		-.3266				-.4613				
.723										-.4505
.725					-.2192					
.727	-.2970									
.750							-.4439	-.4162		
.760				-.1836						
.775					-.1687	-.3294				

AMES 11-073(OA148) -140A/B/C/R ORE LEFT WING TOP (XEBU52)

ALPHA (4) = 7.931 BETA (3) = 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										
.793	.0230									
.798			-.1542							
.808				-.1053						
.834		-.1076								
.839			-.0163							
.850					-.1234	-.2800	-.4052			
.857				-.0643						
.862									-.4658	
.865		-.0448								
.879			-.0045							
.900		-.0242			-.0772			-.3665		
.905				-.0416						
.919			.0219							
.950					-.0098	-.1303	-.3478			
.953				.0199						
.955			.0071							
.965		-.0046								

ALPHA (5) = 11.858 BETA (1) = -3.866 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9168

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0240	-.2291	-.3741	.1154	.6081	.6507	.6428	.5804	-.1696	
.010		-.2815	-.3390		-.0196	.1291	.0707	-.0667		
.020		-.2735		.0000	-.1263	-.0205	-.0477	-.1198	-.4786	
.040			-.2722	-.3214						
.041	-.0140									
.050					-.2788	-.2134	-.2221	-.2702		
.069									-.4772	
.080					-.3795					
.081				-.3798						
.086			-.1991							
.094		-.1928								
.113	-.0360									
.150					-.5084	-.4584	-.4219	-.4118		
.157									-.4914	
.163			.0000							
.177				-.4750						
.229		-.1616								
.246			-.2849							
.247	-.0553									
.250					-.5718	-.4988	-.4785	-.4705		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU52)

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

ALPHA (5) = 11.858 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/CH										
.274				-.4717					-.5180	
.345										
.362		-.1491								
.390			.3740							
.400					-.5290	-.4851		-.4627		
.402				-.4880						-.5283
.418										
.429	-.1320									
.497		-.3589							-.5161	
.503										
.547	-.2001				-.4852	-.4808				
.550										
.565				-.4665				-.4582		
.600										
.633	-.3959									
.637			-.4548				-.4556			
.650									-.4760	
.670						-.4808				
.700		-.4653								-.4582
.723					-.4720					
.725										
.727	-.4018						-.4141	-.4396		
.750				-.3355						
.760					-.4552	-.4360				
.775										
.793	-.3780									
.798			-.2264							
.808				-.3468						
.834		-.1586								
.839			-.1958		-.4093	-.4213	-.4120			
.850										
.857				-.3602					-.4739	
.862										
.865		-.0174								
.879			-.1123							
.900		.1449			-.4056			-.4344		
.905				-.2368						
.919			-.1319							
.950					-.3488	-.3205	-.3795			
.957				-.1893						
.976			-.1137							
.989		.0816								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (5) = 11.857 BETA (2) = .167 MACH = 1.3951 Q = 600.34 P = 440.65 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	-.0576	-.3652	-.3624	-.0831	.4397	.4901	.4898	.4234	-.3403	
.010		-.3122	-.3549		-.1712	-.0206	-.0799	-.1961		
.020		-.3063		.0000	-.2692	-.1638	-.1862	-.2498	-.5113	
.040			-.3414	-.3761						
.041	-.0772									
.050					-.3938	-.3242	-.3299	-.3676		
.069									-.4983	
.080					-.4736					
.081				-.4148						
.085			-.3116							
.094		-.3491								
.113	-.1200									
.150					-.5727	-.5217	-.4901	-.4801		
.157									-.4988	
.163			.0000							
.177				-.4356						
.229		-.4068								
.246			-.3848							
.247	-.1030									
.250					-.5961	-.5423	-.5116	-.5014		
.274				-.4644						
.345									-.5184	
.362		-.2869								
.390			-.4055							
.400					-.5518	-.5321		-.5139		
.402				-.4987						
.418										-.5161
429	-.1909									
.497		-.4102								
.503									-.5191	
.547	-.2645									
.550					-.5343	-.5267				
.565				-.4656						
.600								-.4934		
.633	-.4099									
.637			-.4789							
.650							-.5005			
.670									-.4891	
.700		-.4291				-.5094				
.723										-.4704
.725					-.4687					
.727	-.3936									
.750							-.4553	-.4681		
.760				-.2406						
.775					-.4872	-.4763				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (5) = 11.867 BETA (2) = .167

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	-.1947									
.798			-.2198							
.908				-.2675						
.834		-.1348								
.839			-.1203							
.850					-.4085	-.4167	-.4342			
.857				-.2526						
.862									-.4907	
.865		-.0322								
.879			-.0440							
.900		.0286			-.3467			-.4598		
.905				-.2807						
.919			-.0303							
.950					-.3583	-.3358	-.3682			
.953				-.3105						
.955			-.1014							
.965		.0140								

ALPHA (5) = 11.865 BETA (3) = 4.248 MACH = 1.3951 Q = 600.34 P = 440.65 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	-.1427	-.3852	-.4060	-.2972	.2495	.3151	.3101	.2443	-.4661	
.010		-.3786	-.4081		-.3169	-.1703	-.2227	-.3352		
.020		-.3786		.0000	-.3949	-.2984	-.3196	-.3761	-.5314	
.040			-.4104	-.3874						
.041	-.1746									
.050					-.4901	-.4238	-.4322	-.4680		
.060									-.5321	
.080					-.5508					
.081				-.4158						
.086			-.3823							
.094		-.4382								
.113	-.1595									
.150					-.5877	-.5791	-.5506	-.5482		
.157									-.5354	
.163			.0000							
.177				-.4269						
.229		-.5309								
.246			-.4265							
.247	-.1890									
.250					-.5825	-.6271	-.5896	-.5634		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (5) = 11.865 BETA (3) = 4.248

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				-.4151						
.345									-.5425	
.362		-.3890								
.390			-.4065							
.400					-.6050	-.6046		-.5705		
.402				-.4625						
.418										-.5374
.429	-.2701									
.497		-.3696								
.503									-.5406	
.547	-.2365									
.550					-.5512	-.6004				
.565				-.4814						
.600								-.5403		
.633	-.3824									
.657			-.4682							
.650							-.5537			
.670									-.5276	
.700		-.3700				-.5182				
.723										-.5121
.725					-.2774					
.727	-.3712									
.750							-.5028	-.5253		
.760				-.2514						
.775					-.2677	-.4711				
.793	-.0541									
.798			-.2470							
.808				-.2476						
.834		-.1849								
.839			-.1352							
.850					-.2300	-.4943	-.4805			
.857				-.2087						
.862									-.5236	
.865		-.1543								
.879			-.0737							
.900		-.0739			-.2163			-.4940		
.905				-.1477						
.919			-.0654							
.950					-.2376	-.3438	-.3933			
.953				-.0893						
.965			-.0496							
.985		-.0636								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (6) = 15.826 BETA (1) = -3.845 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

SECTION (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	-.3216	-.3020	-.0077	.4984	.5338	.5223	.4301	-.3344	
.010		-.2788	-.2918		-.1714	-.0391	-.1195	-.2664		
.020		-.2696		.0000	-.2722	-.1890	-.2339	-.3151	-.5540	
.040			-.2658	-.3410						
.041	-.1447									
.050					-.3985	-.3446	-.3687	-.4208		
.069									-.5372	
.080					-.4787					
.081				-.3747						
.086			-.2460							
.094		-.[illegible]2								
.113	-.0384									
.150					-.5755	-.5342	-.5115	-.5205		
.157									-.5377	
.163			.0000							
.177				-.3870						
.229		-.3585								
.246			-.3588							
.247	-.0739									
.250					-.5502	-.5396	-.5228	-.5238		
.274				-.4332						
.345									-.5542	
.362		-.3712								
.390			-.3953							
.400					-.5438	-.5325		-.5316		
.402				-.4940						
.418										-.5727
.429	-.1572									
.497		-.4778								
.503									-.5578	
.547	-.2462									
.550					-.5495	-.5370				
.565				-.5280						
.600								-.5423		
.633	-.4721									
.637			-.5058							
.650							-.5256			
.670									-.5311	
.700		-.5138				-.5356				
.723										-.5053
.725					-.5114					
.727	-.5189									
.750							-.4767	-.5274		
.760				-.3399						
.775					-.5159	-.4951				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (6) = 15.826 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										
.793	-.3863									
.798			-.2719							
.808				-.3684						
.834		-.2429								
.839			-.2929							
.850					-.4548	-.4647	-.4767			
.857				-.3851						
.862									-.5287	
.865		-.1554								
.879			-.1954							
.900		-.0892			-.4482			-.5378		
.905				-.4046						
.919			-.1855							
.950					-.401:	-.4155	-.4552			
.953				-.3553						
.955			-.2138							
.965		-.0102								

ALPHA (6) = 15.841 BETA (2) = .165 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1355	-.3686	-.3630	-.2234	.3187	.3578	.3416	.2458	-.4522	
.010		-.3632	-.3557		-.3123	-.1871	-.2518	-.3727		
.020		-.3620		.0000	-.3916	-.3170	-.3:98	-.4187	-.5504	
.040			-.3581	-.3636						
.041	-.3063									
.050					-.4894	-.4396	-.4613	-.5033		
.069									-.5532	
.080					-.5508					
.081				-.4060						
.086			-.3253							
.094		-.3851								
.113	-.1289									
.150					-.5954	-.5886	-.5716	-.5779		
.157									-.5580	
.163			.0000							
.177				-.4590						
.209		-.4295								
.246			-.4358							
.247	-.1808									
.250					-.5834	-.5763	-.5576	-.5701		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (6) = 15.841 BETA (2) = .165

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				-.4970						
.345									-.5650	
.362		-.4710								
.390			-.4582							
.400					-.5725	-.5713		-.5708		
.402				-.5403						-.5609
.418										
.429	-.2563									
.497		-.5278							-.5724	
.503										
.547	-.3436									
.550					-.5676	-.5756				
.565				-.5182						
.600								-.5639		
.633	-.5042									
.637			-.5186							
.650							-.5591			
.670									-.5438	
.700		-.5050				-.5695				
.723										-.5276
.725					-.5435					
.727	-.5195									
.750							-.5177	-.5462		
.760				-.3184						
.775					-.5428	-.5243				
.786	-.3101									
.798			-.2544							
.808				-.3473						
.854		-.2096								
.859			-.1393							
.860					-.4885	-.4719	-.5029			
.857				-.3578						
.862									-.5443	
.865		-.1668								
.879			-.1429							
.900		-.0576			-.4778			-.5533		
.905				-.3468						
.919			-.2032							
.950					-.4667	-.3954	-.4571			
.953				-.3637						
.955			-.2103							
.965		-.0482								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 4571

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU52)

ALPHA (6) = 15.833 BETA (3) = 4.274 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2311	-.4145	-.4358	-.4116	.1363	.1832	.1637	.0769	.5310	
.010		-.4168	-.4341		-.4285	-.3177	-.3728	-.4850		
.020		-.4223		.0000	-.4981	-.4289	-.4558	-.5176	.5509	
.040			-.4351	-.4123						
.041	-.4279									
.050					-.5675	-.5245	-.5406	-.5774		
.069									-.5498	
.080					-.6103					
.081				-.4296						
.086			-.3935							
.094		-.4490								
.113	-.2169									
.150					-.6094	-.6291	-.6134	-.5793		
.157									-.5478	
.163			.0000							
.177				-.4973						
.229		-.4837								
.246			-.5051							
.247	-.2618									
.250					-.6117	-.6111	-.5886	-.5731		
.274				-.5025						
.345									-.5440	
.362		-.5223								
.390			-.4701							
.400					-.5975	-.6047		-.5627		
.402				-.5035						
.418										-.5424
.429	-.3386									
.497		-.5098								
.503									-.5536	
.547	-.3757									
.550					-.6174	-.6024				
.565				-.5143						
.600								-.5413		
.633	-.4589									
.637			-.4578							
.650							-.5727			
.670									-.5319	
.700		-.4339				-.5856				
.723										-.5207
.725					-.4680					
.727	-.4363									
.750							-.5503	-.5330		
.760				-.3403						
.775					-.4600	-.5484				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U52)

ALPHA (6) = 15.833 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										
.793	-.2251									
.798			-.2862							
.808				-.2976						
.834		-.2282								
.839			-.2082							
.850					-.4399	-.4583	-.5254			
.857				-.2830						
.862									-.5253	
.865		-.2272								
.879			-.1483							
.900		-.1192			-.4505			-.5237		
.905				-.3081						
.919			-.1785							
.950					-.4697	-.3861	-.4980			
.953				-.3198						
.955			-.1818							
.965		-.1056								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53) (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 = -10.000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = -4.000
R-ELVN = 4.000 MACH = 1.250

ALPHA (1) = -4.036 BETA (1) = -3.860 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0068

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2182	-.1260	-.1309	.2325	.6257	.5577	.5107	.5324	-.4579	
.010		-.0477	-.0278		.6932	.6638	.6192	.5400		
.020		-.0558		.0000	.6128	.5625	.5257	.4966	-.0988	
.040			.0182	.3772						
.041	-.1194									
.050					.4030	.3530	.3263	.3143		
.069									-.1546	
.080					.2197					
.081				.2611						
.086			.1344							
.094		-.0115								
.113	-.0846									
.150					-.0226	-.0330	-.0063	.0049		
.157									-.2951	
.163			.0000							
.177				.0666						
.229		.0252								
.246			.0595							
.247	-.0418									
.250					-.1833	-.1865	-.2056	-.2112		
.274				-.0696						
.345									-.3228	
.362		.1257								
.390			-.0892							
.400					-.3125	-.3707		-.4088		
.402				.2591						
.418										-.5277
.429	.0215									
.497		-.0423								
.503									-.3686	
.547	.0422									
.550					-.3526	-.4084				
.565				-.2700						
.600								-.4864		
.633	-.1033									
.637			-.1335							
.650							-.4748			
.670									-.3674	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (1) = -4.036 BETA (1) = -3.860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		-.1844				-.1609				
.723										-.5517
.725					-.0238					
.727	-.1967									
.750							-.2771	-.3707		
.760				-.0141						
.775					.2418	-.0318				
.793	.2455									
.798			.0028							
.808				.3544						
.834		.0526								
.839			.3398							
.850					.3030	.1554	-.0374			
.857				.2956						
.862									-.2879	
.865		.2448								
.879			.2677							
.900		.2139			.2546			-.1507		
.905				.2283						
.919			.2127							
.950					.2639	.3302	.0730			
.953				.2377						
.955			.2381							
.965		.2749								

ALPHA (1) = -4.029 BETA (2) = .182 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0068

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2218	-.1101	-.0865	.2025	.5596	.4662	.4277	.4412	-.5170	
.010		-.0999	-.0333		.6109	.5836	.5425	.4721		
.020		-.1127		.0000	.5368	.4940	.4629	.4312	-.1648	
.040			.0044	.2912						
.041	-.1759									
.050					.3525	.3004	.2773	.2637		
.069									-.1985	
.080					.1856					
.081				.2151						
.086			.0920							
.094		-.0659								
.113	-.1320									
.150					-.0268	-.0425	-.0240	-.0137		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (1) = -4.029 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										
.157									-.3279	
.163			.0000							
.177				.0522						
.229		-.0087								
.246			.0364							
.247	-.0648									
.250					-.1636	-.1884	-.1977	-.1426		
.274				-.0785						
.345									-.3457	
.362		.0842								
.390			-.0895							
.400					-.3061	-.3483		-.4140		
.402				-.2654						
.418										-.5895
.429	-.0037									
.497		-.0557								
.503									-.3783	
.547	.0214									
.550					-.3087	-.3934				
.565				-.1122						
.600								-.4556		
.633	-.1137									
.637			.0649							
.650							-.4379			
.670									-.3491	
.700		.0155				-.1421				
.723										-.8073
.725					.0048					
.727	-.1437									
.750							-.1067	-.2209		
.760				.0024						
.775					.3100	.1020				
.793	-.2796									
.798			-.0057							
.808				.3019						
.834		.0255								
.839			.2915							
.850					.2623	.1868	.1364			
.857				.2528						
.862									-.1610	
.865		.1977								
.879			.2317							
.900		.1808			.2008			-.0268		
.905				.1916						
.919			.1629							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (1) = -4.029 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										
.950					.2107	.3111	.3058			
.953				.1817						
.955			.1957							
.965		.2278								

ALPHA (1) = -4.033 BETA (3) = 4.271 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0068

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2419	-.1150	-.0526	.2193	.4835	.4120	.3666	.3701	-.5682	
.010		-.1434	-.0317		.5039	.4919	.4801	.4142		
.020		-.1631		.0000	.4337	.4200	.4117	.3812	-.2293	
.040			-.0012	.2268						
.041	-.2519									
.050					.2753	.2432	.2380	.2280		
.069									-.2596	
.080					.1298					
.081				.1450						
.086			.0798							
.094		-.0619								
.113	-.2042									
.150					-.0530	-.0486	-.0337	-.0206		
.157									-.3728	
.163			.0000							
.177				.0174						
.229		-.0088								
.246			-.0100							
.247	-.0614									
.250					-.1716	-.1874	-.1941	-.2144		
.274				-.0925						
.345									-.3821	
.362		.0829								
.390			-.0939							
.400					-.2882	-.3198		-.4120		
.402				-.2541						
.418										-.6420
.429	-.0040									
.497		-.0936								
.503									-.3531	
.547	-.0137									
.550					.0038	-.2138				
.565				.1033						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (1) = -4.033 BETA (3) = 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										
.600								-.4454		
.633	-.1256									
.637			.1715							
.650							-.2148			
.670									-.1882	
.700		.1507				-.0259				
.723										-.5724
.725					.0477					
.727	.0819									
.750							.1194	-.1193		
.760				-.0023						
.775					.2820	.1716				
.793	.3064									
.798			-.0134							
.808				.2567						
.834		.0220								
.839			.2328							
.850					.2099	.1025	.2368			
.857				.1966						
.862									-.1004	
.865		.1445								
.879			.1812							
.900		.1471			.1298			.2486		
.905				.1423						
.919			.1076							
.950					.1416	.2430	.3009			
.953				.1327						
.956			.1587							
.965		.2073								

ALPHA (2) = -.011 BETA (1) = -3.881 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0119

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1055	-.0178	-.0213	.3731	.6953	.6235	.5984	.6115	-.2781	
.010		-.0140	.0047		.5542	.5799	.5358	.4456		
.020		-.0556		.0000	.4459	.4358	.4144	.3840	-.0875	
.040			.0310	.2156						
.041	-.1033									
.050					.2243	.1867	.1859	.1792		
.069									-.1626	
.080					.0336					

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU53)

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

ALPHA (2) = -.011 BETA (1) = -3.881

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				.0945						
.095			.0798							
.094		-.0986								
.113	-.0868									
.150					-.1716	-.1636	-.1350	-.1230		
.157									-.3405	
.163			.0000							
.177				-.0977						
.229		-.0319								
.246			-.0426							
.247	-.1119									
.250					-.2906	-.3370	-.3222	-.3149		
.274				-.2112						
.345									-.3993	
.362		.0484								
.390			-.2068							
.400					-.3977	-.4689		-.5039		
.402				-.3583						-.2994
.418										
.429	-.0331									
.497		-.1338							-.4545	
.503										
.547	-.0329									
.550					-.4295	-.5178				
.565				-.3590						
.500								-.5463		
.633	-.1830									
.637			-.3241							
.650							-.5422			
.670									-.4857	
.700		-.2895				-.4802				
.723										-.3450
.725					-.1216					
.727	-.2500									
.750							-.4929	-.4725		
.760				-.1076						
.775					-.0157	-.1848				
.783	.0361									
.788			-.0899							
.808				.2014						
.819		-.0404								
.839			.2298							
.850					.1032	-.2125	-.2875			
.857				.2325						
.862									-.4441	

AMES 11-073(OA148) -140A/B/C/R ORB LEF; WING TOP (XEBU53)

ALPHA (2) = -.011 BETA (1) = -3.88:

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		.1543								
.879			.2064							
.900		.1526			.1556			-.3635		
.905				.1815						
.919			.1500							
.950					.1953	.0548	-.1765			
.953				.1758						
.955			.1811							
.965		.2178								

ALPHA (2) = .001 BETA (2) = .178 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0119

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1073	-.0744	-.0515	.3311	.6018	.5441	.4959	.5037	-.3181	
.010		-.0983	-.0267		.4456	.4712	.4291	.3468		
.020		-.1273		.0000	.3434	.3411	.3190	.2929	-.1668	
.040			-.0076	.1197						
.041	-.1550									
.050					.1532	.1168	.1040	.1033		
.069									-.2291	
.080					-.0150					
.081				.0205						
.086			.0465							
.094		-.1680								
.113	-.1463									
.150					-.2009	-.2070	-.1961	-.1660		
.157									-.3768	
.163			.0000							
.177				-.1082						
.229		-.0533								
.246			-.0699							
.247	-.1432									
.250					-.2993	-.3610	-.3582	-.3471		
.274				-.2005						
.345									-.4187	
.362		.0249								
390			-.1771							
.400					-.4065	-.4709		-.5236		
.402				-.3453						
.418										-.2410
.429	-.0459									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (2) = .001 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										
.497		-.1429								
.503									-.4554	
.547	-.0579									
.550					-.4446	-.5022				
.565				-.3403						
.600								-.5490		
.633	-.1770									
.637			-.2501							
.650							-.5621			
.670									-.4576	
.700		-.2635				-.2418				
.723										-.3116
.725					-.1531					
.727	-.2678									
.750							-.3973	-.4460		
.760				-.1417						
.775					.0214	-.2030				
.793	.1233									
.798			-.1142							
.808				.1920						
.834		-.0588								
.839			.1793							
.850					.1662	-.0933	-.2244			
.857				.1684						
.882									-.3960	
.885		.0803								
.879			.1448							
.900		.0907			.1494			-.2491		
.905				.1456						
.919			.0956							
.950					.1731	.1623	-.1394			
.953				.1044						
.955			.1292							
.985		.1575								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (2) = .000 BETA (3) = 4.247 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0119

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	-.1440	-.1848	-.1109	.2633	.5275	.4671	.4384	.4414	-.2484	
.010		-.2203	-.0752		.3323	.3764	.3565	.2805		
.020		-.2248		.0000	.2396	.2531	.2515	.2314	-.1986	
.040			-.0404	.0836						
.041	-.2291									
.050					.0639	.0463	.0596	.0577		
.069									-.2576	
.080					-.0735					
.081				-.0144						
.082			.0082							
.094		-.1943								
.113	-.2410									
.150					-.2322	-.2228	-.2081	-.1916		
.157									-.4010	
.163			.0000							
.177				-.1372						
.229		-.0581								
.246			-.1043							
.247	-.1854									
.250					-.3123	-.3447	-.3562	-.3627		
.274				-.2284						
.345									-.4311	
.362		.0223								
.390			-.1969							
.400					-.3855	-.4575		-.5269		
.402				-.3630						
.418										-.2375
.429	-.0355									
.497		-.1751								
.503									-.4551	
.547	-.0696									
.550					-.2997	-.4701				
.565				-.2204						
.600								-.5344		
.633	-.2324									
.637			-.0669							
650							-.5320			
.670									-.4420	
.700		-.1009				-.2041				
.723										-.3680
.725					-.1131					
.727	-.1354									
.750							-.2252	-.3022		
.760				-.1188						
.775					.1366	-.0898				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (2) = .000 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	.1723									
.798			-.0981							
.808				.1819						
.834		-.0595								
.839			.1602							
.850					.1714	.0060	-.0747			
.857				.1470						
.862									-.2398	
.865		.0746								
.879			.1216							
.900		.0576			.0999			-.1546		
.905				.0944						
.919			.0758							
.950					.0918	.1696	.0237			
.953				.0800						
.955			.0914							
.965		.1226								

ALPHA (3) = 3.944 BETA (1) = -3.877 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

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	-.0008	-.0011	-.1028	.4004	.7290	.7076	.6811	.6642	.0458	
.010		-.0550	-.1148		.3505	.4453	.4062	.2780		
.020		-.0763		.0000	.2355	.2682	.2588	.2136	-.1253	
.040			-.0817	.0331						
.041	-.0741									
.050					.0218	.0264	.0172	-.0012		
.069									-.1804	
.080					-.1499					
.081				-.0860						
.086			-.0157							
.094		-.1352								
.113	-.0670									
.150					-.3467	-.3319	-.2825	-.2516		
.157									-.3792	
.163			.0000							
.177				-.2261						
.229		-.1026								
.246			-.1370							
.247	-.0978									
.250					-.4425	-.4707	-.4491	-.4173		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (3) = 3.944 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				-.3218						
.345									-.4571	
.332		-.0006								
.390			-.2582							
.400					-.5002	-.5813		-.5817		
.402				-.4193						
.418										-.2213
.429	-.0438									
.497		-.1825								
.503									-.5480	
.547	-.0720									
.550					-.5078	-.6128				
.565				-.3993						
.600								-.5780		
.633	-.2441									
.637			-.3490							
.650							-.5234			
.670									-.6204	
.700		-.3235				-.3075				
.723										-.5137
.725					-.1387					
.727	-.2966									
.750							-.4013	-.3981		
.760				-.0851						
.775					-.1393	-.1702				
.793	.0003									
.798			-.0745							
.808				.0919						
.834		-.0233								
.839			.2153							
.850					-.0527	-.2010	-.3313			
.857				.1901						
.862									-.6939	
.865		.1901								
.879			.2205							
.900		.1905			.0518			-.2727		
.905				.2010						
.919			.1760							
.950					.1743	-.1247	-.2655			
.953				.1964						
.955			.1954							
.965		.2258								

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (3) = 3.945 BETA (2) = .180 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0283	-.1412	-.2862	.2750	.6333	.6222	.5929	.5740	-.0266	
.010		-.1977	-.2323		.2357	.3497	.3088	.1873		
.020		-.1939		.0000	.1523	.1853	.1746	.1200	-.2025	
.040			-.1369	-.0293						
.041	-.1337									
.050					-.0330	-.0317	-.0457	-.0663		
.069									-.2431	
.080					-.1887					
.081				-.2273						
.086			-.0537							
.094		-.2069								
.113	-.1458									
.150					-.3506	-.3576	-.3147	-.2904		
.157									-.4202	
.163			.0000							
.177				-.2200						
.229		-.0999								
.246			-.1460							
.247	-.1564									
.250					-.4281	-.4811	-.4672	-.4436		
.274				-.3046						
.345									-.4849	
.362		-.0091								
.390			-.2476							
.400					-.4765	-.5710		-.5958		
.402				-.4094						
.418										-.3604
.429	-.0510									
.497		-.1963								
.503									-.5646	
.547	-.0843									
.550					-.4914	-.5899				
.565				-.3822						
.600								-.5984		
.633	-.2581									
.637			-.2672							
.650							-.5549			
.670									-.6265	
.700		-.3209				-.2725				
723										-.6620
.725					-.1757					
.727	-.2961									
.750							-.3840	-.3804		
.760				-.1268						
.775					-.1282	-.1833				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (3) = 3.945 BETA (2) = .180

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.000
X/CW										
.793	.1218									
.798			-.1184							
.808				.0890						
.834		-.0396								
.839			.1509							
.850					.0067	-.2086	-.3455			
.857				.1383						
.862									-.6126	
.865		.0613								
.879			.1426							
.900		.1164			.0854			-.2568		
.905				.1251						
.919			.0987							
.950					.1431	-.0815	-.2483			
.953				.1124						
.955			.1147							
.965		.1419								

ALPHA (3) = 3.949 BETA (3) = 4.232 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0607	-.3154	-.3756	.1395	.5472	.5278	.5097	.4797	-.1289	
.010		-.3573	-.2810		.1355	.2317	.1513	.0640		
.020		-.3228		.0000	.0631	.0884	.0690	.0072	-.2988	
.040			-.2225	.0773						
.041	-.1779									
.050					-.0879	.1056	.1250	-.1570		
.069									-.3294	
.080					-.2120					
.081				-.1362						
.086			-.1735							
.094		-.2707								
.113	-.2007									
.150					-.3557	-.3954	-.3648	-.3478		
.157									-.4676	
.163			.0000							
.177				-.2178						
.229		-.1135								
.246			-.1271							
.247	-.2035									
.250					-.4127	-.4983	-.4977	-.4834		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU53)

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

ALPHA (3) = 3.949 BETA (3) = 4.232

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				-.2855					-.5344	
.345										
.362		-.0034								
.390			-.2298		-.4660	-.5718		-.6177		
.400										
.402				-.3973						-.5853
.418										
.429	-.0472									
.497		-.1940							-.5965	
.503										
.547	-.0823				-.4591	-.5647				
.550										
.565				-.3224				-.5701		
.600										
.633	-.2736									
.637			-.2133				-.5202			
.650									-.6292	
.670						-.2445				
.700		-.2925								-.7125
.723					-.1767					
.725										
.727	-.2870						-.3897	-.3225		
.750				-.1573						
.760					-.0515	-.1807				
.775										
.793	.1436									
.798			-.0995							
.808				.0877						
.834		-.0586								
.839			.1140							
.850					.0730	.1739	.2591			
.857				.0799					-.8115	
.862										
.865		.0444								
.879			.0787					-.2183		
.900		.0323			.0778					
.905				.0546						
.919			.0364							
.950					.0906	.0346	-.1603			
.953				.0390						
.955			.0466							
.965		.0534								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (4) = 7.975 BETA (1) = -3.876 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L † 3.0143

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0515	-.1133	-.3363	.2224	.6436	.6626	.6633	.6134	-.0807	
.010		-.2070	-.3582		.0437	.1979	.1505	.0094		
.020		-.1885		.0000	-.0671	.0221	.0160	-.0663	-.3844	
.040			-.2647	-.2399						
.041	-.0657									
.050					-.2423	-.1962	-.2003	-.2477		
.069									-.4019	
.080					-.3779					
.081				-.3623						
.086			-.1881							
.094		-.1784								
.113	-.0697									
.150					-.5474	-.4938	-.4589	-.4362		
.157									-.5381	
.163			.0000							
.177				-.4757						
.229		-.1689								
.246			-.3111							
.247	-.1023									
.250					-.6242	-.6073	-.5831	-.5511		
.274				-.4370						
.345									-.5270	
.362		-.1351								
.390			-.3477							
.400					-.6512	-.6671		-.5376		
.402				-.4981						
.418										-.5428
.429	-.1498									
.497		-.2843								
.503									-.5104	
.547	-.1579									
.550					-.5391	-.5692				
.565				-.4672						
.600								-.4905		
.633	-.3328									
.637			-.4412							
.650							-.5040			
.670									-.4539	
.700		-.4184				-.5131				
.723										-.4466
.725					-.3165					
.727	-.3584									
.750							-.4693	-.4295		
.760				-.1932						
.775					-.3094	-.4048				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU53)

ALPHA (4) = 7.975 BETA (1) = -3.876

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.00^0
X/CW										
.793	-.1989									
.798			-.1641							
.808				-.0481						
.934		-.0391								
.839			.1217							
.850					-.1301	-.4294	-.4279			
.857				.0308						
.862									-.4340	
.865		.1192								
.879			.1484							
.900		.2180			-.1038			-.3886		
.905				.0638						
.919			.1595							
.950					-.0248	-.3014	-.3336			
.953				.1085						
.955			.1749							
.965		.1895								

ALPHA (4) = 7.918 BETA (2) = .169 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0021	-.3155	-.5466	-.0080	.5024	.5530	.5452	.4966	-.2613	
.010		-.3913	-.5095		-.0929	.0713	.0304	-.1089		
.020		-.3684		.0000	-.1956	-.0796	-.0867	-.1686	-.5075	
.040			-.4045	-.3640						
.041	-.1226									
.060					-.3195	-.2697	-.2796	-.3269		
.069									-.5037	
.080					-.4148					
.081				-.3078						
.096			-.2980							
.094		-.2473								
.113	-.1472									
.150					-.5483	-.5286	-.4967	-.4832		
.157									-.5307	
.163			.0000							
.177				-.3681						
.229		-.2329								
.245			-.2666							
.247	-.1632									
.250					-.5974	-.6217	-.6029	-.5781		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (4) = 7.918 BETA (2) = .169

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				-.3923						
.345									-.5709	
.362		-.1091								
.390			-.3359							
.400					-.5705	-.6778		-.5623		
.402				-.4576						
.418										-.5597
.429	-.1474									
.497		-.2768								
.503									-.5522	
.547	-.1472									
.550					-.5351	-.6009				
.565				-.4605						
.600								-.5198		
.633	-.3316									
.637			-.4597							
.650							-.5250			
.670									-.4997	
.700		-.4029				-.4933				
.723										-.4704
.725					-.1968					
.727	-.3526									
.750							-.4825	-.4301		
.760				-.1790						
.775					-.1864	-.3595				
.793	-.0206									
.798			-.1698							
.808				-.0106						
.834		-.0610								
.839			.0737							
.850					-.1109	-.3640	-.4381			
.857				.0170						
.862									-.4716	
.865		.0224								
.879			.1265							
.900		.1164			-.0821			-.3866		
.905				.0165						
.919			.1114							
.950					-.0254	-.2021	-.3697			
.953				.0167						
.955			.1027							
.965		.0958								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (α) = 7.882 BETA (β) = 4.233 MACH = 1.2465 Q = 599.81 P = 551.57 RN/L = 3.0143

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0543	-.5295	-.5046	-.1777	.3663	.4231	.4182	.3591	-.4608	
.010		-.4745	-.4909		.2075	-.0575	-.1111	-.2421		
.020		-.4681		.0000	-.2878	-.1890	-.2088	-.2939	-.5811	
.040			-.4616	-.2207						
.041	-.1691									
.050					-.3873	-.3539	-.3662	-.4272		
.069									-.5749	
.080					-.4600					
.081				-.2637						
.086			-.4047							
.094		-.4908								
.113	-.2059									
.150					-.5639	-.5644	-.5454	-.5423		
.157									-.5766	
.163			.0000							
.177				-.2977						
.229		-.2503								
.246			-.3625							
.247	-.2253									
.250					-.4919	-.6381	-.6369	-.6215		
.274				-.3512						
.345									-.6057	
.362		-.0250								
.390			-.2577							
.400					-.5072	-.6727		-.6163		
.402				-.4554						
.418										-.5969
.433	-.1341									
.437		-.2364								
.503									-.6057	
.547	-.1285									
.550					-.5134	-.6012				
.565				-.4749						
.600								-.5614		
.633	-.3467									
.637			-.4158							
.650							-.5754			
.670									-.5648	
.700		-.3826				-.4470				
.723										-.5244
.725					-.2054					
.727	-.3572									
.750							-.5118	-.4445		
.760				-.1832						
.775					-.1117	-.2666				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (4) = 7.882 BETA (3) = 4.233

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	.0512									
.798			-.1599							
.808				-.0243						
.834		-.1235								
.839			.0243							
.850					.0018	-.2025	-.4445			
.857				-.0204						
.862									-.5393	
.865		-.0482								
.879			.0361							
.900		-.0052			-.0187			-.3913		
.905				-.0068						
.919			.0090							
.950					-.0121	-.0842	-.3712			
.953				.0075						
.955			.0130							
.955		-.0064								

ALPHA (3) = 11.916 BETA (1) = -3.857 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0525	-.3125	-.4823	.0107	.5168	.5538	.5455	.4520	-.3564	
.010		-.3842	-.4492		-.1796	-.0353	-.1191	-.2748		
.020		-.3693		.0000	-.2941	-.1917	-.2393	-.3396	-.5540	
.040			-.3689	-.4475						
.041	-.0575									
.050					-.4409	-.3816	-.4045	-.4706		
.069									-.5428	
.080					-.5412					
.081				-.5071						
.086			-.2901							
.094		-.2489								
.113	-.0748									
.150					-.6726	-.6244	-.5953	-.5673		
.157									-.5365	
.163			.0000							
.177				-.5919						
.223		-.2224								
.245			-.3704							
.247	-.1043									
.250					-.6679	-.6043	-.5548	-.5493		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (5) = 11.916 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				-.5695						
.345									-.5407	
.362		-.1927								
.390			-.4668							
.400					-.6414	-.6021		-.5829		
.402				-.5768						
.418										-.5357
.429	-.1843									
.497		-.4466								
.503									-.5317	
.547	-.2793									
.550					-.6019	-.5702				
.565				-.5456						
.600								-.5375		
.633	-.4598									
.637			-.5077							
.650							-.5319			
.670									-.4988	
.700		-.5028				-.5439				
.723										-.4835
.725					-.5397					
.727	-.4417									
.750							-.4885	-.5264		
.760				-.3095						
.775					-.5208	-.5328				
.793	-.1768									
.798			-.2656							
.808				-.3055						
.834		-.0482								
.839			-.0255							
.850					-.4620	-.4488	-.4715			
.857				-.2122						
.862									-.4884	
.865		.0411								
.879			-.0936							
.900		.1251			-.4114			-.5013		
.905				-.1487						
.919			-.1179							
.950					-.3511	-.3550	-.4004			
.953				-.0754						
.955			-.0966							
.965		.0504								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XERU53)

ALPHA (5) = 11.930 BETA (2) = .181 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

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	-.0241	-.4710	-.4640	-.1972	.3372	.3902	.3700	.2765	-.5170	
.010		-.4118	-.4572		-.3327	-.1910	-.2715	-.4223		
.020		-.3967		.0000	-.4316	-.3341	-.3802	-.4641	-.6104	
.040			-.4379	-.4842						
.041	-.1321									
.050					-.5519	-.4906	-.5182	-.5739		
.069									-.5656	
.080					-.6322					
.081				-.5042						
.086			-.4124							
.094		-.4554								
.113	-.1752									
.150					-.7330	-.6858	-.6479	-.6281		
.157									-.5594	
.163			.0000							
.177				-.4849						
.229		-.5212								
.246			-.4527							
.247	-.1630									
.250					-.7118	-.6732	-.6057	-.6262		
.274				-.5075						
.345									-.5552	
.362		-.3630								
.390			-.4373							
.400					-.6817	-.6678		-.6012		
.402				-.5146						
.418										-.5508
.479	-.2507									
.497		-.4075								
.503									-.5491	
.547	-.2474									
.550					-.6346	-.6232				
.555				-.5101						
.600								-.5654		
.633	-.4427									
.637			-.5426							
.650							-.5637			
.670									-.5366	
.700		-.4729				-.5788				
.723										-.5211
.725					-.4419					
.727	-.4259									
.750							-.5179	-.5461		
.760				-.1903						
.775					-.3567	-.5604				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8053)

ALPHA (5) = 11.930 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										
.793	-.1337									
.798			-.2432							
.808				-.1304						
.834		-.1276								
.839			.0027							
.850					-.2736	-.4726	-.4734			
.857				-.1919						
.862									-.5309	
.865		-.0470								
.879			.0868							
.900		.0863			-.2389			-.5308		
.905				-.2527						
.919			-.0164							
.950					-.1549	-.3735	-.4254			
.953				-.2433						
.955			-.0560							
.965		.0309								

ALPHA (5) = 11.925 BETA (3) = 4.245 MACH = 1.2482 Q = 600.48 P = 550.64 PN/L = 3.0151

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0910	-.5045	-.5112	-.4213	.1595	.2053	.1956	.1024	-.6262	
.010		-.4905	-.5100		-.4781	-.3420	-.4030	-.5294		
.020		-.4855		.0000	-.5535	-.4732	-.5012	-.5754	-.5892	
.040			-.5183	-.4296						
.041	-.1986									
.050					-.6467	-.5913	-.6067	-.6573		
.069									-.5800	
.080					-.6669					
.081				-.4209						
.098			-.4876							
.094		-.5592								
.113	-.2241									
.150					-.6686	-.6956	-.6539	-.6632		
.157									-.5705	
.163			.0000							
.177				-.4433						
.229		-.6583								
.245			-.4806							
.247	-.2543									
.250					-.6314	-.6767	-.6475	-.6592		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U53)

ALPHA (5) = 11.925 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				-.4572					-.5637	
.345										
.362		-.3534								
.390			-.5423							
.400					-.6260	-.6378		-.5919		
.402				-.5159						-.5634
.418										
.423	-.2838									
.497		-.3641							-.5670	
.503										
.547	-.2154									
.550					-.5499	-.6151				
.565				-.5293						
.600								-.5754		
.633	-.4107									
.637			-.5055							
.650							-.6008			
.670									-.5566	
.700		-.4037				-.5606				
.723										-.5341
.725					-.1850					
.727	-.4041									
.750							-.5670	-.5617		
.760				-.2329						
.775					-.1500	-.4680				
.793	-.0224									
.798			-.2047							
.808				-.1987						
.834		-.2015								
.843			-.0312							
.850					-.1570	-.4662	-.5350			
.857				-.1171						
.862									-.5441	
.866		-.0960								
.879			-.0388							
.900		-.0340			-.2340			-.5438		
.905				-.0447						
.919			.0201							
.950					-.2945	-.1707	-.4527			
.953				-.0996						
.955			.0296							
.955		.0175								

DATE 11 FEB 7[illegible] TABULATED PRESSURE [illegible] - OA143 (AMES 11-073-1) PAGE [illegible]

AME[illegible] 0[illegible] .148) -140A/B/C/R ORB LEFT WING TOP (XE8U54) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 10[illegible]
LREF = 474.8000 IN. YMRP = [illegible]
BREF = 936.0680 IN. ZMRP = 3[illegible]0
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = -4.000
R-ELVN = 4.000 MACH = 1.100

ALPHA (1) = -3.970 BETA (1) = [illegible]H = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837

SECTION (1)LEFT WING TOP SURF [illegible]NT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2868	-.1163	-.1579	.2596	.5912	.5196	.4715	.4896	-.6258	
.010		-.0547	-.0456		.7179	.6874	.6453	.5668		
.020		-.0490		.0000	.6424	.5929	.5641	.5227	-.1353	
.040			.0462	.4665						
.041	-.1482									
.050					.4325	.3831	.3645	.3360		
.069									-.1990	
.080					.2476					
.081				.3587						
.086			.2524							
.094		-.0165								
.113	-.1140									
.150					.0263	.0023	.0150	-.0047		
.157									-.3555	
.163			.0000							
.177				.0768						
.229		.0302								
.246			.1778							
.247	.0051									
.250					-.1416	-.2040	-.2231	-.2608		
.274				-.0262						
.345									-.3697	
.362		.2094								
.390			-.0088							
.400					-.0567	-.2928		-.4693		
.402				-.1340						
.418										-.7037
.429	.1221									
.497		.0159								
.503									-.3822	
.547	.1360									
.550					.0912	-.0485				
.565				.1886						
.600								-.2322		
.633	-.0093									
.637			.2336							
.650							-.1655			
.670									.0699	

C-9

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (1) = -3.970 BETA (1) = -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										
.700		.2573				-.0445				
.723										-.6742
.725					-.0025					
.727	.2262									
.750							.3938	.3152		
.760				-.0569						
.775					.4231	.3007				
.793	.3578									
.798			-.0381							
.808				.4099						
.834		.0076								
.839			.3862							
.850					.3334	.2922	.3414			
.857				.3171						
.862									.1976	
.865		.3448								
.879			.2989							
.900		.2415			.2855			.3050		
.905				.2806						
.919			.2676							
.950					.2591	.3123	.3041			
.953				.2485						
.955			.2463							
.965		.2709								

ALPHA (1) = -3.931 BETA (2) = .182 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2717	-.1144	-.0998	.2812	.5383	.4447	.3913	.4045	-.6951	
.010		-.0873	-.0266		.6489	.6139	.5859	.5297		
.020		-.0809		.0000	.5800	.5335	.5233	.4884	-.2055	
.040			.0379	.4169						
.041	-.2405									
.050					.3911	.3551	.3443	.3302		
.069									-.2490	
.090					.2232					
.081				.3237						
.086			.2164							
.094		-.0434								
.113	-.1838									
.150					.0348	.0293	.0358	.0107		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (1) = -3.931 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										
.157									-.3595	
.163			.0000							
.177				.0925						
.229		.0166								
.246			.1634							
.247	-.0184									
.250					-.1208	-.1675	-.1713	-.2287		
.274				-.0137						
.345									-.2863	
.362		.1918								
.390			.0077							
.400					.0442	-.0357		-.2957		
.402				-.0744						
.418										-.7817
.429	.0947									
.497		.0312								
.503									-.2884	
.547	.1275									
.550					.0721	-.0617				
.565				.1680						
.600								-.3041		
.633	.0340									
.637			.2134							
.650							-.1864			
.670									.0105	
.700		.2416				-.0787				
.723										-.7664
.725					-.0251					
.727	.2178									
.750							.1955	.1675		
.760				-.0845						
.775					.3017	.1477				
.793	.3325									
.798			-.0763							
.808				.2905						
.834		-.0368								
.839			.2793							
.850					.2244	.1602	.2555			
.857				.1960						
.862									.1260	
.865		.2362								
.879			.1835							
.900		.1245			.1949			.2488		
.905				.1840						
.919			.1712							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING T... (XEBU54)

ALPHA (1) = -3.931 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										
.950					.2029	.2571	.2562			
.953				.1806						
.955			.1736							
.965		.1981								

ALPHA (1) = -3.991 BETA (3) = 4.263 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2703	-.1422	-.0413	.3266	.5015	.3818	.3074	.3068	-.7703	
.010		-.0979	.0080		.6006	.5515	.5097	.4510		
.020		-.0830		.0000	.5369	.4775	.4522	.4163	-.3008	
.040			.0739	.3905						
.041	-.2981									
.050					.36..	.3174	.2961	.2764		
.069									-.3157	
.080					.2232					
.081				.3131						
.086			.2498							
.094		-.0622								
.113	-.2380									
.150					.0412	.0176	.0190	-.0050		
.157									-.3717	
.163			.0000							
.177				.1286						
.[illegible]		.0222								
.246			.1777							
.247	-.0290									
.250					-.0819	-.1580	-.1726	-.1889		
.274				.0201						
.345									-.3216	
.362		.2030								
.[illegible]			.0212							
.400					.0365	-.0377		-.2987		
.402				-.0363						
.418										-.4101
.429	.1399									
.497		.0602								
.503									-.2775	
.547	.1474									
.550					.0511	-.0696				
.565				.1482						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (1) = -3.991 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										
.600								-.3192		
.633	.0545									
.637			.1865							
.650							-.2045			
.670									-.0083	
.700		.2171				-.1086				
.723										-.4986
.725					-.0552					
.727	.1883									
.750							.0754	.0693		
.760				-.1005						
.775					.2175	.0627				
.793	.3063									
.798			-.0963							
.808				.1996						
.834		-.0620								
.839			.1933							
.850					.1131	-.0042	.1543			
.857				.1080						
.862									.0964	
.865		.1350								
.879			.0989							
.900		.0513			.0466			.1907		
.905				.0504						
.919			.0462							
.950					.1100	.1792	.2018			
.953				.0785						
.955			.0839							
.965		.1198								

ALPHA (2) = .009 BETA (1) = -3.870 MACH = 1.1014 Q = 600.89 P = 707.89 RN/L = 3.1864

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1504	-.0464	-.0075	.4508	.6719	.6092	.5727	.5802	-.3881	
.010		-.0650	.0246		.5640	.5775	.5305	.4113		
.020		-.0990		.0000	.4576	.4245	.3971	.3535	-.1557	
.040			.0541	.2921						
.041	-.1533									
.050					.2206	.1671	.1408	.1223		
.069									-.2366	
.080					.0200					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U54)

ALPHA (2) = .009 BETA (1) = -3.870

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.081				.1478						
.086			.1423							
.094		-.0985								
.113	-.1169									
.150					-.2162	-.2492	-.2222	-.2109		
.157									-.4454	
.163			.0000							
.177				-.0719						
.229		-.0181								
.246			.0146							
.247	-.0853									
.250					-.3342	-.3991	-.4184	-.4292		
.274				-.2148						
.345									-.4864	
.362		.1143								
.390			-.1811							
.400					-.4565	-.5500		-.6410		
.402				-.3879						
.418										-.1588
.429	.0616									
.497		-.0992								
.503									-.5345	
.547	.0278									
.550					-.0860	-.4834				
.565				.0294						
.600								-.3019		
.633	-.2050									
.637			.1078							
.650							-.3214			
.670									-.2555	
.700		.1077				-.0199				
.723										-.3097
.725					.0054					
.727	.0038									
.750							-.0693	-.1654		
.760				-.0366						
.775					.3551	.2056				
.793	.2744									
.798			.0066							
.808				.3463						
.834		-.0011								
.839			.3287							
.860					.3052	.2013	.3126			
.857				.2841						
.862									-.1444	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (2) = .009 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										
.865		.2801								
.879			.2674							
.900		.2145			.2586			-.0967		
.905				.2448						
.919			.2431							
.950					.2289	.2797	.3175			
.953				.2228						
.955			.2229							
.965		.2426								

ALPHA (2) = .092 BETA (2) = .176 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION (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	-.1244	-.0363	.4162	.6122	.5355	.4928	.5101	-.2171	
.010		-.1690	-.0146		.4801	.4910	.4447	.3516		
.020		-.1915		.0000	.3776	.3488	.3278	.2954	-.1552	
.040			.0265	.2314						
.041	-.2271									
.050					.1583	.1062	.0891	.0836		
.069									-.2275	
.080					-.0157					
.091				.1016						
.096			.1173							
.099		-.1154								
.113	-.1872									
.150					-.2307	-.2639	-.2322	-.2214		
.157									-.4379	
.163			.0000							
.177				-.0976						
.229		-.0308								
.246			-.0112							
.247	-.1020									
.250					-.3290	-.3654	-.4147	-.4318		
.274				-.2152						
.345									-.4476	
.362		.0922								
.390			-.1808							
.400					-.4328	-.5202		-.6130		
.402				-.3694						
.418										-.1730
.429	.0503									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (2) = .092 BETA (2) = .176

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		-.1110								
.503									-.5080	
.547	.0043									
.550					-.0027	-.1401				
.565				.0919						
.600								-.2514		
.633	-.2035									
.637			.1221							
.650							-.1338			
.670									-.2176	
.700		.1186				-.0664				
.723										-.3316
.725					-.0437					
.727	.0743									
.750							.2681	-.0060		
.760				-.1028						
.775					.2783	.1634				
.793	.2571									
.798			-.0769							
.808				.2701						
.834		-.0577								
.839			.2499							
.850					.2335	.2002	.2662			
.857				.2001						
.862									-.1163	
.865		.1972								
.879			.1853							
.900		.1233			.1946			.1485		
.905				.1768						
.919			.1641							
.950					.1904	.2444	.2500			
.953				.1683						
.955			.1554							
.965		.1727								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (2) = .026 BETA (3) = 4.243 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1895	-.2431	-.0625	.4083	.5844	.4869	.4330	.4299	-.1854	
.010		-.2813	-.0321		.4215	.4089	.3600	.2500		
.020		-.2822		.0000	.3244	.2763	.2438	.1947	-.2216	
.040			.0319	.2179						
.041	-.2876									
.050					.1382	.0545	.0265	-.0039		
.069									-.2738	
.080					-.0331					
.081				.1065						
.086			.1255							
.094		-.1198								
.113	-.2501									
.150					-.2064	-.2642	-.2629	-.2687		
.157									-.4699	
.163			.0000							
.177				-.0698						
.229		-.0113								
.246			.0183							
.247	-.0955									
.250					-.3049	-.3689	-.3886	-.4624		
.274				-.1843						
.345									-.4779	
.362		.1190								
.390			-.1560							
.400					-.3957	-.5003		-.6168		
.402				-.3195						
.418										-.2871
.429	.0628									
.497		-.0830								
.503									-.5216	
.547	.0343									
.550					-.0079	-.1141				
.565				.0739						
.600								-.3417		
.633	-.1687									
.637			.1058							
.650							-.1906			
.670									-.2216	
.700		.1214				-.1164				
.723										-.2815
.725					-.0746					
.727	.0861									
.750							.2145	.1716		
.760				-.1357						
.775					.1788	.0422				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (2) = .026 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	.2283									
.798			-.1418							
.808				.1605						
.834		-.1024								
.839			.1440							
.850					.1040	.0654	.2251			
.857				.0822						
.862									.0361	
.865		.0976								
.879			.0636							
.900		.0178			.0725			.2519		
.905				.0376						
.919			.0315							
.950					.1052	.1869	.2139			
.953				.0600						
.955			.0511							
.965		.0685								

ALPHA (3) = 3.932 BETA (1) = -3.873 MACH = 1.1009 Q = 600.53 P = 707.91 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	-.0723	-.0725	-.1270	.4676	.7113	.6845	.6683	.6314	.0050	
.010		-.1475	-.1055		.3304	.3985	.3380	.1538		
.020		-.1692		.0000	.2046	.2138	.1736	.0873	-.2506	
.040			-.0550	.0573						
.041	-.1426									
.050					-.0352	-.0569	-.0903	-.1496		
.069									-.3170	
.080					-.2136					
.081				-.1010						
.086			.0014							
.094		-.2209								
.113	-.1180									
.150					-.3861	-.4472	-.4033	-.3974		
.157									-.5433	
.163			.0000							
.177				-.2561						
.229		-.0774								
.245			-.1430							
.247	-.1676									
.250					-.5003	-.5761	-.5864	-.5741		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (3) = 3.932 BETA (1) = -3.873

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				-.3618						
.345									-.6384	
.362		.0416								
.390			-.3011							
.400					-.5815	-.7176		-.5930		
.402				-.4968						
.418										-.4264
.429	.0056									
.497		-.1978								
.503									-.6065	
.547	-.0706									
.550					-.2672	-.5425				
.555				-.1940						
.630								-.4339		
.633	-.3108									
.637			-.1190							
.650							-.4755			
.670									-.5516	
.700		-.1511				-.3284				
.723										-.6481
.725					-.0319					
.727	-.3050									
.750							-.3894	-.3322		
.760				.0738						
.775					.0892	-.0751				
.793	.1908									
.798			.0300							
.808				.3091						
.834		-.0026								
.849			.3232							
.850					.2251	.0335	-.2733			
.857				.2657						
.862									-.4885	
.865		.3003								
.879			.2626							
.900		.2042			.2133			-.2144		
.905				.2272						
.919			.2168							
.950					.2008	.1638	-.1570			
.953				.1920						
.955			.2024							
.965		.2362								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (3) = 3.933 BETA (2) = .171 MACH = 1.1009 Q = 600.53 P = 707.91 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	-.1157	-.2295	-.2429	.3869	.6317	.6052	.5928	.5543	-.0810	
.010		-.2997	-.1903		.2297	.2956	.2340	.0632		
.020		-.2947		.0000	.1189	.1222	.0843	-.0022	-.3275	
.040			-.1075	.0072						
.041	-.2189									
.050					-.0899	-.1223	-.1553	-.2061		
.069									-.3754	
.080					-.2506					
.081				-.1200						
.086			-.0220							
.094		-.2907								
.113	-.2009									
.150					-.3953	-.4620	-.4335	-.4265		
.157									-.5750	
.163			.0000							
.177				-.2536						
.229		-.0857								
.246			-.1457							
.247	-.2203									
.250					-.4898	-.5735	-.5945	-.5860		
.274				-.3529						
.345									-.6588	
.362		.0336								
.390			-.2948							
.400					-.5525	-.6845		-.6408		
.402				-.4831						
.418										-.5868
.429	.0028									
.497		-.2069								
.503									-.6444	
.547	-.0888									
.550					-.2296	-.6280				
.565				-.1622						
.600								-.4459		
.633	-.3150									
.637			-.0886							
.650							-.4885			
.670									-.5613	
.700		-.0918				-.1173				
.723										-.5243
.725					-.0437					
.727	-.2561									
.750							-.3671	-.2960		
.760				-.0235						
.775					.1694	.0358				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (3) = 3.933 BETA (2) = .171

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	.2192									
.798			-.0686							
.808				.2330						
.834		-.0581								
.839			.2327							
.850					.2123	.1052	-.2014			
.857				.1935						
.862									-.4349	
.865		.2178								
.879			.1704							
.900		.1181			.1802			-.2224		
.905				.1632						
.919			.1426							
.950					.1571	.1451	.0165			
.953				.1401						
.956			.1350							
.965		.1614								

ALPHA (3) = 3.943 BETA (3) = 4.232 MACH = 1.1009 Q = 600.53 P = 707.91 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	-.1570	-.4348	-.3171	.2817	.5524	.5281	.4942	.4378	-.2799	
.010		-.4795	-.1778		.1218	.1815	.1023	-.0738		
.020		-.4402		.0000	.0388	.0239	-.0305	-.1456	-.4791	
.040			-.1051	-.0276						
.041	-.2812									
.050					-.1254	-.1891	-.2425	-.3136		
.069									-.3904	
.080					-.2702					
.081				-.1277						
.086			-.0229							
.094		-.3167								
.113	-.2798									
.150					-.3997	-.4908	-.4893	-.5008		
.157									-.4743	
.163			.0000							
.177				-.2396						
.229		-.0783								
.245			-.1367							
.247	-.2448									
.250					-.4566	-.5964	.6186	-.6355		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (3) = 3.943 BETA (3) = 4.232

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				-.3128						
.345									-.6863	
.362		.0336								
.390			T.2592							
.400					-.5354	-.6480		-.6768		
.402				-.4361						
.418										-.7690
.429	.0225									
.497		-.1735								
.503									-.6390	
.547	-.0668									
.550					-.2313	-.6031				
.565				-.1658						
.600								-.5098		
.633	-.2852									
.637			-.0525							
.650							-.4919			
.670									-.5611	
.700		-.0339				-.1785				
.723										-.5388
.725					-.1249					
.727	-.1709									
.750							-.3078	-.3779		
.760				-.1598						
.775					.1199	-.0201				
.793	.1777									
.798			-.1313							
.808				.0954						
.834		-.1043								
.839			.1037							
.850					.1020	.0260	.0312			
.857				.0485						
.862									-.3611	
.865		.0738								
.875			.0395							
.900		-.0084			.0626			-.3002		
.905				.0114						
.919			.0039							
.950					.0838	.1397	.2377			
.953				.0220						
.955			.0188							
.965		.0293								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U54)

ALPHA (4) = 7.906 BETA (1) = -3.871 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9730	1.0000
X/CW										
.000	-.0332	-.2229	-.5092	.2437	.6218	.6255	.5958	.5001	-.2717	
.010		-.3166	-.5135		-.0307	.0857	-.0122	-.2114		
.020		-.2980		.0000	-.1222	-.0968	-.1476	-.2922	-.6321	
.040			-.3757	-.1974						
.041	-.1540									
.050					-.2978	-.3162	-.3747	-.4670		
.069									-.5716	
.080					-.4494					
.081				-.3147						
.086			-.2729							
.094		-.2765								
.113	-.1260									
.150					-.6507	-.6436	-.6356	-.6153		
.157									-.5437	
.163			.0000							
.177				-.4298						
.229		-.2416								
.246			-.2307							
.247	-.1847									
.250					-.6722	-.7568	-.6550	-.5711		
.274				-.4763						
.345									-.4811	
.362		-.0172								
.390			-.3764							
.400					-.7019	-.6985		-.5334		
.402				-.5801						
.418										-.4739
.429	-.0899									
.497		-.2862								
.503									-.4598	
.547	-.1069									
.550					-.5119	-.6280				
.565				-.3760						
.600								-.4591		
.633	-.3933									
.637			-.3420							
.650							-.4872			
.670									-.3889	
.700		-.5080				-.5303				
.723										-.3559
.725					-.2309					
.727	-.4360									
.750							-.4527	-.4077		
.760				-.0583						
.775					-.1635	-.3946				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (4) = 7.906 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										
.793	.1234									
.798			-.0602							
.808				.1816						
.834		.0333								
.839			.2057							
.850					.0235	-.3677	-.4125			
.857				.1829						
.862									-.3428	
.865		.3030								
.879			.1779							
.900		.1777			.0841			-.3673		
.905				.1854						
.919			.1786							
.950					.1298	-.1942	-.3721			
.953				.1533						
.955			.1894							
.965		.2103								

ALPHA (4) = 8.006 BETA (2) = .170 MACH = 1.1009 Q = 600.53 P = 707.91. RN/L = 3.1862

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0960	-.4537	-.6863	.0512	.4961	.5036	.4741	.3832	-.4691	
.010		-.5193	-.5876		-.1466	-.0404	-.1428	-.3317		
.020		-.4851		.0000	-.2291	-.2007	-.2595	-.3937	-.6030	
.040			-.4658	-.2337						
.041	-.2149									
.050					-.3559	-.3958	-.4566	-.5550		
.069									-.5659	
.080					-.4870					
.081				-.3038						
.086			-.3577							
.094		-.3613								
.113	-.2165									
.150					-.6567	-.6736	-.6753	-.6545		
.157									-.5469	
.163			.0000							
.177				-.3782						
.229		-.2245								
.245			-.2718							
.247	-.2564									
.250					-.6593	-.7840	-.6909	-.6200		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (4) = 8.006 BETA (2) = .170

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				-.4438						
.345									-.5289	
.362		.0107								
.390			-.3960							
.400					-.6628	-.7615		-.5808		
.402				-.5548						
.418										-.5331
.429	-.0604									
.497		-.2971								
.503									-.5064	
.547	-.1157									
.550					-.3892	-.6608				
.565				-.4549						
.600								-.4936		
.633	-.4010									
.637			-.3469							
.650							-.5522			
.670									-.4504	
.700		-.4322				-.5327				
.723										-.4157
.725					-.1521					
.727	-.4256									
.750							-.5007	-.4441		
.760				-.0635						
.775					-.0733	-.3260				
.793	.1104									
.798			-.1313							
.808				.1360						
.834		-.0523								
.839			.1785							
.850					.0313	-.2251	-.4740			
.857				.0968						
.862									-.3954	
.865		.1997								
.879			.1330							
.900		.1144			.0565			-.4112		
.905				.0782						
.919			.1195							
.950					.1192	.0192	-.4144			
.953				.0689						
.965			.1261							
.985		.1501								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 4613

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (4) = 8.008 BETA (3) = 4.224 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1589	-.6788	-.4567	-.0316	.3707	.3757	.3347	.2251	-.6768	
.010		-.6001	-.4170		-.2607	-.1778	-.2975	-.4768		
.020		-.5769		.0000	-.3411	-.3137	-.3949	-.5323	-.6884	
.040			-.3856	-.1214						
.041	-.2804									
.050					-.4092	-.4803	-.5432	-.6572		
.069									-.6286	
.080					-.5025					
.081				-.1875						
.086			-.2740							
.094		-.6448								
.113	-.3066									
.150					-.5915	-.7050	-.7255	-.7567		
.157									-.6173	
.163			.0000							
.177				-.2908						
.229		-.1625								
.246			-.2401							
.247	-.3175									
.250					-.5964	-.7941	-.7477	-.7394		
.274				-.3895						
.345									-.6168	
.362		.0798								
.390			-.3329							
.400					-.5915	-.7792		-.7543		
.402				-.5157						
.418										-.6148
.429	-.0219									
.497		-.2582								
.503									-.6147	
.547	-.1020									
.550					-.4426	-.6519				
.565				-.3130						
.600								-.6271		
.633	-.3813									
.637			-.1915							
.650							-.6332			
.670									-.5788	
.700		-.2898				-.4638				
.723										-.5369
.725					-.1330					
.727	-.3757									
.750							-.5354	-.5512		
.760				-.1955						
.775					.0703	-.1747				

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU54)

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

ALPHA (4) = 8.008 BETA (3) = 4.224

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	.1062									
.798			-.1514							
.808				.0308						
.834		-.1440								
.839			.0715							
.850					.0258	-.1220	-.5037			
.857				-.0364					-.5105	
.862										
.865		.0185								
.879			.0210							
.900		-.0013			-.0294			-.4754		
.905				-.0435						
.919			-.0189							
.950					-.0081	-.0086	-.4032			
.953				-.0376						
.955			-.0132							
.965		.0047								

ALPHA (5) = 11.922 BETA (1) = -3.854 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0456	-.4484	-.6448	-.1497	.3780	.4046	.3734	.2618	-.5923	
.010		-.5187	-.5957		-.4313	-.2886	-.3935	-.5632		
.020		-.5019		.0000	-.5471	-.4545	-.5192	-.6231	-.6131	
.040			-.5006	-.6078						
.041	-.1492				-.6789	-.6289	-.6742	-.7531		
.050									-.5453	
.069					-.7805					
.080				-.6939						
.081			-.4102							
.086										
.094		-.3545								
.113	-.1388				-.7961	-.7266	-.7075	-.7465		
.150									-.5290	
.157										
.163			.0000							
.177				-.6439						
.229		-.3037								
.245			-.3810							
.247	-.1858				-.7918	-.7309	-.7118	-.7482		
.250										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (5) = 11.922 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				-.4568						
.345									-.5301	
.362		-.2308								
.390			-.4348							
.400					-.6980	-.6840		-.5692		
.402				-.5795						
.418										-.5284
.429	-.2627									
.497		-.3861								
.503									-.5275	
.547	-.1676									
.550					-.6617	-.6660				
.565				-.4441						
.600								-.5539		
.633	-.4415									
.637			-.3777							
.650							-.5762			
.670									-.4909	
.700		-.5635				-.6234				
.723										-.4747
.725					-.4650					
.727	-.5011									
.750							-.5432	-.5353		
.760				-.2917						
.775					-.4539	-.5650				
.793	.0514									
.798			-.2588							
.808				-.1916						
.834		-.0940								
.839			-.0461							
.850					-.3202	-.5042	-.5136			
.857				-.2136						
.862									-.4462	
.865		.0549								
.879			-.0626							
.900		.0467			-.2634			-.5238		
.905				-.1674						
.919			-.0042							
.950					-.1698	-.3598	-.4739			
.953				-.1289						
.955			.0791							
.965		.0792								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U54)

ALPHA (5) = 11.941 BETA (2) = .179 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3...2

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1287	-.6297	-.6109	-.3808	.1998	.2491	.2260	.1135	-.7028	
.010		-.5443	-.5936		-.5760	-.4118	-.5002	-.6721		
.020		-.5202		.0000	-.6608	-.5693	-.6290	-.7219	-.6121	
.040			-.5788	-.3487						
.041	-.2348									
.050					-.7317	-.7022	-.7528	-.8240		
.069									-.5951	
.080					-.7117					
.081				-.3465						
.086			-.5371							
.094		-.5996								
.113	-.2575									
.150					-.7126	- /934	-.7709	-.8254		
.157									-.5809	
.163			.0000							
.177				-.3617						
.229		-.6789								
.246			-.4098							
.247	-.2570									
.250					-.6917	-.7901	-.7821	-.6768		
.274				-.5006						
.345									-.5781	
.362		-.1681								
.390			-.5828							
.400					-.6999	-.7310		-.6012		
.402				-.6185						
.418										-.5691
.429	-.2442									
.497		-.3344								
.503									-.5727	
.547	-.0902									
.550					-.6116	-.6958				
.565				-.5512						
.600								-.5901		
.633	-.5018									
.637			-.6064							
.650							-.6396			
.670									-.5450	
.700		-.5306				-.6397				
.723										-.5193
.725					-.3325					
.727	-.5240									
.750							-.6157	-.5790		
.760				-.2551						
.775					-.2668	-.5416				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (5) = 11.941 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										
.793	-.0395									
.798			-.1705							
.808				-.1816						
.834		-.1253								
.839			.0556							
.850					-.2015	-.4856	-.5798			
.857				-.2095						
.862									-.4879	
.865		.0532								
.879			.0249							
.900		.0520			-.1615			-.5623		
.905				-.2719						
.919			-.0500							
.950					-.0623	-.2383	-.5382			
.953				-.2284						
.955			-.0493							
.965		.0176								

ALPHA (5) = 12.006 BETA (3) = 4.239 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2055	-.6709	-.6564	-.4675	.0886	.0983	.0575	-.0638	-.7435	
.010		-.6451	-.6495		-.6401	-.5348	-.6321	-.7814		
.020		-.6421		.0000	-.7076	-.6721	-.7299	-.8190	-.6780	
.040			-.6229	-.1472						
.041	.3227									
.050					-.7434	-.7822	-.8415	-.7382		
.069									-.6580	
.080					-.7309					
.081				-.2474						
.086			-.5352							
.094		-.7094								
.113	-.3182									
.150					-.6911	-.8754	-.8708	-.7049		
.157									-.6435	
.163			.0000							
.177				-.4694						
.[illegible]		-.8351								
.245			-.4447							
.247	-.3702									
.250					-.6272	-.8669	-.8618	-.7181		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU54)

ALPHA (5) = 12.006 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				-.4408						
.345									-.6284	
.362		-.0272								
.390			-.4503							
.400					-.6444	-.7919		-.7080		
.402				-.5629						
.418										-.6299
.429	-.2048									
.497		-.3083								
.503									-.6239	
.547	-.1130									
.550					-.5241	-.7443				
.565				-.6399						
.600								-.6756		
.633	-.4663									
.637			-.4795							
.650							-.7278			
.670									-.6038	
.700		-.4434				-.5966				
.723										-.5765
.725					-.2836					
.727	-.4790									
.750							-.6815	-.6501		
.760				-.2542						
.775					-.2038	-.4049				
.793	-.0248									
.798			-.1973							
.808				-.2074						
.834		-.1644								
.839			-.0519							
.850					-.1586	-.3585	-.6371			
.857				-.1484						
.862									-.5677	
.865		-.0579								
.879			-.0788							
.900		-.0518			-.2160			-.5219		
.905				-.1488						
.919			-.0028							
.950					-.2465	-.1169	-.5689			
.953				-.1659						
.955			-.0467							
.965		-.0160								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55) (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 = -10.000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = -4.000
R-ELVN = 4.000 MACH = .900

ALPHA (1) = -3.986 BETA (1) = -3.861 MACH = .90063 Q = 600.64 P = 1057.8 RN/L = 3.5878

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4332	-.0417	-.0942	.1515	.4093	.3179	.2493	.2604	-1.0869	
.010		.0358	.0557		.6157	.5785	.5383	.4473		
.020		.0464		.0000	.5472	.4965	.4638	.3994	-.3888	
.040			.1677	.3920						
.041	-.0418									
.050					.3381	.2804	.2514	.2049		
.069									-.4604	
.080					.1432					
.081				.2689						
.086			.2942							
.094		.0566								
.113	.0457									
.150					-.0842	-.1224	-.1256	-.1807		
.157									-.5450	
.163			.0000							
.177				.0013						
.229		.1655								
.246			.0822							
.247	.0794									
.250					-.2780	-.3216	-.3579	-.4908		
.274				-.1501						
.345									-.2359	
.362		.1610								
.390			-.1222							
.400					-.1849	-.3081		-.5998		
.402				-.1739						
.418										-.4981
.429	.1657									
.497		-.0733								
.503									-.1094	
.547	.0362									
.550					-.0943	-.2080				
.565				.0022						
.600								-.0788		
.633	-.0887									
.637			.0579							
.650							-.0533			
.670									.0099	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (1) = -3.986 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										
.700		.0908				-.0105				
.723									-1.0024	
.725					.0165					
.727	.0552									
.750							.0886	.1793		
.760				-.0037						
.775					.3266	.1908				
.793	.2171									
.798			-.0123							
.808				.2776						
.834		-.0054								
.839			.2585							
.850					.1932	.1342	.1711			
.857				.1723						
.862									.0376	
.865		.2480								
.879			.1600							
.900		.1122			.1160			.1316		
.905				.1144						
.919			.1020							
.950					.0757	.1390	.1244			
.953				.0847						
.955			.0659							
.965		.0996								

ALPHA (1) = -3.902 BETA (2) = .179 MACH = .90063 Q = 600.84 P = 1057.8 RN/L = 3.5878

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4640	.0003	-.0205	.1723	.3537	.2322	.1518	.1597	-.7354	
.010		.0383	.0727		.5443	.5011	.4595	.3759		
.020		.0336		.0000	.4800	.4284	.3941	.3364	-.4369	
.040			.1489	.3281						
.041	-.1038									
.050					.2859	.2399	.2123	.1608		
.069									-.5090	
.080					.1104					
.081				.2221						
.086			.2522							
.094		.0324								
.113	.0273									
.150					-.0901	-.1268	-.1231	-.1967		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (1) = -3.902 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										
.157									-.5647	
.163			.0000							
.177				-.0102						
.229		.1382								
.246			.0588							
.247	.0596									
.250					-.2692	-.3104	-.3577	-.4893		
.274				-.1469						
.345									-.0386	
.362		.1349								
.330			-.1212							
.400					-.2004	-.3161		-.5803		
.402				-.1816						
.418										-.3356
.429	.1375									
.497		-.0880								
.503									-.1265	
.547	.0153									
.550					-.1622	-.3061				
.565				-.0571						
.630								-.0763		
.633	-.1074									
.637			-.0037							
.650							-.0830			
.670									-.0207	
.700		.0329				-.0507				
.723										-.9374
.745					-.0374					
.747	.0072									
.750							.2756	.1703		
.760				-.0752						
.775					.2873	.1574				
.793	.1552									
.798			-.0814							
.808				.2296						
.834		-.0837								
.839			.2036							
.850					.1546	.0952	.1565			
.857				.1241						
.852									.0305	
.865		.1894								
.879			.1059							
.900		.0511			.0802			.1155		
.905				.0683						
.919			.0531							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (1) = -3.902 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										
.950					.0437	.1124	.1130			
.953				.0292						
.955			.0265							
.965		.0559								

ALPHA (1) = -3.962 BETA (3) = 4.262 MACH = .90063 Q = 600.64 P = 1057.8 RN/L = 3.5876

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4853	.0239	.0294	.1891	.3019	.1653	.0738	.0743	-.7535	
.010		.0378	.0896		.4749	.4253	.3822	.3104		
.020		.0272		.0000	.4185	.3613	.3306	.2714	-.5146	
.040			.1422	.2797						
.041	-.1100									
.050					.2404	.1899	.1700	.1153		
.069									-.5667	
.080					.0825					
.081				.1853						
.086			.2238							
.094		.0242								
.113	.0056									
.150					-.0925	-.1345	-.1339	-.2151		
.157									-.6024	
.163			.0000							
.177				-.0152						
.229		.1211								
.246			.0421							
.247	.0540									
.250					-.2561	-.3023	-.3544	-.4880		
.274				-.1375						
.345									-.2321	
.362		.1169								
.390			-.1177							
.400					-.2114	-.3237		-.5991		
.402				-.1889						
.418										-.2638
.429	.1226									
.497		-.0917								
.503									-.0981	
.547	.0080									
.550					-.2216	-.3625				
.565				-.1018						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (1) = -3.962 BETA (3) = 4.262

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								-.1058		
.633	-.1116									
.637			-.0569							
.650							-.1254			
.670									-.0222	
.700		-.0152				-.0880				
.723										-.8243
.725					-.1118					
.727	-.0351									
.750							.2645	.1858		
.760				-.1436						
.775					.2511	.1252				
.793	.0861									
.798			-.1564							
.808				.1858						
.834		-.1705								
.839			.1452							
.850					.1220	.0671	.1541			
.857				.0855						
.862									.0206	
.865		.1223								
.879			.0615							
.900		.0043			.0544			.1193		
.905				.0362						
.919			.0195							
.950					.0369	.1019	.1149			
.953				.0052						
.955			-.0050							
.965		.0288								

ALPHA (2) = .074 BETA (1) = -3.874 MACH = .89883 Q = 599.16 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	-.3598	.0470	.1056	.3752	.5467	.4795	.4442	.4515	r.3579	
.010		.0496	.1508		.4563	.4655	.4185	.2702		
.020		.0297		.0000	.3401	.3009	.2652	.2001	-.2823	
.040			.1866	.2039						
.041	-.1211									
.050					.0692	.0144	-.0122	-.0581		
.069									-.3726	
.080					-.1544					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (2) = .074 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				.0435						
.086			.2183							
.034		.0120								
.113	-.0309									
.150					-.3743	-.4256	-.4167	-.4409		
.157									-.6882	
.163			.0000							
.177				-.2448						
.229		.1041								
.246			-.0939							
.247	.0269									
.250					-.5118	-.6265	-.6619	-.6674		
.274				-.3894						
.345									-.6358	
.362		.0390								
.390			-.3290							
.400					-.2959	-.3884		-.0690		
.402				-.3586						
.418										-.3051
.429	.0941									
.497		-.2439								
.503									-.1951	
.547	-.1078									
.550					-.1280	.1775				
.565				-.0420						
.600								-.0431		
.633	-.2767									
.637			.0210							
.650							-.0163			
.670									-.0755	
.700		.0394				.0127				
.723										-.2617
.725					.0366					
.727	-.0015									
.750							.2688	.1558		
.760				.0139						
.775					.3002	.1887				
.793	.1811									
.798			.0217							
.808				.2694						
.834		.0115								
.839			.2541							
.850					.1897	.1415	.1629			
.857				.1754						
.862									-.0035	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU65)

ALPHA (2) = .074 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		.2297								
.879			.1741							
.900		.1207			.1179			.1158		
.905				.1193						
.919			.1109							
.950					.0716	.1353	.1354			
.953				.0659						
.955			.0681							
.965		.1097								

ALPHA (2) = .080 BETA (2) = .167 MACH = .89883 Q = 599.16 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	-.4091	.0221	.0884	.3508	.4962	.4167	.3765	.3704	-.3578	
.010		.0003	.1180		.3741	.3759	.3315	.1957		
.020		-.0120		.0000	.2582	.2219	.1903	.1238	-.3548	
.040			.1530	.1399						
.041	-.2470									
.050					.0119	-.0392	-.0627	-.1079		
.069									-.4331	
.080					-.1790					
.081				-.0018						
.086			.1788							
.094		-.0184								
.113	-.0422									
.150					-.3727	-.4092	-.4317	-.4632		
.157									-.7206	
.163			.0000							
.177				-.2491						
.229		.0813								
.246			-.1185							
.247	.0096									
.250					-.4912	-.6097	-.6643	-.6939		
.274				-.3716						
.345									-.5268	
.352		.0138								
.390			-.3081							
.400					-.3048	-.4177		-.8923		
.402				-.3827						
.418										-.3913
.429	.0752									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (2) = .080 BETA (2) = .167

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		-.2609								
.503									-.1545	
.547	-.1195									
.550					-.2113	-.3400				
.565				-.1025						
.600								-.0288		
.633	-.2870									
.637			-.0389							
.650							-.0381			
.670									-.0349	
.700		-.0238				-.0262				
.723										-.2815
.725					-.0187					
.727	-.0466									
.750							.2698	.1569		
.760				-.0524						
.775					.2620	.1529				
.793	.1182									
.798			-.0468							
.808				.2170						
.834		-.0631								
.839			.1945							
.850					.1564	.1165	.1517			
.857				.1284						
.862									.0128	
.865		.1577								
.879			.1177							
.900		.0656			.0857			.1144		
.905				.0823						
.919			.0614							
.950					.0475	.1150	.0944			
.953				.0377						
.955			.0298							
.965		.0649								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (2) = .067 BETA (3) = 4.244 MACH = .89883 Q = 599.16 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	-.4471	-.0411	.0542	.3129	.4520	.3664	.3209	.3053	-.3326	
.010		-.0501	.0842		.2878	.2935	.2425	.0951		
.020		-.0480		.0000	.1811	.1403	.1041	.0421	+.4148	
.040			.1193	.0899						
.041	-.2988									
.050										
.069					-.0365	-.0982	-.1261	-.1802		
.080									-.4901	
.081					-.2066					
.086				-.0311						
.094			.1463							
.113	-.0458	-.0278								
.150										
.157					-.3812	-.4247	-.4485	-.4944		
.163									-.7548	
.177			.0000							
.229				-.2392						
.246		.0683								
.247	.0020		-.1208							
.250										
.274					-.4882	-.6019	-.6631	-.7150		
.345				-.3237						
.362									-.6226	
.370		.0072								
.400			-.2808							
.402					-.3076	-.4373		-.7759		
.418				-.3699						
.429	.0619									-.4924
.497		-.2450								
.503										
.547	-.1225								-.1383	
.550										
.565					-.2762	-.4439				
.600				-.1561						
.633	-.2654							-.0578		
.637			-.1070							
.650										
.670							-.0906			
.700		-.0688							-.0331	
.723						-.0636				
.725										-.2387
.727	-.0889				-.1110					
.750										
.760							.2745	.1794		
.775				-.1168						
					.2156	.1169				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (2) = .067 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	.0415									
.798			-.1396							
.808				.1621						
.834		-.1583								
.839			.1205							
.850					.1226	.0896	.1567			
.857				.0871						
.862									.0337	
.865		.0647								
.879			.0623							
.900		.0013			.0605			.1233		
.905				.0405						
.919			.0228							
.950					.0284	.1012	.1010			
.953				.0016						
.955			.0009							
.965		.0286								

ALPHA (3) = 3.946 BETA (1) = -3.879 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2955	-.0300	.0576	.4073	.6111	.5723	.5457	.4883	-.1948	
.010		-.0755	.0718		.1720	.2131	.1115	-.1295		
.020		-.0778		.0000	.0323	-.0075	-.0752	-.2070	-.5288	
.040			.1013	-.0413						
.041	-.1853									
.050					-.2436	-.3190	-.3863	-.4791		
.069									.6307	
.080					-.4625					
.081				-.2138						
.086			.0997							
.094		-.0584								
.113	-.0968									
.150					-.7025	-.7238	-.7194	-.7309		
.157									-.8758	
.163			.0000							
.177				-.4644						
.229		.0511								
.245			-.2651							
.247	-.0135									
.250					-.7553	-.9172	-.9598	-.7799		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (3) = 3.946 BETA (1) = -3.879

SECTION (1)LEFT WING .OP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.5925						
.345									-.5513	
.362		-.0665								
.390			-.5358							
.400					-.7233	-.8907		-.5624		
.402				-.7102						
.418										-.7423
.429	.0414									
.497		-.4255								
.503									-.3638	
.547	-.2084									
.550					-.1171	-.2374				
.565				-.0834						
.600								-.4212		
.633	-.5084									
.637			-.0217							
.650							-.3111			
.670									-.2839	
.700		-.0471				-.0343				
.723										-.4791
.725					.0403					
.727	-.0904									
.750							-.1111	-.2285		
.760				.0495						
.775					.1941	.1139				
.793	.1834									
.799			.0582							
.808				.2345						
.834		.0334								
.839			.2421							
.850					.1642	.1132	.0385			
.857				.1688						
.862									-.1504	
.865		.2260								
.879			.1776							
.900		.1252			.1162			-.0831		
.905				.1224						
.919			.1197							
.950					.0782	.1442	.1010			
.953				.0781						
.955			.0833							
.965		.1214								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (3) = 3.951 BETA (2) = .176 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/B4	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3519	-.1443	-.0506	.3102	.5212	.4802	.4513	.3810	-.3165	
.010		-.1745	-.0177		.0583	.1005	-.0073	-.2321		
.020		-.1490		.0000	-.0611	-.1047	-.1862	-.3080	-.6341	
.040			.0423	-.1064						
.041	-.3739									
.050					-.3102	-.3958	-.4579	-.5528		
.069									-.7078	
.080					-.5046					
.081				-.2609						
.085			.0520							
.094		-.0787								
.113	-.1068									
.150					-.7072	-.7620	-.7546	-.7700		
.157									-.9040	
.163			.0000							
.177				-.4768						
.229		.0299								
.246			-.2794							
.247	-.0293									
.250					-.7452	-.9023	-.9707	-.8289		
.274				-.5836						
.345									-.5612	
.362		-.0827								
.390			-.5344							
.400					-.6787	-.9442		-.5994		
.402				-.6753						
.418										-.9383
.419	.0213									
.407		-.4232								
.503									-.3700	
.547	-.2274									
.550					-.1833	-.1315				
.565				-.1364						
.600								-.4167		
.633	-.5049									
.637			-.0890							
.650							-.2828			
.670									-.2379	
.700		-.0806				-.0623				
.723										-.4366
.725					-.0191					
.727	-.1185									
.750							-.0352	-.2342		
.760				-.0012						
.775					.1686	.0759				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (3) = 3.951 BETA (2) = .176

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	.1255									
.798			-.0253							
.808				.1699						
.834		-.0558								
.839			.1823							
.850					.1302	.0792	.0937			
.857				.1223						
.862									-.1113	
.865		.1430								
.879			.1169							
.900		.0635			.0783			-.0854		
.905				.0792						
.919			.0708							
.950					.0462	.0998	.1016			
.953				.0338						
.955			.0427							
.965		.0828								

ALPHA (3) = 3.956 BETA (3) = 4.235 MACH = .89870 Q = 599.92 P = 1058.7 RN/L = 3.5860

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4269	-.2786	-.1658	.1842	.4260	.3815	.3439	.2535	-.5511	
.010		-.2594	-.0745		-.0703	-.0343	-.1568	-.3851		
.020		-.1998		.0000	-.1696	-.2301	-.3162	-.4762	-.8010	
.040			.0057	-.1745						
.041	-.4984									
.050					-.3821	-.4787	-.5564	-.6620		
.069									-.8140	
.090					-.5491					
.081				-.3047						
.086			.0187							
.094		-.0993								
.113	-.1177									
.150					-.7206	-.7942	-.8041	-.8322		
.157									-.9834	
.163			.0000							
.177				-.4845						
.229		-.0066								
.245			-.2685							
.247	-.0384									
.250					-.7317	-.8747	-.9934	-.8597		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (3) = 3.956 BETA (3) = 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										
.274				-.5735						
.345									-.5842	
.362		-.0939								
.390			-.5073							
.400					-.5895	-.9423		-.6540		
.402				-.6232						
.418										-1.0887
.429	.0134									
.497		-.4290								
.503									-.3757	
.547	-.2278									
.550					-.2868	-.2554				
.565				-.2214						
.600								-.4409		
.633	-.4856									
.637			-.1752							
.650							-.2641			
.670									-.2397	
.700		-.1128				-.1177				
.723										-.4306
.725					-.0691					
.727	-.1515									
.750							.0150	-.2237		
.760				-.1031						
.775					.0894	.0034				
.793	.0381									
.799			-.1291							
.808				.1066						
.834		-.1556								
.839			.1325							
.850					.0736	.0475	.0986			
.857				.0643						
.862									-.1069	
.865		.0871								
.879			.0673							
.900		.0059			.0380			-.0677		
.905				.0318						
.919			.0261							
.950					.0146	.0826	.0917			
.953				.0001						
.955			.0098							
.965		.0437								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (4) = 7.893 BETA (1) = -3.876 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2659	-.2921	-.2675	.2188	.4880	.4629	.4241	.2985	-.5840	
.010		-.3662	-.2001		-.2642	-.1755	-.3135	-.5698		
.020		-.2999		.0000	-.3685	-.3988	-.4829	-.6758	-1.0432	
.040			-.0953	-.3771						
.041	-.2094									
.050					-.5895	-.6444	-.7439	-.8768		
.069									-1.0346	
.080					-.7692					
.081				-.5398						
.086			-.0757							
.094		-.1427								
.113	-.1644									
.150					-.9757	-1.0392	-.6022	-.8454		
.157									-.9242	
.163			.0000							
.177				-.6638						
.229		-.0069								
.246			-.4248							
.247	-.0688									
.250					-1.0036	-1.0250	-.7763	-.6247		
.274				-.7643						
.345									-.4888	
.362		-.1648								
.390			-.6594							
.400					-.7644	-.7124		-.5208		
.402				-.8959						
.418										-.8548
.429	.0001									
.497		-.5357								
.503									-.4200	
.547	-.3282									
.550					-.3819	-.5700				
.565				-.2576						
.600								-.4505		
.633	-.6753									
.637			-.0779							
.650							-.4997			
.670									-.4186	
.700		-.1155				-.4168				
.723										-.4203
.725					-.1223					
.727	-.1436									
.750							-.4353	-.3782		
.760				-.0035						
.775					.0206	-.2923				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8J55)

ALPHA (4) = 7.893 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										
.793	.1917									
.798			-.0396							
.808				.1791						
.834		-.0244								
.839			.1535							
.850					.0938	-.1930	-.3643			
.857				.1236						
.862									-.3637	
.865		.2076								
.879			.0895							
.900		.0970			.0803			-.3250		
.905				.0754						
.919			.0361							
.950					.0768	-.0637	-.2887			
.953				.0431						
.955			.0238							
.985		.1098								

ALPHA (4) = 8.030 BETA (2) = .173 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3501	-.4895	-.3952	.0357	.3446	.3252	.2783	.1504	-.8417	
.010		-.4855	-.1922		-.4169	-.3288	-.4815	-.7226		
.020		-.3534		.0000	-.4830	-.5204	-.6058	-.8011	-1.1344	
.040			-.0777	-.4322						
.041	-.4062									
.050					-.6624	-.7412	-.8388	-.9789		
.069									-1.1493	
.080					-.8235					
.081				-.5722						
.086			-.0685							
.094		-.1927								
.113	-.2065									
.150					-.9703	-1.0775	-.9766	-.8584		
.157									-.7879	
.163			.0000							
.177				-.6583						
.229		-.1252								
.245			-.4227							
.247	-.0662									
.250					-.9869	-1.0716	-.8670	-.6475		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (4) = 8.030 BETA (2) = .173

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				-.7352						
.345									-.5148	
.362		-.1825								
.390			-.6591							
.400					-.8712	-.7891		-.5789		
.402				-.8743						
.418										-.6520
.429	-.0068									
.497		-.5617								
.503									-.4973	
.547	-.3466									
.550					-.3899	-.6105				
.565				-.2131						
.600								-.4954		
.633	-.6983									
.637			-.1397							
.650							-.5511			
.670									-.4289	
.700		-.1295				-.4173				
.723										-.4177
.725					-.1210					
.727	-.2125									
.750							-.4668	-.4385		
.760				-.0698						
.775					.0436	-.2437				
.793	.0921									
.798			-.1288							
.808				.1242						
.834		-.1051								
.849			.0997							
.850					.0712	-.1417	-.3828			
.857				.0513						
.862									-.3810	
.865		.1165								
.879			.0597							
.900		.0379			.0377			-.3647		
.905				.0117						
.919			.0219							
.950					.0275	-.0221	-.2780			
.953				-.0155						
.955			.0183							
.965		.0742								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (4) = 8.015 BETA (3) = 4.230 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4358	-.5832	-.2418	-.1398	.1951	.1762	.1171	-.0249	-.7021	
.010		-.3716	-.1731		-.5450	-.4974	-.6514	-.8938		
.020		-.3324		.0000	-.6143	-.6496	-.7628	-.9640	-.6470	
.040			-.1499	-.4022						
.041	-.5147									
.050					-.7136	-.8417	-.9471	-1.0624		
.069									-.5746	
.080					-.8347					
.081				-.4796						
.085			-.1587							
.094		-.3209								
.113	-.2104									
.150					-.9127	-1.1136	-1.0341	-.9709		
.157									-.5382	
.163			.0000							
.177				-.5990						
.229		-.2500								
.246			-.5145							
.247	-.0843									
.260					-.3106	-1.0930	-.8965	-.7432		
.274				-.7012						
345									-.5072	
.362		-.1166								
.390			-.6994							
.400					-.8140	-.7986		- 6046		
.402				-.8299						
.418										-.5003
.429	-.0257									
.497		-.5395								
.503									-.4966	
.547	-.3461									
.560					-.3737	-.6020				
.565				-.2153						
.600								-.5429		
.633	-.6578									
.657			-.1906							
.660							-.5845			
.670									-.4578	
.700		-.1834				-.3917				
.733										-.4254
.765					-.1326					
.777	-.2315									
.780							-.4977	-.5070		
.760				-.2094						
.775					.0984	-.1902				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (4) = 8.015 BETA (3) = 4.230

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	.0125									
.798			-.1583							
.808				-.0220						
.834		-.1650								
.839			.0797							
.850					.0376	-.1222	-.3889			
.857				-.0587						
.862									-.4266	
.865		.0430								
.879			.0287							
.900		-.0177						-.4427		
.905				-.0506	-.0053					
.919			.0028							
.950					-.0150	-.0017	-.2947			
.953				-.0514						
.955			-.0005							
.965		.0273								

ALPHA (5) = 11.973 BETA (1) = -3.861 MACH = .89910 Q = 599.49 P = 1059.5 RN/L = 3.5890

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2802	-.6760	-.5578	-.1727	.2308	.2145	.1630	.0095	-.7325	
.010		-.6885	-.2682		-.7023	-.6000	-.7646	-.8379		
.020		-.5836		.0000	-.8229	-.7945	-.9019	-.6963	-.6587	
.040			-.1791	-.6536						
.041	-.2587									
.050					-.9639	-1.0025	-1.0761	-.6705		
.069									-.5511	
.080					-1.0604					
.081				-.7408						
.086			-.1758							
.094		-.3323								
.113	-.2506									
.150					-1.1711	-.9717	-1.0200	-.6239		
.157									-.5229	
.163			.0000							
.177				-.7965						
.229		-.2061								
.245			-.5561							
.247	-.1098									
.250					-1.0298	-.8732	-.8330	-.6175		

REPRODUCIBILITY OF THE ORIGINAL

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (5) = 11.973 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				-.8502						
.345									-.5090	
.362		-.3824								
.390			-.7568							
.400					-.7866	-.8106		-.5872		
.402				-.8348						
.418										-.5045
.429	-.0311									
.497		-.7634								
.503									-.5012	
.547	-.4773									
.550					-.6849	-.6476				
.565				-.4485						
.600								-.5388		
.633	-.8211									
.637			-.2761							
.650							-.6044			
.670									-.4638	
.700		-.1962				-.5668				
.723										-.4539
.725					-.3914					
.727	-.2263									
.750							-.5559	-.5213		
.760				-.2309						
.775					-.3473	-.5073				
.793	.0712									
.798			-.2671							
.808				-.0818						
.834		-.2155								
.839			-.0800							
.850					-.2114	-.4881	-.5419			
.857				-.0993						
.862									-.4407	
.865		.0691								
.879			-.0862							
.900		.0201			-.1869			-.4877		
.905				-.1088						
.919			-.0751							
.950					-.1156	-.3834	-.4996			
.953				-.1067						
.955			-.0295							
.965		.0930								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U55)

ALPHA (5) = 11.987 BETA (2) = .182 MACH = .89910 Q = 599.49 P = 1058.5 RN/L = 3.5890

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3894	-.7736	-.3330	-.3701	.0530	.0367	-.0153	-.1647	T.7135	
.010		-.5232	-.2752		-.8454	-.7552	-.9040	-.9119		
.020		-.4754		.0000	-.9641	-.9342	-1.0481	-.6587	-.6550	
.040			-.2612	-.5477						
.041	-.4519									
.050					-1.0638	-1.1043	-1.0784	-.6454		
.069									-.6027	
.080					-1.1107					
.081				-.6286						
.086			-.2665							
.094		-.4711								
.113	-.2739									
.150					-1.2082	-.9906	-.9937	-.6402		
.157									-.5672	
.163			.0000							
.177				-.7374						
.229		-.5895								
.246			-.5721							
.247	-.1679									
.250					-.9568	-.9053	-.9033	-.6410		
.274				-.8396						
.345									-.5521	
.362		-.2879								
.390			-.7698							
.400					-.7929	-.7864		-.6289		
.402				-.9312						
.418										-.5468
.429	-.0661									
.497		-.7325								
.503									T.8457	
.547	-.4995									
.550					-.6617	-.6931				
.565				-.3751						
.600								-.5788		
.633	-.8470									
.637			-.3224							
.650							-.6376			
.670									-.6083	
.700		-.2223				-.5858				
.723										-.4888
.725					-.3394					
.727	-.2513									
.750							-.6009	-.5677		
.760				-.2670						
.775					-.2730	-.3126				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU55)

ALPHA (5) = 11.987 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	.0423									
.798			-.2699							
.808				-.2223						
.834		-.2548								
.839			-.0647							
.850					-.1874	-.4878	-.5682			
.857				-.2385						
.862									-.4867	
.865		-.0270								
.879			-.1018							
.900		-.0441			-.1785			-.5249		
.905				-.2197						
.919			-.0836							
.950					-.1363	-.3594	-.5232			
.953				-.1994						
.955			-.0424							
.965		.0315								

ALPHA (5) = 12.005 BETA (3) = 4.250 MACH = .89910 Q = 599.49 P = 1059.8 RN/L = 3.5890

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4962	-.7439	-.3654	-.5275	-.1214	-.1415	-.2033	-.3478	-.7393	
.010		-.6256	-.3384		-.9937	-.9034	-1.02E~	-.7637		
.020		-.6048		.0000	-1.0887	-1.0765	-.9555	-.7755	-.6799	
.040			-.3261	-.4490						
.041	-.6120									
.050					-1.1345	-1.1730	-.8442	-.7234		
.069									-.6162	
.080					-1.1067					
.081				-.5572						
.086			-.3115							
.094		-.5894								
.113	-.2366									
.150					-1.0817	-.9325	-.7459	-.6737		
.157									-.6112	
.163			.0000							
.177				-.6711						
.229		-.6486								
.246			-.6012							
.247	-.2347									
.250					-.8899	-.8628	-.7391	-.6566		

AMES 11-073(OA148) -140A/B/C/R JKB LEFT WING TOP (XEBU55)

ALPHA (5) = 12.005 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				-.8032						
.345									-.5953	
.382		-.2959								
.390			-.8023							
.400					-.6587	-.7632		-.6550		
.402				-.8975						
.418										-.5761
.429	-.1019									
.497		-.7167								
.503									-.5941	
.547	-.4742									
.550					-.5887	-.7175				
.565				-.3902						
.600								-.6304		
.633	-.8368									
.637			-.2971							
.650							-.6953			
.670									-.5605	
.700		-.1881				-.6556				
.723										-.5276
.725					-.3986					
.727	-.2154									
.750							-.6439	-.6088		
.760				-.3585						
.775					-.4078	-.5915				
.793	.0177									
.798			-.3399							
.808				-.3460						
.834		-.2990								
.839			-.1612							
.850					-.3677	-.5209	-.6292			
.857				-.4454						
.862									-.5323	
.865		-.2188								
.879			-.2118							
.900		-.1736			-.3250			-.5766		
.905				-.3520						
.919			-.1737							
.950					-.2275	-.3727	-.5536			
.953				-.2536						
.955			-.0962							
.965		-.0585								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56) (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 = -10.000 SPDBRK = 55.000
BDFLAP = 16.300 L-ELVN = -4.000
R-ELVN = 4.000 MACH = .600

ALPHA (1) = -4.044 BETA (1) = -7.862 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1538	-.1494	-.2976	-.1280	.1059	.0181	-.0263	.0510	-1.0513	
.010		-.0082	-.0573		.6129	.5991	.5840	.5298		
.020		.0311		.0000	.5620	.5507	.5309	.4949	-.1477	
.040			.1050	.3781						
.041	.0361									
.050					.3513	.3398	.3161	.2898		
.069									-.1226	
.080					.1540					
.081				.2483						
.086			.2642							
.094		.0607								
.113	.0533									
.150					-.0642	-.0786	-.0698	-.0748		
.157									-.1373	
.163			.0000							
.177				.0013						
.229		.1520								
.246			.0568							
.247	.0843									
.250					-.2021	-.2342	-.2684	-.3027		
.274				-.1190						
.345									-.1058	
.362		.1196								
.390			-.0867							
.400					-.1386	-.1944		-.2511		
.402				-.1096						
.418										-.7533
.429	.1296									
.497		-.0621								
.503									-.1423	
.547	.0186									
.550					-.0424	-.0966				
.565				.0296						
.600								-.1049		
.633	-.0471									
.637			.0762							
.650							-.0446			
.670									-.0226	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (1) = -4.044 BETA (1) = -7.862

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.700		.0997				-.0034				
.723										-.9979
.725					.0457					
.727	.0732									
.750							.1934	.1138		
.760				.0303						
.775					.2580	.1629				
.793	.2218									
.798			.0392							
.808				.2346						
.834		.0571								
.839			.2315							
.850					.1697	.1363	.1276			
.857				.1586						
.862									-.0008	
.865		.2233								
.879			.1550							
.900		.1215			.1096			.0972		
.905				.1076						
.919			.0951							
.950					.0912	.1320	.1133			
.953				.0831						
.955			.0715							
.965		.1004								

ALPHA (1) = -3.971 BETA (2) = -3.856 MACH = .59674 Q = 594.63 P = 2385.6 RN/L = 4.8797

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1552	-.0947	-.2102	-.0601	.0870	-.0305	-.0892	-.0165	-.9484	
.010		-.0040	-.0285		.5438	.5281	.5098	.4581		
.020		.0149		.0000	.4970	.4818	.4646	.4234	-.2155	
.040			.0945	.3177						
.041	-.0152									
.050					.2958	.2920	.2732	.2339		
.069									-.1835	
.080					.1177					
.081				.2037						
.086			.2275							
.094		.0294								
.113	.0136									
.150					-.0834	-.0962	-.0817	-.1073		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (1) = -3.971 BETA (2) = -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										
.157									-.1783	
.163			.0000							
.177				-.0255						
.229		.1201								
.246			.0288							
.247	.0531									
.250					-.2217	-.2457	-.2829	-.3124		
.274				-.1431						
.345									-.1241	
.362		.0902								
.390			-.1151							
.400					-.1630	-.2128		-.2617		
.402				-.1494						
.418										-.6939
.429	.0984									
.497		-.0885								
.503									-.1449	
.547	-.0116									
.550					-.0784	-.1223				
.565				-.0149						
.600								-.1159		
.633	-.0846									
.637			.0303							
.650							-.0591			
.670									-.0291	
.700		.0552				-.0260				
.723										-1.0057
.725					.0169					
.727	.0298									
.750							.1902	.1089		
.760				-.0090						
.775					.2353	.1377				
.793	.1788									
.798			-.0006							
.808				.2025						
.834		.0164								
.839			.1944							
.850					.1464	.1119	.1186			
.857				.1305						
.862									-.0012	
.865		.1835								
.879			.1224							
.900		.0843			.0893			.0994		
.905				.0863						
.919			.0709							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (1) = -3.971 BETA (2) = -3.856

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7600	.8870	.9720	1.0000
X/CW										
.950					.0761	.1233	.1060			
.953				.0650						
.955			.0520							
.965		.0750								

ALPHA (1) = -3.944 BETA (3) = .179 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8787

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1544	-.0464	-.0999	.0098	.0787	-.0689	-.1567	-.1168	-.8716	
.010		-.0014	.0017		.4770	.4526	.4301	.3908		
.020		.0041		.0000	.4302	.4191	.3963	.3623	-.2765	
.040			.0866	.2653						
.041	-.0574									
.050					.2435	.2301	.2197	.2024		
.069									-.2332	
.080					.0832					
.081				.1656						
.085			.1906							
.094		-.0007								
.113	-.0222									
.150					-.1115	-.1208	-.1038	-.1234		
.157									-.2088	
.163			.0000							
.177				-.0423						
.229		.0976								
.246			.0016							
.247	.0293									
.250					-.2400	-.2636	-.2893	-.3141		
.274				-.1608						
.345									-.1331	
.362		.0668								
.390			-.1312							
.400					-.1897	-.2333		-.2660		
.402				-.1710						
.418										-.6397
.429	.0767									
.497		-.1098								
.503									-.1426	
.547	-.0314									
.550					-.1074	-.1422				
.565				-.0512						

AMES 11-073.OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (1) = -3.944 BETA (3) = .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										
.600								-.1152		
.633	-.1140									
.637			-.0125							
.650							-.0737			
.670									-.0294	
.700		.0145				-.0444				
.723										-1.0156
.725					-.0126					
.727	-.0098									
.750							.1779	.1033		
.760				-.0434						
.775					.2064	.1133				
.793	.1393									
.798			-.0337							
.808				.1729						
.834		-.0236								
.839			.1615							
.850					.1282	.0894	.1123			
.857				.0997						
.862									-.0018	
.865		.1447								
.879			.0921							
.900		.0507			.0702			.0967		
.905				.0604						
.919			.0423							
.950					.0668	.1110	.0992			
.953				.0491						
.955			.0281							
.965		.0484								

ALPHA (1) = -3.952 BETA (4) = 4.259 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1598	-.0220	-.0378	.0566	.1055	-.0576	-.1469	-.1173	-.7264	
.010		-.0026	.0245		.4087	.3877	.3634	.3194		
.020		-.0057		.0000	.3679	.3416	.3223	.2870	-.2939	
.040			.0842	.2226						
.041	-.0849									
.050					.1921	.1705	.1583	.1413		
.069									-.2631	
.080					.0384					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (1) = -3.952 BETA (4) = 4.259

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				.1338						
.086			.1676							
.094		-.0149								
.113	-.0408									
.150					-.1324	-.1449	-.1375	-.1664		
.157									-.2371	
.163			.0000							
.177				-.0593						
.229		.0857								
.245			-.0117							
.247	.0128									
.250					-.2555	-.2778	-.3089	-.3256		
.274				-.1666						
.345									-.1481	
362		.0559								
.390			-.1464							
.400					-.2159	-.2524		-.2793		
.402				-.1925						
.418										-.4825
.429	.0636									
.497		-.1263								
.503									-.1528	
.547	-.0436									
.550					-.1406	-.1636				
.555				-.0849						
.600								-.1239		
.633	-.1357									
.637			-.0484							
.650							-.0855			
.670									-.0336	
.700		-.0225				-.0606				
.723										-.9006
.725					-.0364					
.727	-.0469									
.750							.1668	.0941		
.760				-.0680						
.775					.1841	.0908				
.793	.1013									
.798			-.0610							
.808				.1463						
.834		-.0527								
.839			.1364							
.850					.1070	.0671	.1073			
.857				.0806						
.862									.0014	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (1) = -3.952 BETA (4) = 4.259

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		.1136								
.879			.0689							
.900		.0253			.0562			.0945		
.905				.0462						
.919			.0236							
.950					.0546	.1010	.0968			
.953				.0379						
.955			.0163							
.965		.0281								

ALPHA (1) = -3.967 BETA (5) = 8.330 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1682	-.0211	.0177	.1283	.1409	-.0354	-.1421	-.1167	-.6102	
.010		-.0190	.0547		.3411	.3197	.2888	.2507		
.020		-.0206		.0000	.2919	.2713	.2522	.2124	-.3105	
.040			.0877	.1667						
.041	-.1132									
.050					.1417	.1202	.1056	.0859		
.069									-.2918	
.080					-.0018					
.081				.0911						
.086			.1446							
.094		-.0242								
.113	-.0537									
.150					-.1479	-.1660	-.1600	-.1873		
.157									-.2563	
.193			.0000							
.177				-.0810						
.229		.0726								
.246			-.0278							
.247	.0042									
.250					-.2636	-.2859	-.3053	-.3313		
.274				-.1856						
.345									-.1500	
.362		.0347								
.390			-.1622							
.400					-.2312	-.2621		-.2735		
.402				-.2136						
.418										-.3543
.429	.0514									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (1) = -3.967 BETA (5) = 8.330

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		-.1437								
.503									-.1389	
.547	-.0671									
.550					-.1602	-.1766				
.565				-.1131						
.600								-.1197		
.633	-.1542									
.637			-.0841							
.650							-.0880			
.670									-.0321	
.700		-.0583				-.0698				
.723										-.7664
.725					-.0480					
.727	-.0860									
.750							.1647	.0951		
.760				-.0897						
.775					.1713	.0813				
.793	.0700									
.798			-.0857							
.808				.1276						
.834		-.0774								
.839			.1144							
.850					.0968	.0606	.1061			
.857				.0686						
.862									.0079	
.865		.0889								
.879			.0656							
.900		.0068			.0474			.1007		
.905				.0375						
.919			.0134							
.950					.0545	.1027	.1055			
.953				.0339						
.955			.0094							
.965		.0178								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU56)

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

ALPHA (2) = .082 BETA (1) = -7.901 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0656	.0447	.0614	.2930	.4809	.4536	.4298	.4730	-.1865	
.010		.0753	.1393		.4660	.5109	.4630	.3143		
.020		.0606		.0000	.3383	.3218	.2965	.2377	-.0769	
.040			.1808	.1822						
.041	-.0034									
.050					.0525	.0158	-.0106	-.0295		
.069									-.1708	
.080					-.1569					
.081				.0087						
.086			.2105							
.094		.0253								
.113	.0096									
.150					-.3170	-.3530	-.3605	-.3547		
.157									-.2773	
.163			.0000							
.177				-.2212						
.229		.0971								
.245			-.1160							
.247	.0431									
.250					-.3902	-.4448	-.5016	-.5325		
.274				-.2821						
.345									-.2567	
.352		.0006								
.390			-.2191							
.400					-.2317	-.2973		-.3658		
.402				-.2047						
.418										-.0908
.429	.0550									
.497		-.1739								
.503									-.2723	
.547	-.0975									
.550					-.0827	-.1365				
.565				-.0081						
.600								-.1460		
.633	-.1327									
.637			.0407							
.650							-.0596			
.670									-.0874	
.700		.0654				-.0070				
.723										-.2043
.725					.0393					
.727	.0317									
.750							.1796	.0979		
.760				.0344						
.775					.2514	.1626				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (2) = .082 BETA (1) = -7.901

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	.1979									
.798			.0484							
.808				.2275						
.834		.0616								
.839			.2269							
.850					.1686	.1540	.1282			
.857				.1637						
.862									.0087	
.865		.2271								
.879			.1587							
.900		.1310			.1141			.1109		
.905				.1159						
.919			.1058							
.950					.1036	.1481	.1226			
.953				.0930						
.955			.0864							
.965		.1128								

ALPHA (2) = .093 BETA (2) = -3.873 MACH = .69728 Q = 595.74 P = 2385.6 RN/L = 4.8908

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0976	.0308	.0682	.2915	.4566	.4105	.3789	.4190	-.1953	
.010		.0338	.1121		.3765	.4190	.3756	.2277		
.020		.0166		.0000	.2574	.2554	.2181	.1607	-.1415	
.040			.1466	.1285						
.041	-.0534									
.050					.0039	-.0312	-.0622	-.0896		
.069									-.2257	
.080					-.1858					
.081				-.0268						
.086			.1666							
.094		-.0115								
.113	-.0301									
.150					-.3428	-.3793	-.3814	-.3715		
.157									-.2983	
.163			.0900							
.177				-.2423						
.229		.0668								
.246			-.1455							
.247	.0071									
.250					-.4084	-.4581	-.5088	-.5385		

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (2) = .093 BETA (2) = -3.873

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				-.3050						
.345									-.2424	
.362		-.0301								
.390			-.2454							
.400					-.2584	-.3178		-.3703		
.402				-.2447						
.418										-.1025
.429	.0287									
.497		-.2081								
.503									-.2580	
.547	-.1247									
.550					-.1163	-.1660				
.565				-.0537						
.600								-.1499		
.633	-.1762									
.637			-.0026							
.650							-.0767			
.670									-.0727	
.700		.0168				-.0322				
.723										-.2099
.725					.0073					
.727	-.0134									
.750							.1708	.0918		
.760				-.0010						
.775					.2183	.1312				
.793	.1529									
.798			.0096							
.808				.1909						
.834		.0183								
.839			.1872							
.850					.1432	.1225	.1159			
.857				.1301						
.862									.0150	
.865		.1758								
.879			.1305							
.900		.0347			.0933			.1038		
.905				.0880						
.919			.0787							
.950					.0872	.1315	.1156			
.953				.0752						
.955			.0613							
.965		.0814								

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

ALPHA (2) = .095 BETA (3) = .179 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.890E

SECTION (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	.0004	.0600	.2742	.4280	.3523	.3399	.3518	-.2139	
.010		-.0140	.0869		.3032	.3367	.2914	.1606		
.020		-.0260		.0000	.1893	.1690	.1459	.0945	-.1894	
.040			.1094	.0632						
.041	-.1006									
.050					-.0540	-.0811	-.1063	-.1272		
.069										
.080					-.2197				-.2540	
.081				-.0667						
.086			.1238							
.094		-.0416								
.113	-.0613									
.150										
.157					-.3504	-.3860	-.4003	-.3793		
.163			.0000						-.2882	
.177				-.2515						
.229		.0407								
.246			-.1640							
.247	-.0178									
.250										
.274					-.4171	-.4834	-.5029	-.5319		
.345				-.3122						
.362		-.0484							-.2250	
.390			-.2538							
.400										
.402					-.2789	-.3352		-.3678		
.418				-.2679						
.429	.0074									-.1239
.497		-.2285								
.503										
.547	-.1451								-.2273	
.550										
.565					-.1518	-.1880				
.600				-.0911						
.633	-.2027							-.1494		
.637			-.0478							
.650										
.670							-.0951			
.700		-.0222							-.0535	
.725						-.0560				
.725										-.2058
.727	-.0550				-.0195					
.750										
.760							.1623	.0863		
.775				-.0357						
					.1931	.1070				

AMES 11-073(OA148) -14CA/B/C/R ORB LEFT WING TOP (XF8U56)

ALPHA (2) = .095 BETA (3) = .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										
.793	.1086									
.798			-.0273							
.808				.1589						
.834		-.0156								
.839			.1509							
.850					.1230	.0952	.1091			
.857				.1003						
.862									.0260	
.865		.1272								
.879			.0947							
.900		.0530			.0747			.1002		
.905				.0654						
.919			.0505							
.950					.0735	.1169	.1106			
.953				.0615						
.955			.0395							
.965		.0537								

ALPHA (2) = .092 BETA (4) = 4.242 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1701	-.0430	.0273	.2446	.3926	.3369	.3086	.3120	-.1895	
.010		-.0639	.0413		.2079	.2411	.1953	.0624		
.020		-.0695		.0000	.1088	.0916	.0493	-.0019	-.2430	
.040			.0763	.0165						
.041	-.1374									
.050					-.1011	-.1364	-.1706	-.2047		
.070									-.2937	
.080					-.2554					
.081				-.1001						
.086			.0903							
.094		-.0622								
.113	-.0893									
.150					-.3675	-.4009	-.4038	-.3986		
.157									-.3071	
.163			.0000							
.177				-.2582						
.229		.0292								
.245			-.1759							
.247	-.0327									
.250					-.4274	-.4719	-.5074	-.5249		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (2) = .092 BETA (4) = 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										
.274				-.3214						
.345									-.2173	
.362		-.0575								
.390			-.2699							
.400					-.3092	-.3484		-.3637		
.402				-.2916						
.418										-.1431
.429	-.0002									
.497		.2434								
.503									-.2036	
.547	-.1600									
.550					-.1817	-.2046				
.565				-.1269						
.600								-.1438		
.633	-.2305									
.637			-.0838							
.650							-.1059			
.670									-.0376	
.700		-.0632				-.0671				
.723										-.1601
.725					-.0403					
.727	-.0863									
.750							.1574	.0868		
.760				-.0655						
.775					.1687	.0876				
.793	.0679									
.798			-.0560							
.808				.1267						
.834		.0563								
.839			.1169							
.850					.1017	.0727	.1074			
.857				.0782						
.862									.0397	
.865		.0899								
.879			.0634							
.900		.0214			.0609			.1035		
.905				.0450						
.919			.0229							
.950					.0659	.1096	.1063			
.953				.0384						
.965			.0175							
.985		.0249								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU66)

ALPHA (2) = .089 BETA (5) = 8.298 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2108	-.1403	-.0438	.1925	.3513	.2927	.2636	.2532	-.2029	
.010		-.1254	-.0014		.1098	.1486	.0991	-.0344		
.020		-.1136		.0000	.0101	.0030	-.0245	-.0832	-.2824	
.040			.0344	-.0484						
.041	-.1676									
.050					-.1604	-.1963	-.2180	-.2517		
.069									-.3226	
.080					-.2936					
.081				-.1347						
.086			.0538							
.094		-.0746								
.113	-.1037									
.150					-.3840	-.4131	-.4182	-.4173		
.157									-.3025	
.163			.0000							
.177				-.2771						
.229		.0162								
.246			-.1854							
.247	-.0379									
.250					-.4384	-.4743	-.5007	-.5176		
.274				-.3314						
.345									-.1992	
.362		-.0673								
.390			-.2764							
.400					-.3200	-.3588		-.3524		
.402				-.3079						
.418										-.1791
.429	-.0107									
.497		-.2460								
.503									-.1790	
.547	-.1641									
.550					-.2091	-.2195				
.565				-.1566						
.600								-.1401		
.633	-.2501									
.637			-.1241							
.650							-.1063			
.670									-.0184	
.700		-.1001				-.0800				
.723										-.1246
.725					-.0639					
.727	-.1212									
.750							.1515	.0970		
.760				-.0684						
.775					.1488	.0699				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (2) = .089 BETA (5) = 8.298

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	.0363									
.798			-.0775							
.808				.1041						
.834		-.0833								
.839			.0891							
.850					.0857	.0621	.1050			
.857				.0574						
.862									.0542	
.865		.0616								
.879			.0406							
.900		-.0010			.0481			.1079		
.905				.0313						
.919			.0069							
.950					.0591	.1026	.1086			
.953				.0285						
.955			.0057							
.965		.0069								

ALPHA (3) = 4.036 BETA (1) = -7.914 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0379	.0512	.1007	.4027	.6066	.5973	.5765	.5214	-.0488	
.010		.0012	.0998		.1007	.1366	.0280	-.2324		
.020		-.0139		.0000	-.0623	-.1128	-.1852	-.3153	-.4003	
.040			.1009	-.1101						
.041	-.0471									
.050					-.3547	-.4273	-.5022	-.5429		
.069									-.4952	
.080					-.5469					
.081				- 2807						
.086			.0694							
.094		-.0461								
.113	-.0339									
.150					-.5998	-.6954	-.7301	-.6815		
.157									-.6055	
.163			.0000							
.177				-.4560						
.229		.0185								
.245			-.3102							
.247	-.0051									
.250					-.5735	-.6762	-.7504	-.7882		

AMES 11-073(OA148) -140A/B/C/R CRB LEFT WING TOP (XEBU56)

ALPHA (3) = 4.036 BETA (1) = -7.914

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				-.4466						
.345									-.5345	
.362		-.1297								
.390			-.3409							
.400					-.3065	-.3903		-.4704		
.402				-.2960						
.418										-.2962
.429	-.0150									
.497		-.2915								
.503									-.5066	
.547	-.2207									
.550					-.1016	-.1754				
.565				-.0388						
.600								-.1933		
.633	-.2240									
.637			.0149							
.650							-.0800			
.670									-.2666	
.700		.0230				-.0105				
.723										-.2908
.725					.0503					
.727	-.0058									
.750							.1667	.0672		
.760				.0516						
.775					.2338	.1608				
.793	.2056									
.798			.0654							
.808				.2118						
.834		.0701								
.839			.2227							
.850					.1679	.1620	.1258			
.857				.1666						
.862									-.0813	
.865		.2132								
.879			.1627							
.900		.1426			.1246			.1073		
.905				.1238						
.919			.1174							
.950					.1139	.1665	.1304			
.953				.1079						
.955			.0966							
.965		.1279								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (α) = 4.041 BETA (β) = -3.873 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0989	-.0318	.0190	.3191	.5257	.5070	.4829	.4134	-.1585	
.010		-.0834	.0104		-.0229	.0191	-.0925	-.3746		
.020		-.0893		.0000	-.1570	-.2164	-.2975	-.4213	-.4758	
.040			.0356	-.1850						
.041	-.1037									
.050					-.4117	-.5023	-.5725	-.6133		
.069									-.5561	
.080					-.5843					
.081				-.3303						
.086			.0159							
.094		-.0838								
.113	-.0744									
.150					-.6308	-.7189	-.7516	-.7037		
.157									-.6120	
.163			.0000							
.177				-.4855						
.229		-.0093								
.246			-.3394							
.247	-.0380									
.250					-.5998	-.6890	-.7556	-.7878		
.274				-.4720						
.345									-.5135	
.362		-.1610								
.390			-.3691							
.400					-.3453	-.4104		-.4678		
.402				-.3317						
.418										-.4399
.479	-.0448									
.497		-.3317								
.503									-.4684	
.547	-.2606									
.550					-.1458	-.2010				
.565				-.0793						
.600								-.1968		
.633	-.2643									
.637			-.0284							
.650							-.0956			
.670									-.2636	
.700		-.0273				-.0317				
.723										-.3406
.725					.0140					
.727	-.0579									
.750							.1573	.0672		
.760				.0227						
.775					.1974	.1279				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (3) = 4.041 BETA (2) = -3.873

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	.1581									
.798			.0309							
.808				.1741						
.834		.0260								
.839			.1835							
.850					.1422	.1308	.1150			
.857				.1322						
.862									-.1076	
.865		.1592								
.879			.1254							
.900		.1053			.1062			.1026		
.905				.0967						
.919			.0876							
.950					.0980	.1516	.1241			
.953				.0875						
.965			.0711							
		.0999								

ALPHA (3) = 4.096 BETA (3) = .178 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION (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	-.1409	-.1018	.2113	.4374	.4110	.3878	.3151	-.2674	
.010		-.1863	-.0755		-.1302	-.0866	-.2051	-.4341		
.020		-.1636		.0000	-.2395	-.2955	-.3845	-.5039	-.5280	
.040			-.0336	-.2446						
.041	-.1522									
.050					-.4668	-.5490	-.6133	-.6450		
.069									-.5682	
.080					-.6189					
.081				-.3614						
.086			-.0369							
.094		-.1196								
.113	-.1133									
.150					-.6268	-.7099	-.7410	-.6922		
.157									-.6013	
.163			.0000							
.177				-.4862						
.229		-.0282								
.245			-.3547							
.247	-.0620									
.250					-.6063	-.6804	-.7445	-.7682		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU58)

ALPHA (3) = 4.096 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										
.274				-.4732						
.345									-.4597	
.362		-.1724								
.390			-.3798							
.400					-.3661	-.4260		-.4636		
.402				-.3463						
.418										
.429	-.0634									-.5662
.497		-.3485								
.503										
.547	-.2821								-.4178	
.550					-.1800	-.2134				
.565				-.1184						
.600										
.633	-.3017							-.1896		
.637			-.0750							
.650							-.1038			
.670										
.700		-.0720				-.0484			-.2116	
.723										
.725					-.0106					-.3592
.727	-.0956									
.750										
.760				-.0049			.1560	.0754		
.775					.1670	.1040				
.793	.1157									
.798			-.0151							
.809				.1371						
.814		-.0183								
.843			.1370							
.850					.1176	.1059	.1101			
.857				.1029						
.862										
.865		.1155							-.0595	
.879			.0916							
.900		.0672			.0850			.1047		
.905				.0736						
.919			.0598							
.950					.0887	.1391	.1212			
.953				.0670						
.955			.0472							
.965		.0675								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT [illegible] (XEBU56)

ALPHA (3) = 3.977 BETA (4) = 4.232 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2334	-.2666	-.2299	.0990	.3367	.3074	.2770	.1731	-.4462	
.010		-.2714	-.1548		-.2394	-.2022	-.3467	-.5722		
.020		-.2286		.0000	-.3318	-.3962	-.4844	-.6349	-.6258	
.040			-.0767	-.2880						
.041	-.1926									
.050					-.5047	-.5954	-.6693	-.7011		
.069									-.6284	
.080					-.6281					
.081				-.3817						
.086			-.0680							
.094		-.1324								
.113	-.1379									
.150					-.6252	-.7044	-.7496	-.7080		
.157									-.6083	
.163			.0000							
.177				-.4826						
.229		-.0495								
.246			-.3496							
.247	-.0768									
.250					-.5949	-.6855	-.7374	-.7556		
.274				-.4692						
.345									-.4369	
.362		-.1754								
.380			-.3815							
.400					-.3767	-.4325		-.4571		
.402				-.3611						
.418										-.8083
.429	-.0740									
.497		-.3671								
.503									-.3854	
.547	-.2848									
.550					-.2064	-.2290				
.565				-.1634						
.600								-.1822		
.633	- 3105									
.637			-.1366							
.650							-.1146			
.670									-.1706	
.700		-.1029				-.0673				
.723										-.3877
.725					-.0292					
.727	-.1190									
.750							.1484	.0764		
.760				-.0472						
.775					.1289	.0733				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (3) = 3.977 BETA (4) = 4.232

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	.0715									
.798			-.0654							
.808				.0804						
.834		-.0639								
.839			.1178							
.850					.0892	.0827	.1022			
.857				.0590						
.862									-.0295	
.865		.0920								
.879			.0685							
.900		.0271			.0690			.1016		
.905				.0361						
.919			.0322							
.950					.0724	.1231	.1124			
.953				.0401						
.955			.0289							
.965		.0323								

ALPHA (3) = 4.011 BETA (5) = 8.279 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3157	-.4250	-.2533	-.0734	.2036	.1804	.1397	.0275	-.6429	
.010		-.3342	-.1327		-.3815	-.3405	-.4631	-.6839		
.020		-.2531		.0000	-.4373	-.4707	-.5907	-.7259	-.6999	
.040			-.1183	-.3390						
.041	-.2369									
.050					-.5637	-.6292	-.7076	-.7806		
.059									-.6422	
.080					-.6519					
.081				-.3929						
.086			-.1315							
.094		-.2401								
.113	-.1723									
.150					-.6211	-.7120	-.7221	-.6978		
.157									-.5668	
.163			.0000							
.177				-.4517						
.229		-.0402								
.245			-.4223							
.247	-.0802									
.250					-.5890	-.6650	-.7130	-.7257		

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (3) = 4.011 BETA (5) = 8.279

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2150	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.4560					-.4009	
.345										
.362		-.1715								
.390			-.3861							
.400					-.3897	-.4489		-.4423		
.402				-.3788						-.9884
.418										
.429	-.0790									
.497		-.3659							-.3553	
.503										
.547	-.2917									
.550					-.2260	-.2477				
.565				-.2285						
.600								-.1727		
.633	-.3306									
.637			-.1399							
.650							-.1229			
.670									-.1189	
.700		-.1365				-.0819				
.723										-.3252
.725					-.0636					
.727	-.1535									
.750							.1390	.0780		
.760				-.1221						
.775					.0505	.0479				
.793	.0241									
.798			-.0805							
.808				.0758						
.824		-.0908								
.849			.0864							
.860					.0729	.0602	.0939			
.867				.0511						
.882									.0147	
.885		.0461								
.879			.0442							
.900		.0002			.0394			.0599		
.905				.0346						
.919			.0121							
.950					.0592	.1038	.1015			
.953				.0450						
.955			.0079							
.965		.0144								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U58)

ALPHA (4) = 8.004 BETA (1) = -7.903 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2250	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0695	-.1288	-.1744	.1943	.4143	.3596	.2863	.0813	-.6140	
.010		-.2297	-.1682		-.5340	-.5525	-.7837	-1.2148		
.020		-.1979		.0000	-.6606	-.7768	-.9690	-1.2634	-1.2092	
.040			-.1353	-.5251						
.041	-.0896									
.050					-.8871	-1.0600	-1.2113	-1.2898		
.069									-1.1511	
.080					-1.0379					
.081				-.6715						
.086			-.1580							
.094		-.1466								
.113	-.0719									
.150					-.9363	-1.0932	-1.1605	-1.0807		
.157									-1.2128	
.163			.0080							
.177				-.7218						
.279		-.0659								
.246			-.5174							
.247	-.0478									
.250					-.7650	-.8802	-.9909	-1.0888		
.274				-.6037						
.345									-.9468	
.362		-.2607								
.390			-.4498							
.400					-.3657	-.4732		-.6206		
.402				-.3431						
.418										-1.3433
.429	-.1009									
.497		-.4315								
.503									-.8372	
.547	-.3488									
.550					-.0922	-.1946				
.565				-.0677						
.600								-.2806		
.633	-.3188									
.637			-.0412							
.650							-.1069			
.670									-.6968	
.700		-.0174				-.0114				
.723										-1.1077
.725					.0622					
.727	-.0174									
.750							.1417	.0152		
.765				.0279						
.775					.1806	.1428				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (4) = 8.004 BETA (1) = -7.903

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	.2378									
.798			.0506							
.808				.1503						
.834		.0711								
.839			.2210							
.850					.1610	.1701	.1041			
.857				.1391						
.862									.4379	
.865		.1935								
.879			.1690							
.900		.1639			.1334			.0647		
.905				.1196						
.919			.1214							
.950					.1197	.1725	.1169			
.953				.1118						
.955			.1034							
.965		.1422								

ALPHA (4) = 8.017 BETA (2) = -3.872 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8529

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1494	-.2825	-.3568	.0180	.2668	.2070	.1243	-.1050	-.9233	
.010		-.3573	-.3040		-.6880	-.6882	-.9716	-1.3700		
.020		-.3033		.0000	-.7588	-.9240	-1.1089	-1.4289	-1.3538	
.040			-.2293	-.5941						
.041	-.1489									
.050					-.9526	-1.1400	-1.2827	-1.3953		
.069									-1.1891	
.080					-1.0726					
.081				-.7067						
.085			-.2179							
.094		-.1795								
.113	-.1196									
.150					-.9441	-1.0904	-1.1597	-1.0931		
.157									-1.1944	
.163			.0000							
.177				-.7315						
.229		-.0942								
.246			-.5332							
.247	-.0896									
.250					-.7758	-.8904	-.9656	-1.0735		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (4) = 8.017 BETA (2) = -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				-.6116						
.345									-.8989	
.362		-.2943								
.390			-.4703							
.400					-.3896	-.4928		-.6157		
.402				-.3765						
.418										-1.6774
.429	-.1262									
.497		-.4729								
.503									-.7861	
.547	-.3748									
.550					-.1376	-.2177				
.565				-.1287						
.600								-.2802		
.633	-.3488									
.637			-.0871							
.650							-.1273			
.670									-.5804	
.700		-.0873				-.0284				
.723										-1.1759
.725					.0274					
.727	-.0712									
.750							.1353	.0146		
.760				-.0093						
.775					.1157	.1065				
.793	.1733									
.798			-.0144							
.808				.1306						
.834		.0382								
.839			.1510							
.850					.1132	.1333	.0996			
.857				.1186						
.862									-.5882	
.865		.1860								
.879			.1162							
.900		.1249			.0820			.0675		
.905				.0893						
.919			.0763							
.950					.0769	.1580	.1107			
.953				.0854						
.955			.0747							
.965		.1112								

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (4) = 7.965 BETA (3) = .166 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	9720	1.0000
X/CW										
.000	-.2536	-.4715	-.5489	-.1737	.1048	.0505	-.0493	-.2715	-1.1504	
.010		-.4811	-.3913		-.8191	-.8312	-1.1161	-1.4893		
.020		-.3894		.0000	-.8632	-1.0310	-1.2096	-1.5297	-1.4371	
.040			-.2446	-.6542						
.041	-.2083									
.050					-.9911	-1.1779	-1.3204	-1.4170		
.069									-1.2230	
.080					-1.0737					
.081				-.7177						
.086			-.2158							
.094		-.2086								
.113	-.1842									
.150					-.9255	-1.0921	-1.1411	-1.0314		
.157									-1.0893	
.163			.0000							
.177				-.7137						
.229		-.1663								
.246			-.5243							
.247	-.1024									
.250					-.7711	-.8874	-.9594	-1.0367		
.274				-.5971						
.345									-.8295	
.362		-.3448								
.390			-.4936							
.400					-.4058	-.4936		-.5953		
.402				-.4095						
.418										-1.9119
.429	-.1335									
.497		-.5067								
.503									-.7203	
.547	-.4017									
.550					-.1892	-.2293				
.565				-.1852						
.600								-.2692		
.633	-.3752									
.637			-.1722							
.650							-.1348			
.670									-.6234	
.700		-.0687				-.0433				
.723										-1.0269
.725					-.0279					
.727	-.1173									
.750							.1251	.0230		
.760				-.0345						
.775					.0422	.0695				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (4) = 7.965 BETA (3) = .166

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	.1052									
.798			-.0571							
.808				.1041						
.834		-.0186								
.839			.1479							
.850					.0702	.1017	.0897			
.857				.0629						
.862									-.5476	
.865		.1400								
.879			.1137							
.900		.0762			.0551			.0654		
.905				.0278						
.919			.0689							
.950					.0740	.1358	.1005			
.953				.0287						
.965			.0682							
.965		.0735								

ALPHA (4) = 7.931 BETA (4) = 4.229 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.3493	-.6334	-.5320	-.3529	-.0675	-.1295	-.2495	-.5242	-1.6105	
.010		-.5001	-.2703		-.9375	-1.0029	-1.3034	-1.7093		
.020		-.3592		.0000	-.9505	-1.1380	-1.3411	-1.7618	-1.6196	
.040			-.2366	-.6297						
.041	-.2753									
.050					-1.0184	-1.2153	-1.3921	-1.5265		
.069									-1.2731	
.080					-1.0569					
.081				-.6514						
.086			-.2632							
.094		-.3859								
.113	-.2229									
.150					-.8938	-1.0483	-1.0898	-1.0525		
.157									-1.0815	
.163			.0000							
.177				-.6455						
.200		-.2292								
.205			-.6249							
.247	-.1068									
.250					-.7484	-.8719	-.9374	-1.0067		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (4) = 7.931 BETA (4) = 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				-.6094						
.345									-.8087	
.362		-.2600								
.390			-.6358							
.400					-.4210	-.5026		-.5709		
.402				-.4200						
.418										-2.3304
.429	-.1402									
.497		-.4799								
.503									-.6978	
.547	-.4153									
.550					-.2589	-.2418				
.565				-.2037						
.600								-.2625		
.633	-.3964									
.637			-.1606							
.650							-.1415			
.670									-.6762	
.700		-.1158				-.0773				
.723										-.7633
.725					-.0610					
.727	-.1583									
.750							.0981	.0215		
.760				-.1524						
.775					.0674	.0122				
.793	.0547									
.798			-.0734							
.808				.0170						
.834		-.0618								
.839			.1180							
.850					.1166	.0516	.0734			
.857				.0055						
.862									-.3957	
.865		.0796								
.879			.0668							
.900		.0348			.0672			.0559		
.905				-.0001						
.919			.0330							
.950					.0822	.0986	.0843			
.953				.0228						
.955			.0401							
.965		.0406								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (4) = 7.987 BETA (5) = 8.286 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4663	-.7250	-.3685	-.5183	-.2703	-.3341	-.4506	-.7183	-1.9892	
.010		-.4176	-.3235		-1.0863	-1.1700	-1.4860	-1.7943		
.020		-.4034		.0000	-1.0135	-1.2174	-1.4510	-1.8559	-1.5123	
.040			-.3159	-.5096						
.041	-.3897									
.050					-1.0121	-1.2165	-1.3933	-1.5380		
.069									-1.2131	
.080					-1.0012					
.081				-.5783						
.086			-.3514							
.094		-.4164								
.113	-.2157									
.150					-.8267	-1.0028	-1.0535	-1.0063		
.157									-.9769	
.163			.0000							
.177				-.6059						
.229		-.3321								
.246			-.7963							
.247	-.1422									
.250					-.6679	-.8274	-.8951	-.9402		
.274				-.6028						
.345									-.7578	
.362		-.2285								
.390			-.5387							
.400					-.4673	-.4552		-.5301		
.402				-.5729						
.418										-1.8383
.429	-.1462									
.497		-.4729								
.503									-.6503	
.547	-.4063									
.550					-.2589	-.2414				
.565				-.3430						
.600								-.2337		
.633	-.4011									
.637			-.1701							
.650							-.1257			
.670									-.4756	
.700		-.1532				-.1034				
.723										-.6710
.725					-.0781					
.727	-.1822									
.750							.0588	.0244		
.760				-.1447						
.775					.0266	-.0187				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U66)

ALPHA (4) = 7.987 BETA (5) = 8.286

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	-.0008									
.798			-.0972							
.808				.0750						
.834		-.0948								
.839			.0897							
.850					-.0066	.0128	.0660			
.857				.0465						
.862								-.2845		
.865		.0449								
.879			.0454							
.900		.0037			-.0597			.0496		
.905				.0344						
.919			.0170							
.950					-.0431	.1090	.0761			
.953				.0484						
.955			.0170							
.965		.0130								

ALPHA (5) = 11.920 BETA (1) = -7.867 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8948

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1481	-.4914	-.7593	-.3363	-.0971	-.2058	-.3528	-.6238	-1.7812	
.010		-.5945	-.6431		-1.4592	-1.5479	-1.9667	-2.3882		
.020		-.4633		.0000	-1.4803	-1.7392	-2.0988	-2.4950	-2.5226	
.040			-.4765	-1.0505						
.041	-.1495									
.050					-1.5924	-1.8792	-2.2302	-2.4655		
.069									-2.3274	
.080					-1.6913					
.081				-1.1097						
.086			-.4299							
.094		-.2205								
.113	-.1589									
.150					-1.2351	-1.3494	-1.3113	-1.2558		
.157									-1.7886	
.163			.0000							
.177				-.9481						
.229		-.1815								
.246			-.6613							
.247	-.0851									
.250					-.9037	-1.0790	-1.1747	-1.3524		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (5) = 11.920 BETA (1) = -7.867

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.6886						
.345									-1.5726	
.362		-.4668								
.390			-.5750							
.400					-.3648	-.5082		-.7528		
.402				-.4384						
.418										-1.9488
.429	-.1829									
.497		-.6862								
.503									-1.4110	
.547	-.4852									
.550					-.1417	-.1711				
.565				-.1860						
.600								-.4155		
.633	-.3998									
.637			-.0742							
.650							-.1432			
.670									-.9536	
.700		-.0923				-.0267				
.723										-1.0598
.725					-.0099					
.727	-.0395									
.750							.0359	-.1353		
.760				.0224						
.775					.0056	.0492				
.793	.2238									
.798			-.0693							
.808				.1560						
.834		.0732								
.839			.0955							
.850					.0453	.1065	.0448			
.857				.1081						
.862									-.7153	
.865		.2588								
.879			.0988							
.900		.1968			.0284			-.0440		
.905				.0578						
.919			.0830							
.950					.0606	.1589	.0690			
.953				.0354						
.955			.1057							
.965		.1612								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (5) = 11.942 BETA (2) = -3.850 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.2636	-.7281	-.8757	-.5731	-.2963	-.4170	-.5753	-.8530	-2.2159	
.010		-.7198	-.5718		-1.6598	-1.7544	-2.1560	-2.6098		
.020		-.5259		.0000	-1.5943	-1.8876	-2.3071	-2.7146	-2.5258	
.040			-.3346	-1.0422						
.041	-.2362									
.050					-1.6202	-1.9515	-2.3729	-2.6124		
.069									-2.3344	
.080					-1.6731					
.081				-1.0384						
.086			-.3657							
.094		-.3640								
.113	-.2306									
.150					-1.2184	-1.4018	-1.3681	-1.3485		
.157									-1.7658	
.163			.0000							
.177				-.8695						
.229		-.4369								
.246			-.7207							
.247	-.1146									
.250					-.8623	-1.0754	-1.1531	-1.2790		
.274				-.7570						
.345									-1.7253	
.362		-.6263								
.390			-.6034							
.400					-.4202	-.5133		-.7287		
.402				-.5312						
.418										-1.8419
.429	-.1949									
.497		-.6763								
.503									-1.5818	
.547	-.5220									
.550					-.2514	-.2097				
.565				-.1047						
.600								-.4002		
.633	-.4474									
.637			-.2227							
.650							-.1507			
.670									-1.1174	
.700		-.0828				-.0705				
.723										-1.1030
.725					-.1050					
.727	-.1236									
.750							.0081	-.1512		
.760				-.0070						
.775					-.0295	.0275				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (5) = 11.942 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										
.793	.1310									
.799			-.0829							
.808				.1058						
.834		.0044								
.839			.1079							
.850					.1079	.0586	.0270			
.857				.0567						
.862								-.8099		
.865		.1850								
.879			.0774							
.900		.1270			.1076		-.0414			
.905				.0236						
.919			.0505							
.950					.1368	.0947	.0580			
.953				.0142						
.955			.0521							
.965		.1143								

ALPHA (5) = 12.055 BETA (3) = .165 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.4055	-.9036	-.8945	-.7913	-.5010	-.6281	-.7902	-1.0674	-2.4741	
.010		-.6277	-.4417		-1.7885	-1.9389	-2.3177	-2.7516		
.020		-.4774		.0000	-1.6781	-2.0702	-2.5088	-2.8436	-1.9971	
.040			-.4051	-.9340						
.041	-.3535									
.060					-1.6033	-1.9952	-2.4516	-2.6745		
.069									-1.7115	
.080					-1.5498					
.081				-.8745						
.086			-.4563							
.094		-.5248								
.113	-.2304									
.150					-1.1328	-1.3729	-1.3884	-1.3996		
.157									-1.5630	
.163			.0000							
.177				-.8742						
.229		-.6805								
.245			-.7992							
.247	-.1607									
.250					-.7982	-1.0088	-1.1009	-1.1325		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (5) = 12.055 BETA (3) = .165

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				-.7732						
.345									-1.5611	
.362		-.5614								
.390			-.7063							
.400					-.5053	-.4694		-.6850		
.402				-.4697						
.418										-1.6520
.429	-.2411									
.497		.6853								
.503									-1.4254	
.547	-.5458									
.550					-.3520	-.2461				
.565				-.2201						
.600								-.3638		
.633	-.4806									
.637			-.2851							
.650							-.1580			
.670									-.9651	
.700		-.1154				-.1081				
.723										-.7849
.725					-.0220					
.727	-.1540									
.750							-.0434	-.1691		
.760				-.1591						
.775					.1099	-.0744				
.793	.0811									
.798			-.0954							
.808				-.0595						
.834		-.0368								
.839			.1137							
.850					.1076	-.0592	-.0060			
.857				-.0794						
.862									-.6668	
.865		.1339								
.879			.0860							
.900		.0877			.0838			-.0545		
.905				-.0796						
.919			.0577							
.950					.0987	.0235	.0302			
.953				-.0578						
.965			.0605							
.985		.0860								

AMES 11-073 OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU56)

ALPHA (S) = 12.053 BETA (4) = 4.239 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8945

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.5269	-1.0021	-.6148	-.9108	-.6902	-.8579	-1.0303	-1.3036	-2.5481	
.010		-.5522	-.4731		-1.8446	-2.1063	-2.5345	-2.5813		
.020		-.5354		.0000	-1.6743	-2.1940	-2.6779	-2.5656	-1.6234	
.040			-.4840	-.7452						
.041	-.4949									
.050					-1.5243	-1.9527	-2.5638	-2.2670		
.069									-1.5398	
.080					-1.4332					
.081				-.8161						
.086			-.5163							
.094		-.5771								
.113	-.2623									
.150					-.9910	-1.2910	-1.3600	-1.7656		
.157									-1.4128	
.163			.0000							
.177				-.8197						
.229		-.7113								
.246			-.8679							
.247	-.2056									
.250					-.7815	-.9186	-1.0484	-1.1629		
.274				-.7579						
.345									-1.2128	
.352		-.5157								
.390			-.8593							
.400					-.5588	-.4859		-.6164		
.402				-.6288						
.418										-1.1118
.429	-.2567									
.497		-.6297								
.503									-1.0937	
.547	-.5351									
.550					-.2939	-.3335				
.565				-.4971						
.600								-.2697		
.633	-.4983									
.637			-.2337							
.650							-.2200			
.670									-.8179	
.700		-.1479				-.1829				
.723										-.5770
.725					-.0936					
.727	-.1845									
.750							-.1339	-.1071		
.760				-.2052						
.775					-.0455	-.0485				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBUS6)

ALPHA (5) = 12.053 BETA (4) = 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										
.793	.0270									
.798			-.0943							
.808				-.0261						
.834		-.0740								
.839			.1184							
.850					-.0487	-.0180	-.0862			
.857				-.0087						
.862									-.5857	
.865		.0837								
.879			.0841							
.900		.0429			-.1029			-.0739		
.905				.0057						
.919			.0517							
.950					-.0858	.0625	-.0183			
.953				.0362						
.955			.0494							
.965		.0521								

ALPHA (5) = 12.101 BETA (5) = 8.299 MACH = .50670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.6902	-1.0944	-.5650	-.9969	-.9185	-1.1143	-1.2889	-1.5246	-1.5402	
.010		-.6026	-.5226		-1.9006	-2.3183	-2.7258	-2.2646		
.020		-.6012		.0000	-1.6396	-2.3591	-2.8440	-2.1107	-1.2422	
.040			-.5278	-.7532						
.041	-.7209									
.060					-1.4155	-1.8208	-2.6591	-1.8956		
.079									-1.2091	
.080					-1.2387					
.081				-.7879						
.098			-.5747							
.099		-.6398								
.113	-.3539									
.150					-.9121	-1.2076	-1.2958	-1.6984		
.157									-1.0685	
.183			.0000							
.177				-.8036						
.229		-.8592								
.245			-1.0258							
.247	-.2614									
.250					-.8057	-.8213	-.9875	-1.3469		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U56)

ALPHA (5) = 12.101 BETA (5) = 8.299

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				-.7793						
.345									-.9061	
.362		-.4278								
.390			-.7420							
.400					-.5450	-.5609		-.7280		
.402				-.7899						
.418										-.8398
.429	-.2479									
.497		-.6289								
.503									-.8827	
.547	-.5163									
.550					-.3749	-.3988				
.565				-.5113						
.600								-.3492		
.633	-.4891									
.637			-.2501							
.650							-.3052			
.670									-.6959	
.700		-.1911				-.2167				
.723										-.4941
.725					-.2096					
.727	-.2049									
.750							-.1731	-.1766		
.760				-.1968						
.775					-.2454	-.0673				
.793	-.0119									
.798			-.1182							
.808				-.0077						
.834		-.1208								
.839			.0698							
.850					-.2379	-.0680	-.1077			
.857				.0049						
.862									-.5261	
.865		.0316								
.879			.0368							
.900		.0018			-.2677			-.0942		
.905				.0153						
.919			.0202							
.950					-.1884	.0120	-.0281			
.953				.0448						
.955			.0339							
.965		0171								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6600 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 55.000
BOFLAP = 16.300 L-ELVN = 4.000
R-ELVN = -4.000 MACH = 1.400

ALPHA (1) = -4.026 BETA (1) = -3.843 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1292	-.0952	-.1001	.2986	.7041	.6539	.6095	.6300	-.3079	
.010		-.0259	.0097		.7516	.7384	.6997	.6270		
.020		-.0216		.0000	.6702	.6403	.6133	.5867	.0185	
.040			.0591	.3951						
.041	-.0443									
.050					.4614	.4324	.4139	.4082		
.069									-.0340	
.080					.2821					
.081				.3041						
.086			.1698							
.094		-.0181								
.113	-.0261									
.150					.0499	.0613	.0988	.1218		
.157									-.1695	
.163			.0000							
.177				.1155						
.229		.0614								
.246			.1051							
.247	-.0237									
.250					-.0839	-.0946	-.0825	-.0863		
.274				-.0182						
.315									-.2074	
.362		.1461								
.390			-.0089							
.400					-.2094	-.2530		-.2813		
.402				-.1769						
.418										-.3841
.429	.0586									
.497		.0056								
.503									-.2464	
.547	.0737									
.550					-.2601	-.2979				
.565				-.1748						
.600								-.3546		
.633	-.0258									
.637			-.1451							
.650							-.3532			
.670									-.3829	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (1) = -4.026 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		-.1198				-.3123				
.723									-.3444	
.725					-.0616					
.727	-.1047									
.750							-.3991	-.4077		
.760				.0079						
.775					-.0125	-.2024				
.793	.2528									
.798			.0628							
.808				.0714						
.834		.1217								
.839			.0640							
.850					.0494	-.1270	-.3764			
.857				.0407						
.862									.3257	
.865		-.0571								
.879			.0219							
.900		.0439			.0256			-.3341		
.905				.0238						
.919			.0200							
.950					.0287	.0141	-.1630			
.953				.0337						
.955			.0091							
.965		.0644								

ALPHA (1) = -3.938 BETA (2) = .202 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1541	-.0669	-.0526	.2620	.6322	.5634	.5196	.5354	-.3728	
.010		-.0467	.0023		.6623	.6488	.6114	.5449		
.020		-.0567		.0000	.5868	.5534	.5313	.5067	-.0652	
.040			.0338	.3140						
.041	-.1055									
.050					.3938	.3628	.3473	.3456		
.069									-.1052	
.080					.2208					
.081				.2395						
.086			.1309							
.094		-.0453								
.113	-.0894									
.150					.0245	.0342	.0654	.0897		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11T073 1)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (1) = -3.938 BETA (2) = .202

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									-.2221	
.163			.0000							
.177				.0869						
.229		.0355								
.246			.0676							
.247	-.0483				-.0929	-.0998	-.1034	-.1078		
.250										
.274				-.0251					-.2451	
.345										
.362		.1165								
.390			-.0226							
.400					-.2042	-.2513		-.2898		
.402				-.1820						-.4470
.418										
.429	.0322									
.497		-.0249							-.2714	
.503										
.547	.0488									
.550					-.2494	-.2847				
.565				-.1664						
.600								-.3632		
.633	-.0583									
.637			-.0467							
.650							-.3412			
.670									-.3906	
.700		-.0735				-.2797				-.4060
.723										
.730					-.0150					
.747	-.0995									
.750							-.3881	-.4233		
.760				.0380						
.775					-.0465	-.1235				
.793	.2956									
.798			.0532							
.808				.0021						
.834		.0895								
.839			.0011							
.850					.0419	-.0754	-.2995			
.857				-.0107					-.3304	
.862										
.865		-.1074								
.879			-.0349							
.900		-.0099			.0014			-.3415		
.905				-.0291						
.919			-.0264							

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (1) = -3.938 BETA (2) = .202

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					-.0050	-.0025	-.1403			
.953				-.0144						
.955			-.0342							
.965		-.0031								

ALPHA (1) = -4.001 BETA (3) = 4.282 MACH = 1.3927 Q = 599.59 P' = 441.59 RN/L = 2.8055

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1666	-.0776	-.0278	.2504	.5609	.4763	.4287	.4363	-.4209	
.010		-.0821	.0008		.5739	.5539	.5201	.4557		
.020		-.0996		.0000	.5032	.4642	.4486	.4235	-.1403	
.040			.0245	.2619						
.041	-.1593									
.050					.3328	.2963	.2819	.2809		
.069									-.1697	
.080					.1845					
.091				.1993						
.095			.1049							
.094		-.0643								
.113	-.1463									
.150					.0121	.0049	.0360	.0498		
.157									-.2647	
.163			.0000							
.177				.0648						
.229		.0174								
.246			.0496							
.247	-.0627									
.250					-.1040	-.1137	-.1167	-.1291		
.274				-.0302						
.345										
.362		.1083							-.2767	
.390			-.0255							
.400					-.2100	-.2497		-.2991		
.402				-.1825						
.418										
.429	.0258									-.4873
.447		-.0394								
.503										
.547	.0377								-.2978	
.550					-.2428	-.2856				
.565				-.1546						

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (1) = -4.001 BETA (3) = 4.282

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.630								-.3723		
.633	-.0843									
.637			.0346							
.650							-.3299			
.670									-.3932	
.700		-.0222				-.1304				
.723										-.4419
.725					.0245					
.727	-.0947									
.750							-.3749	-.4175		
.760				.0376						
.775					-.0374	-.0914				
.793	.3012									
.798			.0412							
.808				-.0188						
.834		.0775								
.839			-.0272							
.850					.0164	-.0453	-.2025			
.857				-.0430						
.862									-.3302	
.865		-.1263								
.879			-.0655							
.900		-.0432			-.0286			-.2624		
.905				-.0647						
.919			-.0601							
.950					-.0395	-.0129	-.1030			
.953				-.0522						
.955			-.0683							
.965		-.0425								

ALPHA (2) = .015 BETA (1) = -3.863 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0338	.0188	.0159	.4074	.7552	.7095	.6757	.6872	-.1411	
.010		.0214	.0395		.6049	.6454	.6037	.5090		
.020		-.0006		.0000	.5027	.5051	.4850	.4559	.0124	
.040			.0542	.2469						
.041	-.0359									
.050					.2825	.2728	.2581	.2585		
.069									-.0570	
.080					.1127					

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (2) = .015 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				.1214						
.086			.1103							
.094		-.0555								
.113	-.0336									
.150					-.0842	-.0779	-.0340	-.0109		
.157									-.2155	
.163			.0000							
.177				-.0206						
.229		-.0039								
.246			.0007							
.247	-.0537									
.250					-.2274	-.2282	-.2110	-.1962		
.274				-.1[illegible]						
.345									-.2731	
.362		.0664								
.390			-.1193							
.400					-.3243	-.3694		-.3756		
.402				-.2748						
.418										-.1767
.429	.0100									
.497		-.0808								
.503									-.3228	
.547	.0053									
.550					-.3583	-.4025				
.565				-.2732						
.600								-.4085		
.633	-.1176									
.657			-.2295							
.650							-.4434			
.670									-.4536	
.700		-.1969				-.4042				
.723										-.2267
.725					-.1943					
.727	-.1711									
.750							-.4934	-.4737		
.760				-.1172						
775					-.1957	-.3808				
.793	.0290									
.798			-.0679							
.808				-.0428						
.834		.0236								
.839			.0033							
.850					-.1100	-.2194	-.4605			
.857				-.0109						
.862									-.4384	

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (2) = .015 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		-.1135								
.879			-.0057							
.900		-.0001			-.0783			-.4120		
.905				-.0106						
.919			-.0152							
.950					-.0216	-.1875	-.2665			
.953				-.0093						
.955			-.0166							
.965		.0037								

ALPHA (2) = .021 BETA (2) = .195 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0523	-.0[illegible]1	-.0289	.3516	.6651	.6173	.5828	.5878	-.1957	
.010		-.0[illegible]5	-.0149		.4926	.5428	.5081	.4204		
.020		-.0651		.0000	.4017	.4127	.3958	.3728	-.0601	
.040			.0130	.1697						
.041	-.0890									
.050					.2135	.2044	.1922	.1925		
.069									-.1214	
.090					.0615					
.091				.0672						
.095			.0717							
.094		-.1117								
.113	-.0985									
.150					-.1167	-.1120	-.0758	-.0472		
.157									-.2587	
.163			.0000							
.177				-.0502						
.223		-.0220								
.246			-.0290							
.247	-.1022									
.250					-.2337	-.2488	-.2372	-.2209		
.274				-.1544						
.345									-.3020	
.362		.0431								
.390			-.1236							
.400					-.3106	-.3711		-.3905		
.402				-.2694						
.419										-.1993
.429	-.0106									

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (2) = .021 BETA (2) = .195

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

Z/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.497		-.1018								
.503									-.3425	
.547	-.0142									
.550					-.3441	-.3941				
.585				-.2685						
.600								-.4261		
.633	-.1463									
.637			-.2231							
.650							-.4415			
.670									-.4440	
.700		-.1938				-.3801				
.723										-.2587
.725					-.1376					
.727	-.1709									
.750							-.4716	-.4833		
.760				-.0948						
.775					-.1736	-.2715				
.793	.1335									
.798			-.0455							
.808				-.0774						
.834		.0182								
.839			-.0703							
.850					-.0996	-.1903	-.3938			
.857				-.0575						
.862									-.4156	
.865		-.1543								
.879			-.0679							
.900		-.0589			-.0715			-.4165		
.905				-.0583						
.919			-.0571							
.920					-.0377	-.1169	-.2158			
.953				-.0514						
.955			-.0566							
.965		-.0658								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (2) = .016 BETA (3) = 4.282 MACH = 1.3931 Q = 1599.59 P = 441.36 RN/L = 2.9062

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0686	-.1008	-.0873	.2921	.5833	.5330	.4917	.4990	-.2049	
.010		-.1328	-.0544		.3889	.4419	.4112	.3268		
.020		-.1422		.0000	.3156	.3247	.3110	.2873	-.1219	
.040			-.0203	.1165						
.041	-.1341									
.050					.1539	.1349	.1241	.1268		
.069									-.1751	
.080					.0159					
.081				.0338						
.085			.0355							
.094		-.1581								
.113	-.1580									
.150					-.1311	-.1468	-.1120	-.0863		
.157									-.2961	
.163			.0000							
.177				-.0677						
.229		-.0315								
.246			-.0343							
.247	-.1329									
.250					-.2245	-.2666	-.2567	-.2487		
.274				-.1447						
.345									-.3210	
.362		.0440								
.390			-.1242							
.400					-.3052	-.3572		-.4047		
.402				-.2627						
.413										-.1555
.429	-.0139									
.497		-.1072								
.503									-.3492	
.547	-.0207									
.550					-.3394	-.3821				
.565				-.2597						
.600								-.4475		
.633	-.1666									
.637			-.1542							
.650							-.4291			
.670									-.4375	
.700		-.1709				-.3274				
.723										-.3613
.725					-.1313					
.727	-.1696									
.750							-.4585	-.4887		
.760				-.0786						
.775					-.1563	-.2173				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (2) = .015 BETA (3) = 4.262

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	.1687									
.798			-.0414							
.808				-.0970						
.834		.0037								
.839			-.1052							
.850					-.0882	-.1937	-.2802			
.857				-.0939						
.862									-.4055	
.865		-.1756								
.879			-.1079							
.900		-.0907								
.905					- 0754			-.2596		
.919				-.0933						
.950			-.0920							
.953					-.0635	-.0758	-.2158			
.955				-.0849						
.965			-.0880							
		-.1093								

ALPHA (3) = 3.900 BETA (1) = -3.867 MACH 1.3926 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0531	.0285	-.0397	.3803	.7505	.7389	.7177	.7060	.0777	
.010		-.0177	-.0551		.3842	.4960	.4618	.3501		
.020		-.0340		.0000	.2867	.3316	.3236	.2843	-.0531	
.040			-.0459	.0468						
.041	-.0211									
.050					.0797	.1057	.0975	.0886		
.060									-.0983	
.080					-.0751					
.081				-.0617						
.086			-.0092							
.094		-.0828								
.113	-.0381									
.150					-.2851	-.2345	-.1823	-.1498		
.157									-.2731	
.163			.0000							
.177				-.1876						
.229		-.0837								
.246			-.1239							
.247	-.0618									
.250					-.3534	-.3652	-.3368	-.3049		

AMES 11-073(OA143) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (3) = 3.900 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										
.274				-.2769						
.345									-.3428	
.362		-.0229								
.390			-.2189							
.400					-.4347	-.4775		-.4556		
.402				-.3610						
.418										-.1322
.429	-.0540									
.497		-.1595								
.503									-.4195	
.547	-.0620									
.550					-.4459	-.5114				
.555				-.3539						
.600								-.4707		
.633	-.2110									
.637			-.3064							
.650							-.5029			
.670									-.5588	
.700		-.2732				-.5092				
.723										-.4748
.725					-.2723					
.727	-.2426									
.750							-.4093	-.4634		
.760				-.1694						
.775					-.3072	-.4408				
.793	-.1652									
.798			-.1621							
.809				-.1989						
.834		-.0643								
.839			-.1188							
.850					-.2352	-.2776	-.3863			
.857				-.1416						
.862									-.6229	
.865		-.1626								
.879			-.0715							
.900		-.0359			-.2218			-.3675		
.905				-.0942						
.919			-.0483							
.930					-.1602	-.2454	-.3403			
.953				-.0558						
.955			-.0414							
.965		-.0442								

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) PAGE 4691

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (3) = 4.005 BETA (2) = .197 MACH = 1.3925 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION (1) LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.009	.0224	-.0730	-.2050	.2528	.6454	.6392	.6231	.6027	.0235	
.010		-.1329	-.2055		.2645	.3786	.3526	.2465		
.020		-.1377		.0000	.1780	.2312	.2281	.1917	-.1175	
.040			-.1532	-.0272						
.041	-.0728									
.050					.0029	.0271	.0249	.0169		
.069									-.1599	
.080					-.1309					
.081				-.1127						
.085			-.0746							
.094		-.1460								
.113	-.1003									
.150					-.3148	-.2744	-.2274	-.1957		
.157									-.3146	
.163			.0000							
.177				-.2094						
.229		-.1254								
.246			-.1416							
.247	-.1161									
.250					-.3623	-.3896	-.3639	-.3364		
.274				-.2802						
.345									-.3738	
.362		-.0356								
.390			-.2180							
.400					-.4254	-.4862		-.4719		
.402				-.3506						
.418										-.2548
.429	-.0697									
.497		-.1744								
.503									-.4392	
.547	-.0808									
.550					-.4166	-.5025				
.555				-.3433						
.600								-.4867		
.633	-.2331									
.637			-.3010							
.650							-.5133			
.670									-.5636	
.700		-.2743				-.4841				
.723										-.5807
.725					-.2104					
.727	-.2428									
.750							-.4251	-.4747		
.760				-.1626						
.775					-.2694	-.3235				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (3) = 4.005 BETA (2) = .197

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	-.0020									
.798			-.1300							
.808				-.1864						
.834		-.0231								
.839			-.1312							
.850					-.2401	-.1977	-.3893			
.857				-.1755						
.862									-.6290	
.855		-.1843								
.879			-.1399							
.900		-.1012			-.2161			-.3561		
.905				-.1353						
.919			-.0891							
.950					-.1471	-.1428	-.3315			
.953				-.0939						
.955			-.0744							
.965		-.0932								

ALPHA (3) = 3.907 BETA (3) = 4.252 MACH = 1.3926 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0096	-.2182	-.4142	.1347	.5381	.5413	.5248	.5109	-.0601	
.010		-.2738	-.3593		.1481	.2675	.2424	.1436		
.020		-.2506		.0000	.0712	.1315	.1306	.0943	-.1941	
.040			-.2245	-.0869						
.041	-.1132									
.060					-.0642	-.0453	.0491	-.0603		
.069									-.2242	
.080					-.1764					
.081				-.1450						
.095			-.1178							
.094		-.2071								
.113	-.1543									
.160					-.3203	-.3070	-.2707	-.2427		
.157									-.3538	
.163			.0000							
.177				-.1995						
.229		-.1245								
.245			-.1328							
.247	-.1576									
.250					-.3526	-.4064	-.3910	-.3670		

ALPHA (3) = 3.907 BETA (3) =

SECTION (1)LEFT WING TOP SURF [illegible] JENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.274				-.2569						
.345									-.4089	
.362		-.0284								
.390			-.2066							
.400					-.3916	-.4779		-.4902		
.402				-.3309						
.418										-.4097
.429	-.0675									
.497		-.1730								
.503									-.4608	
.547	-.0779									
.550					-.4020	-.4801				
.565				-.3302						
.600								-.4966		
.633	-.2421									
.637			-.2960							
.650							-.5243			
.670									-.5768	
.700		-.2714				-.3988				
.723										-.6575
.725					-.1954					
.727	-.2382									
.750							-.4860	-.4390		
.760				-.1542						
.775					-.2628	-.2913				
.793	.1075									
.798			-.0871							
.808				-.1913						
.834		-.0255								
.839			-.1569							
.850					-.2369	-.2035	-.3614			
.857				-.1851						
.862									-.6244	
.865		-.2182								
.879			-.1708							
.880		-.1214			-.2077			-.3372		
.905				-.1539						
.913			-.1055							
.950					-.1379	-.1365	-.3051			
.953				-.1175						
.955			-.1032							
.965		-.1267								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (4) = 7.945 BETA (1) = -3.862 MACH = 1.3931 Q = 599.59 P = 441.38 RN/L = 2.8969

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	.0937	-.0667	-.2193	.2672	.6900	.7127	.7034	.6713	.0156	
.010		-.1528	-.2465		.1547	.3052	.2694	.1362		
.020		-.1388		.0000	.0477	.1358	.1343	.0758	-.2323	
.040			-.1791	-.1559						
.041	-.0203									
.050					-.1246	-.0752	-.0782	-.1037		
.069									-.2551	
.080					-.2507					
.081				-.2563						
.086			-.1263							
.094		-.1191								
.113	-.0355									
.150					-.4234	-.3677	-.3283	-.2972		
.157									-.3952	
.163			.0000							
.177				-.3851						
.229		-.1219								
.246			-.2710							
.247	-.0594									
.250					-.5135	-.4800	-.4469	-.4148		
.274				-.4283						
.345									-.4876	
.362		-.1179								
.390			-.3321							
.400					-.5720	-.5689		-.5288		
.402				-.4462						
.418										-.3906
.429	-.1125									
.497		-.2610								
.503									-.5125	
.547	-.1670									
.550					-.5642	-.5793				
.565				-.4207						
.600								-.4940		
.633	-.3030									
.637			-.3927							
.650							-.5263			
.670									-.5744	
.700		-.3639				-.4971				
.723										-.5766
.725					-.3579					
.727	-.3140									
.750							-.4234	-.4406		
.760				-.2450						
.775					-.4469	-.4433				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (4) = 7.945 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	-.2835									
.798			-.2076							
.808				-.2974						
.934		-.1366								
.839			-.2452							
.850					-.2842	-.4056	-.4308			
.857				-.2639						
.862									-.5535	
.865		-.2125								
.879			-.1865							
.900		-.0874			-.2385			-.4392		
.905				-.1952						
.919			-.0848							
.950					-.1643	-.3286	-.4152			
.953				-.1226						
.955			-.0280							
.965		-.0608								

ALPHA (4) = 7.917 BETA (2) = .187 MACH = 1.3931 Q = 599.59 P = 441.38 RN/L = 2.8969

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0375	-.2224	-.4401	.0593	.5382	.5826	.5805	.5451	-.1438	
.010		-.3007	-.3911		-.0029	.1470	.1215	.0053		
.020		-.2754		.0000	-.1098	.0018	.0099	-.0494	-.3476	
.040			-.3192	-.2911						
.041	-.0650									
.050					-.2540	-.1865	-.1747	-.2020		
.069									-.3545	
.080					-.3509					
.081				-.3469						
.086			-.2295							
.094		-.1843								
.113	-.0976									
.150					-.4830	-.4224	-.3839	-.3557		
.157									-.4537	
.163			.0000							
.177				-.4423						
.229		-.1824								
.245			-.2766							
.247	-.1151									
.250					-.5357	-.5119	-.4842	-.4547		

DATE 11 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) (XEBU57)

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

ALPHA (4) = 7.917 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										
.274				-.3662					-.5205	
.345										
.362		-.1516								
.390			-.3037							
.400					-.5457	-.5829		-.5291		
.402				-.4083						-.5334
.418										
.429	-.1674									
.497		-.2654							-.5517	
.503										
.547	-.1573									
.550					-.4701	-.5872				
.565				-.4000						
.600								-.5079		
.633	-.3073									
.637			-.3909							
.650							-.5316			
.670									-.5319	
.700		-.3525				-.4948				
.723										-.5178
.725					-.2549					
.727	-.3024									
.750							-.4444	-.4625		
.760				-.2035						
.775					-.3058	-.4335				
.793	-.1282									
.798			-.1844							
.808				-.2918						
.834		-.0459								
.839			-.2185							
.850					-.2715	-.3833	-.4467			
.857				-.2747						
.862									-.5309	
.865		-.2025								
.879			-.2024							
.900		-.1183			-.2559			-.4649		
.905				-.2455						
.913			-.1385							
.950					-.2383	-.3501	-.4230			
.953				-.1619						
.955			-.0962							
.965		-.1266								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (4) = 7.848 BETA (3) = 4.251 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0186	-.4001	-.4145	-.1[illegible]	3680	.4439	4484	.4133	-.3069	
.010		-.3829	-.4136		.1671	.0152	-.0151	-.1121		
.020		-.3826		[illegible]	-.2599	-.1100	-.1064	-.1562	-.4519	
.040			-.3956	-.3265						
.041	-.1111									
.050					-.3771	-.2688	-.2584	-.2892	-.4810	
.069										
.080					-.4407					
.081				-.3090						
.086			-.3712							
.094		-.3675								
.113	-.1554									
.150					-.4984	-.4635	-.4300	-.4094	-.5025	
.157										
.163			.0000							
.177				-.3159						
.229		-.2052								
.245			-.4230							
.247	-.1745									
.250					-.4744	-.5387	-.5140	-.4894		
.274				-.3362						
.345									-.5243	
.362		-.1083								
.390			-.2745							
.400					-.4459	-.5929		-.5245		
.402				-.3839						
.418										-.5238
.429	-.1589									
.497		-.2383							-.5305	
.503										
.547	-.1402									
.550					-.4390	-.5720				
.565				-.4049						
.600								-.5219		
.633	-.2976									
.637			-.3717							
.650							-.5311			
.670									-.5011	
.700		-.3240				-.4539				
.723										-.4782
.725					-.2527					
.727	-.2056									
.750							-.4525	-.4433		
.760				-.1801						
.775					-.3296	-.4165				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (4) = 7.848 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	.0292									
.798			-.1514							
.808				-.2668						
.834		-.1064								
.839			-.2308							
.850					-.2774	-.2674	-.4471			
.857				-.2562						
.862									-.4921	
.865		-.2452								
.879			-.2022							
.900		-.1716			-.2437			-.4262		
.905				-.2436						
.919			-.1379							
.950					-.2086	-.2141	-.3987			
.953				-.1820						
.955			-.1673							
.985		-.1730								

ALPHA (5) = 11.907 BETA (1) = -3.847 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	.0223	-.2401	-.3698	.1093	.5994	.6422	.6343	.5717	-.1826	
.010		-.2839	-.3312		-.0305	.1180	.0583	-.0778		
.020		-.2747		.0000	-.1404	-.0324	-.0608	-.1290	-.4907	
.040			-.2730	-.3269						
.041	-.0129									
.050					-.2891	-.2224	-.2312	-.2788		
.069									-.4900	
.080					-.3886					
.081				-.3843						
.086			-.2046							
.094		-.2020								
.113	-.0376									
.150					-.5154	-.4641	-.4302	-.4180		
.157									-.5417	
.163			.0000							
.177				-.4748						
.209		-.1717								
.245			-.2900							
.247	-.0570									
.250					-.5799	-.5351	-.5207	-.4992		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (5) = 11.907 BETA (1) = -3.847

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				-.4705						
.345									.5535	
.352		-.1575								
.390			-.3753							
.400					-.5581	-.5057		-.5113		
.402				-.4953						
.418										-.5442
.429	-.1332									
.497		-.3596								
.503									-.5601	
.547	-.2004									
.550					-.5097	-.5065				
.565				-.4774						
.600								-.5117		
.633	-.3984									
.637			-.4732							
.650							-.4989			
.670									-.5251	
.700		-.4661				-.4970				
.723										-.4923
.725					-.4843					
.727	-.4083									
.750							-.4475	-.4788		
.760				-.3262						
.775					-.4603	-.4432				
.793	-.3790									
.798			-.2275							
.808				-.4431						
.834		-.1743								
.849			-.3204							
.860					-.4308	-.4333	-.4536			
.867				-.3835						
.882									-.5199	
.885		-.2446								
.879			-.2512							
.900		-.0148			-.4064			-.5158		
.905				-.2830						
.919			-.2325							
.950					-.3786	-.3728	-.4274			
.953				-.2633						
.955			-.2280							
.965		-.1124								

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (5) = 11.890 BETA (2) = .186 MACH = 1.3946 Q = 600.23 P = 540.88 RN/L = 2.9052

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.0616	-.3627	-.3618	-.0890	.4319	.4861	.4817	.4202	-.3471	
.010		-.3125	-.3597		-.1749	-.0295	-.0854	-.1986		
.020		-.3047		.0000	-.2736	-.1672	-.1907	-.2526	-.5778	
.040			-.3438	-.3770						
.041	-.0817									
.050					-.3950	-.3268	-.3327	-.3716		
.069									-.5556	
.080					-.4759					
.081				-.4134						
.086			-.3162							
.094		-.3499								
.113	-.1036									
.150					-.5733	-.5206	-.4888	-.4807		
.157									-.5506	
.163			.0000							
.177				-.4347						
.229		-.4147								
.246			-.3842							
.247	-.1054									
.250					-.6189	-.5905	-.5622	-.5444		
.274				-.4635						
.345									-.5605	
.352		-.2950								
.390			-.4049							
.400					-.5828	-.5682		-.5456		
.402				-.4982						
.418										-.5869
.429	-.1929									
.497		-.4085								
.503									-.5679	
.547	-.2660									
.550					-.5655	-.5689				
.585				-.4750						
.600								-.5492		
.633	-.4106									
.637			-.4857							
.650							-.5366			
.670									-.5336	
.700		-.4263				-.5408				
.723										-.5037
.725					-.4832					
.727	-.3932									
.750							-.4667	-.5039		
.760				-.2359						
.775					-.5416	-.4894				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (5) = 11.890 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	-.1961									
.798			-.2220							
.808				-.3423						
.834		-.1663								
.839			-.3104							
.850					-.4405	-.4172	-.4768			
.857				-.3384						
.862									-.5314	
.865		-.2666								
.879			-.2558							
.900		-.1616			-.3101			-.5304		
.905				-.3051						
.919			-.1695							
.950					-.3047	-.3552	-.4292			
.953				-.3412						
.955			-.2205							
.965		-.1462								

ALPHA (5) = 11.884 BETA (3) = 4.265 MACH = 1.3946 Q = 600.23 P = 440.86 RN/L = 2.9052

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.000	-.1422	-.3982	-.4059	-.3036	.2503	.3108	.3037	.2429	-.4675	
.010		-.3799	-.4067		-.3173	-.1727	-.2232	-.3334		
.020		-.3799		.0000	-.3936	-.2978	-.3202	-.3727	-.5489	
.040			-.4114	-.3888						
.041	-.1720									
.060					-.4903	-.4236	-.4321	-.4676		
.069									-.5475	
.080					-.5501					
.081				-.4169						
.086			-.3833							
.094		-.4393								
.113	-.1625									
.150					-.5840	-.5769	-.5494	-.5466		
.157									-.5489	
.163			.0600							
.177				-.4245						
.229		-.5317								
.245			-.4240							
.247	-.1914									
.250					-.5795	-.6290	-.6071	-.5903		

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (5) = 11.884 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										
.274				-.4132						
.345									-.5602	
.362		-.3984								
.390			-.4084							
.400					-.6049	-.6164		-.5821		
.402				-.4613						
.418										-.5592
.429	-.2687									
.497		-.3667								
.503									-.5662	
.547	-.2349									
.550					-.5470	-.6098				
.565				-.4797						
.600								-.5582		
.633	-.3807									
.637			-.4637							
.650							-.5870			
.670									-.5387	
.700		-.3671				-.5504				
.723										-.5302
.725					-.2774					
.727	-.3046									
.750							-.5336	-.5385		
.760				-.2543						
.775					-.3829	-.5268				
.793	-.0460									
.798			-.2400							
.808				-.3650						
.834		-.1825								
.839			-.3238							
.850					-.3699	-.4385	-.5002			
.857				-.3628						
.862									-.5307	
.865		-.3057								
.879			-.2355							
.900		-.2305			-.3668			-.5194		
.905				-.3095						
.919			-.2331							
.950					-.3372	-.2436	-.4407			
.953				-.2579						
.955			-.2461							
.965		-.2780								

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (G) = 15.871 BETA (1) = -3.822 MACH = 1.3964 Q = 598.94 P = 438.77 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	-.0356	-.3220	-.3023	-.0149	.4878	.5267	.5112	.4187	-.3493	
.010		-.2841	-.2862		-.1847	-.0511	-.1288	-.2810		
.020		-.2732		.0000	-.2861	-.2029	-.2446	-.3256	-.6162	
.040			-.2706	-.3411						
.041	-.1569									
.050					-.4083	-.3540	-.3807	-.4306	-.6193	
.069										
.080					-.4885					
.081				-.3709						
.086			-.2488							
.094		-.2905								
.113	-.0406									
.150					-.5851	-.5431	-.5207	-.5291	-.6077	
.157										
.163			.0000							
.177				-.3986						
.229		-.3606								
.246			-.3652							
.247	-.0818									
.250					-.5718	-.5726	-.5593	-.5777		
.274				-.4338						
.345									-.6174	
.362		-.3784								
.390			-.3998							
.400					-.5651	-.5593		-.5698		
.402				-.4977						
.410										-.6068
.439	-.1610									
.447		-.4811								
.503									-.6198	
.547	-.2491									
.550					-.5754	-.5733				
.565				-.5265						
.600								-.5786		
.633	-.4740									
.637			-.5158							
.650							-.5719			
.670									-.5880	
.700		-.5157				-.5626				
.723										-.5466
.725					-.5317					
.727	-.5295									
.750							-.5117	-.5487		
.760				-.3203						
.775					-.5535	-.5011				

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

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (6) = 15.871 BETA (1) = -3.822

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	-.3938									
.798			-.3006							
.808				-.4168						
.834		-.2613								
.839			-.3684							
.850					-.4724	-.4793	-.5185			
.857				-.4516					-.5700	
.862										
.865		-.2634								
.879			-.3113							
.900		-.2475			-.4519			-.5945		
.905				-.4631						
.919			-.2928							
.930					-.4057	-.4285	-.4896			
.953				-.4497						
.956			-.3220							
.965		-.3573								

ALPHA (6) = 15.883 BETA (2) = .187 MACH = 1.3964 Q = 598.94 P = 438.77 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	-.1393	-.3713	-.3645	-.2371	.3102	.3491	.3339	.2405	-.4600	
.010		-.3651	-.3595		-.3223	-.1940	-.2581	-.3782		
.020		-.3670		.0000	-.3996	-.3249	-.3575	-.4245	-.5798	
.040			-.3588	-.3659						
.041	-.3200									
.050					-.4963	-.4453	-.4668	-.5096		
.069									-.5815	
.080					-.5566					
.081				-.4092						
.088			-.3276							
.094		-.3986								
.113	-.1329				-.6104	-.5914	-.5762	-.5822		
.150									-.5831	
.157										
.163			.0000							
.177				-.4591						
.224		-.4314								
.245			-.4422							
.247	-.1850				-.6192	-.6249	-.5937	-.6064		
.250										

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XE8U57)

ALPHA (6) = 15.883 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										
.274				-.4967						
.345										
.362		-.4755							-.6040	
.390			-.4716							
.400										
.402					-.6052	-.6068		-.5976		
.418				-.5431						
.429	-.2603									-.6200
.497		-.5291								
.503										
.547	-.3501								-.6085	
.560										
.565					-.6061	-.6154				
.600				-.5280						
.633	-.5024							-.5883		
.637			-.5218							
.650										
.670							-.5947			
.700		-.5035							-.5663	
.723						-.5997				
.725										-.5543
.727	-.5200				-.5452					
.750										
.760							-.5461	-.5646		
.775				-.3550						
.793	-.3130				-.5599	-.5459				
.798			-.2761							
.808				-.4224						
.834		-.2310								
.839			-.3284							
.850					-.5447	-.5094	-.5468			
.857				-.4308						
.862										
.865		-.3028							-.5660	
.879			-.2865							
.900		-.2405			-.5063					
.905				-.4259				-.5805		
.919			-.3319							
.950					-.3806	-.3929	-.5032			
.953				-.4448						
.965			-.3617							
.965		-.2927								

AMES 11-073(OA148) -140A/B/C/R ORP LEFT WING TOP (XE8U57)

ALPHA (6) = 15.915 BETA (3) = 4.292 MACH = 1.3964 Q = 598.94 P = 438.77 RN/L = 2.9066

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7000	.8870	.9720	1.0000
X/CW										
.000	-.2391	-.4149	-.4387	-.4144	.1251	.1767	.1565	.0686	-.5363	
.010		-.4189	-.4425		-.4342	-.3234	-.3779	-.4897		
.020		-.4224		.0000	-.5030	-.4341	-.4603	-.5223	-.5612	
.040			-.4380	-.4104						
.041	-.4328									
.050					-.5703	-.5278	-.5443	-.5817		
.069									-.5593	
.080					-.6118					
.081				-.4301						
.086			-.3984							
.094		-.4514								
.113	-.2220									
.150					-.6178	-.6333	-.6227	-.5919		
.157									-.5577	
.163			.0000							
.177				-.4979						
.229		-.4867								
.246			-.5083							
.247	-.2671									
.250					-.6284	-.6245	-.6115	-.5907		
.274				-.5038						
.345									-.5562	
.362		-.5240								
.390			-.4711							
.400					-.6386	-.6195		-.5802		
.402				-.5045						
.418										-.5549
.429	-.3435									
.497		-.5069								
.503									-.5647	
.547	-.3768									
.550					-.6310	-.6147				
.565				-.5190						
.600								-.5307		
.633	-.4605									
.637			-.4612							
.650							-.5930			
.670									-.5403	
.700		-.4272				-.5838				
.723										-.5380
.725					-.4679					
.727	-.4306									
.750							-.5718	-.5387		
.760				-.3447						
.775					-.5287	-.5608				

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING TOP (XEBU57)

ALPHA (6) = 15.915 BETA (3) = 4.292

SECTION (1)LEFT WING TOP SURF DEPENDENT VARIABLE CP

2Y/BW	.2350	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720	1.0000
X/CW										
.793	-.2212									
.798			-.2829							
.808				-.4386						
.834		-.2264								
.839			-.3824							
.850					-.5199	-.4895	-.5357			
.857				-.3915						
.862									-.5365	
.865		-.3294								
.879			-.2920							
.890		-.2896			-.5194			-.5356		
.903				-.4053						
.919			-.3136							
.950					-.5280	-.4202	-.5220			
.953				-.4195						
.955			-.3381							
.965		-.3255								