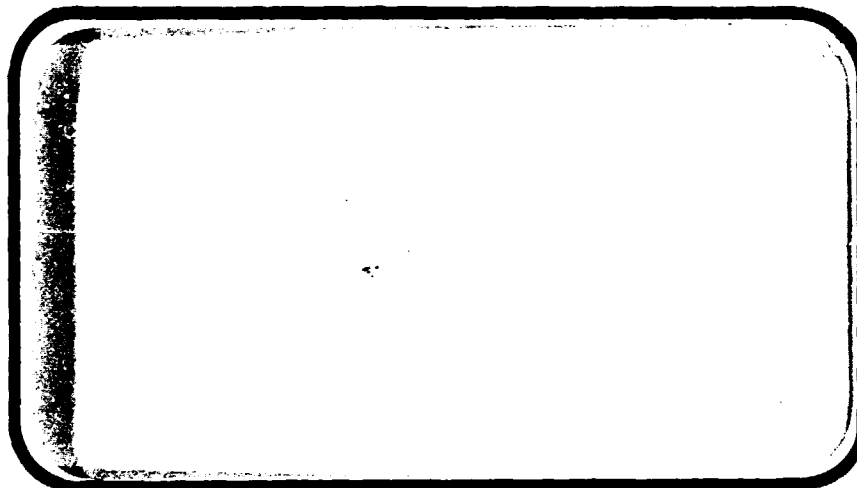




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



NASA-CR-128783) HYPERSONIC PERFORMANCE,
STABILITY AND CONTROL CHARACTERISTICS OF
A .0075 SCALE MODEL ROCKWELL
INTERNATIONAL 089B-139B ORBITER (Chrysler
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services



October, 1973

DMS-DR-2066
NASA-CR-128,783

HYPersonic PERFORMANCE, STABILITY AND CONTROL
CHARACTERISTICS OF A .0075 SCALE MODEL ROCKWELL
INTERNATIONAL O89B-139B ORBITER CONFIGURATION

By

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Prepared under NASA Contract Number NAS 5-13247

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: LaRC CFHT 96
NASA Series No.: LA-11
Date: July 11-20, 1973; 40 Occ. Hr.

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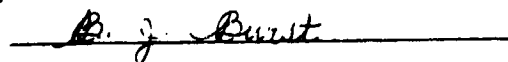
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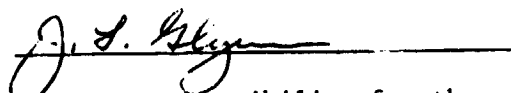
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for N. D. Kemp
Data Management Services



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HYPersonic PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS
OF A .0075 SCALE MODEL ROCKWELL INTERNATIONAL 089B-139B
ORBITER CONFIGURATION

By

R. W. Powell &
T. A. Blackstock

SUMMARY

An investigation was made in the Langley Continuous Flow Hypersonic Tunnel at a Mach Number of 10.3 to study the hypersonic aerodynamic characteristics of a Rockwell International shuttle orbiter configuration. Tests were made at a Reynolds number of $.79 \times 10^6$ based on body length with an angle-of-attack range of 10° to 35° and sideslip variations of $+1^\circ$ to -9° . The effects of elevon and body flap deflection were investigated.

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Effect of Elevator Deflection on Lateral-Directional Derivatives	B	ELEVTR	5
Effect of Aileron Deflection on Basic Longitudinal Characteristics	A	AIIRON	6-9
Effect of Aileron Deflection on Lateral-Directional Derivatives	B	AIIRON	10
Effect of Body Flap Deflection on Basic Longitudinal Characteristics	A	BDFLAP	11-14
Comparison of Aileron Derivatives for Opposite Control Deflection	C	DLTALN	15-16
Basic Aerodynamic Characteristics in Sideslip	D	ALPHA	
($\delta e = -10^\circ$, $\delta a = 0^\circ$)			17-18
($\delta e = -20^\circ$, $\delta a = 0^\circ$)			19-20
($\delta e = -40^\circ$, $\delta a = 0^\circ$)			21-22
($\delta e = +10^\circ$, $\delta a = 0^\circ$)			23-24
($\delta e = -10^\circ$, $\delta a = 10^\circ$)			25-26
($\delta e = -10^\circ$, $\delta a = -10^\circ$)			27-28
($\delta e = -30^\circ$, $\delta a = -10^\circ$)			29-30
($\delta e = -30^\circ$, $\delta a = +10^\circ$)			31-32

INDEX OF DATA FIGURES (CONTINUED)

TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
Effect of Control Deflections in Sideslip	D	ELEVTR	
($\alpha = 10^\circ$)			33-34
($\alpha = 15^\circ$)			35-36
($\alpha = 20^\circ$)			37-38
($\alpha = 25^\circ$)			39-40
($\alpha = 30^\circ$)			41-42
($\alpha = 35^\circ$)			43-44

SCHEDULE OF COEFFICIENTS PLOTTED:

- F
- A) CN, CL, CIM, L/D, CA, CD vs. ALPHA
CN, CL vs. CIM; CD vs. CL
 - B) DCY/DB, DCYNDB, LCELDDB vs. ALPHA
 - C) DCY/DA, DCYNDA, DCELDA vs. ALPHA
 - D) CN, CA, CIM, CY, CYN, CBL vs. BETA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³
<u>Reference & C.G. Definitions</u>		
Ab		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{L}_{REF} c	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
<u>SUBSCRIPTS</u>		
b		base
l		local
s		static conditions
t		total conditions
∞		free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - P_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
<u>Stability-Axis System</u>		
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Concluded)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$C_{Y\beta}$	DCY/DB	side force coefficient derivative with sideslip angle, $\partial C_Y / \partial \beta$, per degree
$C_{n\beta}$	DCYNDB	yawing moment coefficient derivative with sideslip angle, $\partial C_n / \partial \beta$, per degree
$C_{l\beta}$	DCBLDB	rolling moment coefficient derivative with sideslip angle, $\partial C_l / \partial \beta$, per degree
$C_{Y\delta_a}$	DCY/DA	side force coefficient derivative with aileron deflection, $\partial C_Y / \partial \delta_a$, per degree
$C_{n\delta_a}$	DCYNDA	yawing moment coefficient derivative with aileron deflection, $\partial C_n / \partial \delta_a$, per degree
$C_{l\delta_a}$	DCBLDA	rolling moment coefficient derivative with aileron deflection, $\partial C_l / \partial \delta_a$, per degree
δ_{eL}	-	left elevon deflection, trailing edge down positive
δ_{eR}	-	right elevon deflection, trailing edge down positive
δ_a	AILRON	elevon deflection for roll control $\left[(\delta_{eL} - \delta_{eR}) / 2 \right]$, degrees
δ_e	ELEVTR	elevon deflection for pitch control, $\left[(\delta_{eL} + \delta_{eR}) / 2 \right]$, degrees
δ_{BF}	BDFLAP	body flap deflection, trailing edge down positive, degrees

TEST FACILITY DESCRIPTION

The Mach 10 nozzle of the Langley continuous flow hypersonic tunnel is designed to operate at stagnation pressures of 15 to 150 atmospheres at temperatures up to 1960°R. Air is preheated electrically by passing through a multi-tube heater. The nozzle has a 31-inch square test section which incorporates a moveable second minimum. Continuous operation is achieved by passing the air through a series of compressors. Additional information on this facility is given in NASA TM X-1130 entitled, "Characteristics of Major Active Wind Tunnels at the Langley Research Center," by William T. Schaefer, Jr.

CONFIGURATION INVESTIGATED

The configuration tested was a 0.0075 scale model of a blend of Rockwell International shuttle configurations. The model consisted of a 089B configuration with a 139B configuration nose forward of F.S. 500. A sketch of the model is shown in figure 2. All of the tests were made with the rudder flared to form a 10° wedge vertical tail. Tests were made with elevon deflections ranging from +10° to -40° and body flap deflections of 0° and -14.25°.

DATA REDUCTION

A LaRC 2019A six-component strain gage balance was used to measure orbiter aerodynamic forces and moments. All data are presented about a

center of gravity located at 65 percent of the body length. Data were converted to standard NASA coefficients using the following constants:

Reference area, S_{ref} = wing planform area = 21.7886 sq. in.

Reference length, \bar{c} = wing mean aerodynamic chord = 3.561 in.

Reference span, b_{ref} = wing span = 7.025 in.

TABLE I. TEST CONDITIONS

TEST : CFHT 96		DATE : July 1973	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
10.3	$.95 \times 10^6$	1.05	1380
BALANCE UTILIZED: <u>LaRC 2019A</u>			
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>70 lbs</u>	<u>.35</u>	<u>.015</u>
SF	<u>25 lbs</u>	<u>.125</u>	<u>.005</u>
AF	<u>15 lbs</u>	<u>.075</u>	<u>.003</u>
PM	<u>70 In-lbs</u>	<u>.35</u>	<u>.004</u>
RM	<u>25 In-lbs</u>	<u>.125</u>	<u>.0008</u>
YM	<u>15 In-lbs</u>	<u>.075</u>	<u>.0005</u>
COMMENTS:			

TABLE II.

TEST: LARC CFHT 96		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE:																							
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																														
		α	β		δ_{CL}	δ_{ER}	δ_{BF}	10.3	4	5	11	10	9	8	7	6	12	13	21	20	19	18	17	15	32	33	75 76								
RPD001	ROCKWELL ORB 089B	A	0	0	0	-14.25																													
02	W/HOD. NOSE	A	-5	T																															
03		10	B	T																															
04		15	T																																
05		20																																	
06		25																																	
07		30																																	
08		35																																	
09		A	0	-10	-10																														
10		A	-5	T																															
11		10	B																																
12		15	T																																
13		20																																	
14		25																																	
15		30																																	
16		35																																	
17		A	0	-20	-20																														
18		A	-5	-20	-20																														

α OR β SCHEDULES A) 10° → 35°
B) -9° → 1°

COEFFICIENTS

7 13 19 25 31 37 43 49 55 61 67 75 76 IDVAR (1) IDVAR (2) NDV

TABLE II. - (CONTINUED)

TEST: LARC CFHT 96		DATE:				DATA SET / RUN NUMBER COLLATION SUMMARY														MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)								
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	TEST RUN NUMBERS																				
		α	β	δ_{el}	δ_{er}	δ_{BF}		10	3	39	38	37	36	35	34	62	63	69	68	67	66	65	64	78	79	85	84	
RPD019	ROCKWELL ORB ORB	10	B	-20	-20	14.5																						
20	W/MOD. NOSE	15	T	T	T	T																						
21		20	T	T	T	T																						
22		25	T	T	T	T																						
23		30	T	T	T	T																						
24		35	T	T	T	T																						
25		A	O	-40	-40																							
26		A	5	T	T	T																						
27		10	B	T	T	T																						
28		15	T	T	T	T																						
29		20	T	T	T	T																						
30		25	T	T	T	T																						
31		30	T	T	T	T																						
32		35	T	T	T	T																						
33		A	O	10	10																							
34		A	5	T	T	T																						
35		35	B	T	T	T																						
36		30	B	T	T	T																						
7		19																										
		13																										
		25																										
		31																										
		37																										
		43																										
		49																										
		55																										
		61																										
		67																										
		75																										
		76																										
		COEFFICIENTS														IDVAR (1)	IDVAR (2)	NDV										
		COEFFICIENTS																										
		COEFFICIENTS																										
		COEFFICIENTS																										
		COEFFICIENTS																										
		COEFFICIENTS																										

α OR β SCHEDULES

TABLE II. - (CONTINUED)

TEST: LARC C/FHT 96		DATA SET/RUN NUMBER COLLATION SUMMARY											DATE :																							
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																														
		α	β	δ		del	der	def	10.3	83	82	81	80	24	25	31	30	29	28	27	26	41	42	48	47	46	45	43	49	55	61	67	75	76		
RPD037	ROCKWELL CRB. CRB	25	B	10	10	-1.25																														
38	w/MOD. NOSE	20	T	T	T	T																														
39		15	T	T	T	T																														
40		10	T	T	T	T																														
41		A	O	O	-20																															
42		A	-5	T	T																															
43		10	B	T																																
44		15	T	T																																
45		20	T	T																																
46		25	T	T																																
47		30	T	T																																
48		35	T	T																																
49		A	O	-20	O																															
50		A	-5	T	T																															
51		10	B	T																																
52		15	T	T																																
53		20	T	T																																
54		25	T	T																																

α OR β
SCHEDULES

COEFFICIENTS

TABLE III.
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - 089B-139B (Modified Nose)

GENERAL DESCRIPTION : Nose section from full-scale station 238.0 to STA. 500 from NAR drawing VL70-000139B. Remaining body AFT of STA 500 from NAR drawing VL70-000093

Scale Model = .0075

DRAWING NUMBER : VL70-000093

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>1290.3</u>	<u>9.677</u>
Max Width	<u>265.0</u>	<u>1.988</u>
Max Depth	<u>248.0</u>	<u>1.860</u>
Fineness Ratio	<u>4.869</u>	<u>4.869</u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>456.40</u>	<u>.02567</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

MODEL COMPONENT: ELEVON

GENERAL DESCRIPTION: CONFIGURATION PER LINES VL70-000093

DATA FOR (1) OF (2) SIDES

MODEL SCALE = .0075

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>205.517</u>	<u>.0116</u>
Span (equivalent)	<u>353.34</u>	<u>2.650</u>
Inb'd equivalent chord	<u>114.78</u>	<u>.861</u>
Outb'd equivalent chord	<u>55.00</u>	<u>.413</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>-10.02</u>	<u>-10.02</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line)-ft ³	<u>1548.07</u>	<u>.000653</u>

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

MODEL COMPONENT: WING

GENERAL DESCRIPTION: Orbiter Configuration per Lines VL70-000093.

NOTE: (Dihedral angle is defined at the lower surface of the wing at the
75.33% element line projected into a plane perpendicular to the FRL).

SCALE MODEL = .0075

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area	2690.00	.1513
Planform		
Wetted		
Span (equivalent)	936.68	7.025
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	3.000	3.000
Aerodynamic Twist, degrees	+3.000	+3.000
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Wing Sta. 0.0)	689.24	5.169
Tip, (equivalent)	137.85	1.034
MAC	474.81	3.561
Fus. Sta. of .25 MAC	1136.89	8.527
W.P. of .25 MAC	299.20	2.244
B.L. of .25 MAC	182.13	1.366
Airfoil Section		
Root		
Tip		
<u>EXPOSED DATA</u>		
Area	1752.29	.0986
Span, (equivalent)	720.68	5.405
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root	562.40	4.218
Tip	137.85	1.034
MAC	393.03	2.948
Fus. Sta. of .25 MAC	1185.31	8.890
W.P. of .25 MAC	300.20	2.252
B.L. of .25 MAC	143.76	1.078

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

MODEL COMPONENT: Vertical Tail

GENERAL DESCRIPTION: Centerline vertical tail double wedge airfoil with rounded leading edge.

Scale Model = .0075

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>413.25</u>	<u>.0232</u>
Span (equivalent)	<u>315.72</u>	<u>2.368</u>
Inb'd equivalent chord	<u>268.50</u>	<u>2.014</u>
Outb'd equivalent chord	<u>108.47</u>	<u>.814</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u> </u>	<u> </u>
At Outb'd equiv. chord	<u> </u>	<u> </u>
Sweep Back Angles, degrees		
Leading Edge	<u>45</u>	<u>45</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline	<u> </u>	<u> </u>
Area Moment (Normal to hinge line)	<u> </u>	<u> </u>

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONCLUDED)

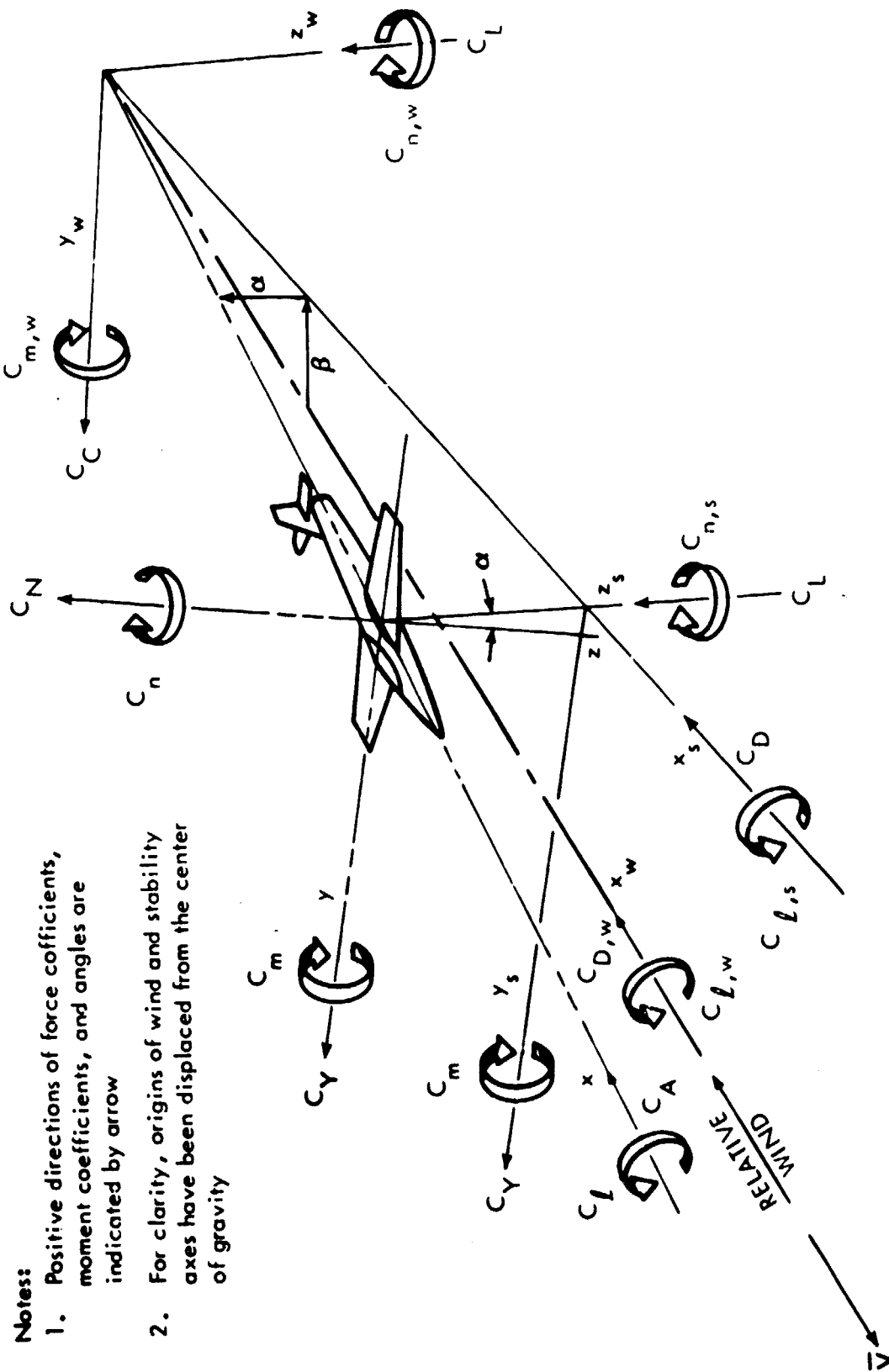
MODEL COMPONENT: RUDDER

GENERAL DESCRIPTION: CONFIGURATION PER LINES VL70-000095

SCALE MODEL = .0075

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>106.38</u>	<u>.00598</u>
Span (equivalent)	<u>201.0</u>	<u>1.508</u>
Inb'd equivalent chord	<u>91.585</u>	<u>.687</u>
Outb'd equivalent chord	<u>50.833</u>	<u>.381</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)-ft ³	<u>526.125</u>	<u>.000222</u>



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

Figure 1. - Axis Systems.

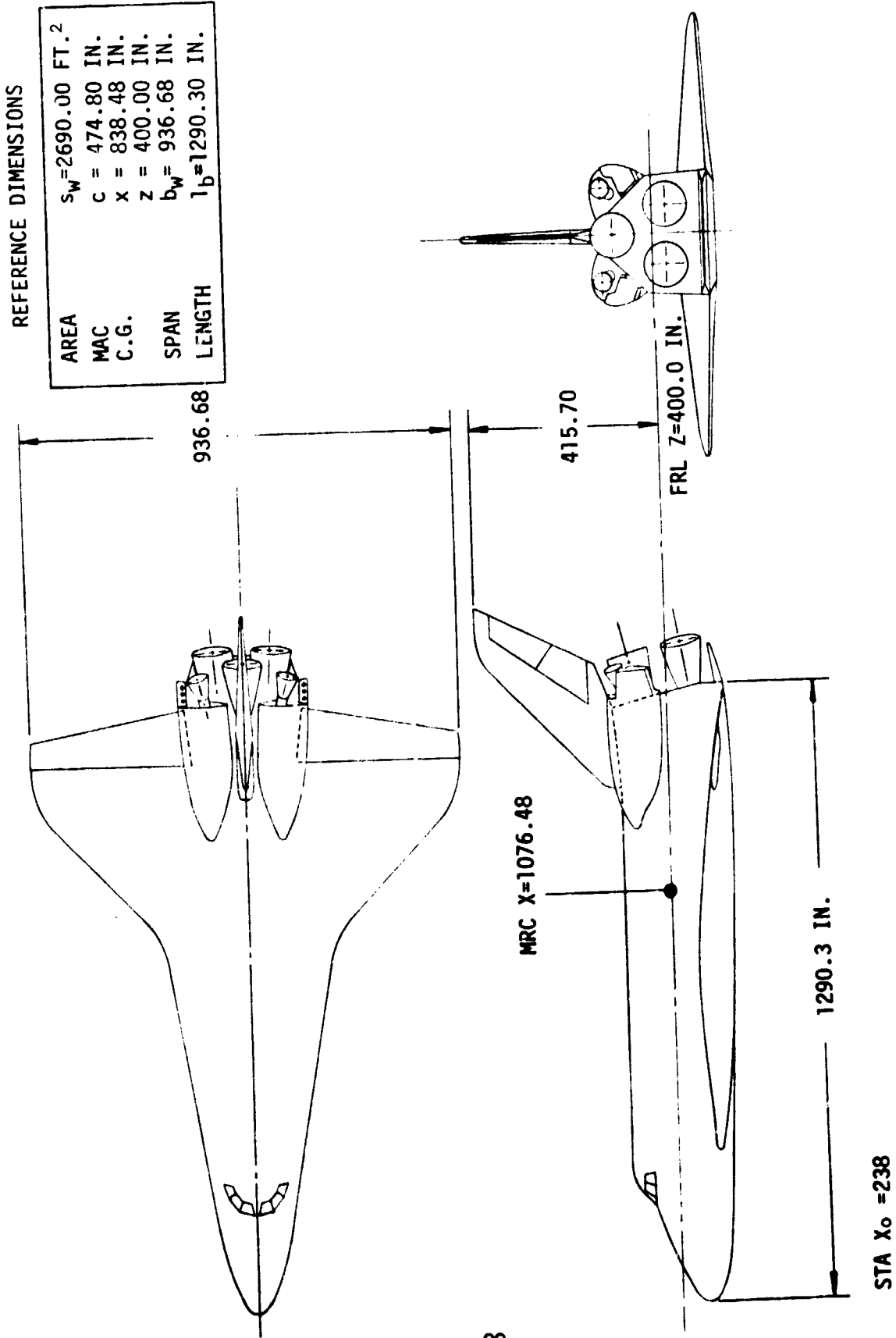


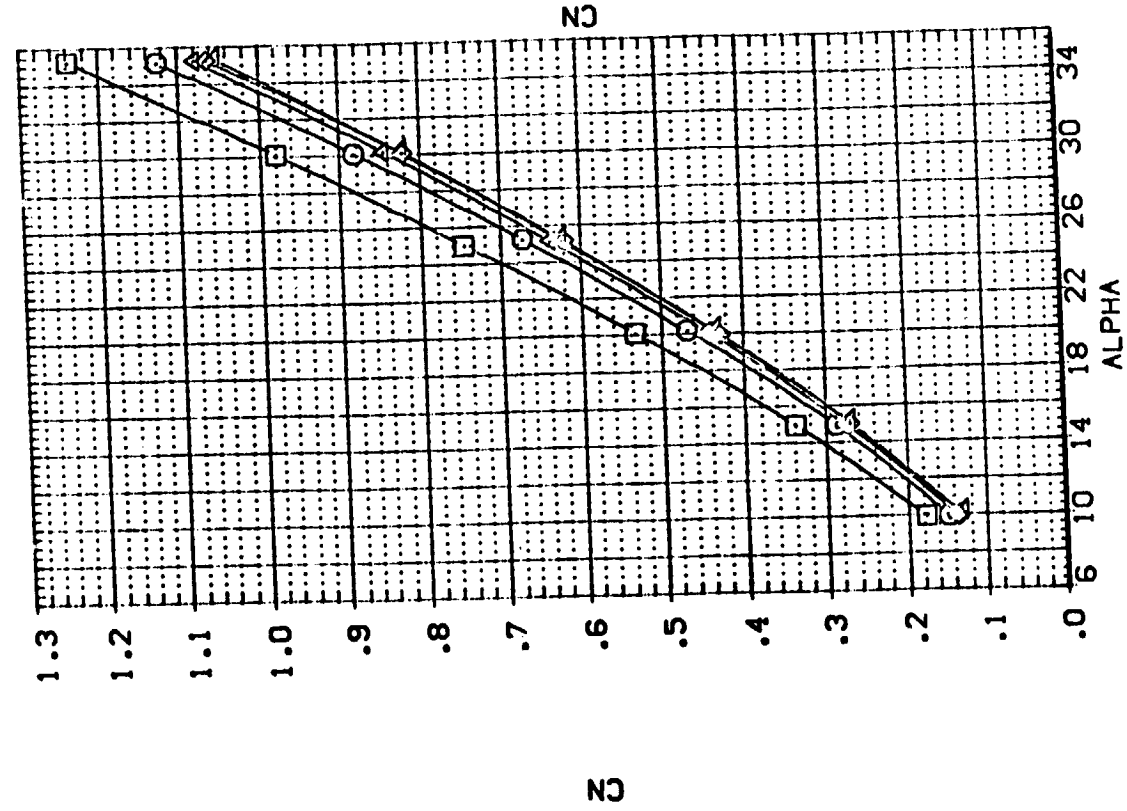
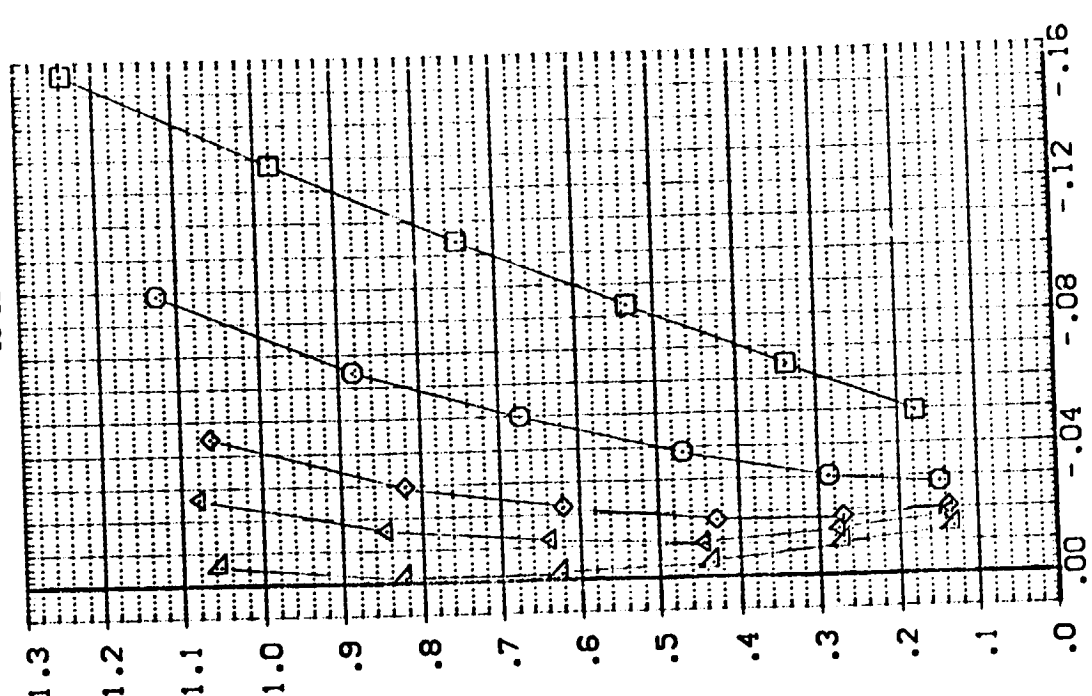
Figure 2. - SSV Orbiter Configuration 3 Baseline.

DATA FIGURES

0

DATA SET SYMBO: [X] [O] [A] [P]
 [R0033] [R0031] [R0029] [R0017] [R0025]
 CONFIGURATION DESCRIPTION
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 REFERENCE INFORMATION
 SREF 21.7886 SC.IN.5
 LREF 3.5611 INCHES
 BREF 7.0251 INCHES
 XMRP 6 INCHES
 YMRP 6 INCHES
 ZMRP 6 INCHES
 SCALE .0075

BETA .000
 ELE TR 10.000
 AIRRON .000
 BOFLAP -14.250
 BOFLAP -14.250
 BOFLAP -14.250
 BOFLAP -14.250
 BOFLAP -14.250
 BOFLAP -14.250

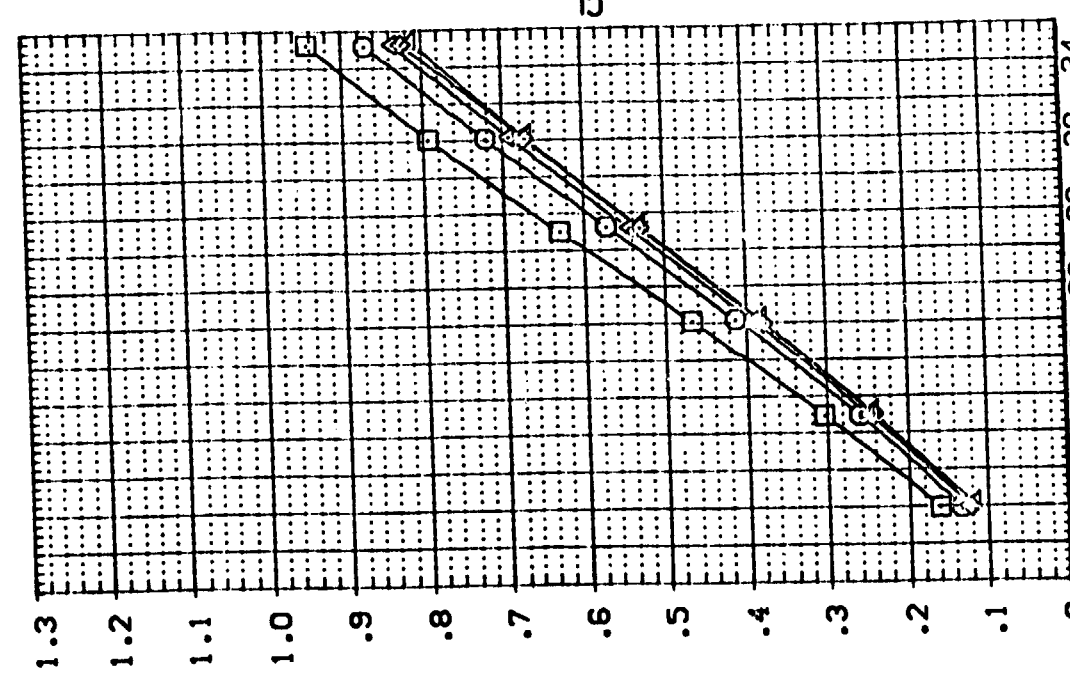
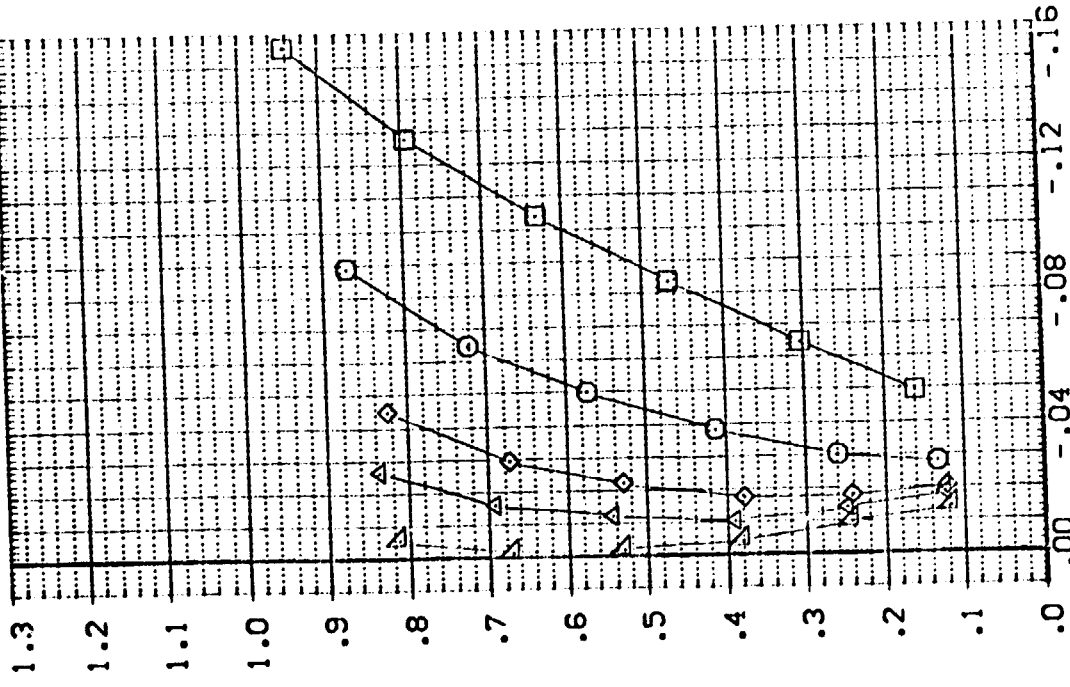


EFFECT OF ELEVATOR DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A)MACH = 10.30

DATA SET SYMBOL: (RPO033), (RPO031), (RPO029), (RPO017), (RPO025)
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 REFERENCE INFORMATION: SREF: 21.7886, SREF: 3.5611, SREF: 7.0251, SREF: 6.2802, SREF: .0000, SREF: .0000, SREF: .0075
 SO IN: 1.0000, SO IN: 1.0000, SO IN: 1.0000, SO IN: 1.0000, SO IN: 1.0000
 BOFLAP: -14.250, -14.250, -14.250, -14.250, -14.250
 AIRLON: .000, .000, .000, .000, .000
 ELEVTR: 10.000, .000, -10.000, -20.000, -40.000
 BETA: .000, .000, .000, .000, .000
 SCALE: .0075

V/MOD: .0899, .0899, .0899, .0899, .0899
 NOSE: NOSE, NOSE, NOSE, NOSE, NOSE
 ROCKWELL CR9: ROCKWELL CR9, ROCKWELL CR9, ROCKWELL CR9, ROCKWELL CR9, ROCKWELL CR9



EFFECT OF ELEVATOR DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A) MACH = 10.30



DATA SET SYMBOL
 (RP0033)
 (RP0001)
 (RP0009)
 (RP0017)
 (RP0025)

CONFIGURATION DESCRIPTION
 LA-11:CFHT 96: ROCKWELL CR8.
 LA-11:CFHT 98: ROCKWELL CR8.
 LA-11:CFHT 99: ROCKWELL CR8.
 LA-11:CFHT 95: ROCKWELL CR8.

NOSE
 V/MCO.
 V/MCO.
 V/MCO.
 V/MCO.
 V/MCO.
 V/MCO.
 V/MCO.
 V/MCO.

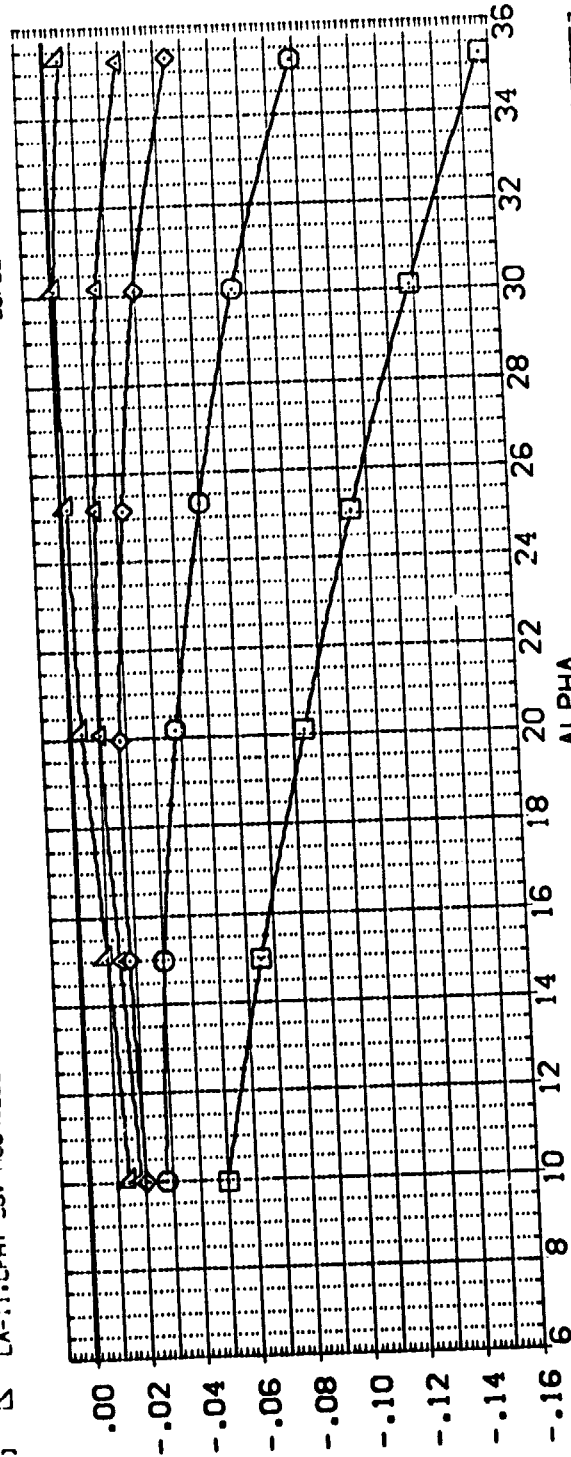
BETA
 .000
 .000
 .000
 .000
 .000

ELEVTR
 10.000
 .000
 .000
 -10.000
 -20.000
 -40.000

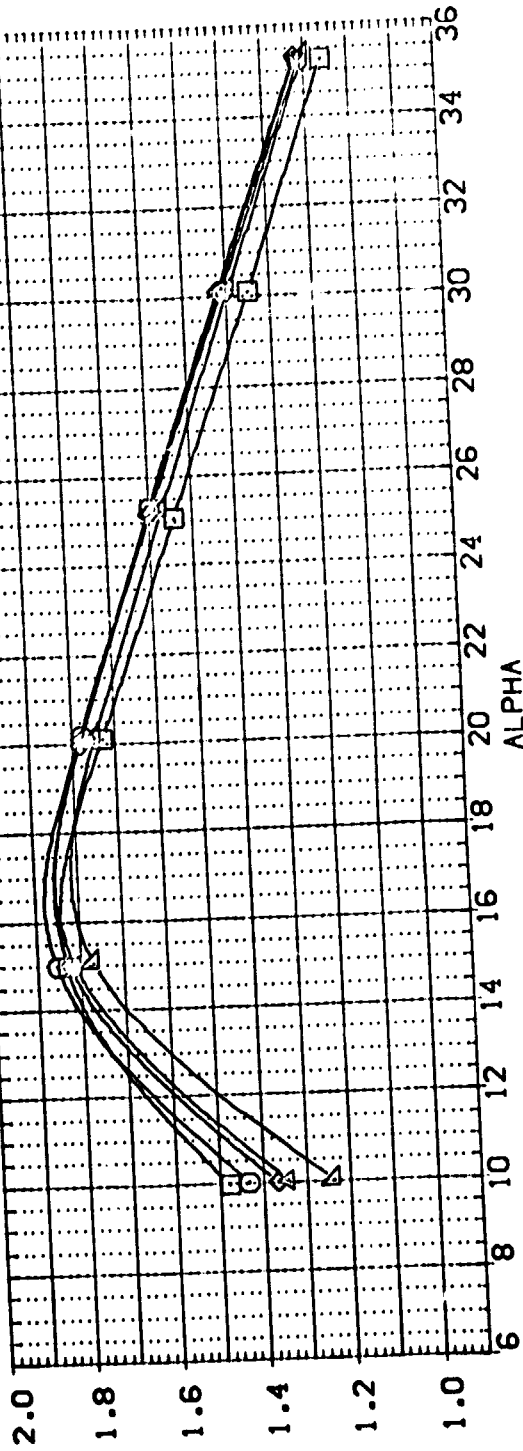
AIRLON
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 .000
 .000
 .000
 .000

BOFLAP
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 -14.250
 -14.250
 -14.250
 -14.250

REFERENCE INFORMATION
 SREF 21.7865
 LREF 3.5611
 BREF 7.0251
 XMRP 6.2802
 YMRP .0000
 ZMRP .0000
 SCALE .00075



CM



L/D

EFFECT OF ELEVATOR DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

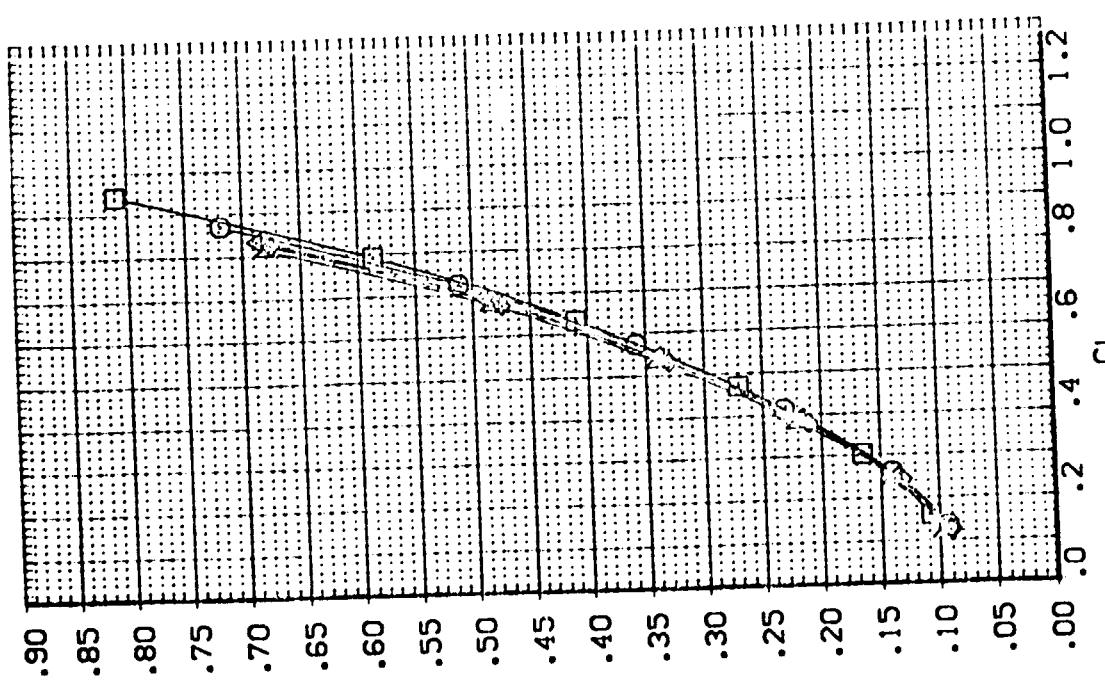
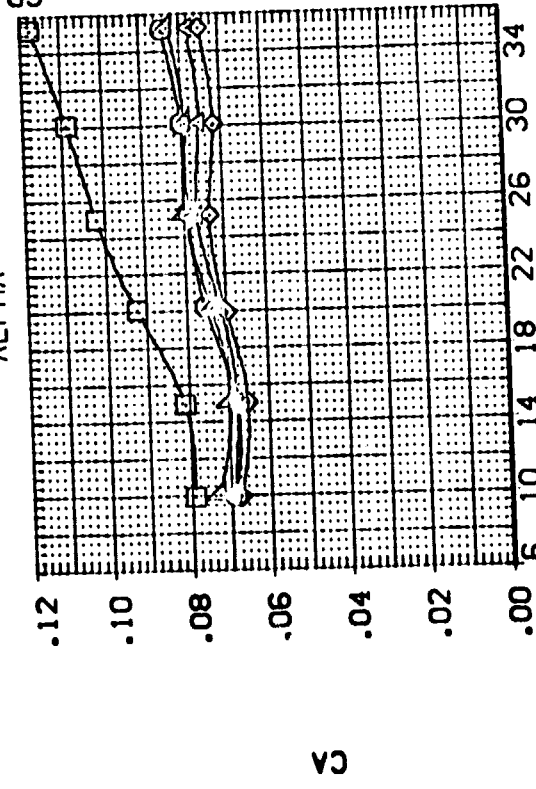
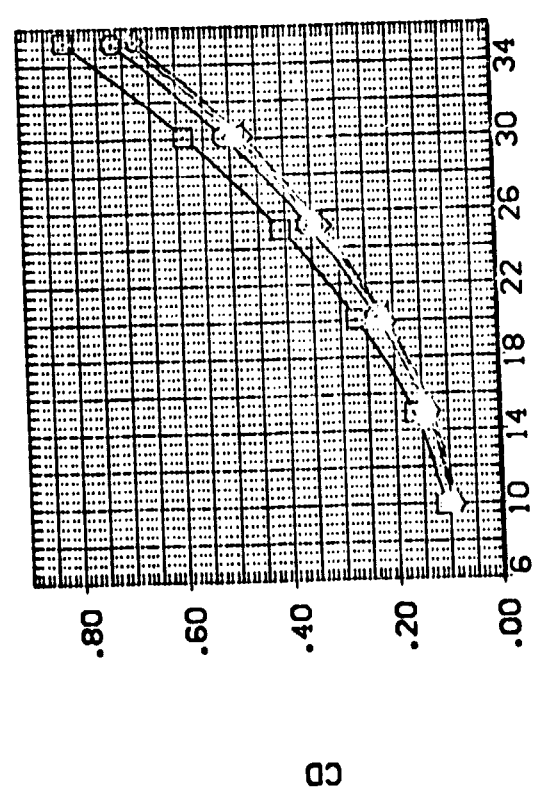
DATA SET SYMBOL
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 [RP0001]
 [RP0009]
 [RP0017]
 [RP0025]

CONFIGURATION DESCRIPTION
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 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.
 LA-11-CFHT 96: ROCKWELL CR8.

0898 V/MOD. NOSE
 0899 V/MOD. NOSE
 0899 V/MOD. NOSE
 0899 V/MOD. NOSE
 0899 V/MOD. NOSE
 0899 V/MOD. NOSE

BETA ELEVTR AILTRN BOFLAP
 .000 10.000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250
 .000 .000 .000 -14.250

REFERENCE INFORMATION
 SREF 21.7885 SQ.IN.
 LREF 3.5611 NOSES
 BREF 7.0251 NOSES
 XMRP 6 NOSES
 YMRP .0000 NOSES
 ZMRP .0000 NOSES
 SCALE .0075 NOSES



EFFECT OF ELEVATOR DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A) MACH = 10.30

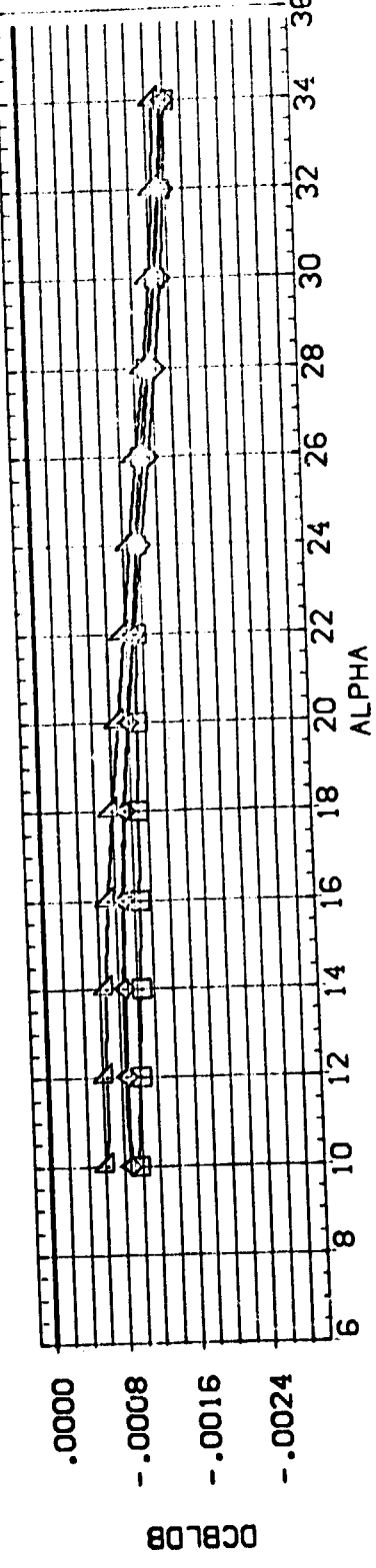
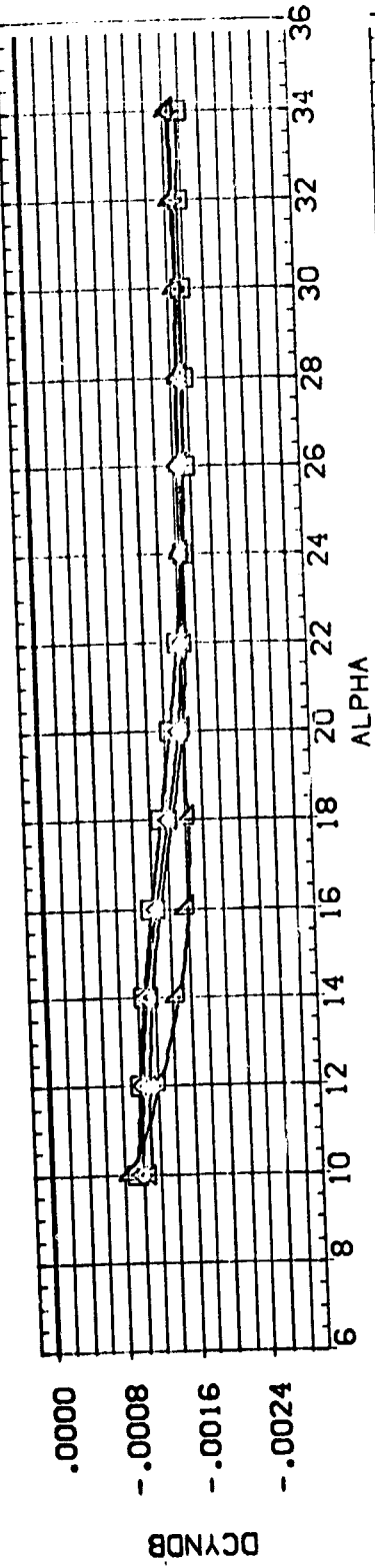
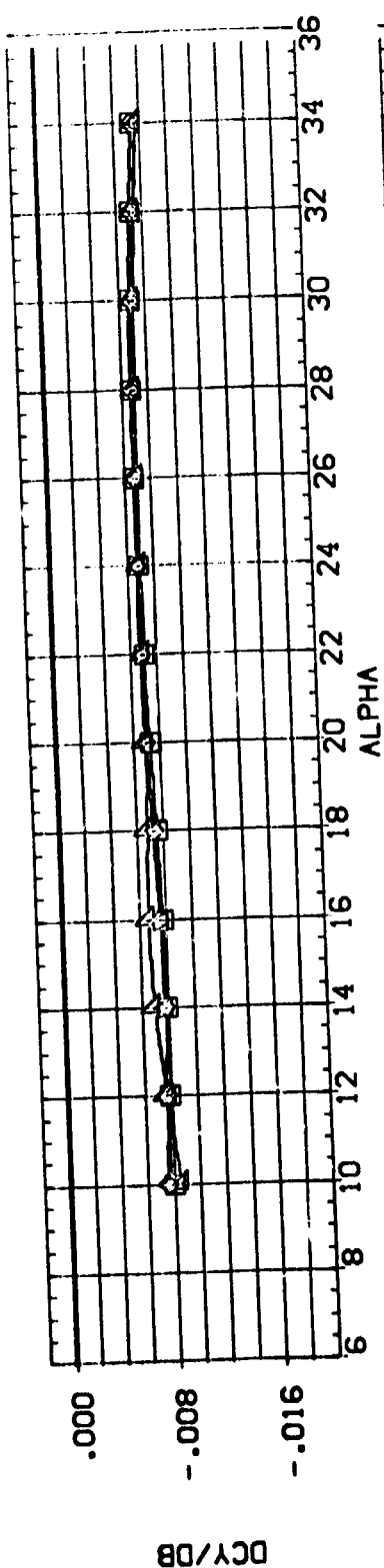


DATA SET SYMBOL: (SP0034) (SP0010) (SP0018) (SP0026)

CONFIGURATION DESCRIPTION: LA-11:CFHT 95: ROCKWELL CRB. D888 V/MOD. NOSE
 LA-11:CFHT 95: ROCKWELL CRB. D888 V/MOD. NOSE
 LA-11:CFHT 95: ROCKWELL CRB. D888 V/MOD. NOSE
 LA-11:CFHT 95: ROCKWELL CRB. D888 V/MOD. NOSE

ELEVTR: 10.000
 AILTRN: .000
 BOFLAP: -14.250

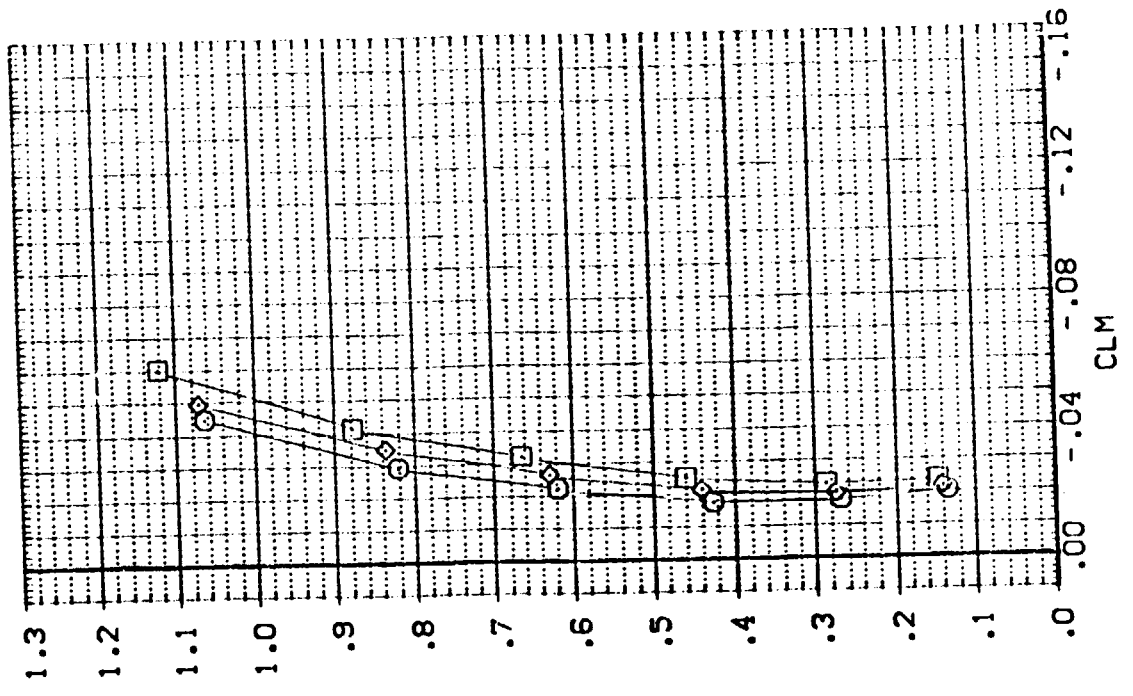
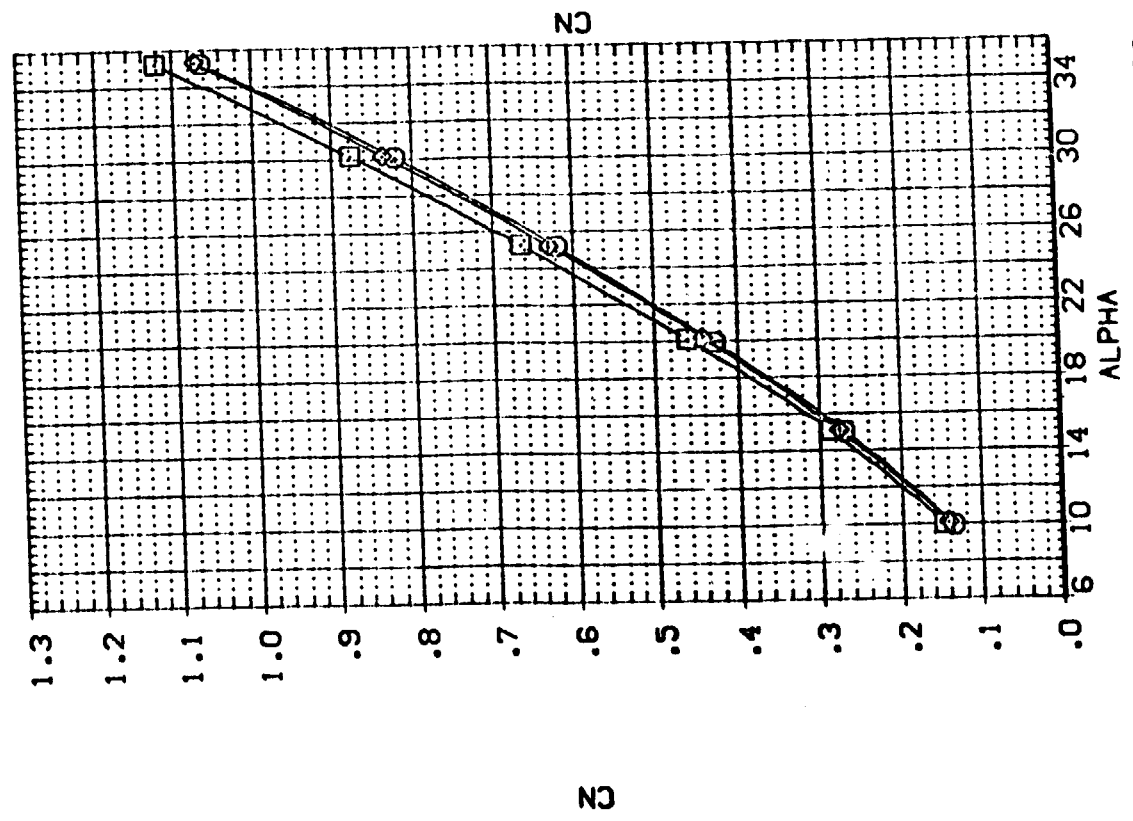
R _RENCE INFORMATION: SREF 21.7885
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 XMRP 7.0225
 YMRP 6.2802
 ZMRP .0000
 SCALE .0075



EFFECT OF ELEVATOR DEFLECTION ON LAT.-DIRECTIONAL DERIVATIVES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RP000) LA-11:CFHT 96: ROCKWELL CR3: C899 V/MCO: NOSE
 (RP001) LA-11:CFHT 96: ROCKWELL CR3: C899 V/MCO: NOSE
 (RP0049) LA-11:CFHT 96: ROCKWELL CR3: C899 V/MCO: NOSE

BETA ELEVTR AILTRON BOFLAP REFERENCE INFORMATION
 .000 -10.000 .000 -14.250 SREF 21.7886 50. IN.
 .000 -10.000 .000 -14.250 LREF 3.5611 NOSES
 .000 -10.000 -10.000 -14.250 BREF 7.0251 NOSES
 .000 -10.000 -10.000 -14.250 XMRP 6.2802 NOSES
 .000 .000 .000 .000 ZMRP .0000 NOSES
 .000 .000 .000 .000 SCALE .0075 NOSES



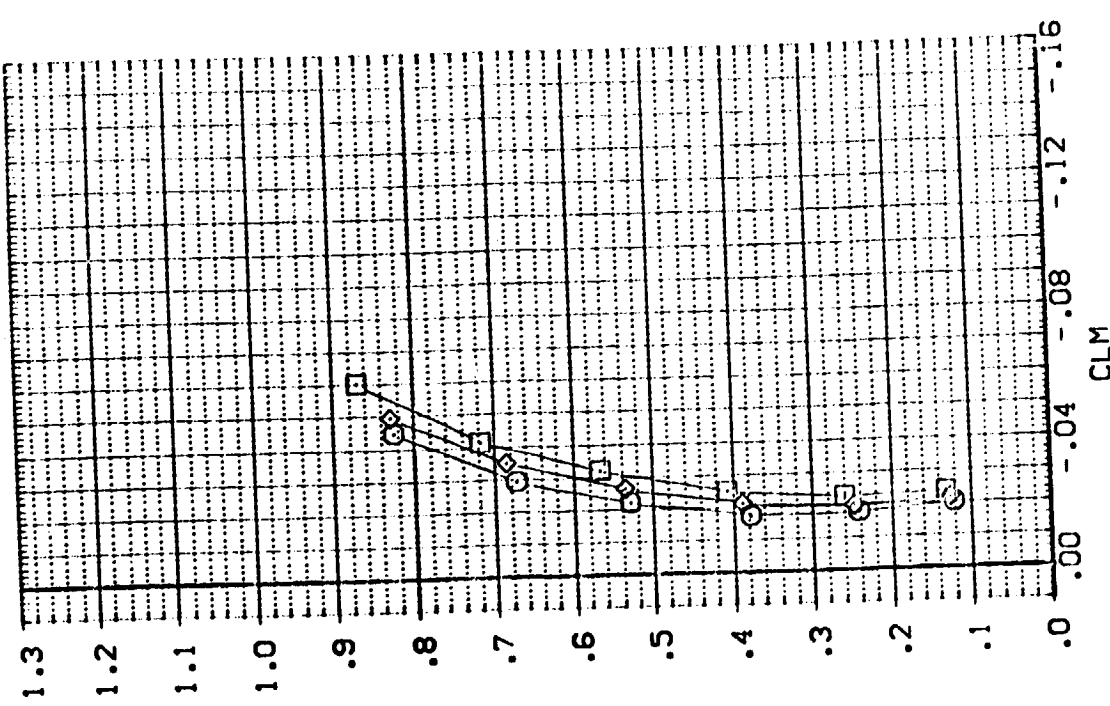
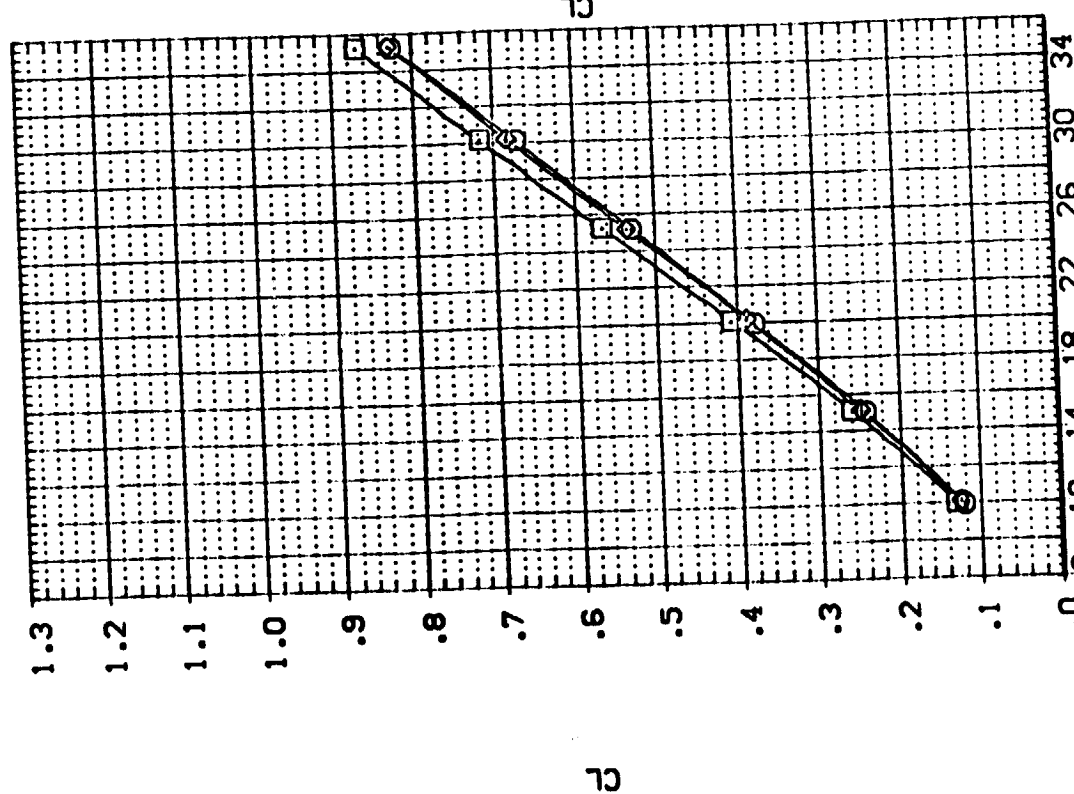
EFFECT OF AILERON DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A)MACH = 10.30



DATA SET SYMBOL: (R-0009) (R-0011) (R-0049)
 CONFIGURATION DESCRIPTION: LA-11:CFHT 96: ROCKWELL CRB. LA-11:CFHT 96: ROCKWELL CRB. LA-11:CFHT 96: ROCKWELL CRB.
 NOSE: 0898 V/MOD. NOSE. 0898 V/MOD. NOSE. 0898 V/MOD. NOSE.

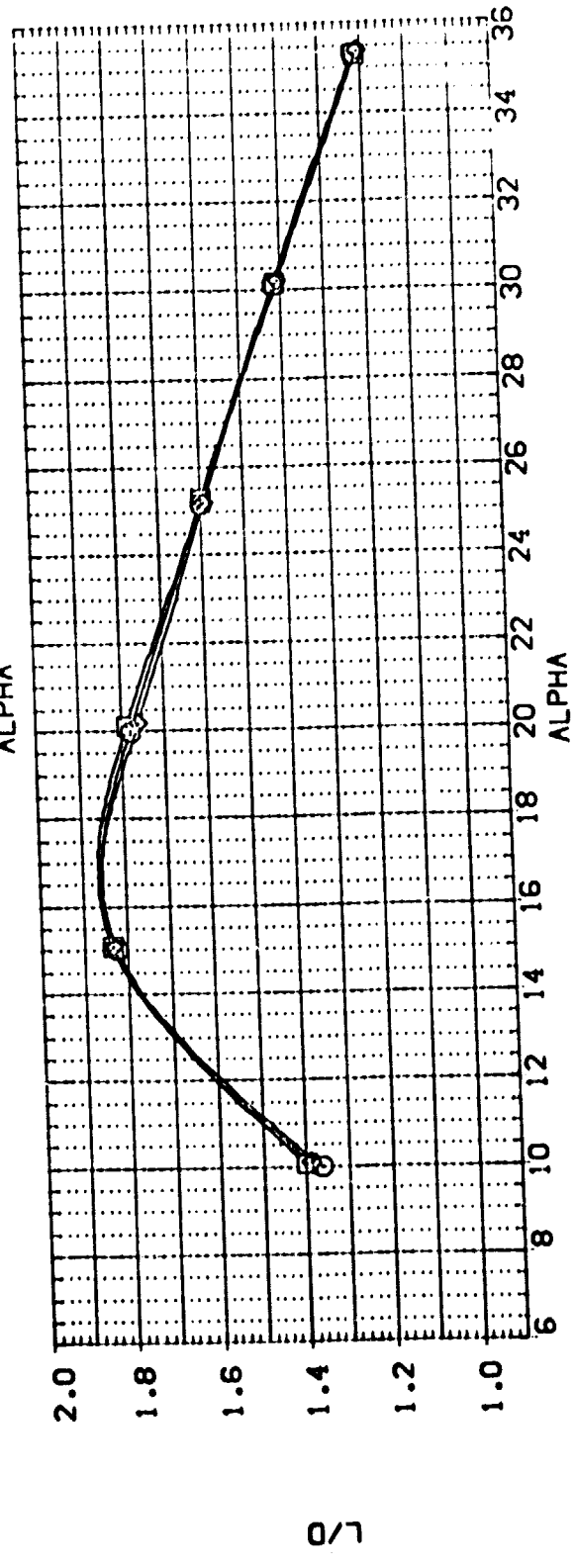
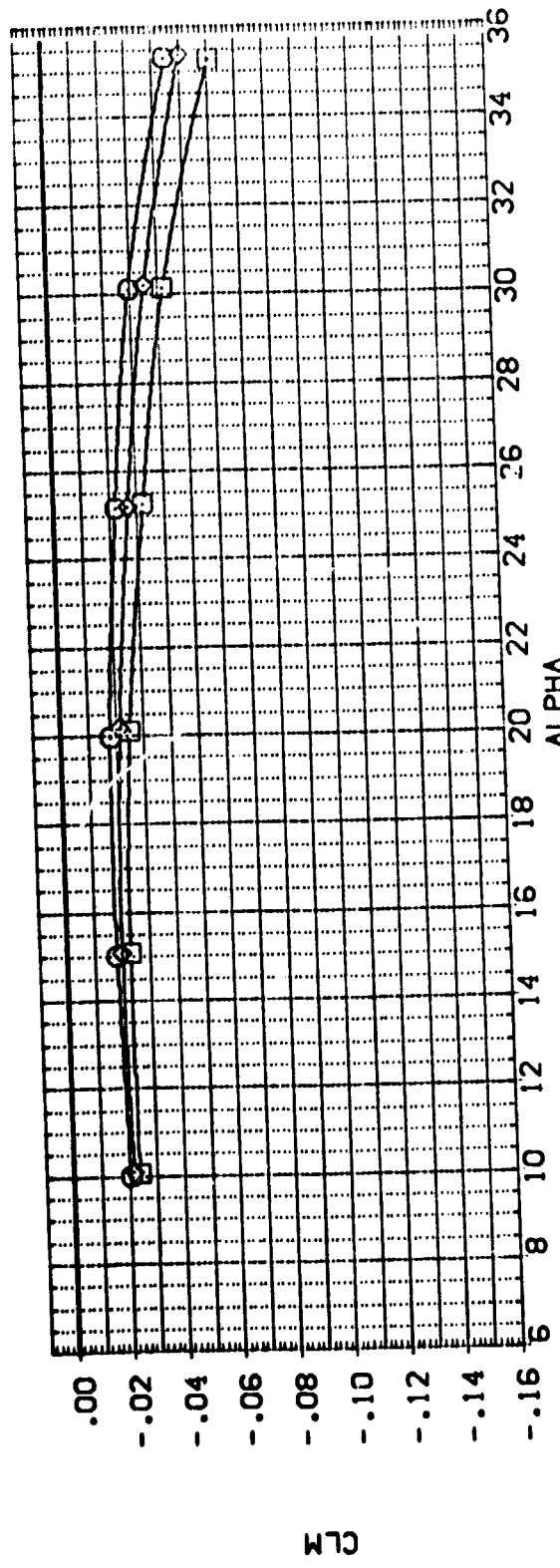
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 ELEVTR: -10.000 -10.000 -10.000 -10.000
 AILTRN: .000 .000 .000 .000
 BDFLAP: -14.250 -14.250 -14.250 -14.250
 REFERENCE INFORMATION: SREF 21.7886 LREF 3.5611 BREF 7.0251 XMRP 6.2802 YMRP .0000 ZMRP .0000 SCALE .0075
 SQ. IN. INCHES INCHES INCHES INCHES



EFFECT OF AILERON DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

CAJ MACH = 10.30

DATA SET SYMBOL: \odot \diamond
 CONFIGURATION DESCRIPTION: D959 V/MOD. NOSE
 LA-11: CFHT 56; ROCKWELL CR8; D959 V/MOD. NOSE
 LA-11: CFHT 56; ROCKWELL CR8; D959 V/MOD. NOSE
 LA-11: CFHT 56; ROCKWELL CR8; D959 V/MOD. NOSE
 REFERENCE INFORMATION: SRREF 21.7885 S2:IN: 52.0000
 LRREF 3.5611 S2:OLES 22.0000
 BRREF 7.0251 S2:LES 22.0000
 XMRP 6.2832 S2:LES 22.0000
 YMRP .0000 S2:LES 22.0000
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 SCALE: .0075



EFFECT OF AILERON DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A)MACH = 10.30



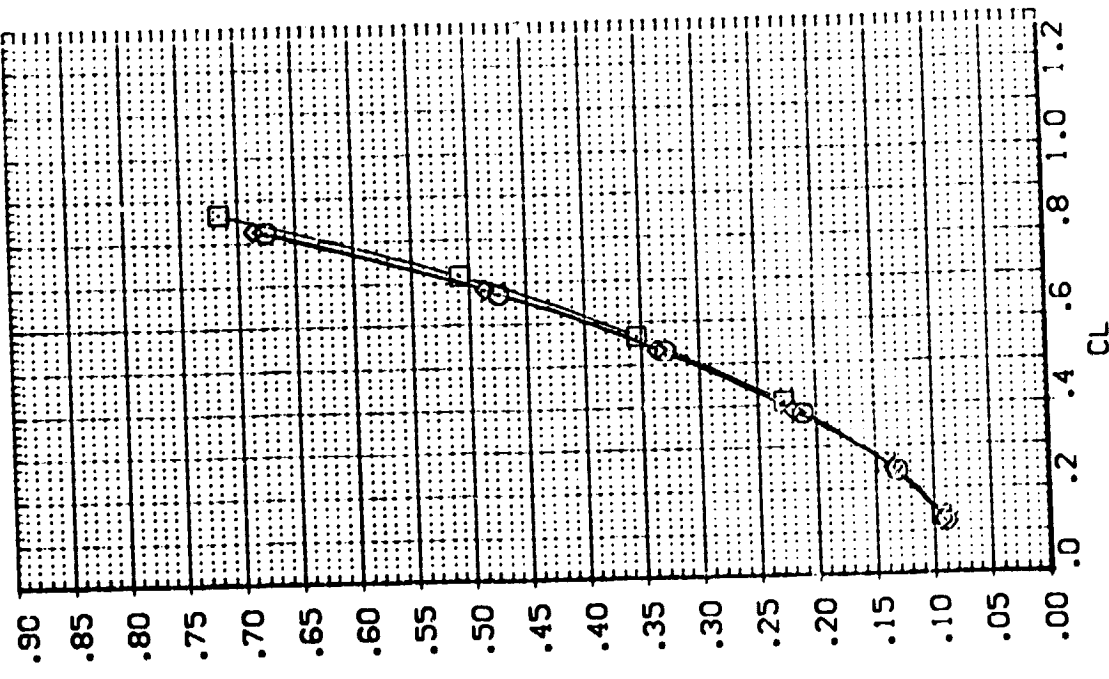
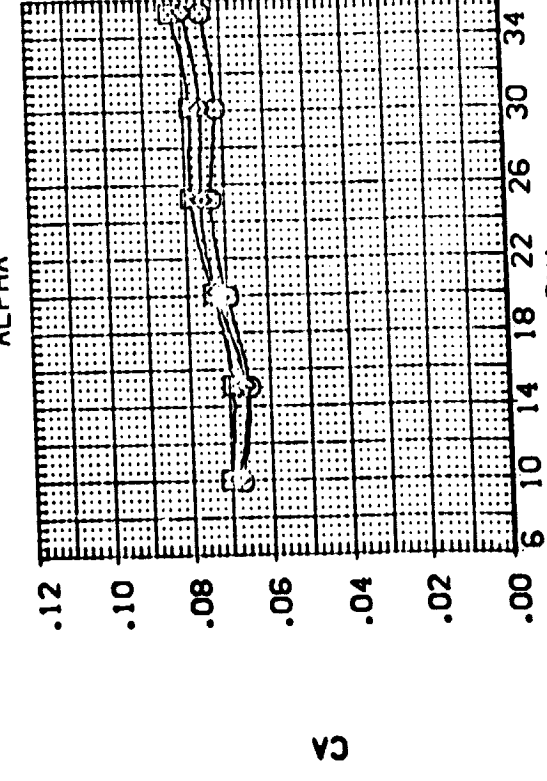
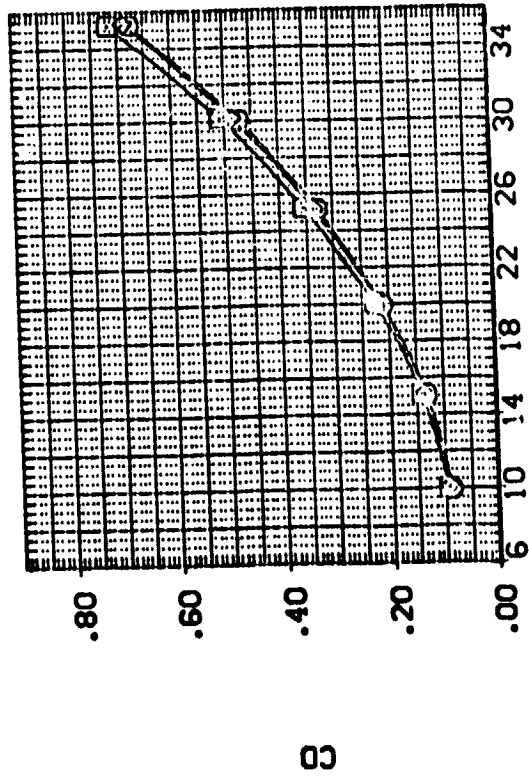
DATA SET SYMBOL
 (RPD008)
 (RPD041)
 (RPD049)

CONFIGURATION DESCRIPTION
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 LA-11: CFHT 56: ROCKWELL CRB.
 LA-11: CFHT 56: ROCKWELL CRB.

0898 V/MCO. NOSE
 0899 V/MCO. NOSE
 0899 V/MCO. NOSE

BETA ELEVTR AILTRON BOFLAP
 .000 -10.000 .000 -14.250
 .000 -10.000 .000 -14.250
 .000 -10.000 .000 -14.250

REFERENCE INFORMATION
 SREF 2: 7886 SQ. IN.
 LREF 3: 56: NOSES
 BREF 7: 25: NOSES
 XMRP 6: 25: NOSES
 YMRP .0000 NOSES
 ZMRP .0000 NOSES
 SCALE .0075



EFFECT OF AILERON DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A) MACH = 10.30

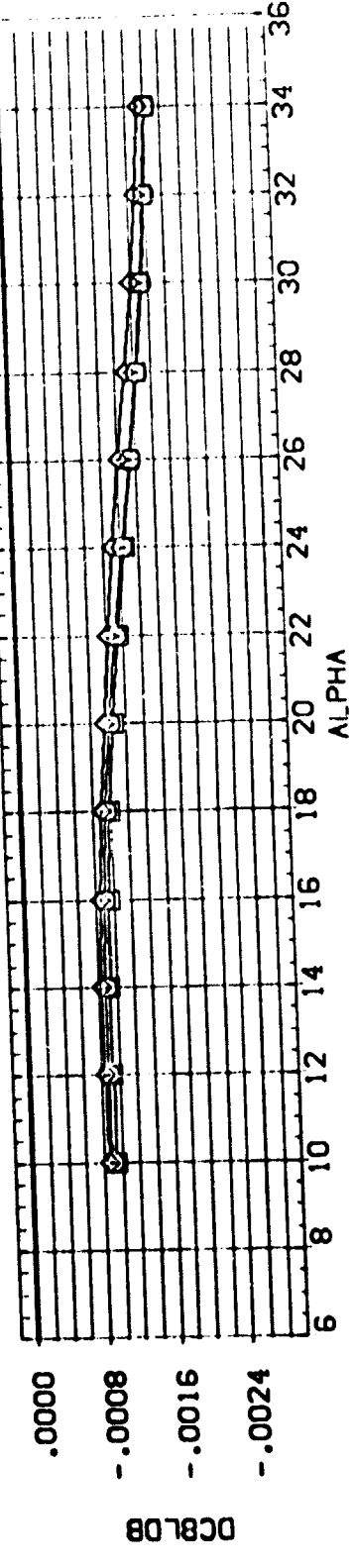
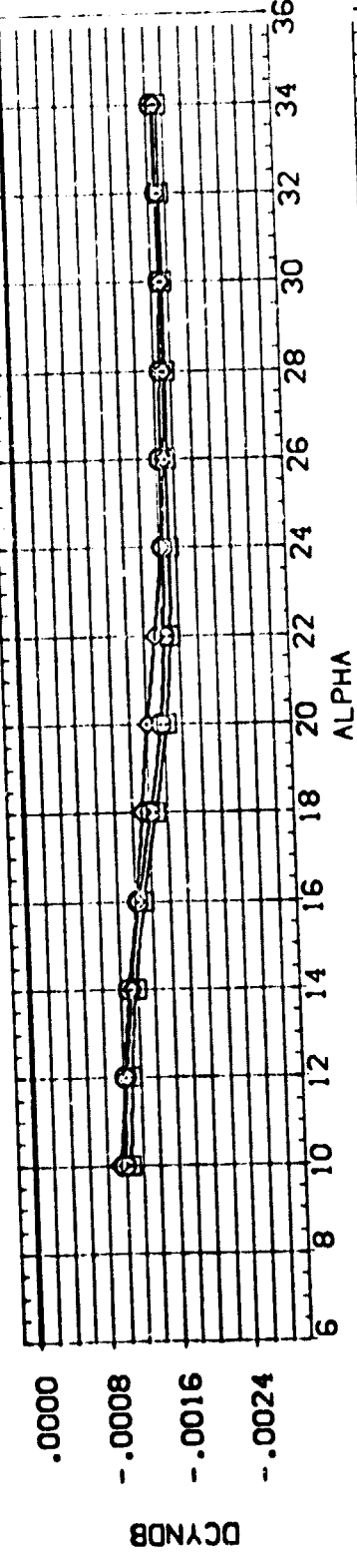
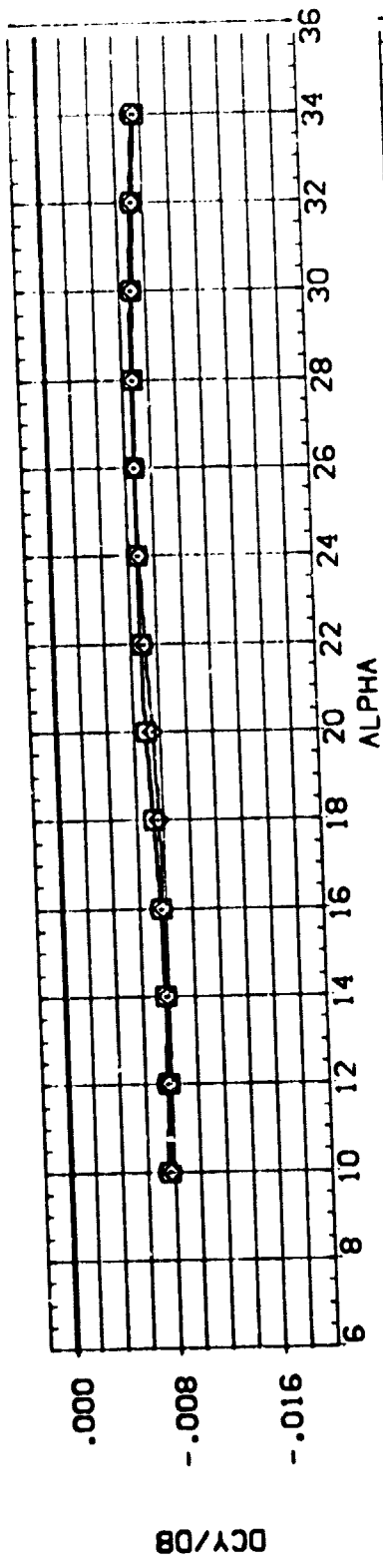
DATA SET SYMBOL
 (BPO010) □
 (BPO042) ○
 (BPO050) ◇

CONFIGURATION DESCRIPTION
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 LA-11: CHT 96; ROCKWELL CRB.
 LA-11: CHT 96; ROCKWELL CRB.

NOSE
 V/MOD: NOSE
 V/MOD: NOSE
 V/MOD: NOSE

ELEVTR AILRON BOFLAP
 -10.000 .000 -14.750
 -10.000 10.000 -14.750
 -10.000 -10.000 -14.750

REFERENCE INFORMATION
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 SREF 7.0251 INCHES
 VREF 6.2802 INCHES
 ZREF 1.0000 INCHES
 SCALE 1.0000



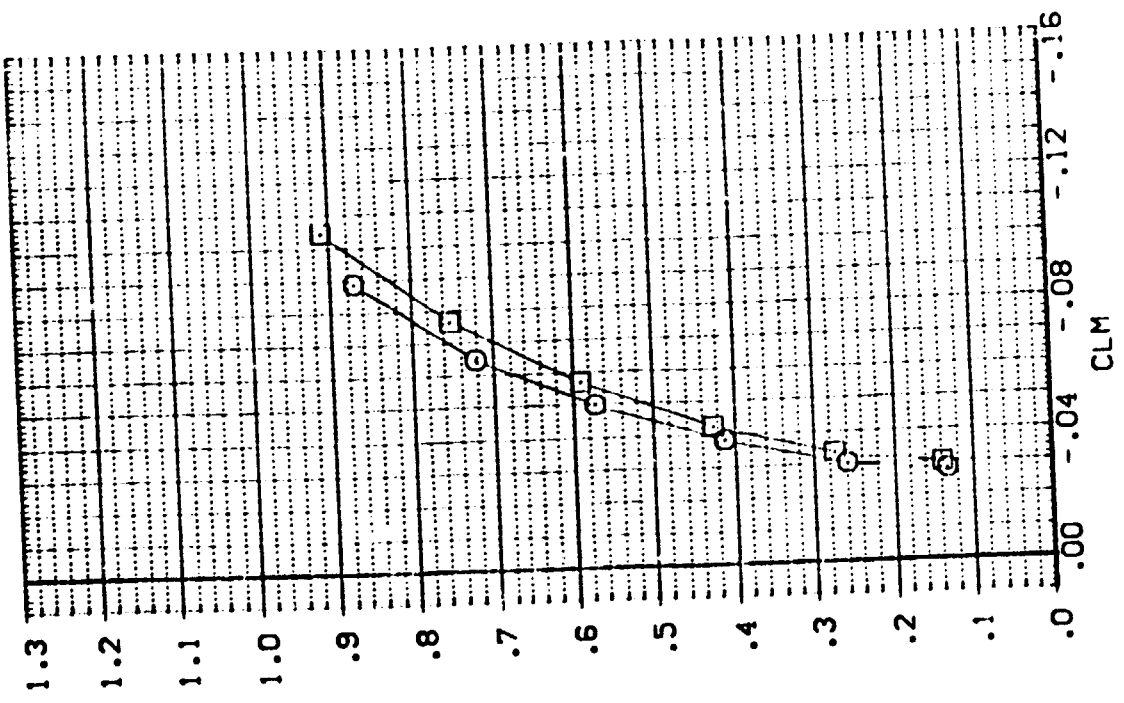
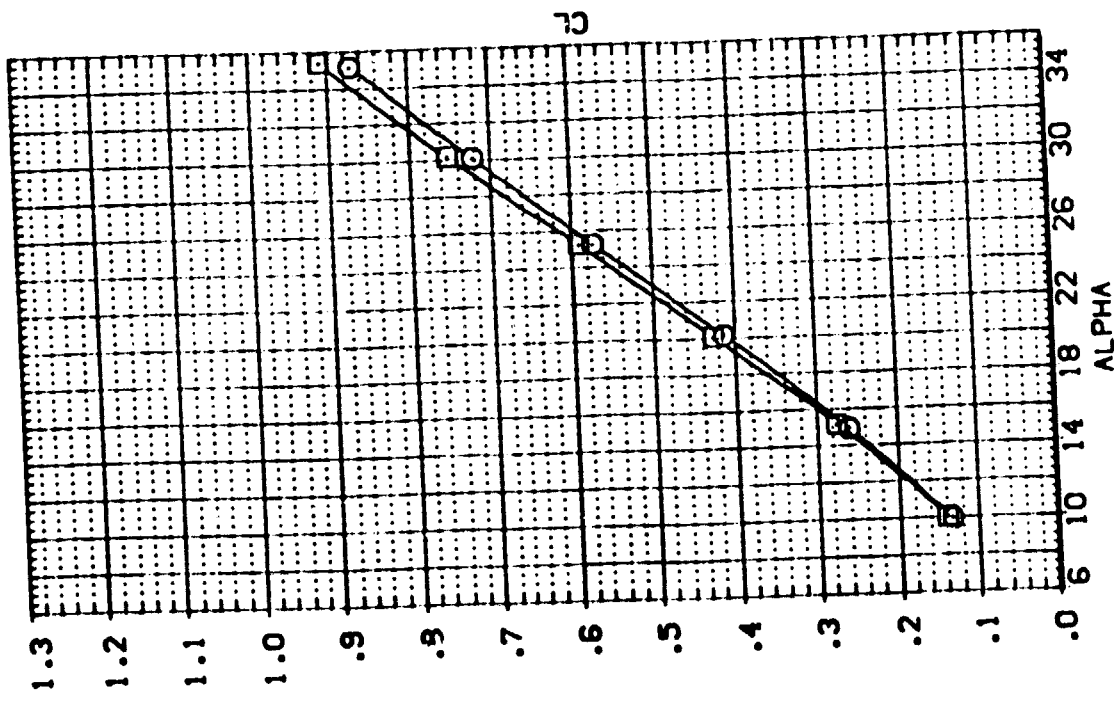
EFFECT OF AILERON DEFLECTION ON LAT.-DIRECTIONAL DERIVATIVES

(MACH = 10.30)

DATA SET SYMBOL []
 CONFIGURATION DESCRIPTION
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 LA-111.CFMT 96. ROCKWELL CRB. 0868 V/MOD. NOSE

BETA .000
 ELEVTR .000
 AIRLON .000
 BOFLAP -14.250
 SREF 21.7886
 LREF 3.5611
 BREF 7.0251
 XMRD 6.2672
 YMRD .0000
 ZMRD .0000
 SCALE .0075

REFERENCE INFORMATION
 SO. IN: 5
 NO. OF: 2
 NO. OF: 2
 NO. OF: 2



EFFECT OF BODY FLAP DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

(A) MACH = 10.30



DATA SET SYMBOL: [] CONFIGURATION DESCRIPTION: LA-11-CFMT 96. ROCKWELL CRB. 0853 V/MOD. NOSE
[RFD001] [RFD003] LA-11-CFHT 96. ROCKWELL CRB. 0853 V/MOD. NOSE

BETA: .000
.000

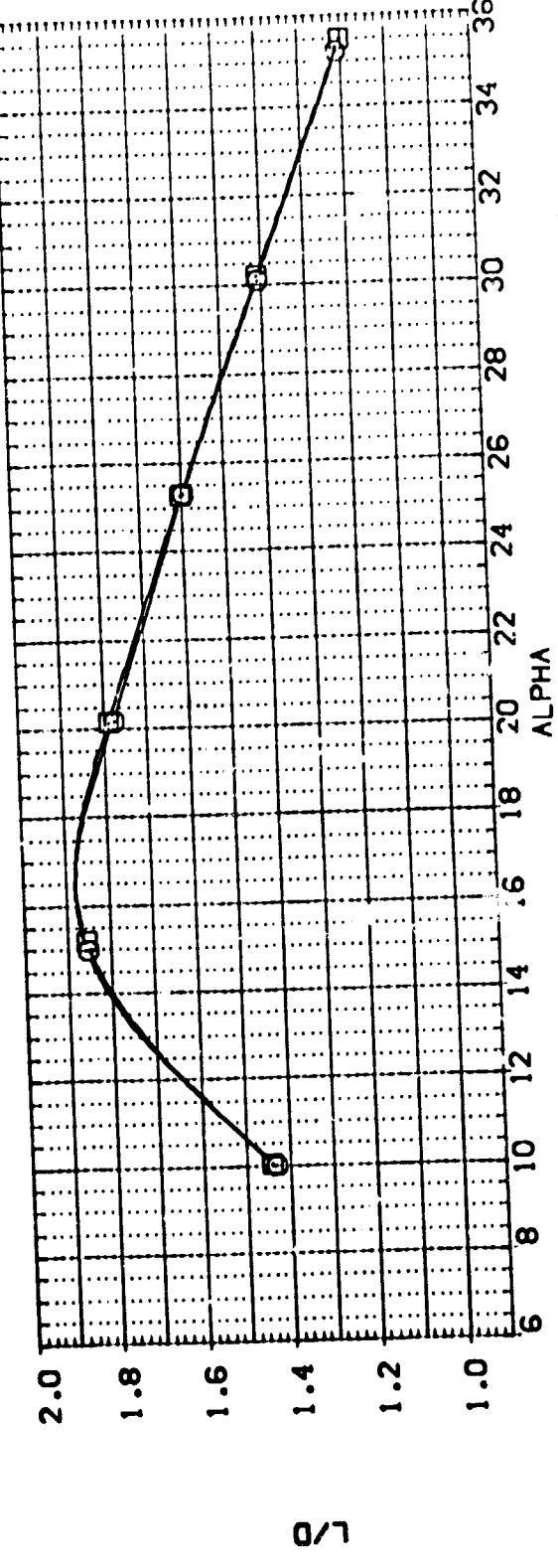
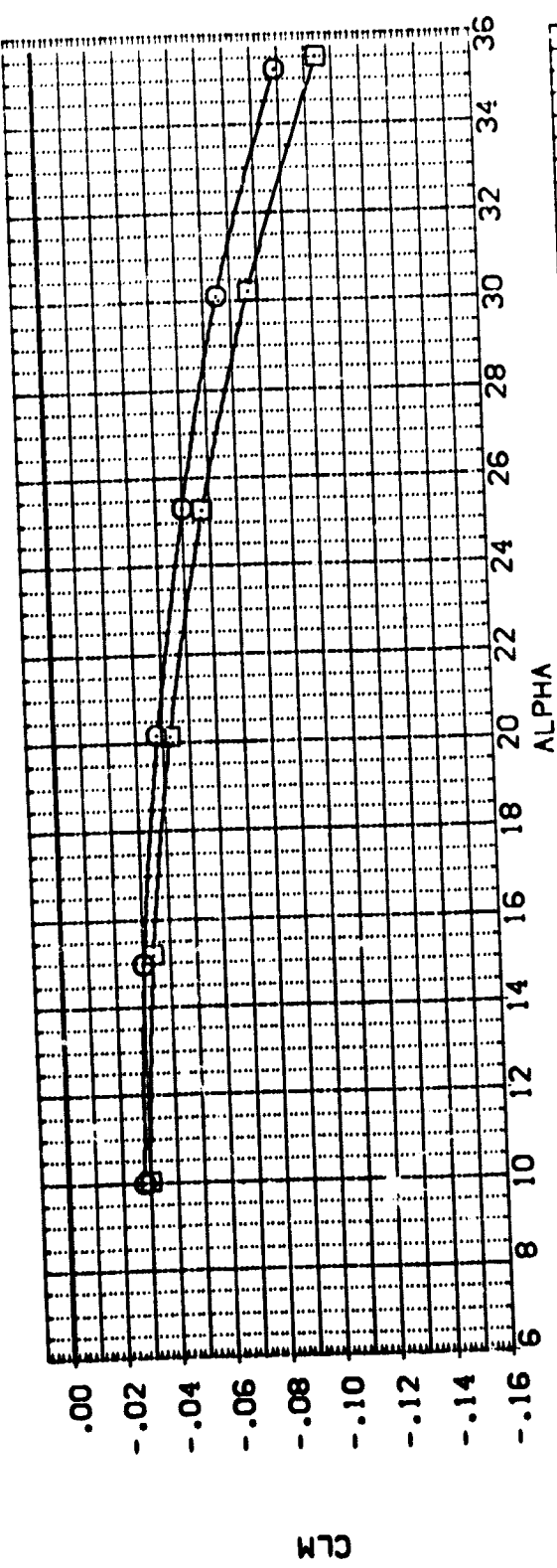
ELEVTR: .000
.000

AIRRON: .000
.000

BOFLAP: -14.250
.000

REFERENCE INFORMATION: SREF: 21.7886
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SREF: 7.0275
XMRD: 6.7200
YMRD: .0000
ZMRD: .0000
SCALE: .0075

SCHEM: 2000
CLAS: 2000
SUS: 2000



DATA SET SYMBOL
(RPO001)
(RPO073)

CONFIGURATION DESCRIPTION
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LA-11: CHT 58; ROCKWELL C58; 0898 V/MOD; NOSE

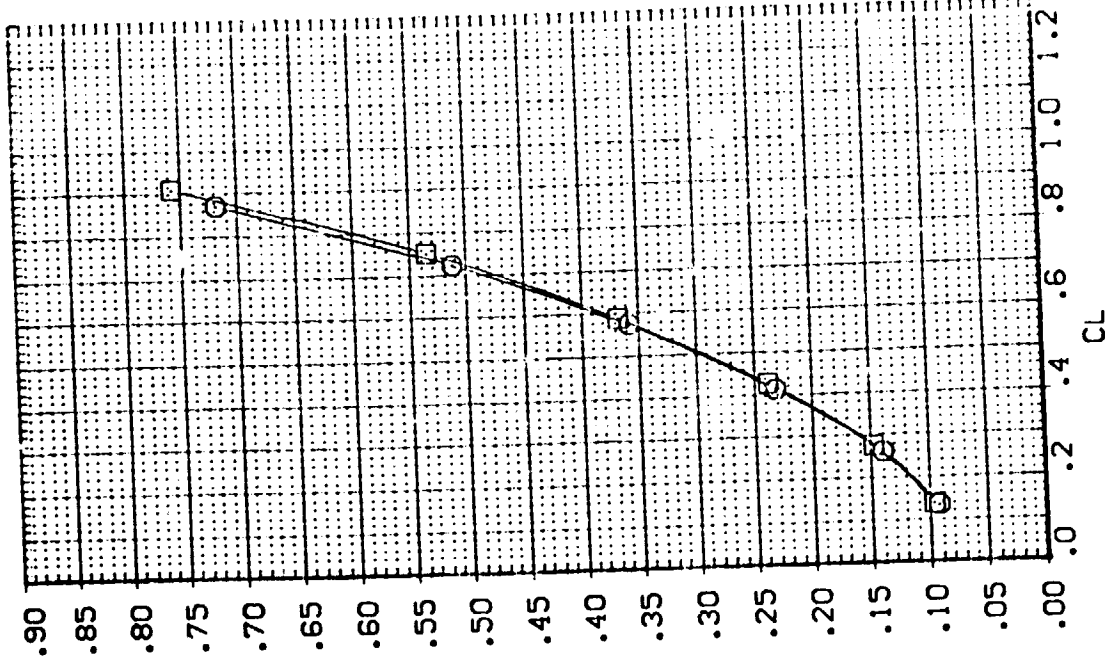
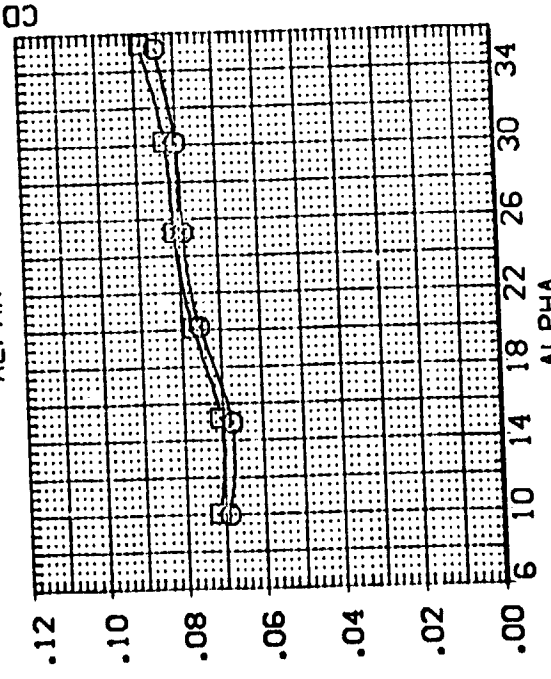
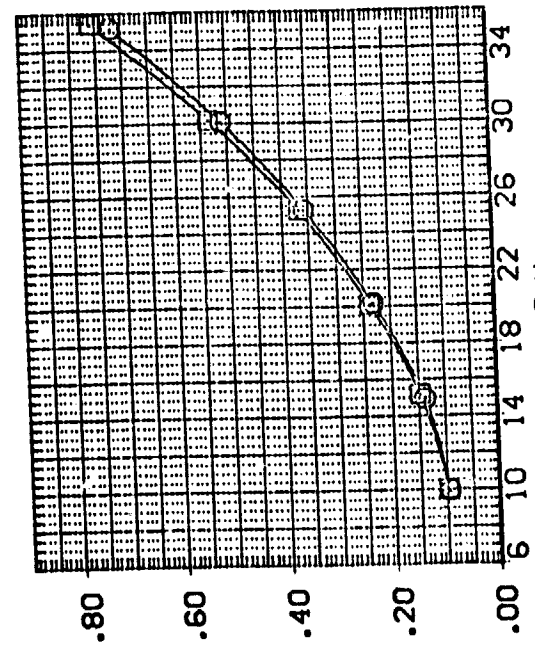
BETA
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ELEVTR
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AILRON
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.000
.000

BOFLAP
-14.25C
.000

REFERENCE INFORMATION
SREF 21.7886 SC.IN.
LREF 3.561 NCES
BREF 7.0261 NCES
XMRP 6.2322 NCES
YMRP .0000 NCES
ZMRP .0000 NCES
SCALE .0075



EFFECT OF BODY FLAP DEFLECTION ON BASIC LONGITUDINAL CHARACTERISTICS

CL

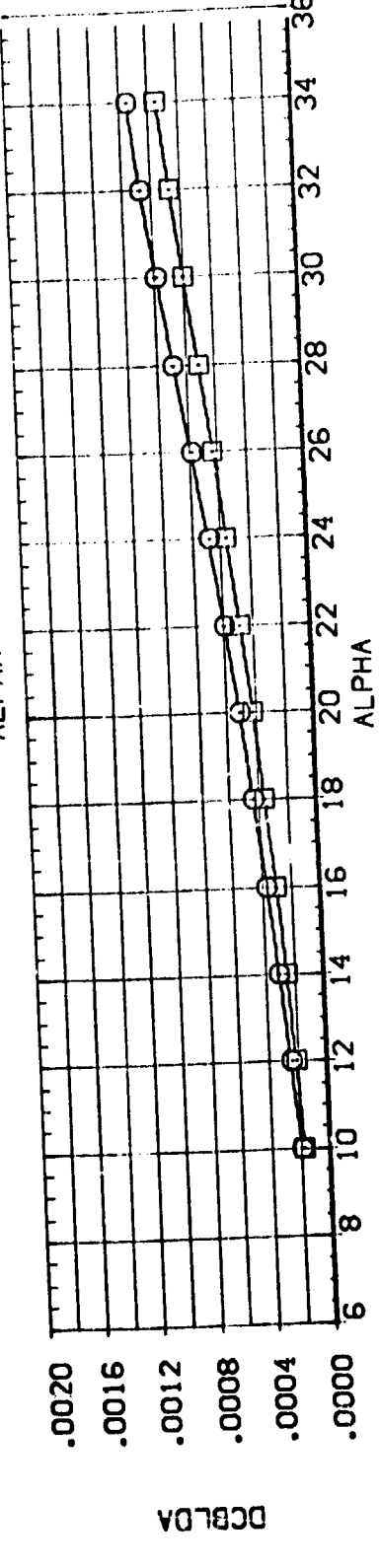
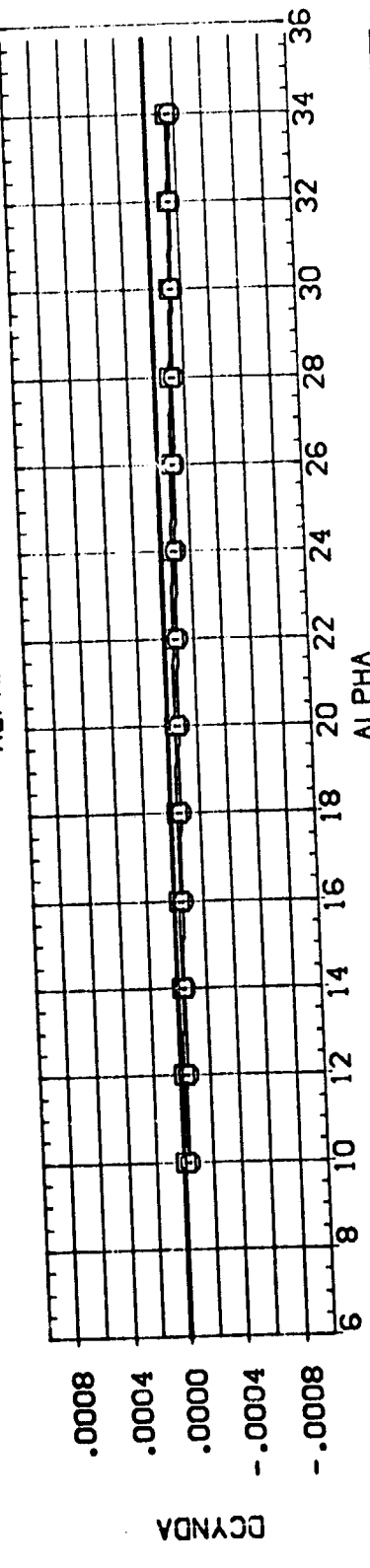
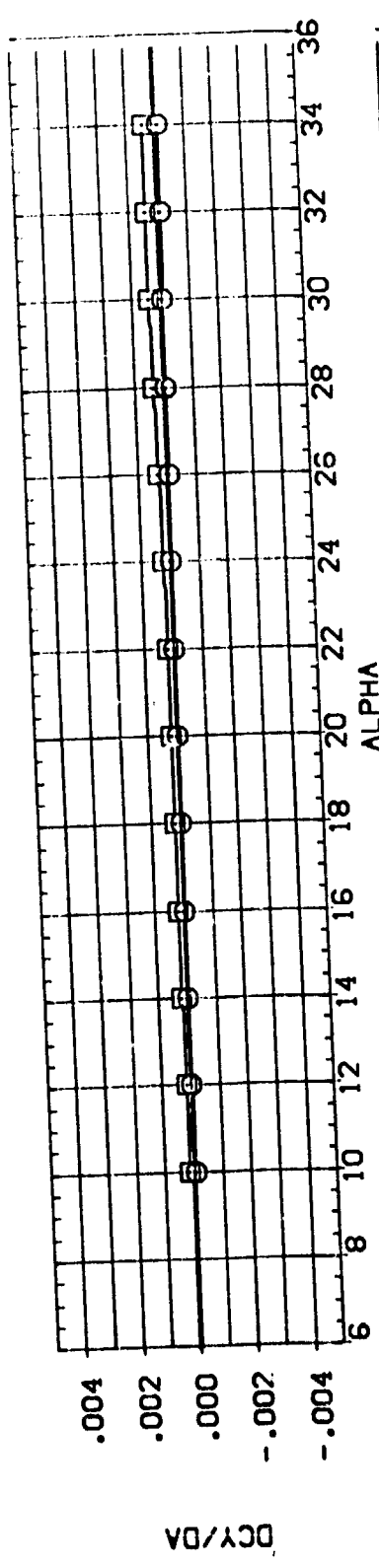
ALPHA

CA/MACH = 10.30

PAGE : 4



DATA SET SYMBOL: (BFO041) (BFO049) □
 CONFIGURATION DESCRIPTION: LA-11, CFHT 96; ROCKWELL CRG. 0899 V/MCD, NOSE; 0899 V/MCD, NOSE
 LA-11, CFHT 96; ROCKWELL CRG. 0899 V/MCD, NOSE; 0899 V/MCD, NOSE
 BETA: .000 D-TAILN: 10.000 ELEVTR: -10.000 BOFLAP: -14.250
 .000 D-TAILN: 10.000 ELEVTR: -10.000 BOFLAP: -14.250
 REFERENCE INFORMATION: SQ. IN. 21.7866
 INCHES 3.5611
 INCHES 7.6201
 INCHES 6.2502
 INCHES .0000
 INCHES .0000
 INCHES .0075
 SCALE



COMPARISON OFAILERON DERIVATIVES FOR OPPOSITE CONTROL DEFLECTION

(A)MACH = 10.30

DATA SET SYMBOL
(BPC065)
(BPC057)

CONFIGURATION DESCRIPTION
LA-11: CFMT 96; ROCKWELL CRB; D888 V/MOC; NOSE
LA-11: CFMT 96; ROCKWELL CRB; D888 V/MOC; NOSE

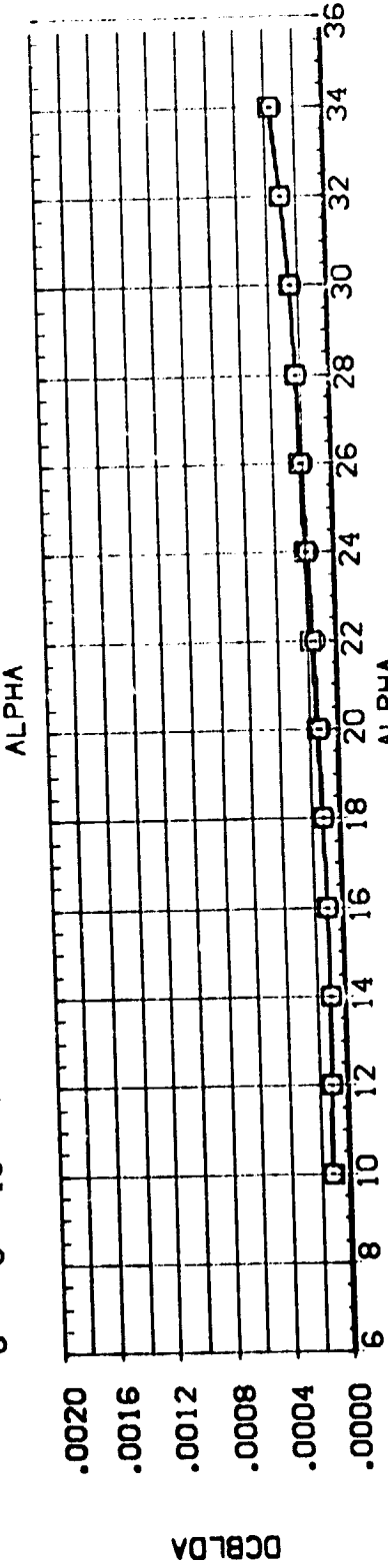
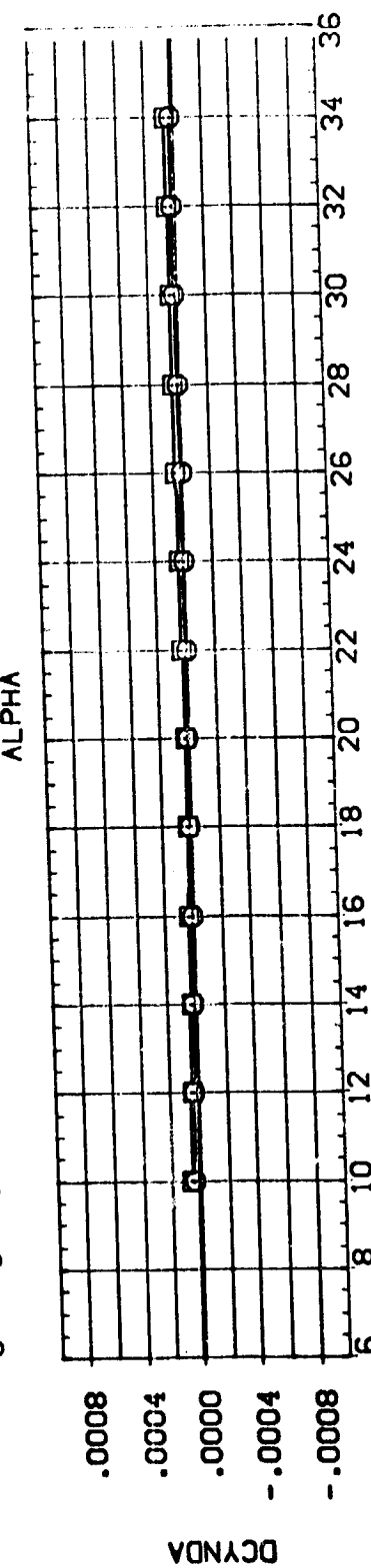
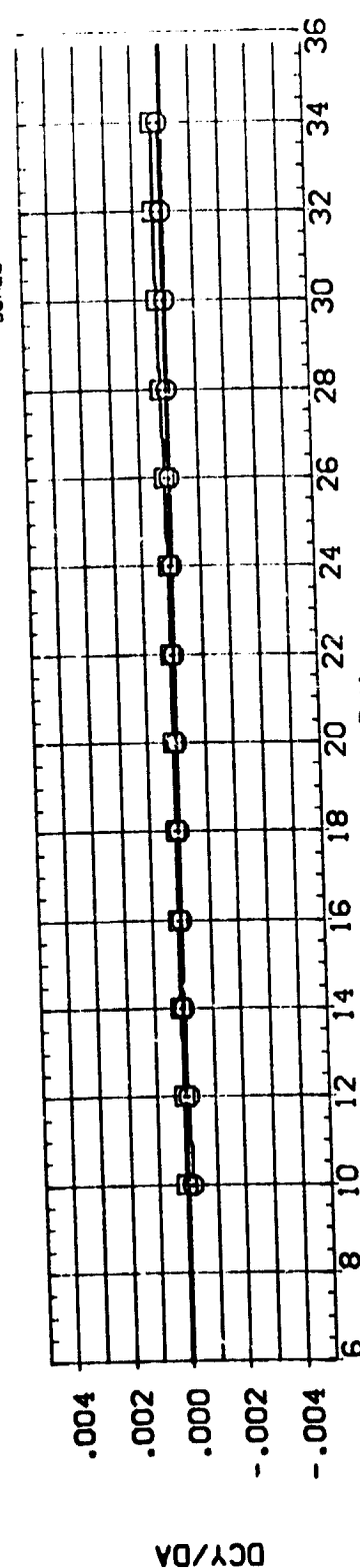
BETA
.000
.000

DELTA N
10.000
-10.000

ELEVTR
-30.000
-30.000

BOFLAP
-14.250
-14.250

REFERENCE INFORMATION
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LREF 3.5611
BREF 7.0251
XMRP 6.2602
YMRP .0000
ZMRP .0000
SCALE .0075



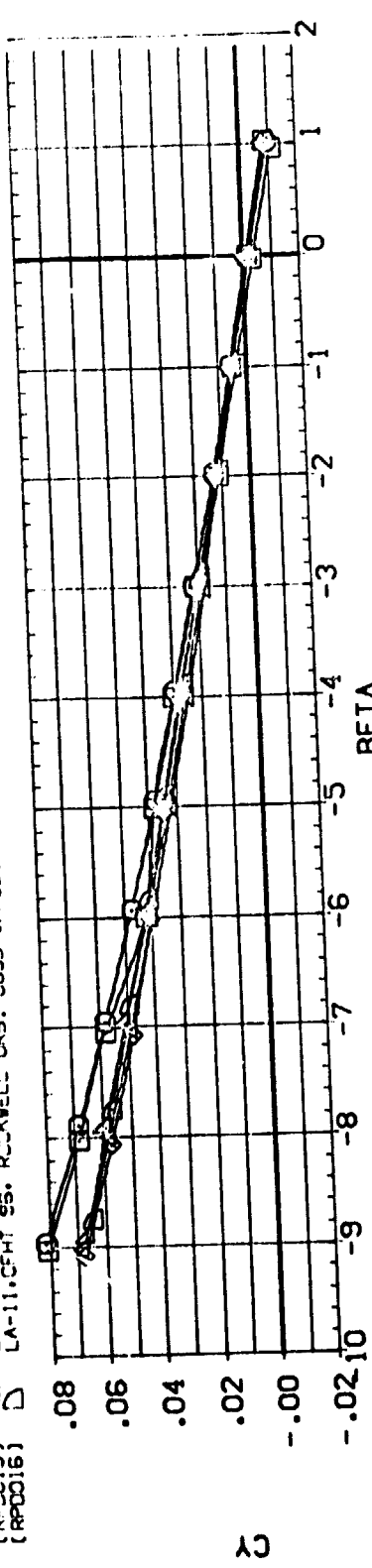
COMPARISON OFAILERON DERIVATIVES FOR OPPOSITE CONTROL DEFLECTION

(A)MACH = 10.30

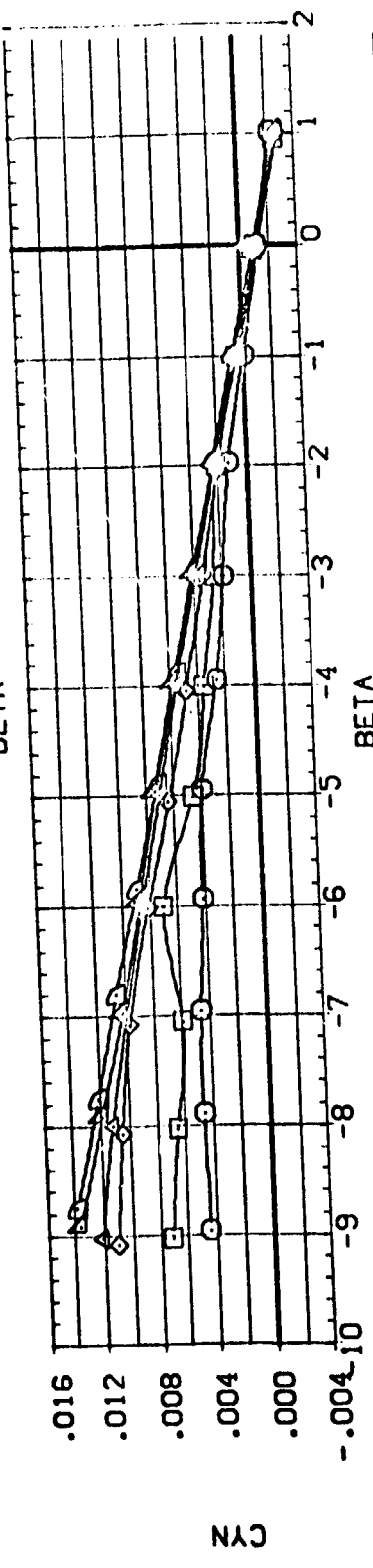
DATA SET SYMBOL: [RPO011], [RPO012], [RPO013], [RPO014], [RPO015], [RPO016]

CONFIGURATION DESCRIPTION: LA-11, CFHT; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE; ROCKWELL CR8; C899 V/MOD; NOSE

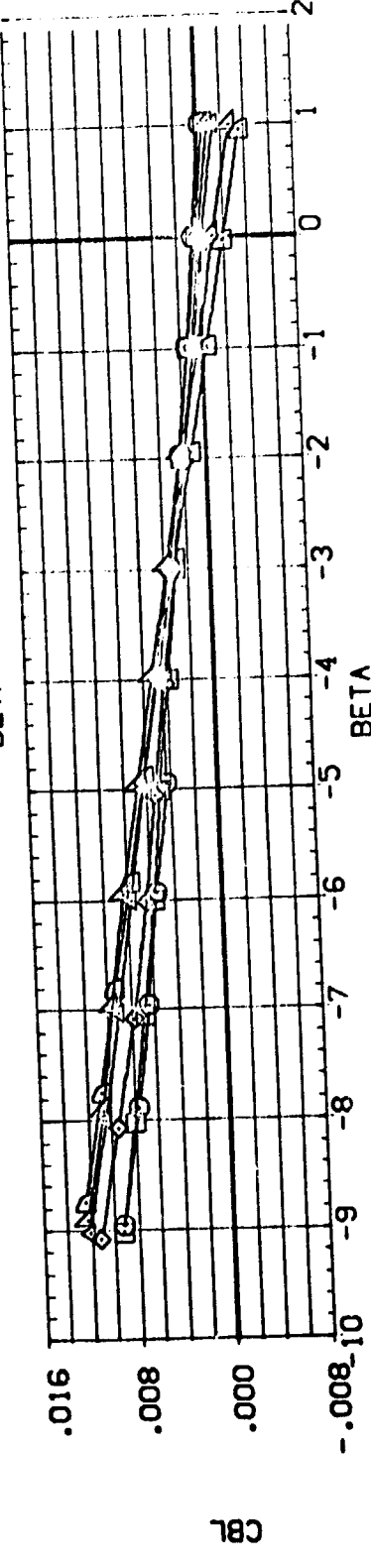
REFERENCE INFORMATION: SCALE: 21.7886; SREF: 3.5611; LREF: 7.0251; BREF: 6.2222; XMRP: 0.0000; YMRP: 0.0000; ZMRP: 0.0000; SCALE: 0.0075



CY



CYN

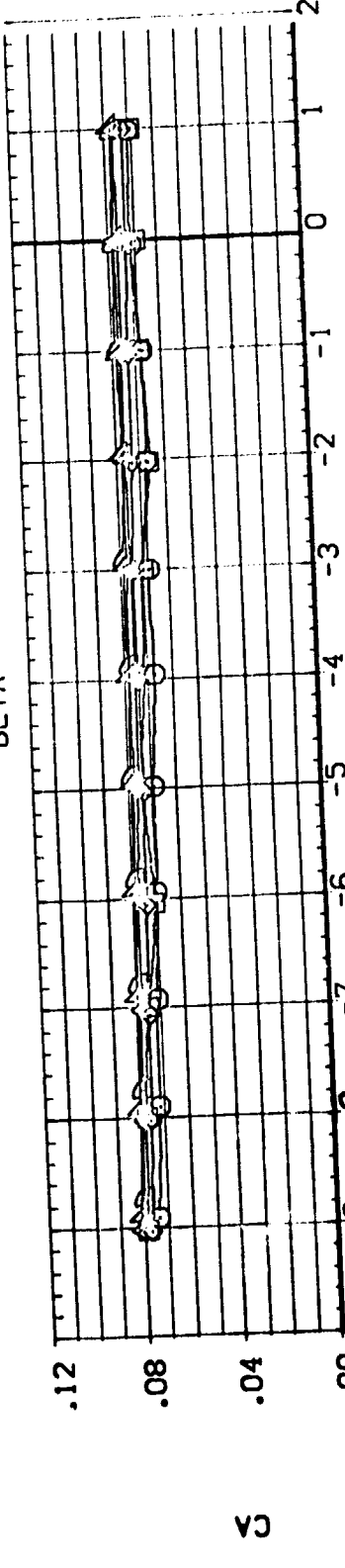
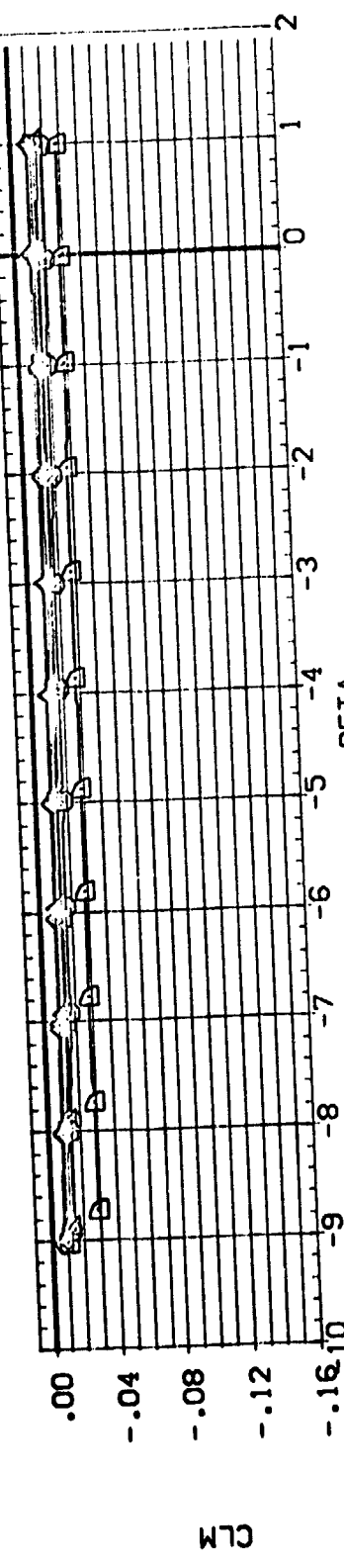
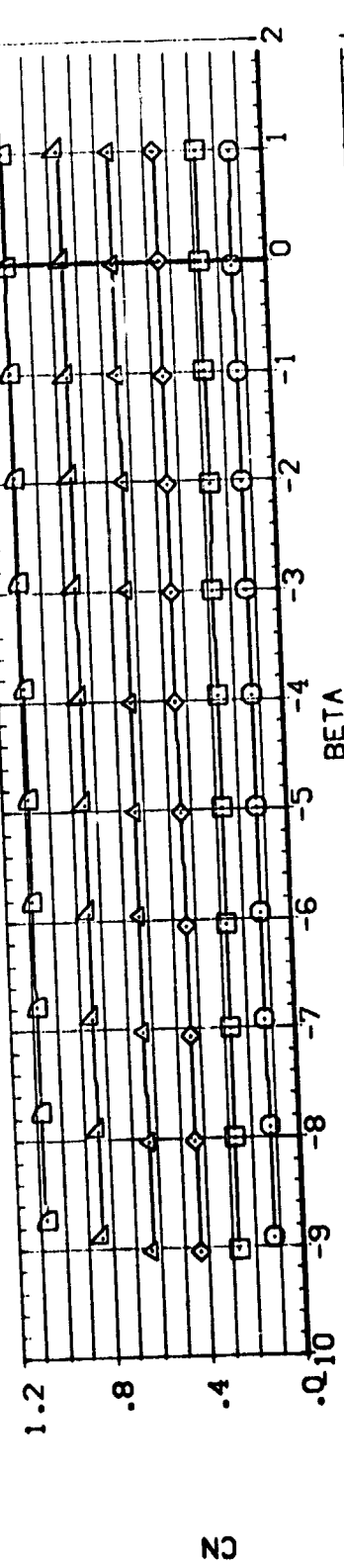


CBL

BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-10,AILERON= 0)



DATA SET SYMBOL: [Symbol] [Symbol] [Symbol] [Symbol]
 CONFIGURATION DESCRIPTION: LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 LA-11:CFHT 98: ROCKWELL CFB: C883 V/MOD: NOSE
 REFERENCE INFORMATION: SREF 21.7886 SC.IN. 2
 LREF 3.531 SC.IN. 1
 BREF 7.025 SC.IN. 1
 XMRP 6 SC.IN. 1
 YMRP 6 SC.IN. 1
 ZMRP 6 SC.IN. 1
 SCALE: .000 AILERON .000 BOFLAP -14.250 ALPHA 10.000 ELEVTR -20.000
 .000 .000 -14.250 .000 20.000
 .000 .000 -14.250 .000 20.000
 .000 .000 -14.250 .000 20.000
 .000 .000 -14.250 .000 20.000
 .000 .000 -14.250 .000 20.000



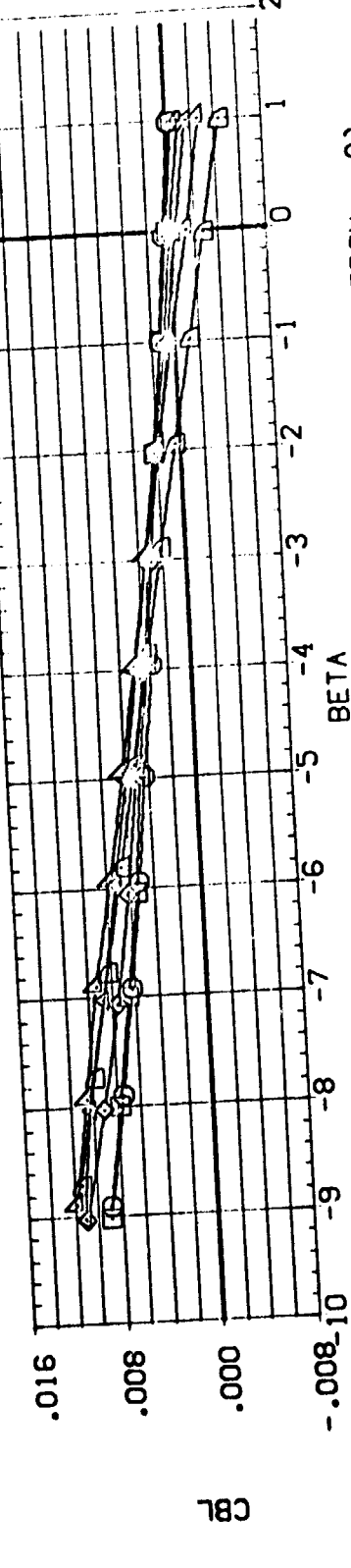
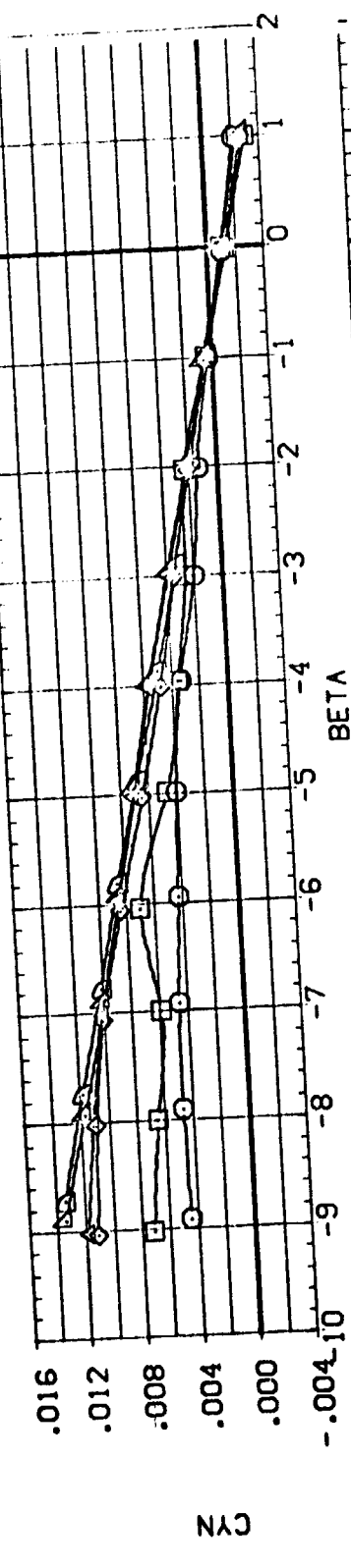
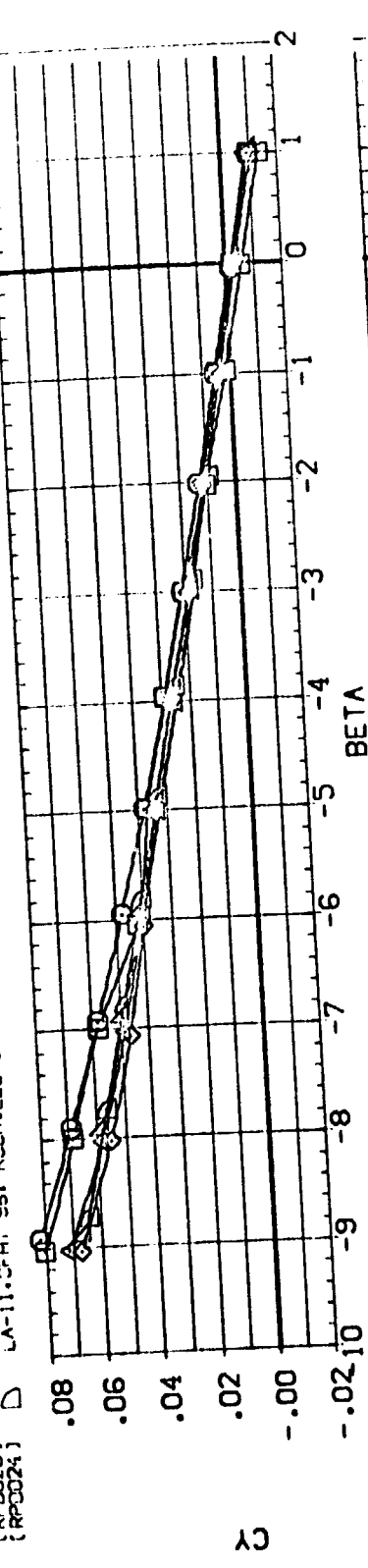
DATA SET SYMBOLS:
 (RP0019) □
 (RP0020) △
 (RP0021) ◇
 (RP0022) ○
 (RP0023) □
 (RP0024) △

CONFIGURATION DESCRIPTION
 LA-11: CFHT 96: ROCKWELL CRB.
 LA-11: CFHT 95: ROCKWELL CRB.
 LA-11: CFHT 94: ROCKWELL CRB.
 LA-11: CFHT 93: ROCKWELL CRB.
 LA-11: CFHT 92: ROCKWELL CRB.
 LA-11: CFHT 91: ROCKWELL CRB.

ALPHA ELEVTR AILERON BOFLAP
 10.000 -20.000 .000 -14.250
 15.000 -20.000 .000 -14.250
 20.000 -20.000 .000 -14.250
 25.000 -20.000 .000 -14.250
 30.000 -20.000 .000 -14.250
 35.000 -20.000 .000 -14.250

0893 V/MOD. NOSE
 0893 V/MOD. NOSE
 0893 V/MOD. NOSE
 0893 V/MOD. NOSE
 0893 V/MOD. NOSE
 0893 V/MOD. NOSE

REFERENCE INFORMATION
 SREF 21.7886
 LREF 3.5611
 BREF 7.0252
 XMRP 6
 YMRP .0000
 ZMRP .0000
 SCALE .0075



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-20,AILERON= 0)
 (A)MACH = 10.30



DATA SET SYMBOL
 (R0027)
 (R0028)
 (R0029)
 (R0030)
 (R0031)
 (R0032)

CONFIGURATION DESCRIPTION
 LA-11-CFHT 95: ROCKWELL CRB.
 LA-11-CFHT 95: ROCKWELL CRB.
 LA-11-CFHT 95: ROCKWELL CRB.
 LA-11-CFHT 95: ROCKWELL CRB.
 LA-11-CFHT 95: ROCKWELL CRB.
 LA-11-CFHT 95: ROCKWELL CRB.

NOSE
 V/MCO: 0893
 V/MCO: 0893
 V/MCO: 0893
 V/MCO: 0893
 V/MCO: 0893
 V/MCO: 0893

ALPHA
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 15.000
 20.000
 25.000
 30.000
 35.000

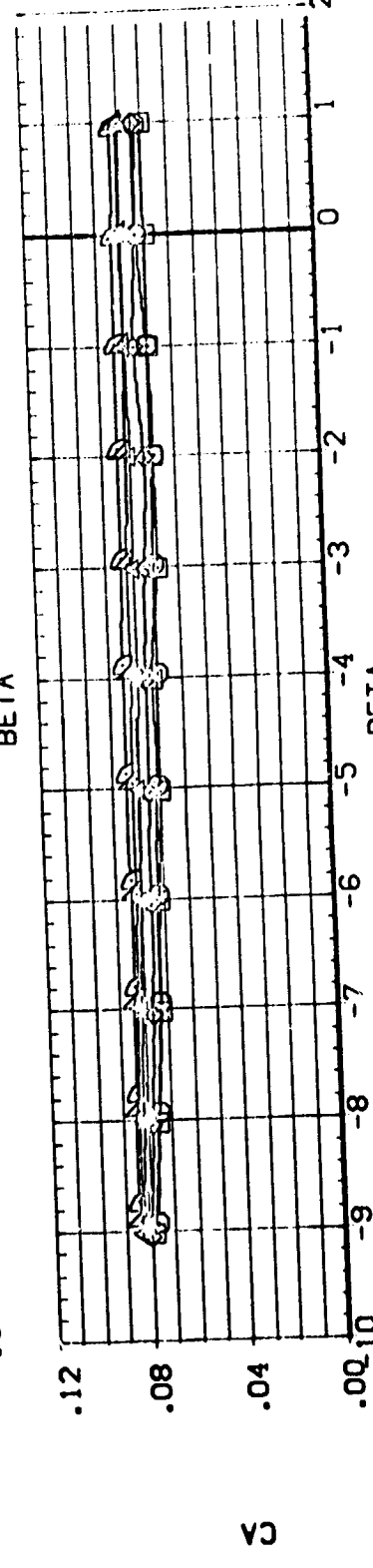
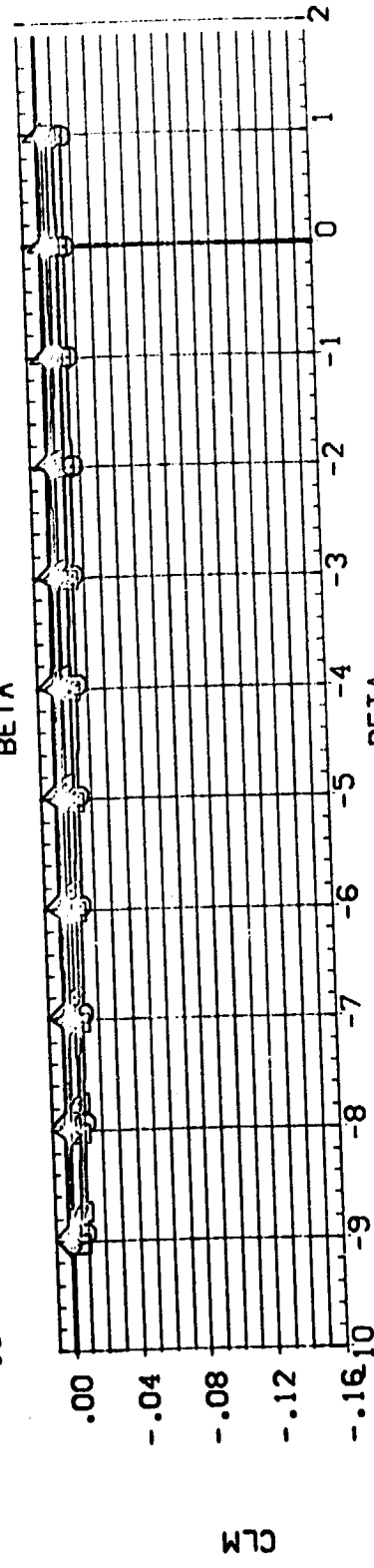
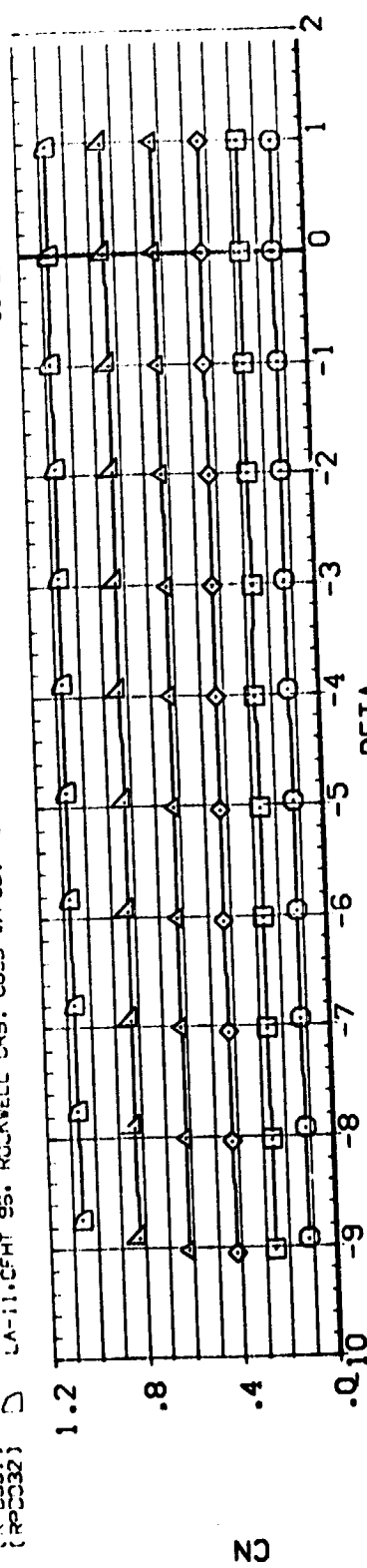
ELEVTR
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 -40.000
 -40.000
 -40.000
 -40.000
 -40.000

AILERON
 .000
 .000
 .000
 .000
 .000
 .000

BCFLAP
 -14.250
 -14.250
 -14.250
 -14.250
 -14.250
 -14.250

SCALE
 21.7885
 3.5611
 7.0222
 6
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SCALING
 X: 1
 Y: 1
 Z: 1
 S: 1
 SS: 1
 SSS: 1
 SSSS: 1



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-40,AILERON= 0)
 (M)MACH = 10.30
 PAGE 2:

DATA SET SYMBOL: [RP0027] [RP0028] [RP0029] [RP0030] [RP0031] [RP0032]

CONFIGURATION DESCRIPTION: LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE
 LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE
 LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE
 LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE
 LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE
 LA-11: CFHT 56: ROCKWELL C98: C989 V/MOD: NOSE

ALPHA: 10.000, 15.000, 20.000, 25.000, 30.000, 35.000

ELEVTR: 40.000, 40.000, 40.000, 40.000, 40.000, 40.000

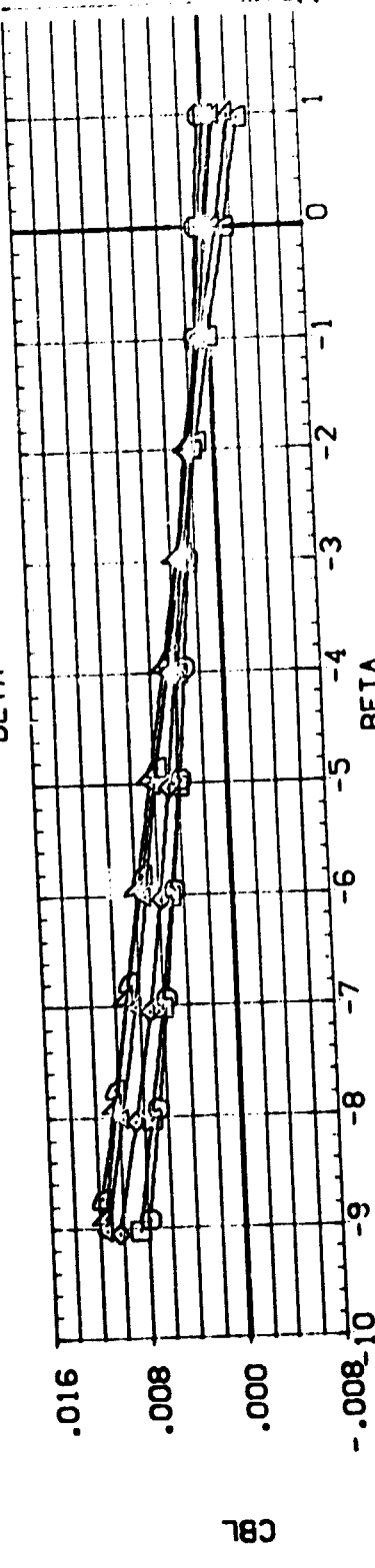
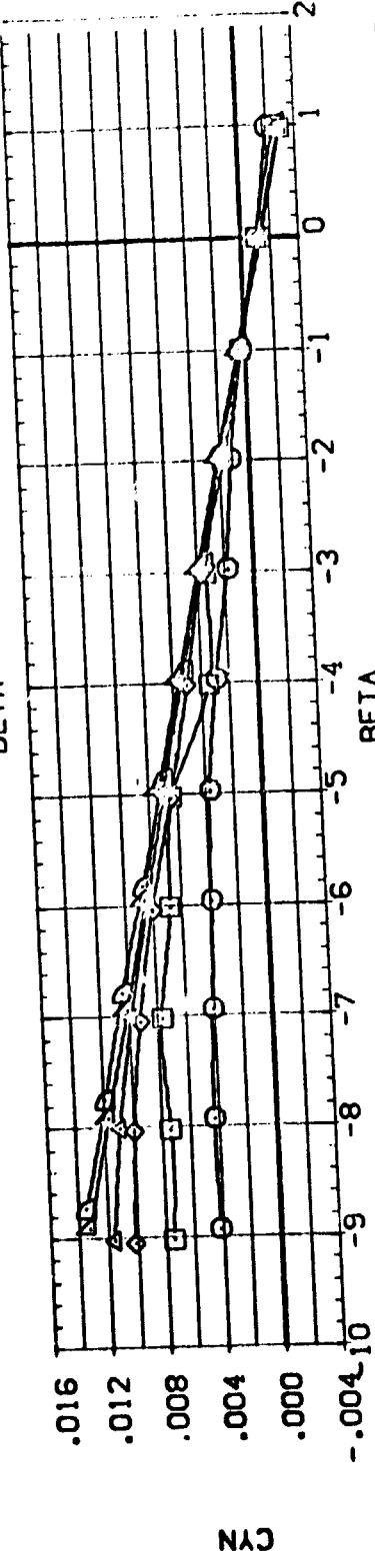
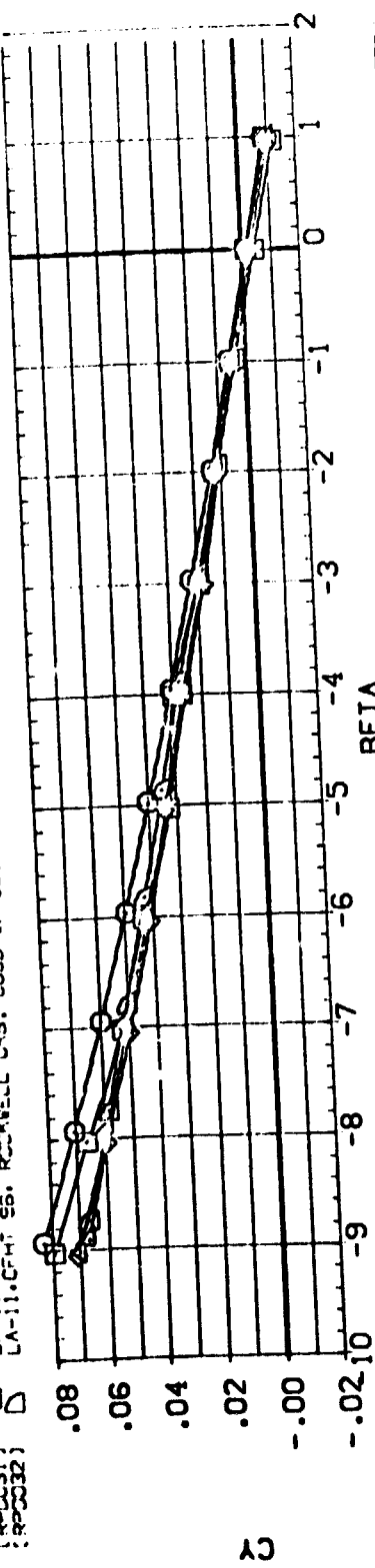
AILERON: .000, .000, .000, .000, .000, .000

BOFLAP: -14.250, -14.250, -14.250, -14.250, -14.250, -14.250

SCALE: 21.7895, 3.5611, 7.0262, 6, .00000, .00000, .00000, .00000

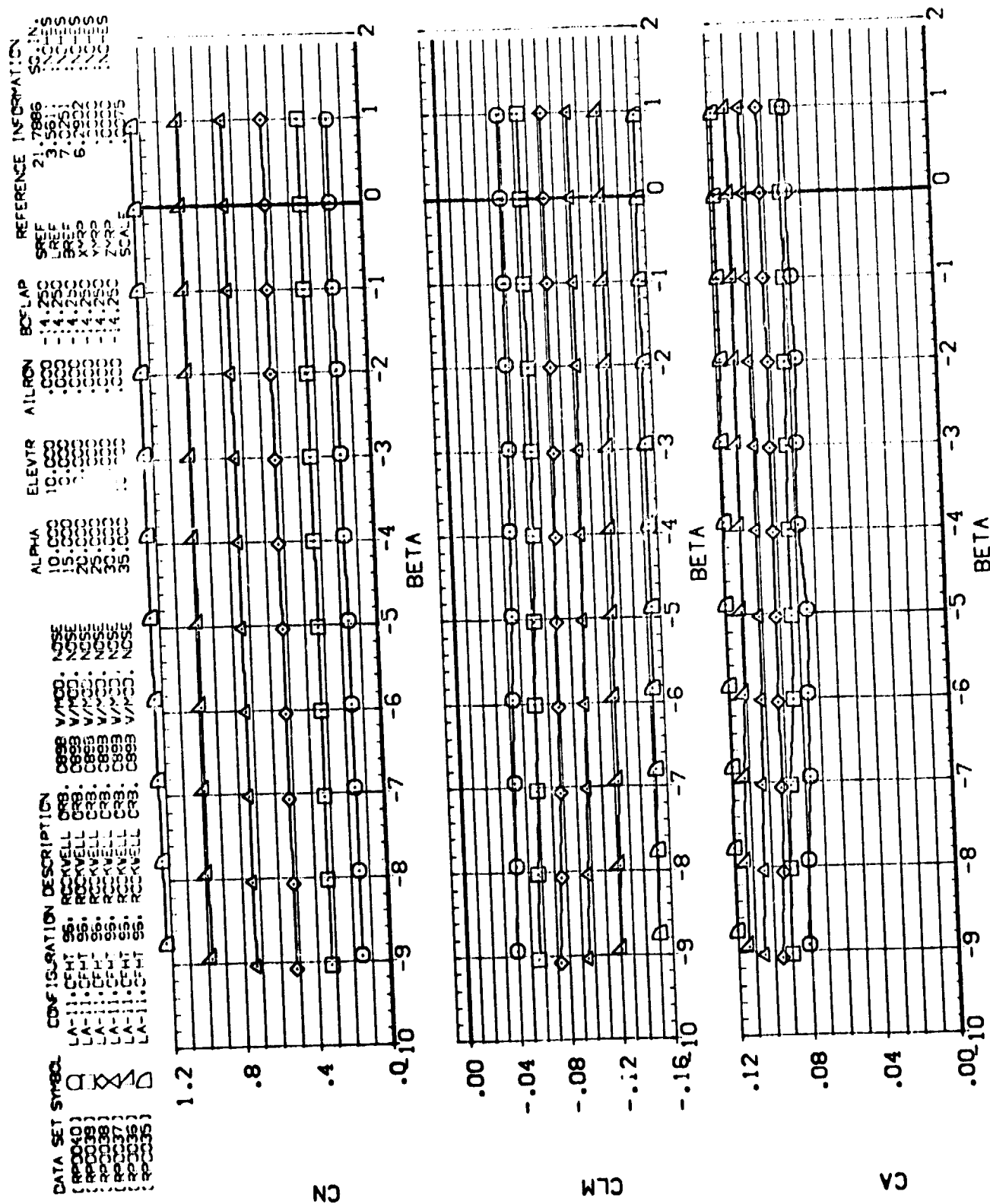
REFERENCE INFORMATION: SAGE, BRP, XMRP, YMRP, ZMRP, SCALE

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BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-40,AILERON= 0)

CAVMACH = 10.30



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR= 10,AILERON= 0)

(M)MACH = 10.30

DATA SET SYMCL
 (RP0040)
 (RP0039)
 (RP0038)
 (RP0037)
 (RP0036)
 (RP0035)

CONFIGURATION DESCRIPTION
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH
 LA-11: CPH

NOSE
 V/MCO
 V/MCO
 V/MCO
 V/MCO
 V/MCO
 V/MCO
 V/MCO
 V/MCO

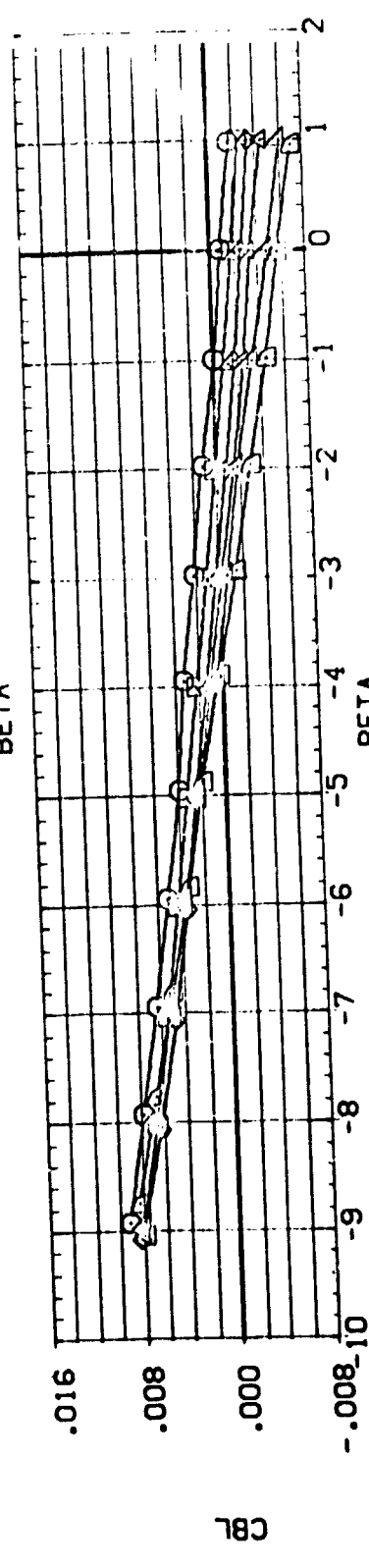
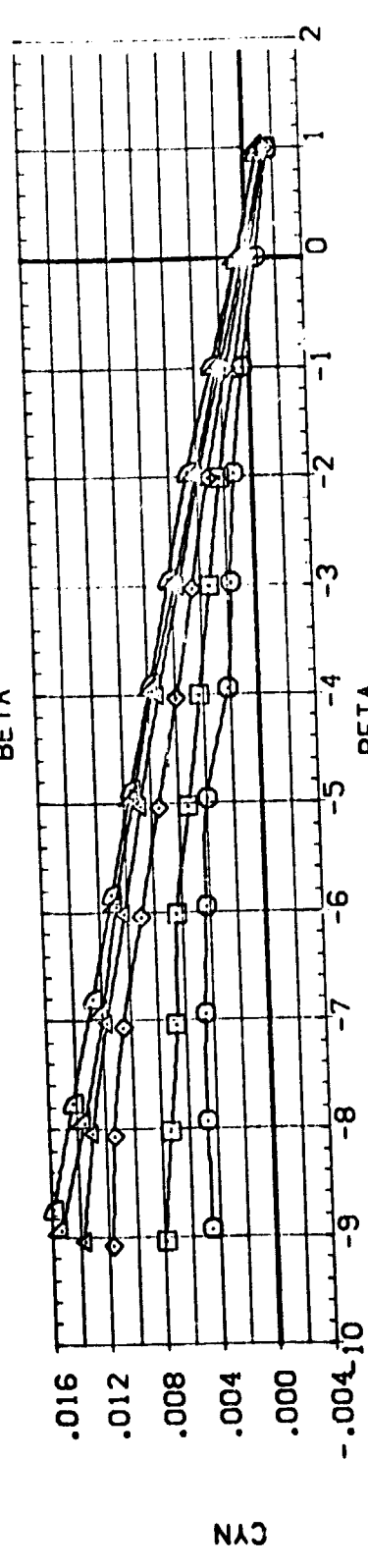
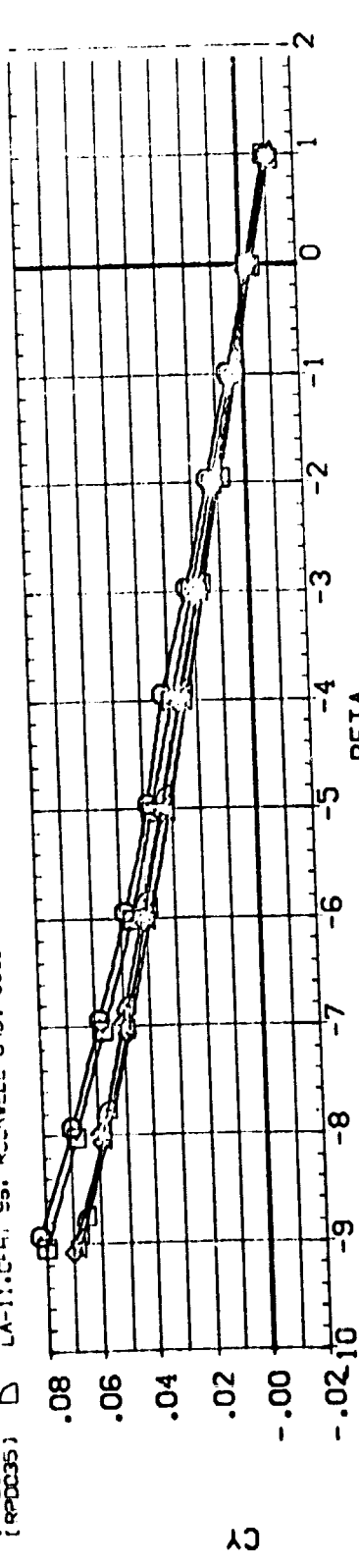
ALPHA
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 15.0000
 20.0000
 25.0000
 30.0000

ELEVTR
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 0.0000
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000

AILERON
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000
 0.0000

DELTA
 14.250
 14.250
 14.250
 14.250
 14.250
 14.250
 14.250
 14.250

REFERENCE INFORMATION
 SREF 21.7885
 LREF 3.5611
 BREF 7.0262
 VREF 6
 WREF 0.0000
 ZREF 0.0000
 SCALE 0.0005



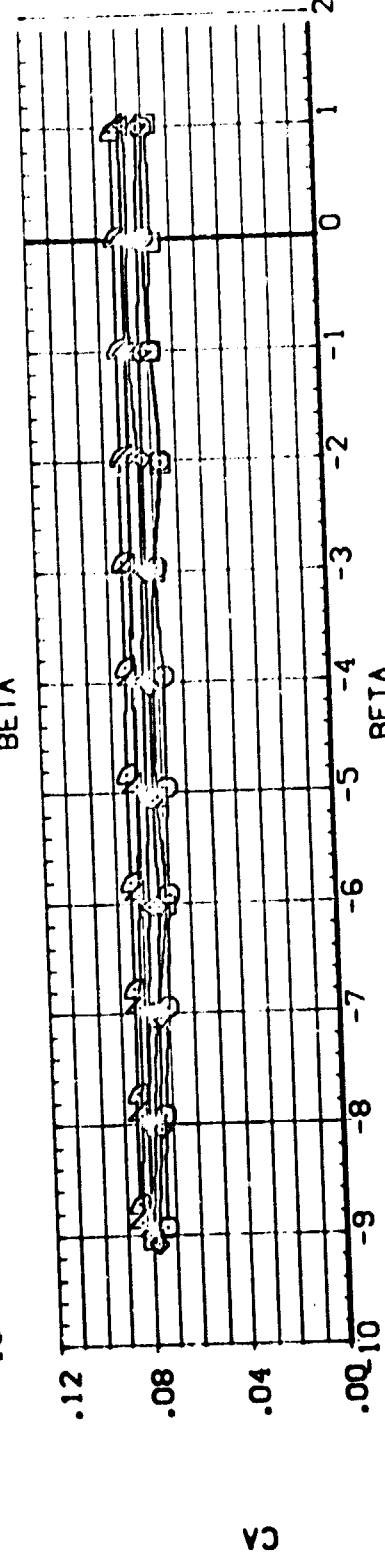
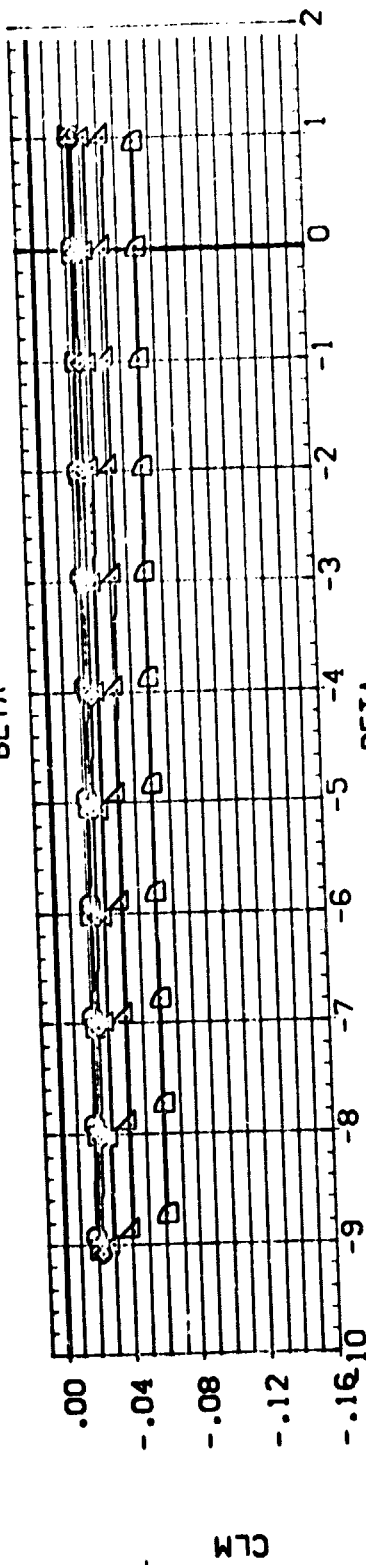
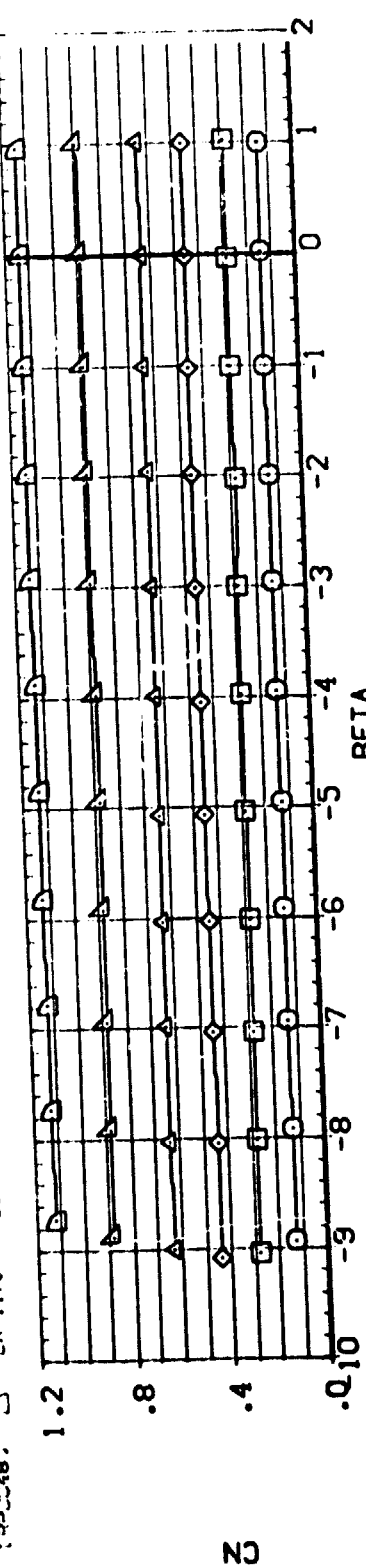
BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR= 10,AILERON= 0)
 (A)MACH = 10.30



DATA SET SYMBOL: Ω Σ Δ ∇ \square \circ
 [RPO043] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE
 [RPO044] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE
 [RPO045] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE
 [RPO046] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE
 [RPO047] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE
 [RPO048] LA-11: CFHT 96: ROCKWELL CR8: C893 V/MCO: NOSE

REFERENCE INFORMATION
 SREF: 2: 7885
 LREF: 1: 551
 XREF: 0: 252
 YREF: 0: 000
 ZREF: 0: 000
 SCALE: 0: 075

ALPHA: 10.000
 ELEVTR: -10.000
 AILERON: 10.000
 BOFLAP: -14.250



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-10,AILERON= 10)

(A)MACH = 10.30

DATA SET SYMBOL
 (R0001)
 (R0002)
 (R0003)
 (R0004)
 (R0005)
 (R0006)

CONFIGURATION DESCRIPTION
 LA-11: CHT 98: ROCKWELL
 LA-11: CHT 99: ROCKWELL
 LA-11: CHT 99: ROCKWELL
 LA-11: CHT 99: ROCKWELL
 LA-11: CHT 99: ROCKWELL
 LA-11: CHT 99: ROCKWELL

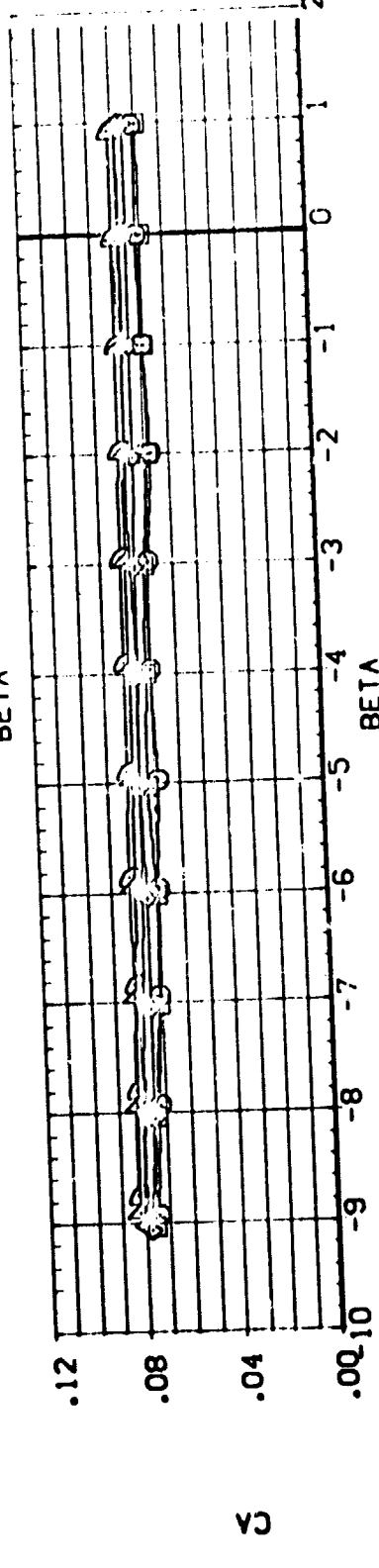
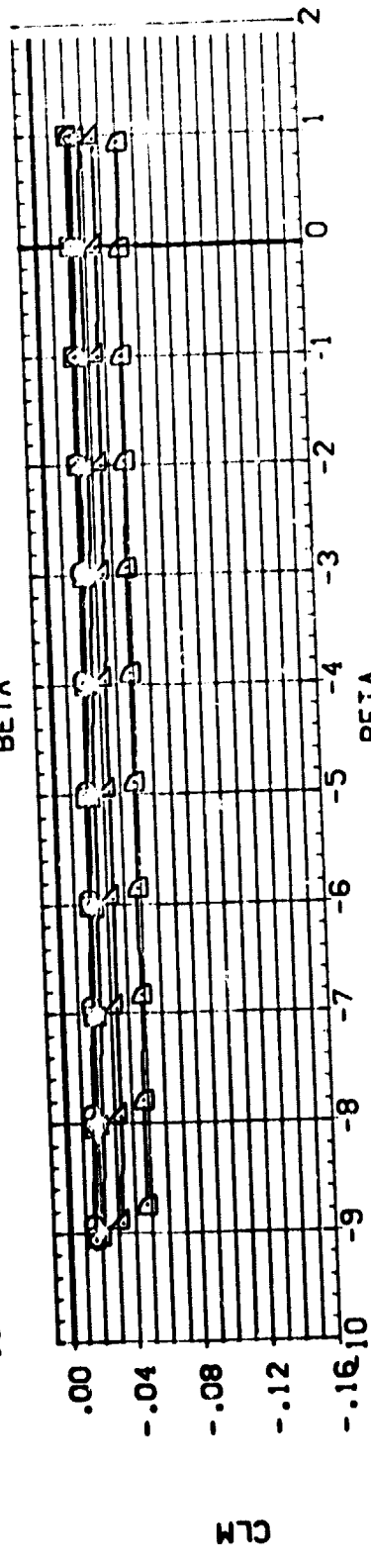
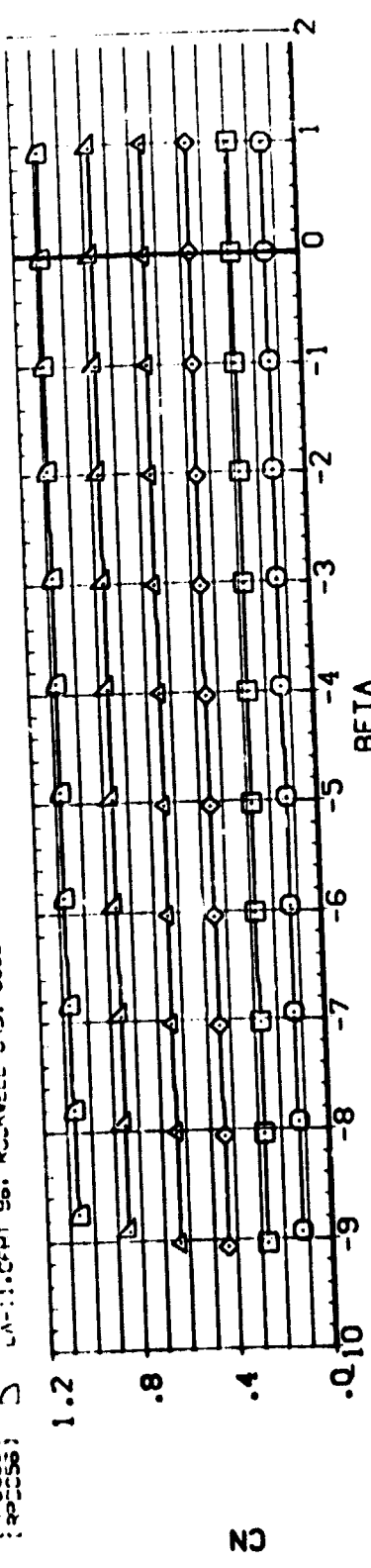
ALPHA
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 20.000
 25.000
 30.000
 35.000

ELEVTR
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 -10.000
 -10.000
 -10.000
 -10.000
 -10.000

AILERON
 -10.000
 -10.000
 -10.000
 -10.000
 -10.000
 -10.000

BOFLAP
 -14.200
 -14.200
 -14.200
 -14.200
 -14.200
 -14.200

REFERENCE INFORMATION
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 LREF 3.5500
 BREF 7.0000
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 SCALE 10000

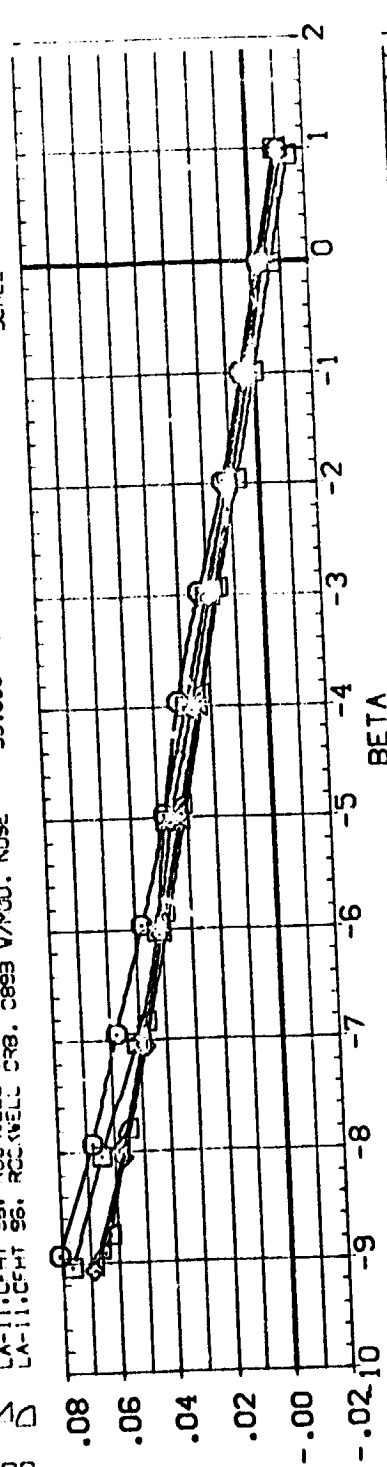


BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-10,AILERON=-10)

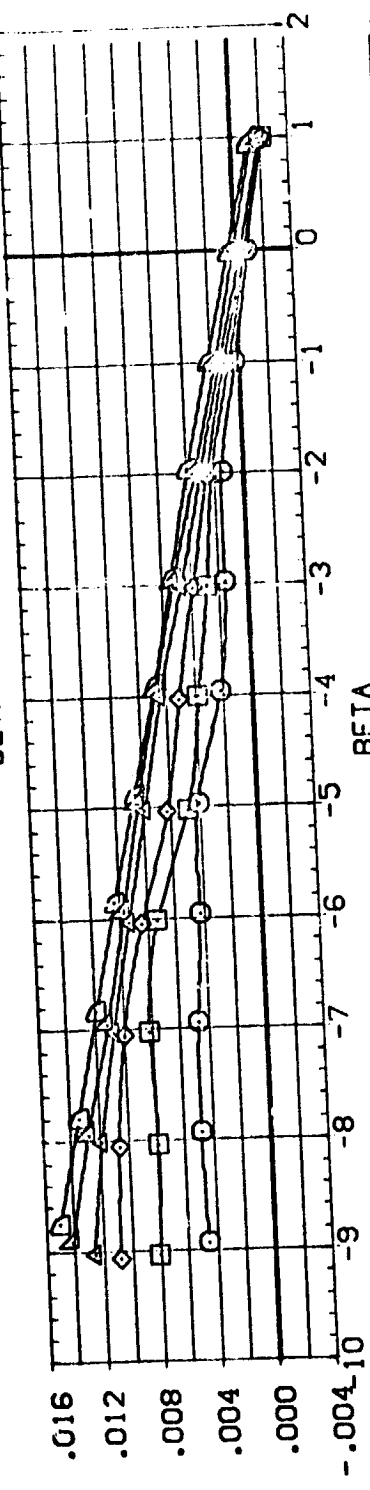
DATA SET SYMBOL
 (RPO031)
 (RPO032)
 (RPO033)
 (RPO034)
 (RPO035)
 (RPO036)

CONFIGURATION DESCRIPTION
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE
 LA-11:CFHT 96: ROCKWELL CR8: C893 V/MOD: NOSE

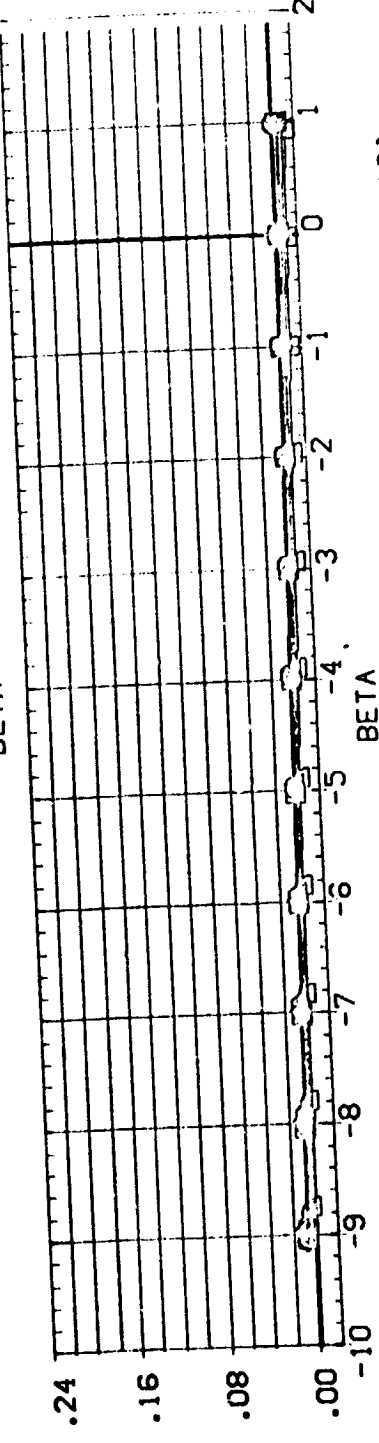
REFERENCE INFORMATION
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 LREF: 14.250
 BREF: 14.250
 XREF: 6
 YREF: 2.232
 ZREF: 0.000
 SCALE: 0.075



Cy



Cyn



Cbl

BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-10,AILERON=-10)



DATA SET SYMBOL: (RPD059), (RPD060), (RPD061), (RPD062), (RPD063)

CONFIGURATION DESCRIPTION: LA-11-CFHT 98, RCCAVELL CR8; LA-11-CFHT 99, RCCAVELL CR8; LA-11-CFHT 99, RCCAVELL CR8; LA-11-CFHT 99, RCCAVELL CR8; LA-11-CFHT 99, RCCAVELL CR8

NOSE V/100: 0898, 0899, 0899, 0899, 0899

ALPHA: 10.000, 15.000, 20.000, 25.000, 30.000

ELEVTR: -30.000, -30.000, -30.000, -30.000, -30.000

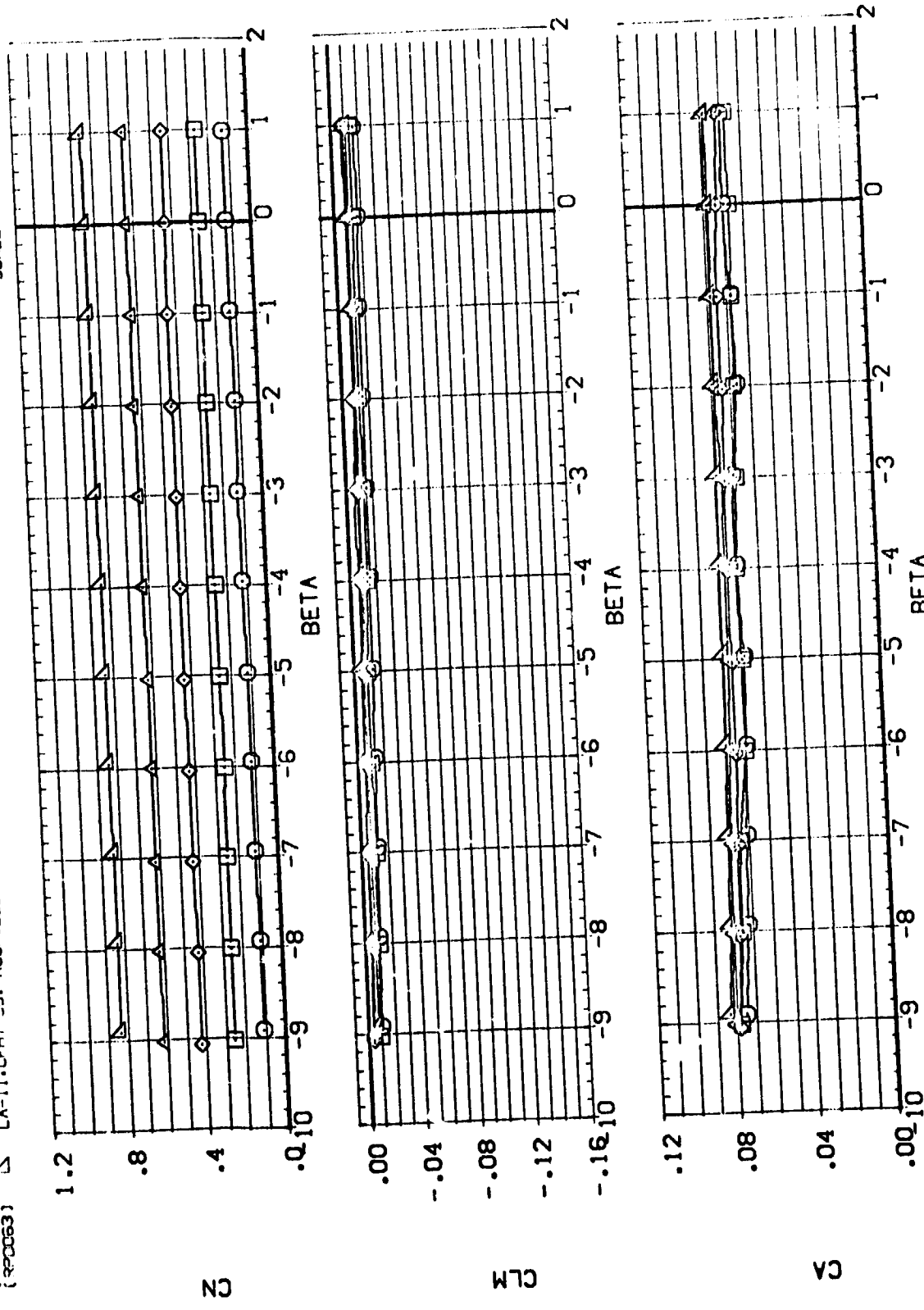
AILERON: -10.000, -10.000, -10.000, -10.000, -10.000

BOFLAP: -14.250, -14.250, -14.250, -14.250, -14.250

REFERENCE INFORMATION: SREF 21.7885, SREF 3.5511, SREF 7.0251, SREF 6.2902, SREF 6.0000, SREF 6.0000, SREF 6.0000, SREF 6.0000, SREF 6.0000, SREF 6.0000

SS IN: 5, 5, 5, 5, 5

SCALE: .0075



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-30,AILERON=-10)

(M)MACH = 10.30

DATA SET SYMBOL
 [RP0059]
 [RP0060]
 [RP0061]
 [RP0062]
 [RP0063]

CONFIGURATION DESCRIPTION
 LA-11: CFHT 96: ROCKWELL CR8: C898 V/MOD. NOSE
 LA-11: CFHT 96: ROCKWELL CR8: C898 V/MOD. NOSE
 LA-11: CFHT 96: ROCKWELL CR8: C898 V/MOD. NOSE
 LA-11: CFHT 96: ROCKWELL CR8: C898 V/MOD. NOSE
 LA-11: CFHT 96: ROCKWELL CR8: C898 V/MOD. NOSE

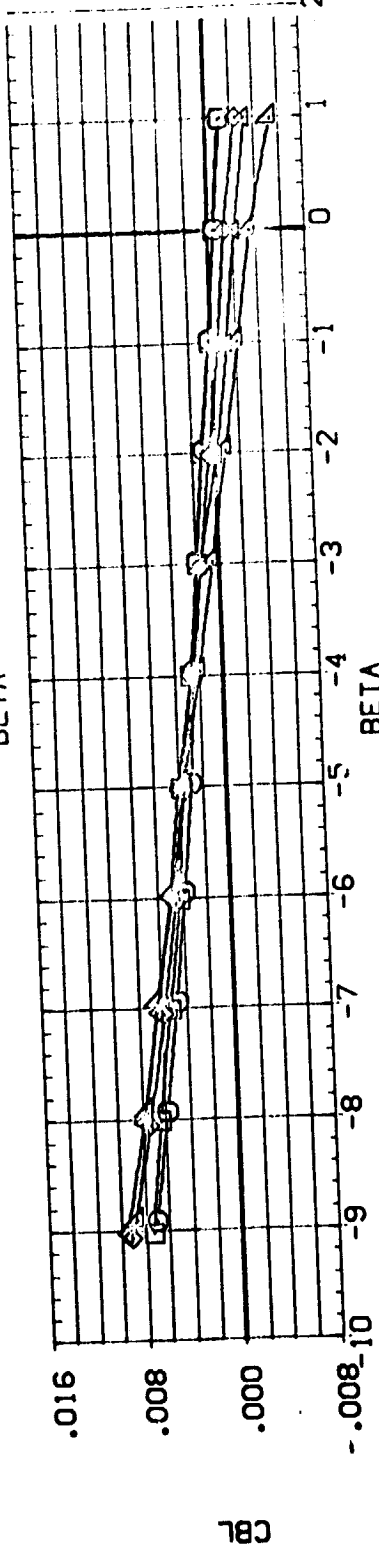
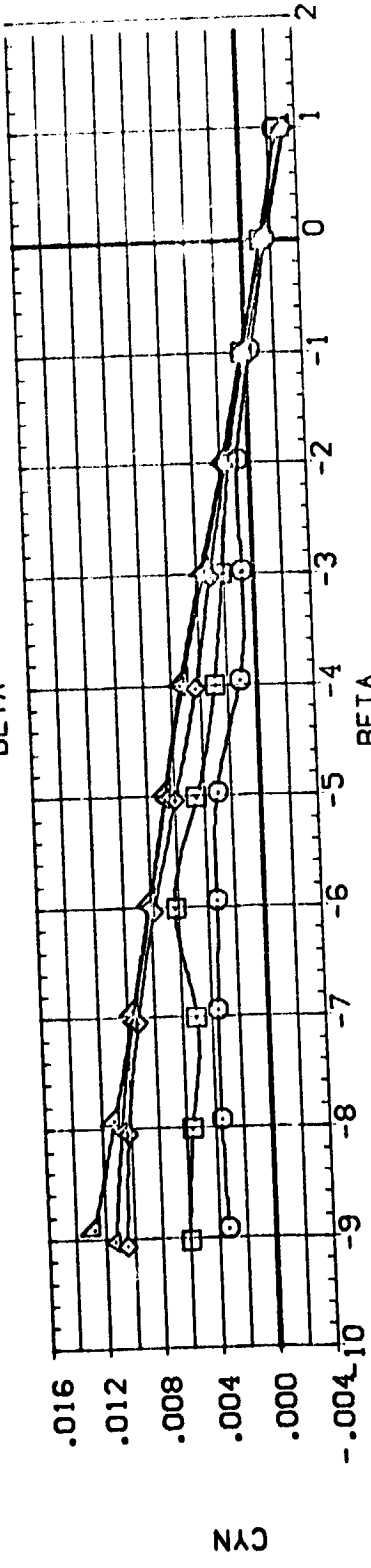
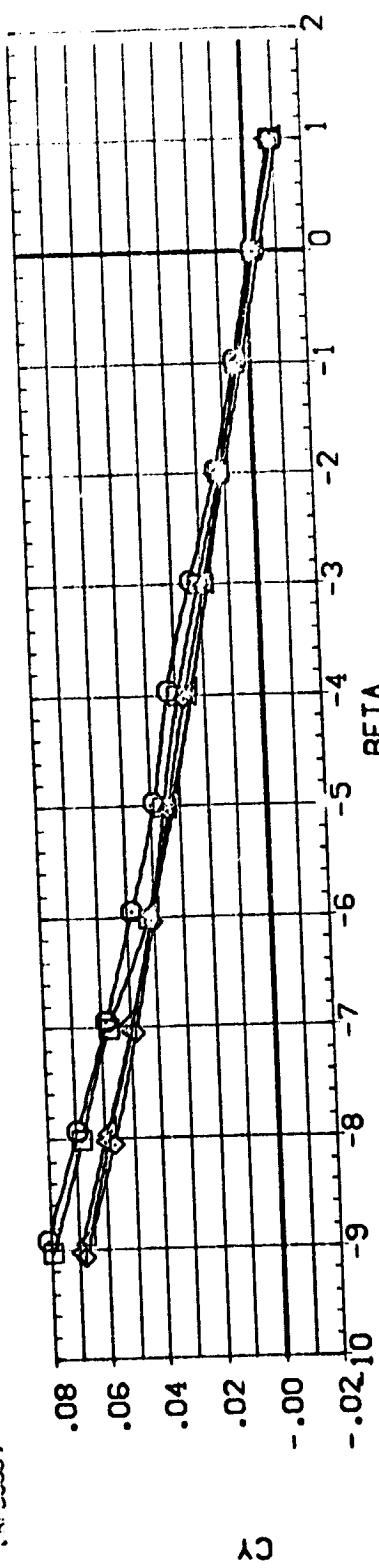
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 20.000
 25.000
 30.000

ELEVTR
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 -30.000
 -30.000
 -30.000
 -30.000

AILERON
 -10.000
 -10.000
 -10.000
 -10.000
 -10.000

BOFLAP
 -14.250
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 -14.250
 -14.250
 -14.250

REFERENCE INFORMATION
 SREF 21.7886
 LREF 3.5611
 BREF 7.0265
 XMRP 6.2802
 YMRP 0.0000
 ZMRP 0.0000
 SCALE 0.0075



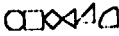
BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-30,AILERON=-10)

(A)MACH = 10.30



DATA SET SYMBOL

- (RP0072)
- (RP0071)
- (RP0070)
- (RP0069)
- (RP0068)
- (RP0067)



CONFIGURATION DESCRIPTION

- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE
- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE
- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE
- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE
- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE
- LA-11: CFHT 96; ROCKWELL CRB; D88B V/MCD; NOSE

ALPHA

- 10.000
- 15.000
- 20.000
- 25.000
- 30.000
- 35.000

ELEVTR

- 30.000
- 20.000
- 10.000
- 0.000
- 10.000
- 20.000

AILERON

- 0.000
- 10.000
- 20.000
- 30.000
- 40.000
- 50.000

BOFLAP

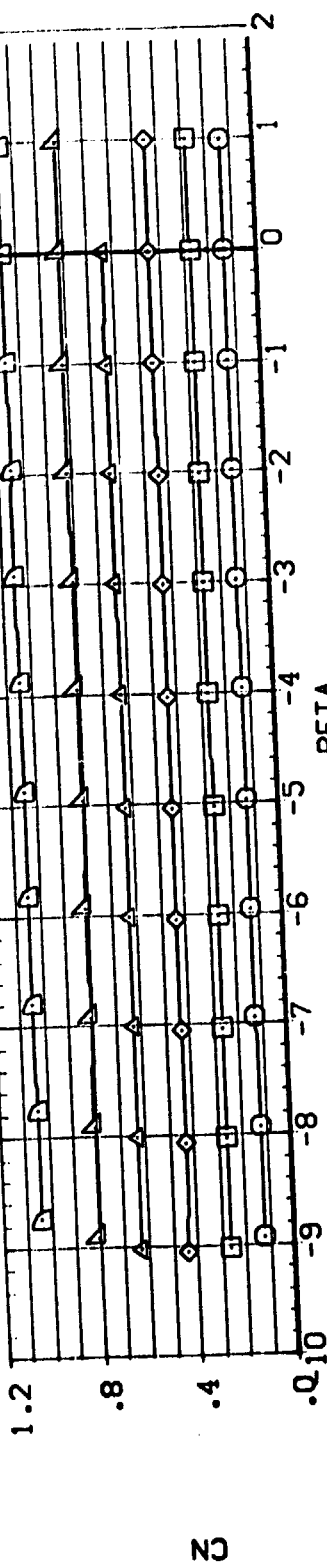
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- 14.250
- 14.250

REFERENCE INFORMATION

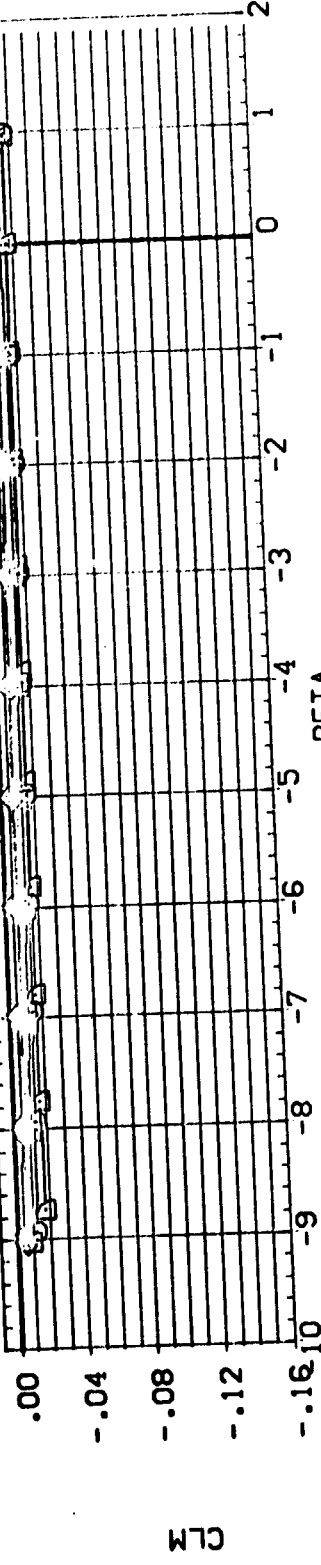
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- BREF: 7.2251
- X/SP: 6
- Y/SP: 6
- Z/SP: 6
- SCALE: .0075

SCALING

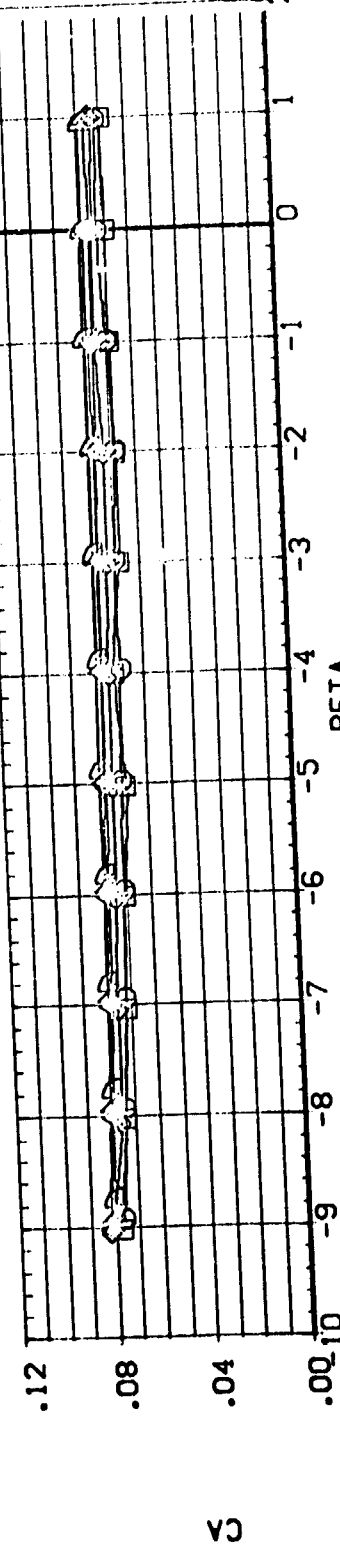
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- SCALING: 100000
- SCALING: 100000
- SCALING: 100000
- SCALING: 100000
- SCALING: 100000



BETA



BETA



BETA

BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-30,AILERON= 10)

(A)MACH = 10.30

DATA SET SYMBOL: (RP0072), (RP0071), (RP0070), (RP0069), (RP0068), (RP0067)

CONFIGURATION DESCRIPTION: LA-11: CFHT 96: ROCKWELL CRB, NOSE; LA-11: CFHT 98: ROCKWELL CRB, NOSE; LA-11: CFHT 99: ROCKWELL CRB, NOSE; LA-11: CFHT 95: ROCKWELL CRB, NOSE; LA-11: CFHT 95: ROCKWELL CRB, NOSE

0898 V/MCD, NOSE; 0899 V/MCD, NOSE; 0898 V/MCD, NOSE; 0899 V/MCD, NOSE; 0898 V/MCD, NOSE; 0899 V/MCD, NOSE

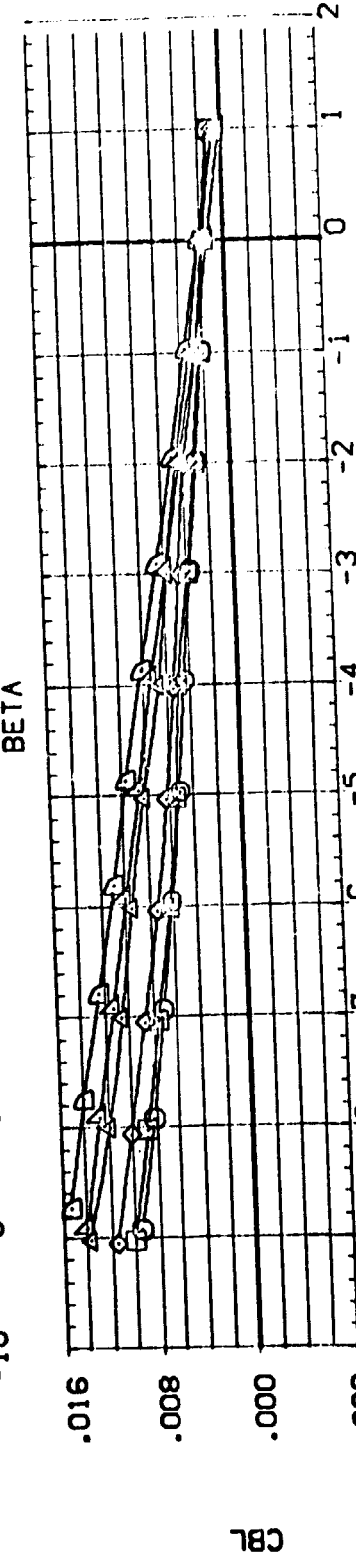
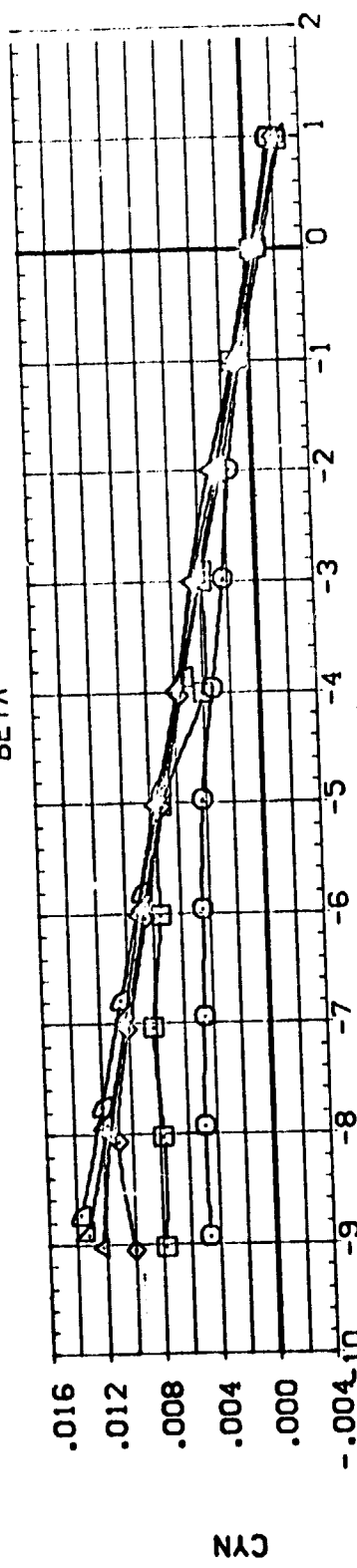
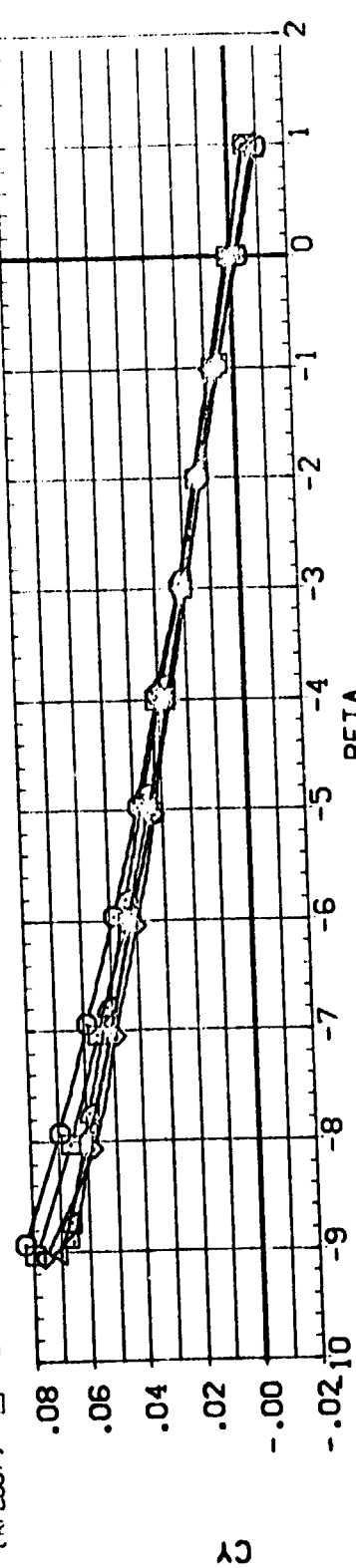
ALPHA: 10.000, 15.000, 20.000, 25.000, 30.000, 35.000

ELEVTR: -30.000, -30.000, -30.000, -30.000, -30.000, -30.000

AILERON: 10.000, 10.000, 10.000, 10.000, 10.000, 10.000

BDFLAP: -14.250, -14.250, -14.250, -14.250, -14.250, -14.250

REFERENCE INFORMATION: SREF: 21.7885, LREF: 3.5511, BREF: 7.0222, XMRP: 6.2022, YMRP: 1.0000, ZMRP: 1.0075, SCALE: 1.0000



BASIC AERODYNAMIC CHARACTERISTICS IN SIDESLIP (ELEVATOR=-30,AILERON= 10)



DATA SET SYMBOL: (RPO040) (RPO011) (RPO019) (RPO027)

CONFIGURATION DESCRIPTION: LA-11: CEHT 96: ROCKWELL CR8: C899 V/MOD: NOSE; LA-11: CEHT 98: ROCKWELL CR8: C899 V/MOD: NOSE; LA-11: CEHT 98: ROCKWELL CR8: C899 V/MOD: NOSE; LA-11: CEHT 98: ROCKWELL CR8: C899 V/MOD: NOSE

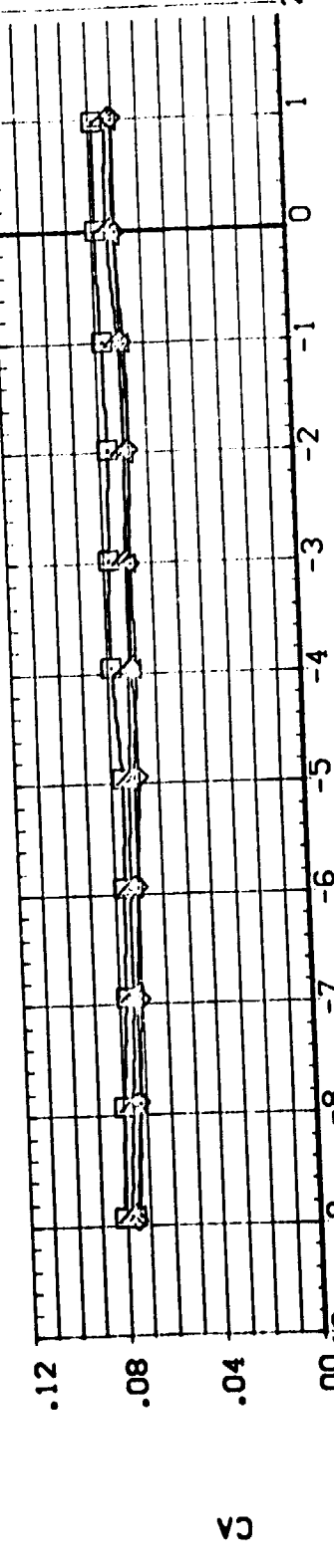
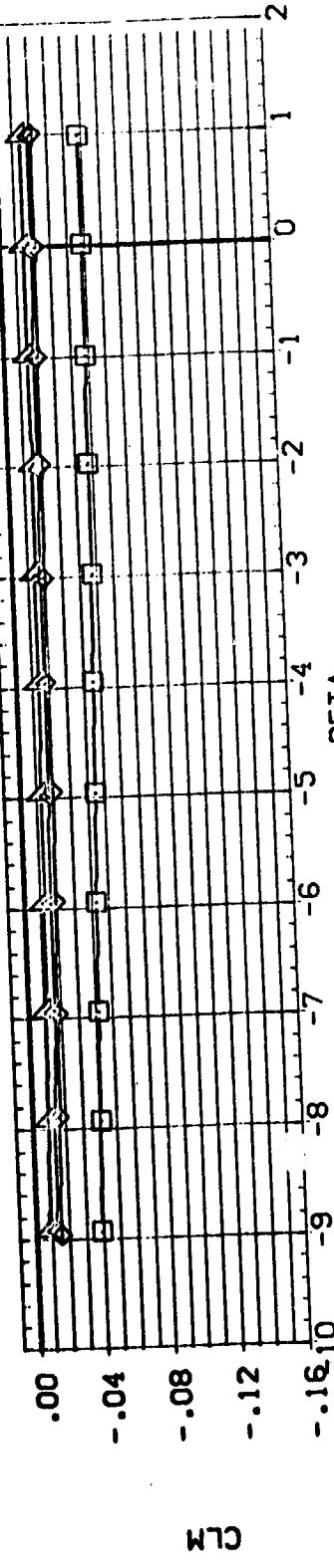
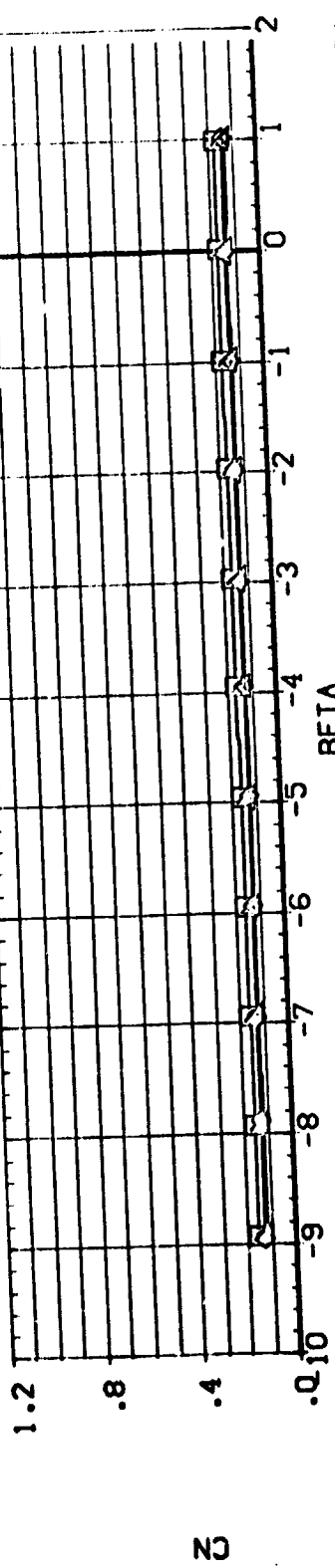
ALPHA: 10.000, 10.000, 10.000, 10.000, 10.000

ELEVTR: 10.000, 10.000, -10.000, -20.000, -40.000

AILERON: .000, .000, .000, .000, .000

BDFLAP: -14.250, -14.250, -14.250, -14.250, -14.250

REFERENCE INFORMATION: SREF: 21.7886, LREF: 3.5611, BREF: 7.0275, XPRP: 6.0000, YPRP: 0.0000, ZPRP: 0.0000, SCALE: 0.0075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA = 10 DEG.)

(A) MACH = 10.30

DATA SET SYMBOL: (RPO010), (RPO011), (RPO019), (RPO027)

CONFIGURATION DESCRIPTION: LA-11:CFHT 96: ROCKWELL CRB, LA-11:CFHT 96: ROCKWELL CRB, LA-11:CFHT 96: ROCKWELL CRB, LA-11:CFHT 96: ROCKWELL CRB

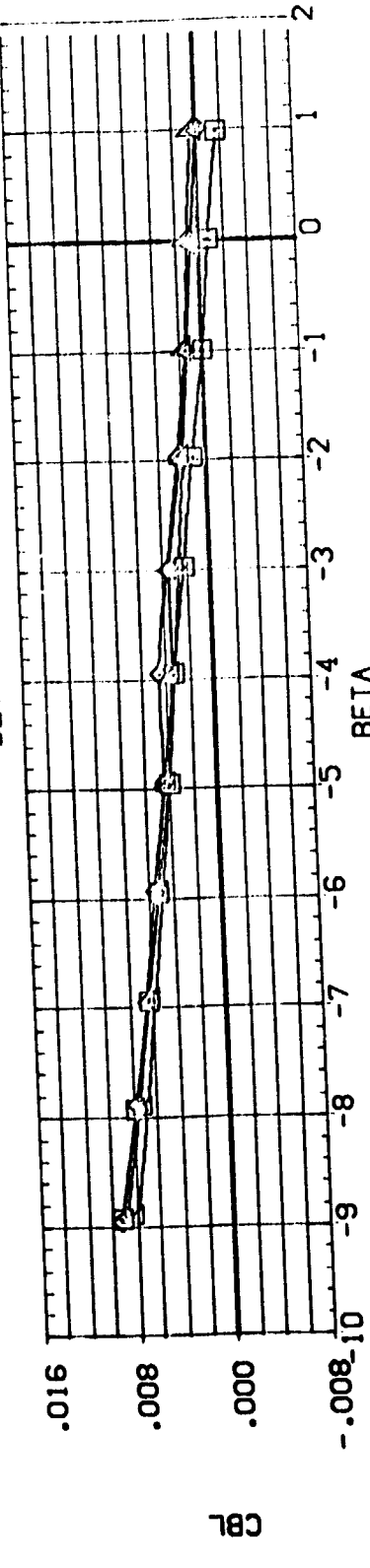
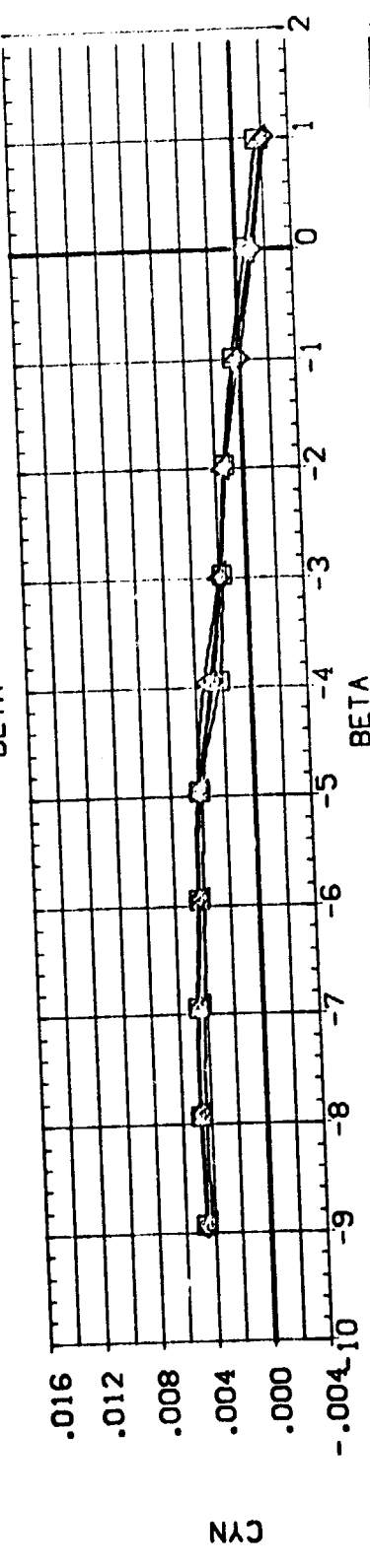
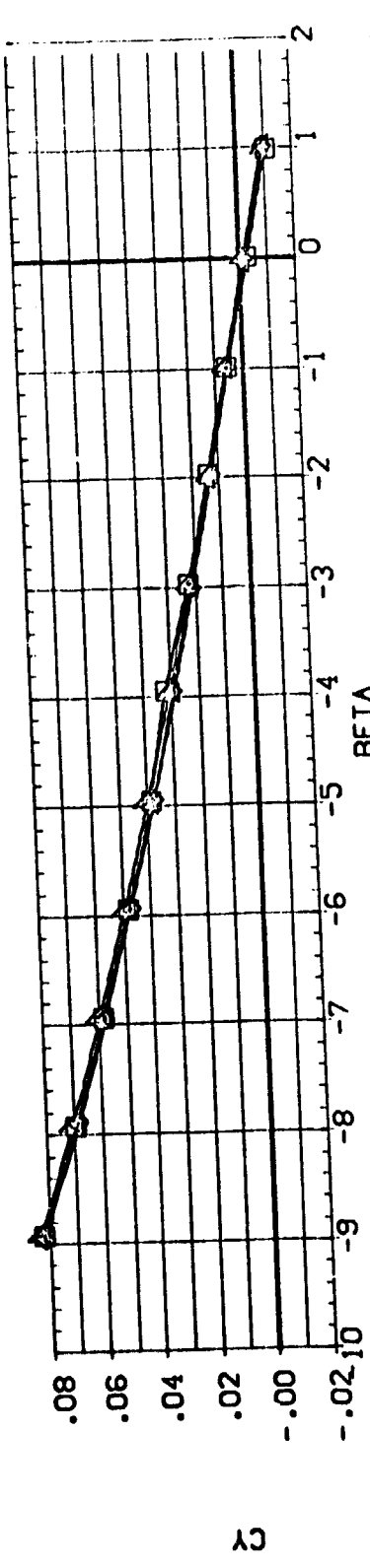
BOFLAP: -14.250, -14.250, -14.250, -14.250

AILRON: .000, .000, .000, .000

ELEVTR: 10.000, 10.000, 10.000, 10.000

ALPHA: 10.000, 10.000, 10.000, 10.000

REFERENCE INFORMATION: SREF: 21.7885, LREF: 3.5611, XMRP: 6.2802, YMRP: .0000, ZMRP: .0075, SCALE: .0075

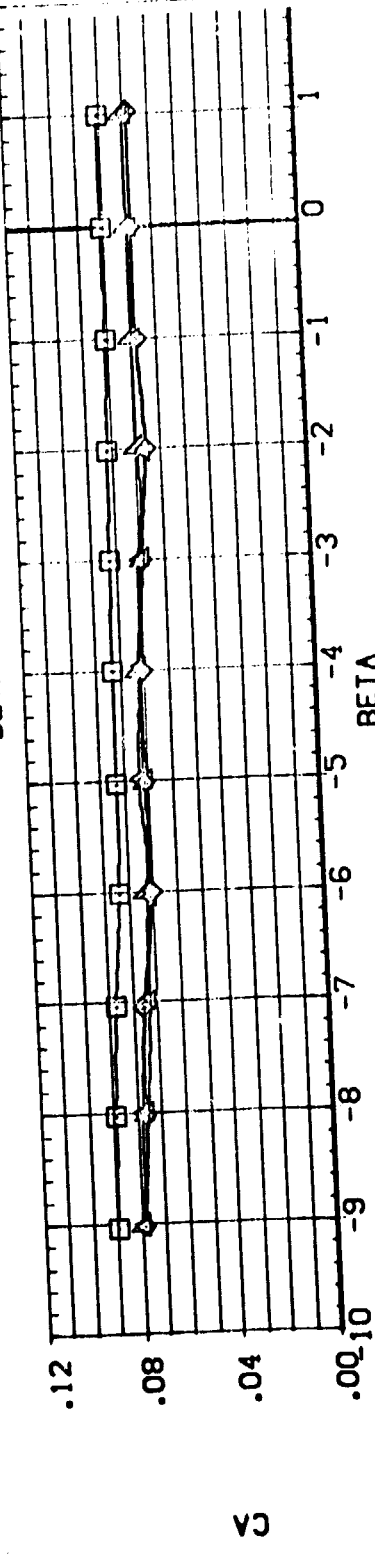
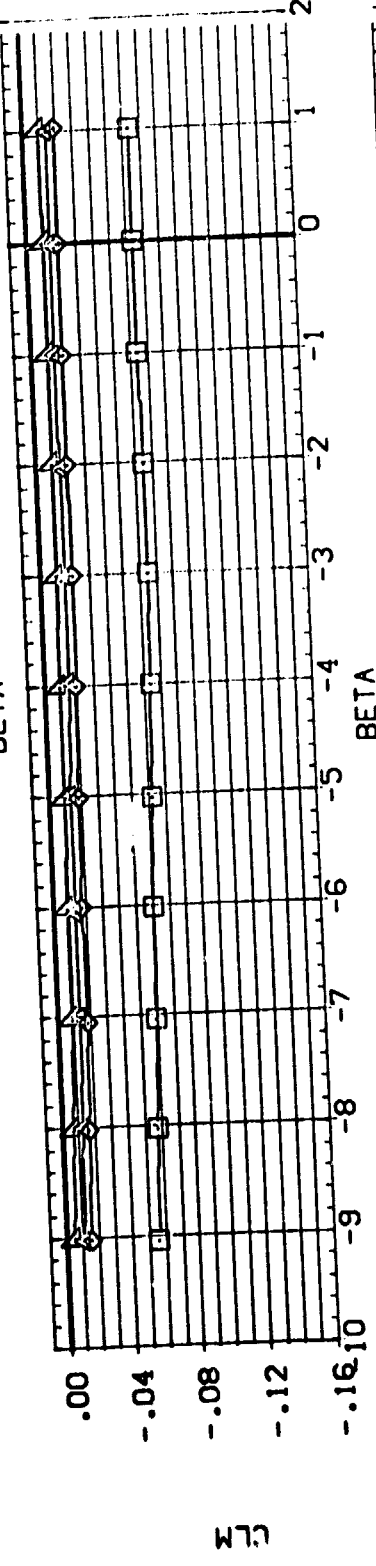
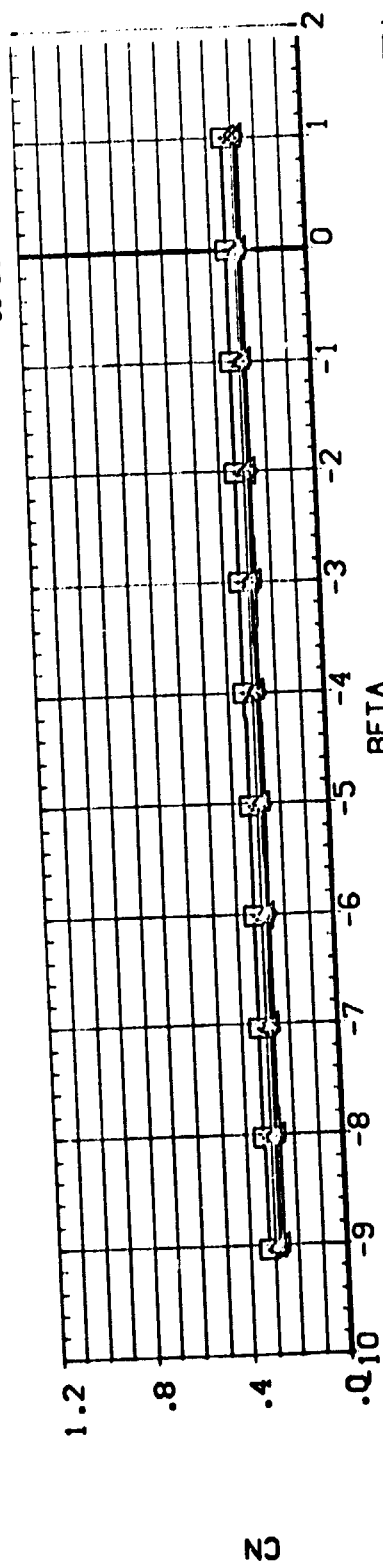


EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 10 DEG.)

(A)MACH = 10.30



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILTRON	BOFLAP	REFERENCE INFORMATION
[RFD0039]	LA-11: CFHT 56: ROCKWELL CR8: C889 V/MOD: NOSE	15.000	10.000	.000	-14.250	SREF 21.7886
[RFD0112]	LA-11: CFHT 56: ROCKWELL CR8: C889 V/MOD: NOSE	15.000	-10.000	.000	-14.250	LREF 3.5611
[RFD0020]	LA-11: CFHT 56: ROCKWELL CR8: C889 V/MOD: NOSE	15.000	-20.000	.000	-14.250	BREF 7.0261
[RFD0028]	LA-11: CFHT 56: ROCKWELL CR8: C889 V/MOD: NOSE	15.000	-40.000	.000	-14.250	YMRP 6.2232
						ZMRP .0000
						SCALE .0075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 15 DEG.)

MACH = 10.30

DATA SET SYMBOL
 [RPO039]
 [RPO012]
 [RPO023]
 [RPO028]

CONFIGURATION DESCRIPTION
 LA-11: CFHT 96: ROCKWELL CRB:
 LA-11: CFHT 96: ROCKWELL CRB:
 LA-11: CFHT 96: ROCKWELL CRB:
 LA-11: CFHT 96: ROCKWELL CRB:

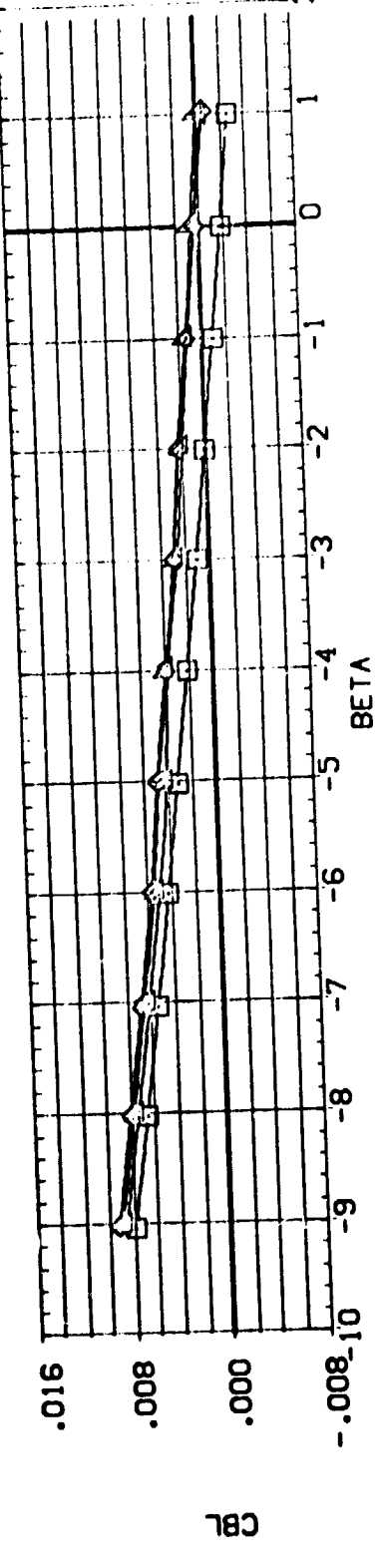
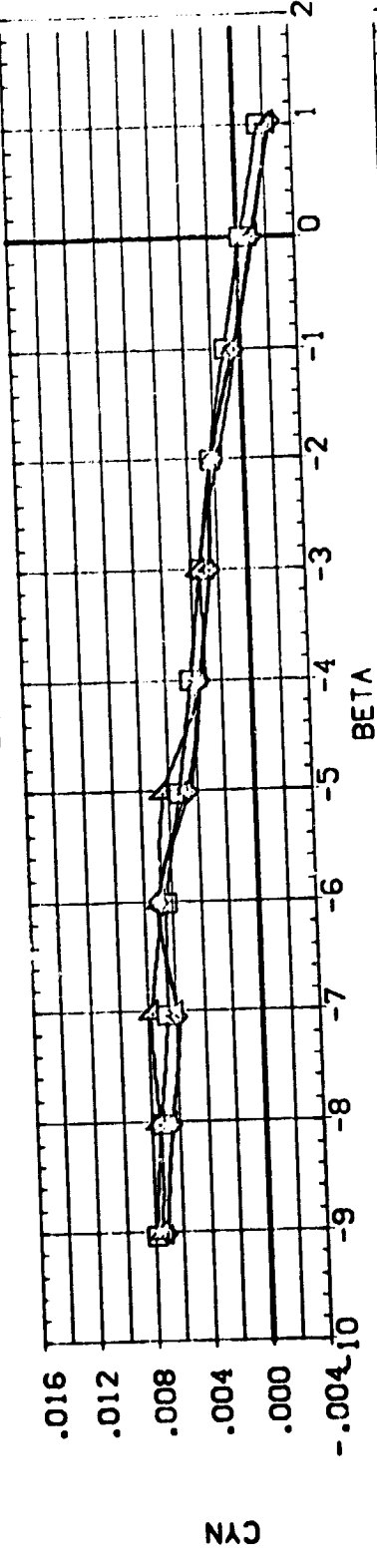
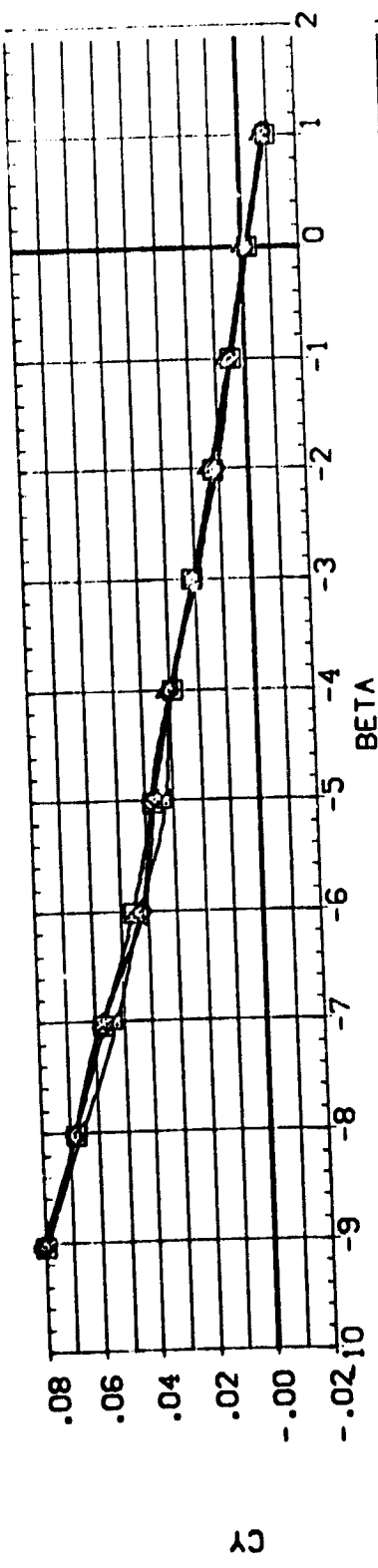
0899 V/MCD: NOSE
 0899 V/MCD: NOSE
 0899 V/MCD: NOSE
 0899 V/MCD: NOSE

ALPHA
 15.000
 15.000
 15.000
 15.000

ELEVTR
 10.000
 -10.000
 -20.000
 -40.000

AILTRON BOFLAP
 .000 -14.250
 .000 -14.250
 .000 -14.250
 .000 -14.250

REFERENCE INFORMATION
 SREF 21.7885
 LREF 3.5511
 BREF 7.0251
 XMRP 6.2722
 YMRP .0000
 ZMRP .0000
 SCALE .0075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 15 DEG.)

(A)MACH = 10.30



DATA SET SYMSC.
 [R00028]
 [R00013]
 [R00022]
 [R00029]

CONFIGURATION DESCRIPTION
 LA-1: CHT 96: ROCKWELL C93.
 LA-1: CHT 96: ROCKWELL C93.
 LA-1: CHT 96: ROCKWELL C93.
 LA-1: CHT 96: ROCKWELL C93.

0888 V/MOD: NOSE
 0889 V/MOD: NOSE
 0890 V/MOD: NOSE
 0891 V/MOD: NOSE

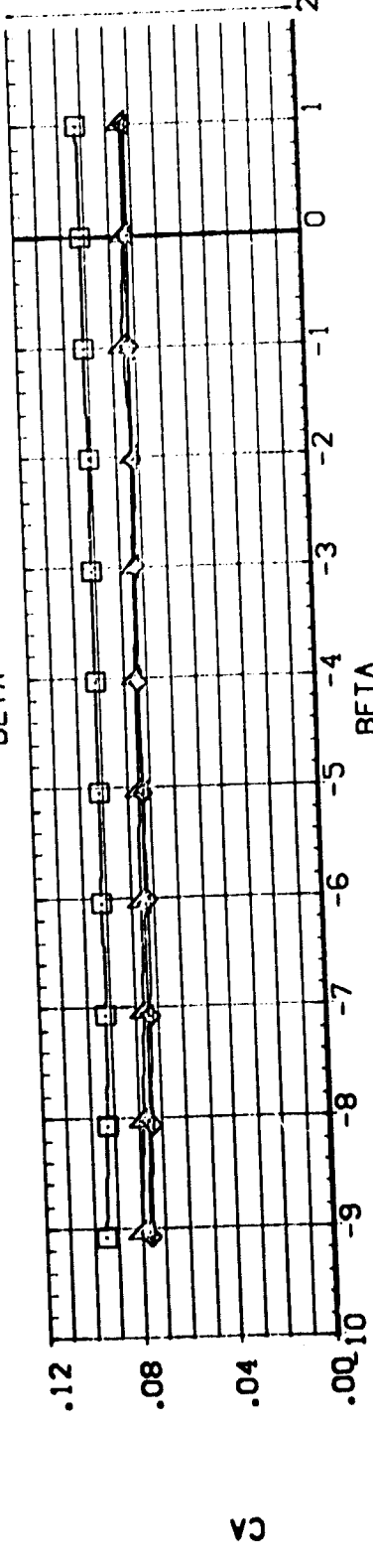
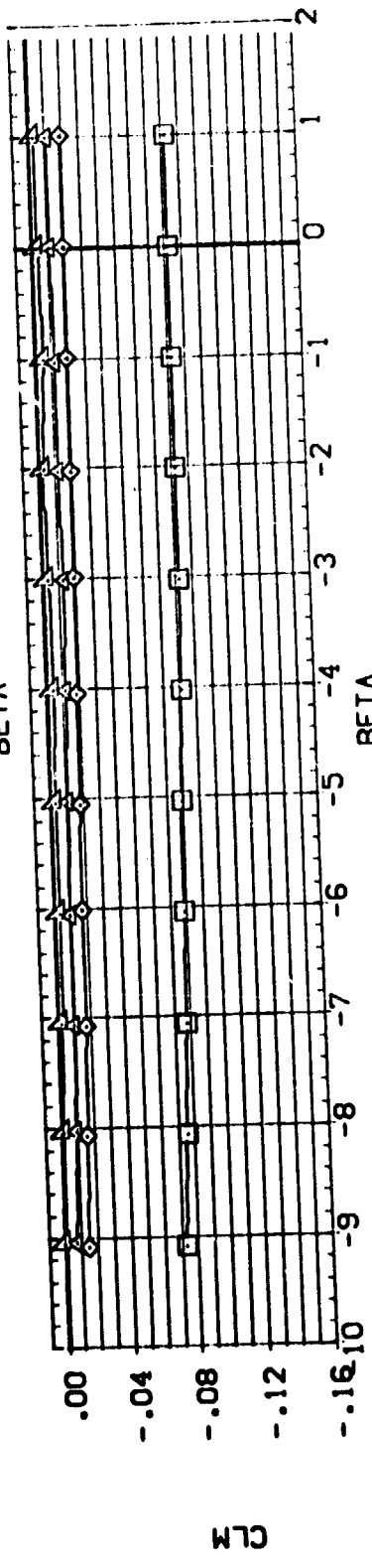
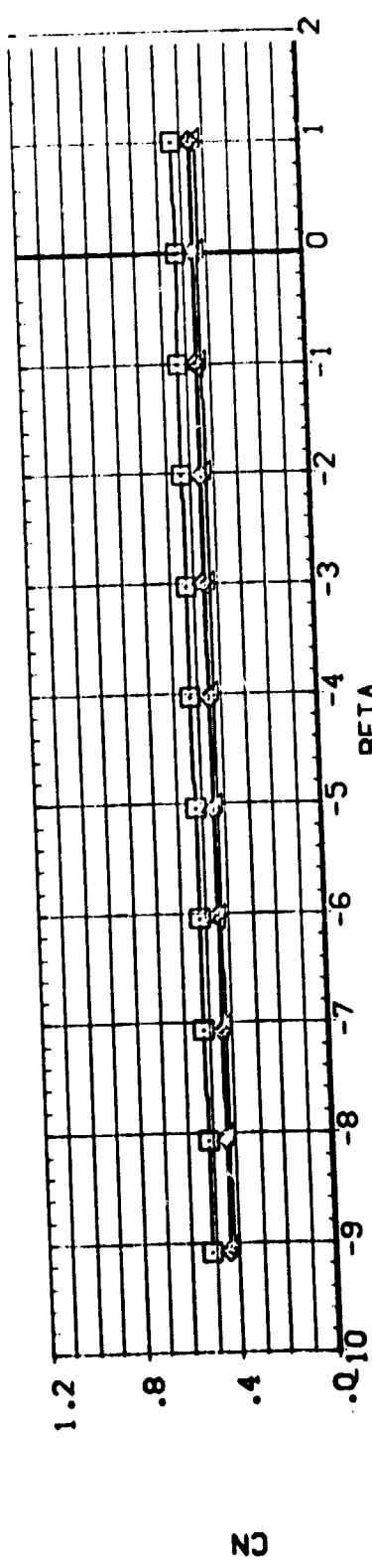
ALPHA 20.000
 20.000
 20.000
 20.000
 20.000

ELEVTR 10.000
 -10.000
 -20.000
 -40.000

AIRLON .000
 .000
 .000
 .000

BOFLAP -14.250
 -14.250
 -14.250
 -14.250

REFERENCE INFORMATION
 SREF 21.7885
 LREF 3.9511
 BREF 7.0251
 XMRP 6
 YMRP 100000
 ZMRP 100000
 SCALE 100000



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 20 DEG.)

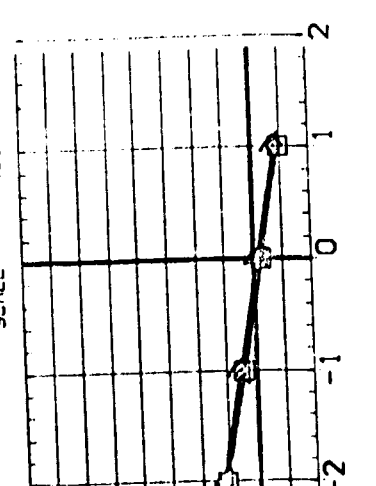
(A) MACH = 10.30

DATA SET SYMBOL: [RPO028] [RPO013] [RPO021] [RPO029]

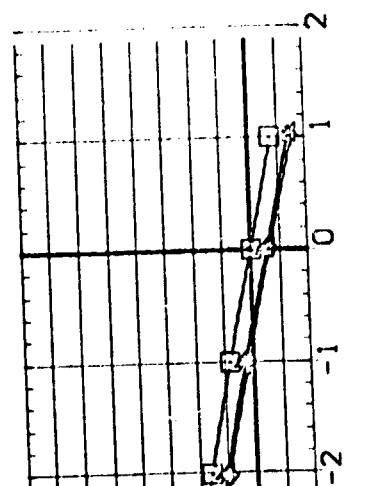
CONFIGURATION DESCRIPTION
 LA: 11:5 HT 95: ROCKWELL CR8: C889 V/MCO: NOSE
 LA: 11:5 HT 95: ROCKWELL CR8: C889 V/MCO: NOSE
 LA: 11:5 HT 95: ROCKWELL CR8: C889 V/MCO: NOSE
 LA: 11:5 HT 95: ROCKWELL CR8: C889 V/MCO: NOSE

ALPHA ELEVTR AIRTON BOFLAP
 20.000 10.000 .000 -14.250
 20.000 10.000 .000 -14.250
 20.000 10.000 .000 -14.250
 20.000 10.000 .000 -14.250

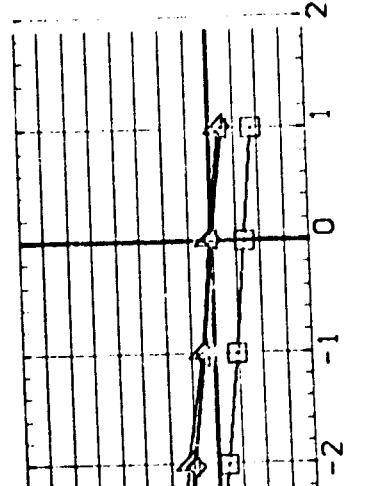
REFERENCE INFORMATION
 SPEC 2: 7886
 LREF 3: 551
 XMRP 6: 2822
 YMRP .0000
 ZMRP .0075
 SCALE



CY



CYN



CBL

EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA = 20 DEG.)

(A) MACH = 0.30



DATA SET SYMOL
 (RP0037)
 (RP0214)
 (RP0222)
 (RP0230)

CONFIGURATION DESCRIPTION
 LA-111: CFHT 96: ROCKWELL CRB.
 LA-111: CFHT 96: ROCKWELL CRB.
 LA-111: CFHT 96: ROCKWELL CRB.
 LA-111: CFHT 96: ROCKWELL CRB.

NOSE
 VANG.
 VANG.
 VANG.
 VANG.

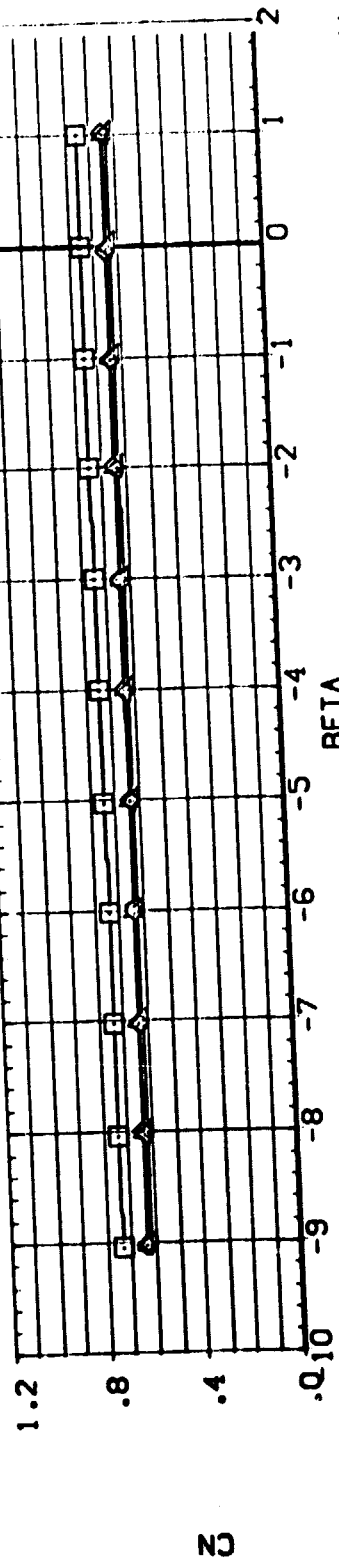
ALPHA
 25.000
 25.000
 25.000
 25.000

ELEVTR
 10.000
 -10.000
 -20.000
 -40.000

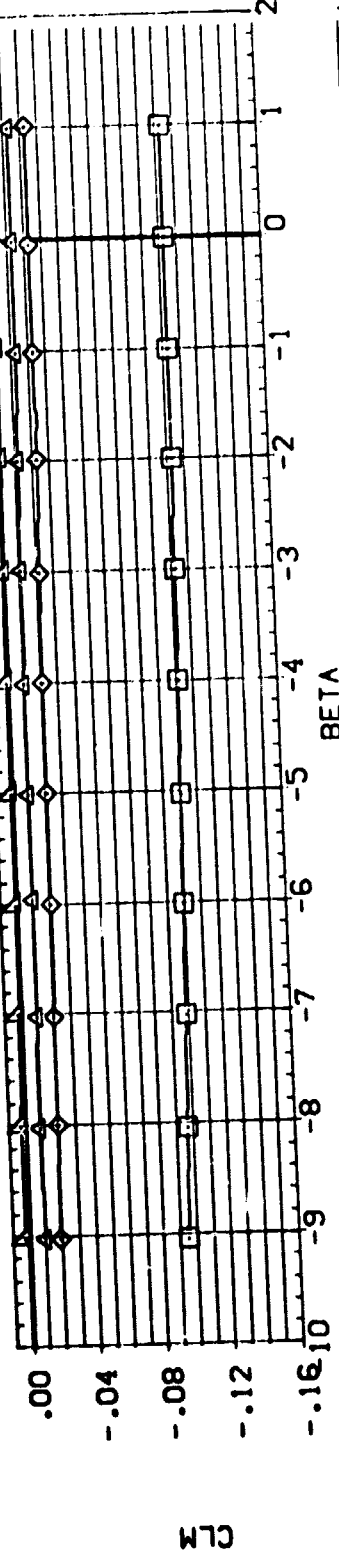
AITLON
 .000
 .000
 .000
 .000

BOFLAP
 -14.250
 -14.250
 -14.250
 -14.250

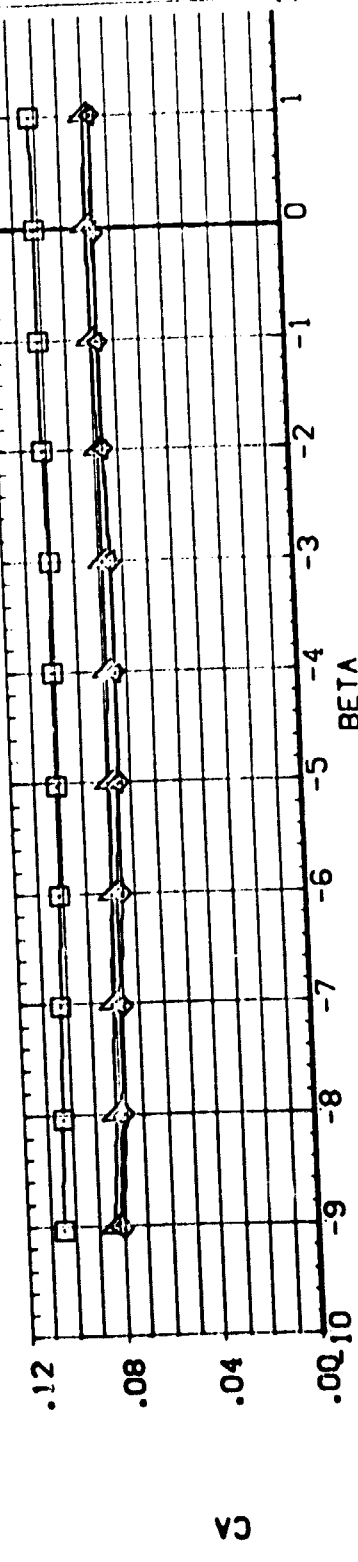
REFERENCE INFORMATION
 SREF 21.7886
 LREF 3.5611
 BREF 7.0261
 XREF 6.2322
 YREF .0000
 ZREF .0000
 SCALE .0075



Cn



Clm



Cs

EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 25 DEG.)

(A)MACH = 10.30

DATA SET SYMBOL: [RPO007] [RPO014] [RPO022] [RPO030]

CONFIGURATION DESCRIPTION:
 LA-11: CFHT 96: ROCKWELL CRB: 0898 V/MOD: NOSE
 LA-11: CFHT 96: ROCKWELL CRB: 0899 V/MOD: NOSE
 LA-11: CFHT 96: ROCKWELL CRB: 0893 V/MOD: NOSE
 LA-11: CFHT 96: ROCKWELL CRB: 0893 V/MOD: NOSE

ALPHA: 25.000
 25.000
 25.000
 25.000
 25.000

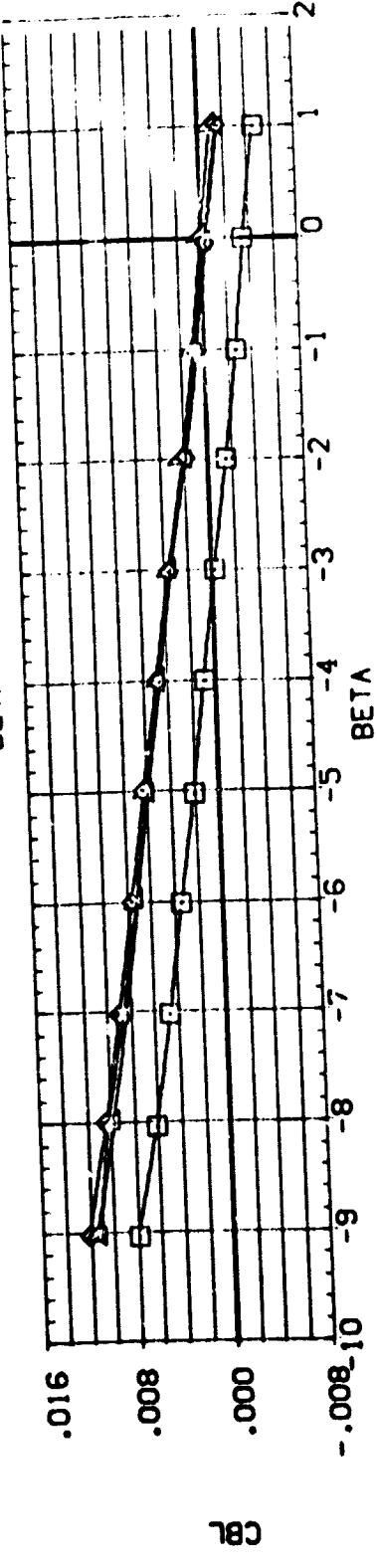
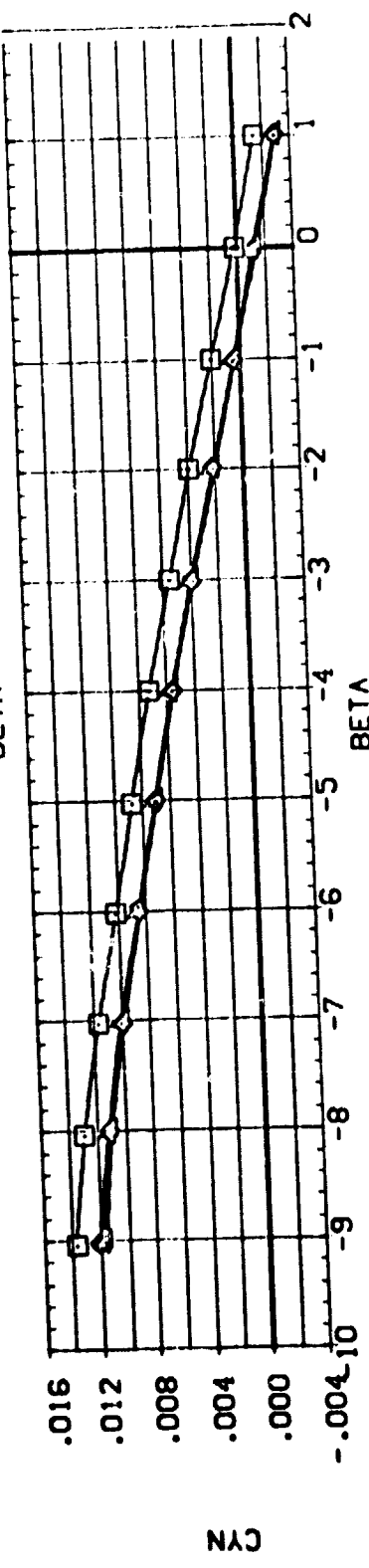
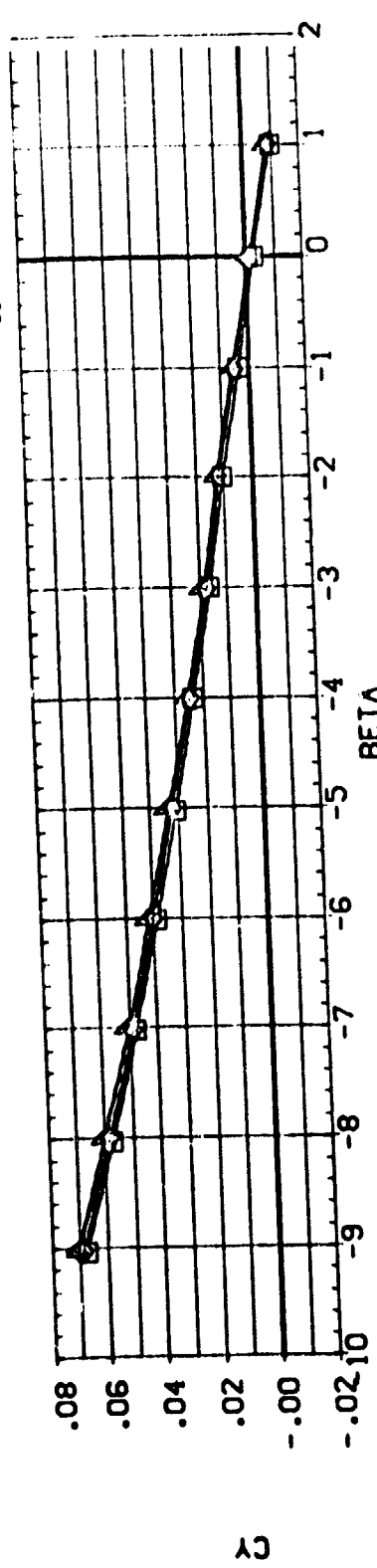
ELEVTR: 10.000
 -10.000
 -20.000
 -40.000

AILERON: .000
 .000
 .000
 .000

BOFLAP: -14.250
 -14.250
 -14.250
 -14.250

REFERENCE INFORMATION:
 SREF: 21.7885
 LREF: 3.5511
 XMRP: 7.0220
 YMRP: 6.2822
 ZMRP: .0000
 SCALE: .0075

SO: 1.000
 1.000
 1.000
 1.000

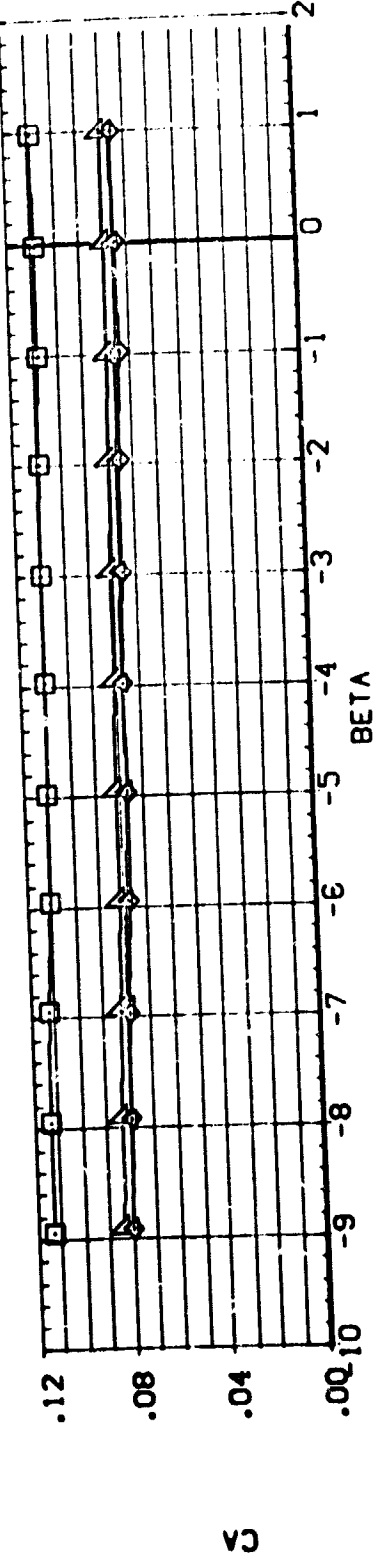
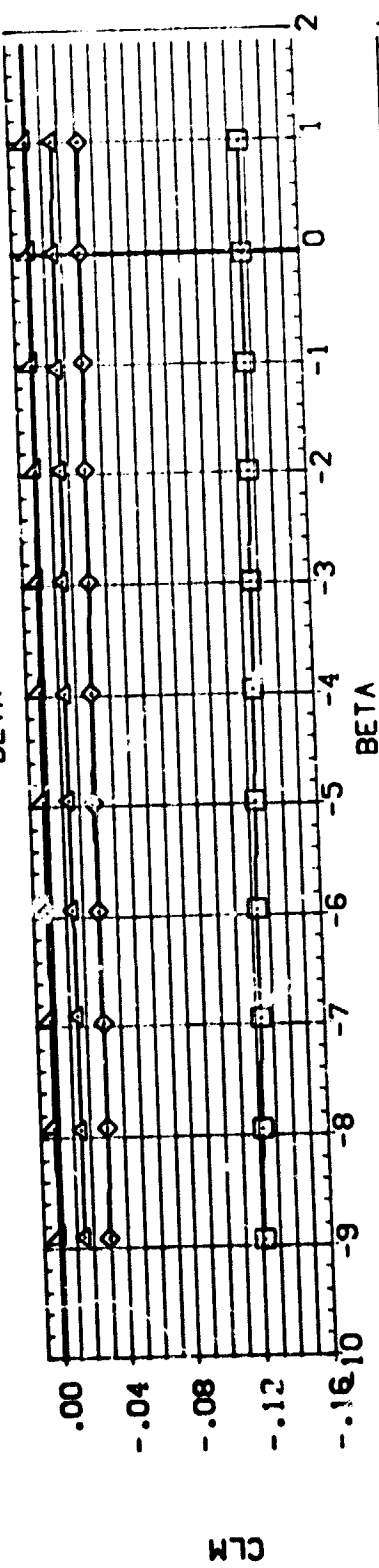
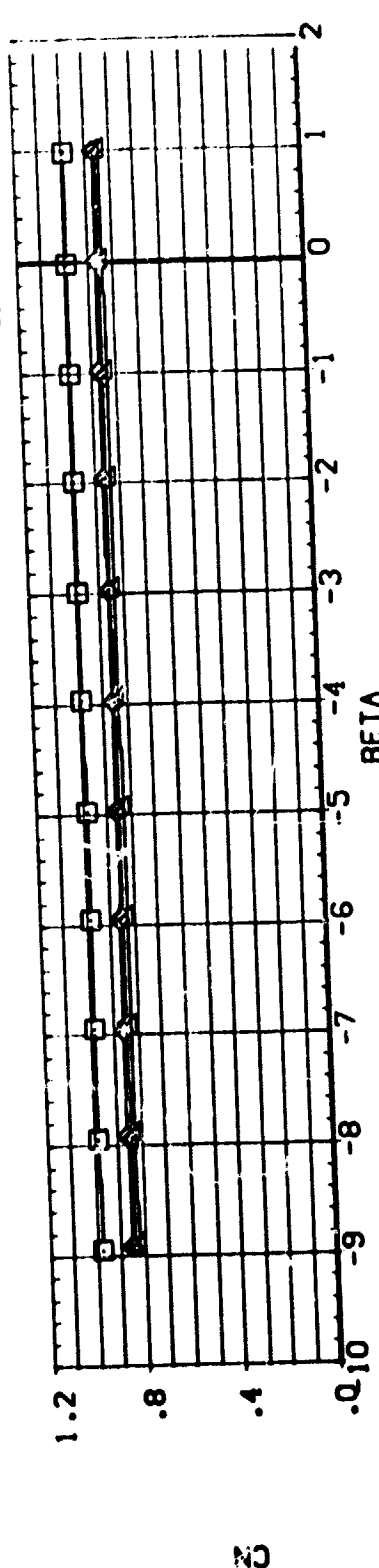


EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 25 DEG.)

(A)MACH = :0.30



DATA SET SYMBOL: [BP0006] [BP0015] [BP0023] [BP0031]
 CONFIGURATION DESCRIPTION: LA-11: CFHT 56: ROCKWELL CR8. 0899 V/F: 30. NOISE
 LA-11: CFHT 56: ROCKWELL CR8. 0899 V/F: 30. NOISE
 LA-11: CFHT 56: ROCKWELL CR8. 0899 V/F: 30. NOISE
 LA-11: CFHT 56: ROCKWELL CR8. 0899 V/F: 30. NOISE
 REFERENCE INFORMATION: SREF: 21.7886 SCALING: 0.0000
 LREF: 3.5611 SCALING: 0.0000
 BREF: 7.0222 SCALING: 0.0000
 XMRP: 6 SCALING: 0.0000
 YMRP: 0.0000 SCALING: 0.0000
 ZMRP: 0.0000 SCALING: 0.0000
 SCALE: 0.0075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA = 30 DEG.)

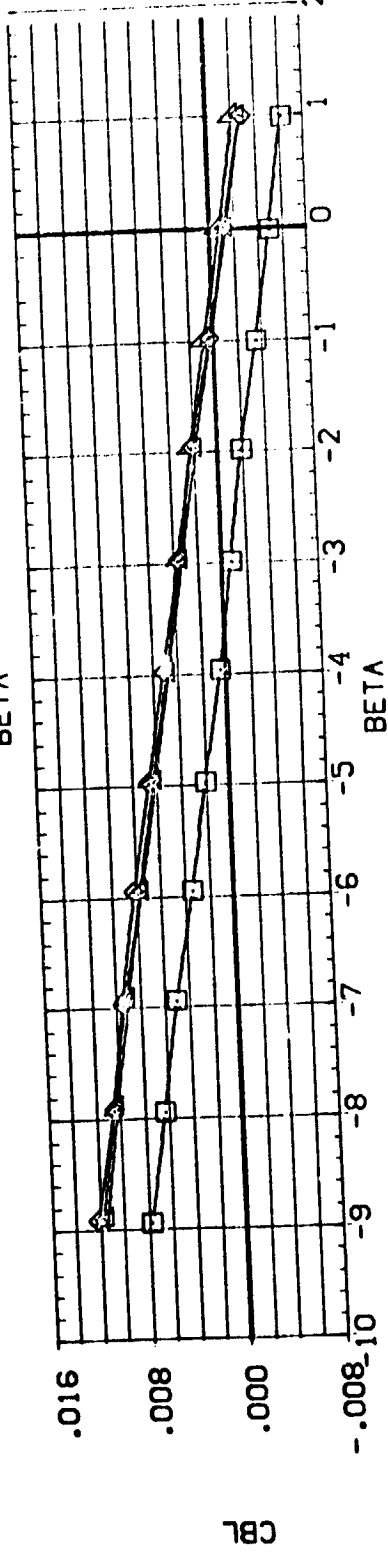
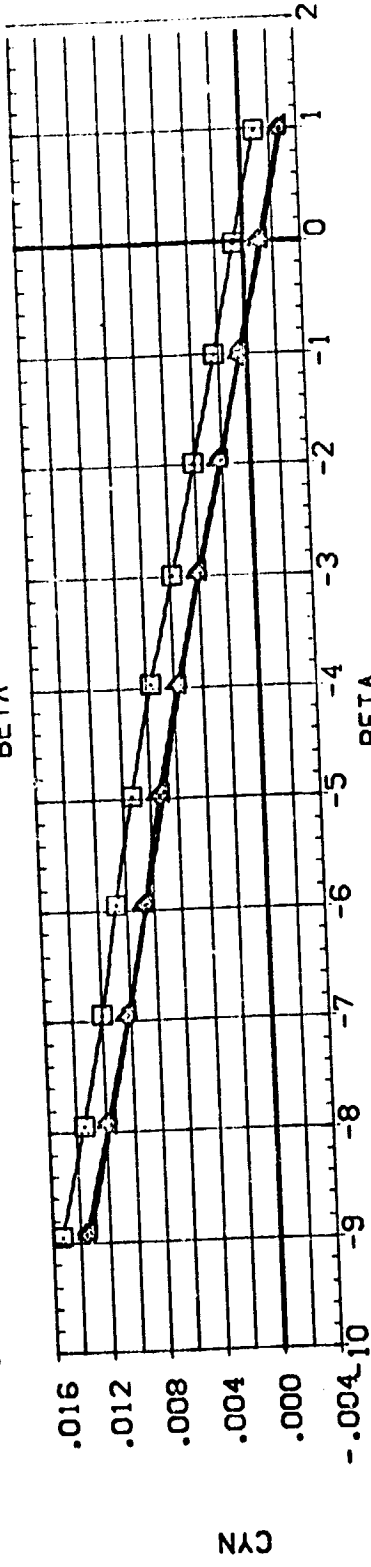
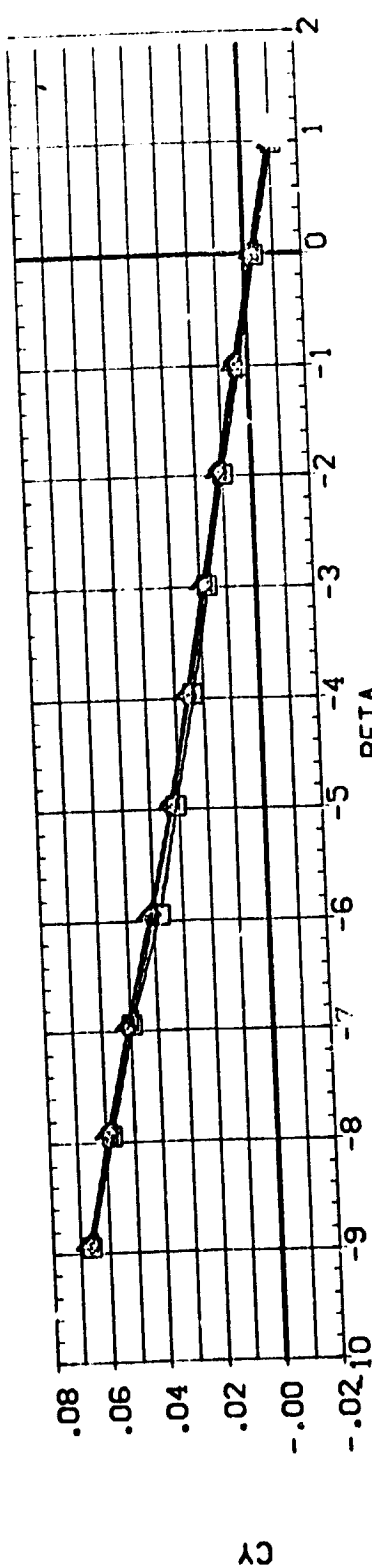
(A) MACH = 0.30

DATA SET SYMBOL: (RP0036), (RP0015), (RP0023), (RP0031)

CONFIGURATION DESCRIPTION: LA-11:CFHT 56: ROCKWELL CRB, 0898 V/MCD, NOSE; LA-11:CFHT 56: ROCKWELL CRB, 0899 V/MCD, NOSE; LA-11:CFHT 56: ROCKWELL CRB, 0899 V/MCD, NOSE; LA-11:CFHT 56: ROCKWELL CRB, 0899 V/MCD, NOSE

ALPHA: 30.000, 30.000, 30.000, 30.000, 30.000
 ELEVTR: 10.000, -10.000, -20.000, -40.000
 AIRTRN: .000, .000, .000, .000
 BOFLAP: -14.250, -14.250, -14.250, -14.250

REFERENCE INFORMATION: SREF: 21.7885, LREF: 3.5611, XMRP: 6.2602, YMRP: .0000, ZMRP: .0073, SCALE: .0073

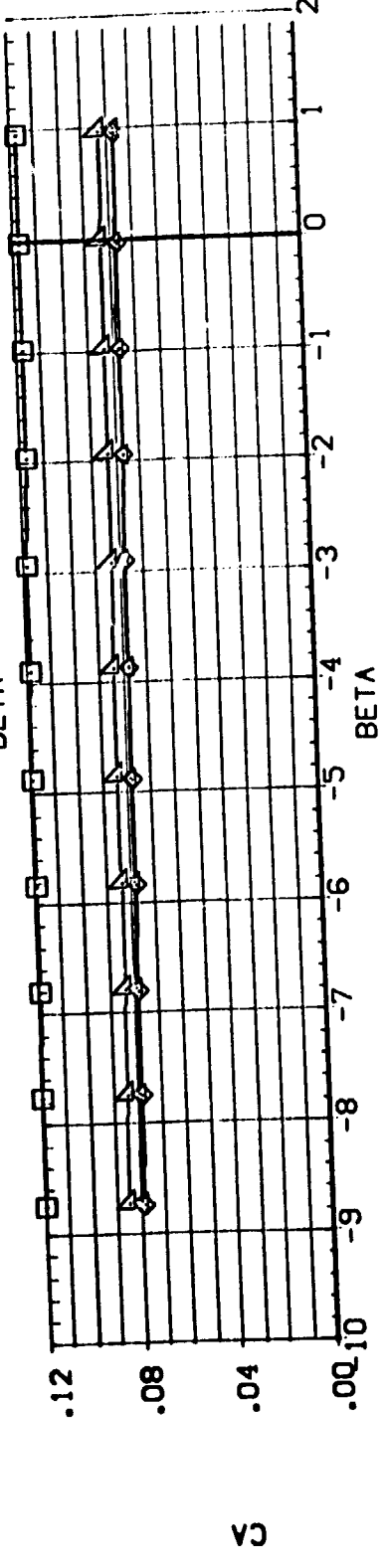
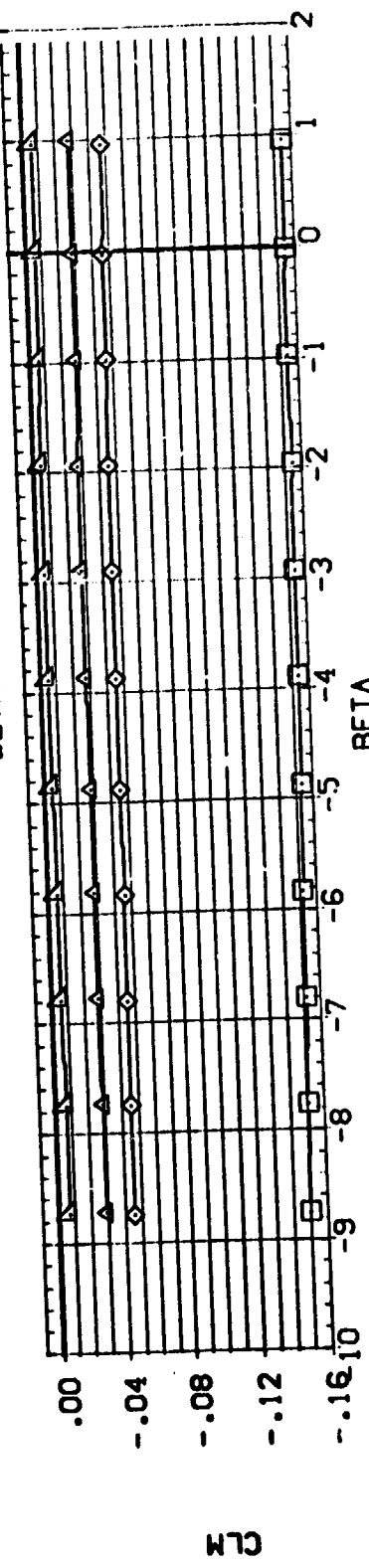
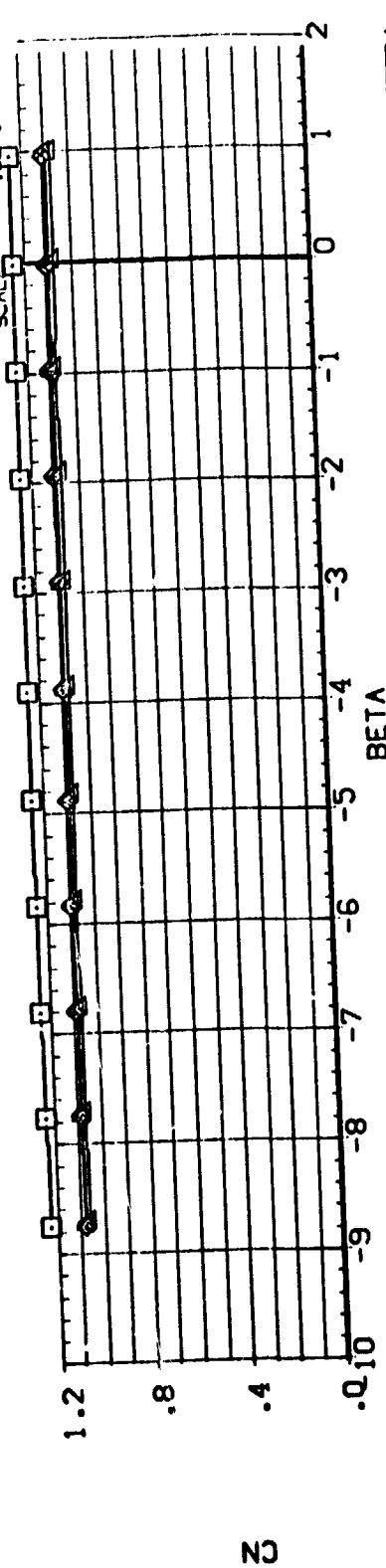


EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 30 DEG.)

(A)MACH = 10.30



DATA SET SYMBOL: □ (RP0035), ⊗ (RP0016), ⊠ (RP0024), ⊡ (RP0032)
 CONFIGURATION DESCRIPTION: LA-11: CEHT 96, ROCKWELL CR8; 0898 V/MOD. NOSE; LA-11: CEHT 96, ROCKWELL CR8; 0898 V/MOD. NOSE; LA-11: CEHT 96, ROCKWELL CR8; 0898 V/MOD. NOSE; LA-11: CEHT 96, ROCKWELL CR8; 0898 V/MOD. NOSE
 ALPHA: 35.000, 35.000, 35.000, 35.000
 ELEVTR: 10.000, -10.000, -20.000, -40.000
 AIRLON: .000, .000, .000, .000
 BOFLAP: -14.250, -14.250, -14.250, -14.250
 REFERENCE INFORMATION: SREF: 21.788C, SC: 1.000; LREF: 3.5611, SC: 1.000; BREF: 7.0261, SC: 1.000; XTRP: 6.2802, SC: 1.000; YTRP: .0000, SC: 1.000; ZTRP: .0000, SC: 1.000; SCALE: .075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA = 35 DEG.)

DATA SET SYMBOLS:
 (RPO035)
 (RPO016)
 (RPO024)
 (RPO032)

CONFIGURATION DESCRIPTION:
 LA-11:CFHT 56: ROCKWELL CR8
 LA-11:CFHT 56: ROCKWELL CR8
 LA-11:CFHT 56: ROCKWELL CR8
 LA-11:CFHT 56: ROCKWELL CR8

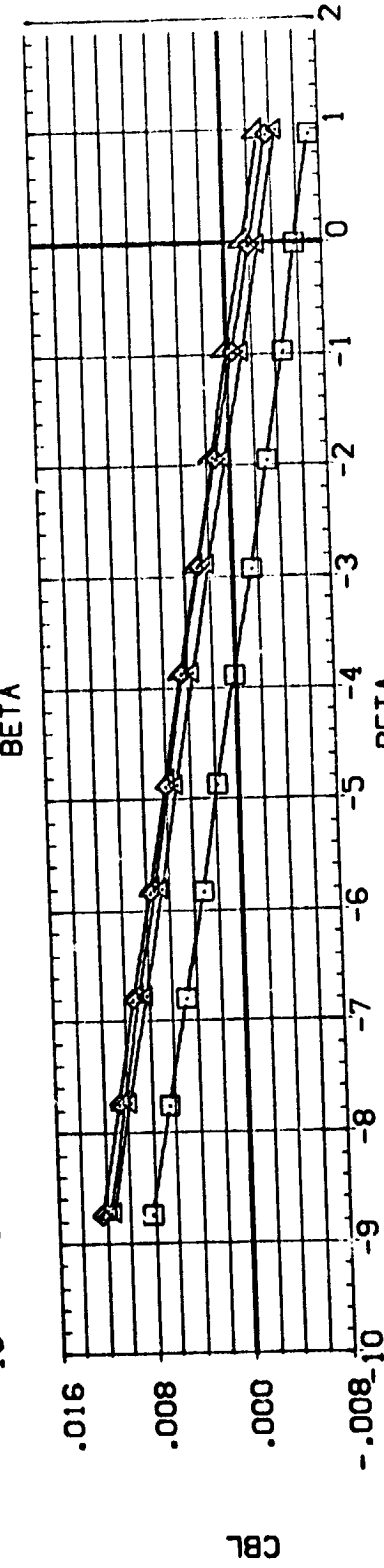
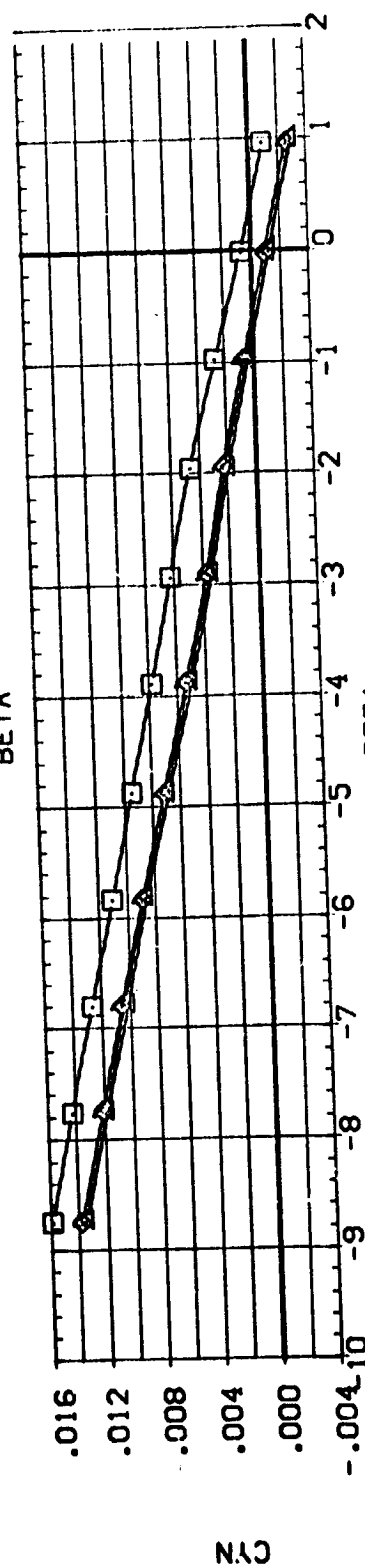
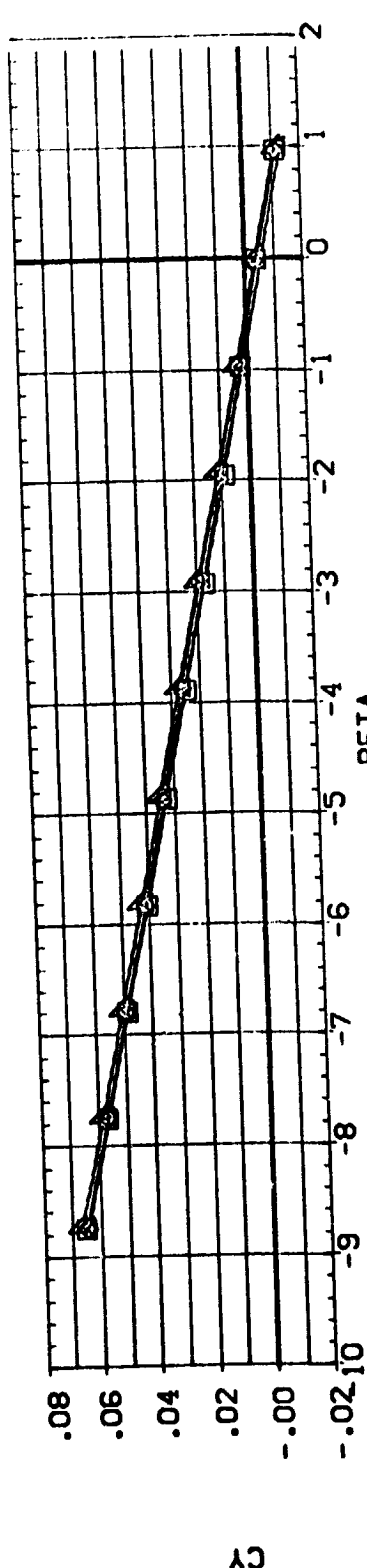
ALPHA: 35.000
 35.000
 35.000
 35.000

ELEVTR: 10.000
 -10.000
 -20.000
 -40.000

AILRON: .000
 .000
 .000
 .000

BOFLAP: -14.250
 -14.250
 -14.250
 -14.250

REFERENCE INFORMATION:
 SQ. IN.: 21.7886
 INCHES: 3.5411
 INCHES: 7.6254
 INCHES: 8.2532
 INCHES: 10.1600
 INCHES: 10.1600
 SCALE: .0075



EFFECT OF CONTROL DEFLECTIONS IN SIDESLIP (ALPHA= 35 DEG.)

(A)MACH = 10.30

APPENDIX
TABULATED SOURCE DATA

Plotted data listings available on request
from the Data Management System.



DATE 10 SEP 73

TABULATED SOURCE DATA - CFHT96 (LA-11)

(RPF001) (15 AUG 73)

LA-11,CFHT 96, ROCKWELL ORB. D898 W/MOD. NOSE

REFERENCE DATA

SREF = 21.7886 SQ.IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
 ATLRON = .000 BDFLAP = -14.250

RUN NO. 4/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	9.967	-0.0090	1.4999	.06941	-.02601	.00057	-.00105	-.00159	.13529	.09430	1.43462
10.300	14.991	-0.0037	2.6902	.06818	-.00036	.00024	-.00100	-.00224	.26155	.14062	1.86004
10.300	20.169	-0.0002	.46931	.07551	-.03617	-.00022	-.00109	-.00229	.41450	.23269	1.78136
10.300	25.311	-0.0039	.67296	.07912	-.05009	-.00061	-.00106	-.00278	.57453	.35923	1.59935
10.300	30.126	-0.0417	.86230	.08029	-.06499	-.00147	-.00099	-.00350	.72283	.51227	1.41102
10.300	35.222	-0.0626	1.12563	.08478	-.06878	-.00241	-.00085	-.00548	.87066	.71846	1.21183
GRADIENT		-.00008	.03662		-.00237	-.00012	.00001	-.00013	.02954	.02466	-.01490

(RPF002) (15 AUG 73)

LA-11,CFHT 96, ROCKWELL ORB. D898 W/MOD. NOSE

REFERENCE DATA

SREF = 21.7886 SQ.IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA

BETA = -5.000 ELEVTR = .000
 ATLRON = .000 BDFLAP = -14.250

RUN NO. 5/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	9.967	-4.92463	1.4317	.06931	-.02671	.00036	-.00375	.00908	.12901	.09304	1.36635
10.300	15.240	-4.90651	.30056	.07436	-.03178	.00407	.00446	.04406	.27027	.19070	1.79335
10.300	20.192	-5.00773	.47972	.07760	-.03853	.00561	.00571	.05080	.42345	.23642	1.77612
10.300	25.280	-4.96666	.66215	.07974	-.04907	.00691	.00684	.05035	.58290	.36321	1.60487
10.300	30.109	-4.92916	.90191	.08368	-.06436	.00844	.00686	.05814	.73814	.52501	1.40596
10.300	35.296	-4.62714	1.16356	.08817	-.09031	.00849	.00685	.06315	.89870	.74429	1.20746
GRADIENT		.00563	.04030		-.00242	.00023	.00014	.00092	.03068	.02552	-.01248

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TABULATED SOURCE DATA - CFT96 (LA-11)

LA-11,CFT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RP0003) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = .000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

BREF = 21.7666 SR.IN. XRRP = 6.2902 INCHES
LREF = 3.9611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 11/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.929	9.92130	.13616	.07797	-.02440	.00635	.00439	.06148	.12268	.10061	1.21933
10.300	-7.075	9.94599	.13645	.07505	-.02594	.00714	.00454	.06864	.12341	.09784	1.26138
10.300	-6.932	9.97990	.13955	.07348	-.02681	.00580	.00457	.06001	.12471	.09655	1.29159
10.300	-5.956	9.96916	.14126	.07246	-.02795	.00474	.00421	.04696	.12655	.09586	1.32013
10.300	-4.971	10.00827	.14058	.07116	-.02880	.00366	.00368	.09950	.12607	.09451	1.33401
10.300	-3.970	10.01792	.14539	.07286	-.02885	.00330	.00205	.03286	.13050	.09705	1.34474
10.300	-2.975	10.03305	.14713	.07302	-.02989	.00242	.00129	.02342	.13216	.09753	1.35506
10.300	-1.999	10.03472	.14562	.07078	-.02925	.00160	.00192	.01396	.13106	.09507	1.37850
10.300	-0.979	10.04440	.14886	.07172	-.02997	.00056	-.00027	.00909	.13407	.09659	1.38807
10.300	-.004	10.04005	.15031	.07318	-.03107	.00048	-.00155	.00067	.13525	.09827	1.37635
10.300	.991	10.03345	.14982	.07301	-.03099	.00010	-.00265	-.00720	.13480	.09800	1.37559
GRADIENT		.00472	.00141	.00018	-.00042	-.00063	-.00102	-.00787	.00135	.00043	.00795

LA-11,CFT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RP0004) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = .000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

BREF = 21.7666 SR.IN. XRRP = 6.2902 INCHES
LREF = 3.9611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 10/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.088	15.04761	.26560	.06990	-.02520	.00917	.00728	.06817	.25402	.15517	1.63700
10.300	-6.000	15.04763	.26661	.06166	-.02632	.00813	.00662	.07754	.25553	.15346	1.66510
10.300	-7.056	15.06255	.26659	.06047	-.02751	.00817	.00587	.07227	.25776	.15270	1.69801
10.300	-6.058	15.07192	.26415	.07328	-.02723	.00755	.00690	.05728	.25480	.14658	1.73835
10.300	-5.029	15.07345	.26648	.07692	-.02856	.00675	.00441	.05307	.25865	.14891	1.73696
10.300	-4.009	15.06443	.29129	.07612	-.02958	.00641	.00313	.05126	.26144	.14931	1.75104
10.300	-3.015	15.06812	.29206	.07407	-.03046	.00555	.00205	.04429	.26248	.14841	1.76854
10.300	-2.036	15.09276	.28962	.07213	-.03239	.00506	.00130	.03425	.26025	.14506	1.79823
10.300	-1.042	15.09470	.28300	.07320	-.03290	.00362	-.00020	.02642	.26383	.14698	1.79503
10.300	.014	15.09634	.25455	.07399	-.02843	.00240	-.00179	.01961	.26537	.14718	1.80299
10.300	.967	15.09423	.29510	.07315	-.02967	.00166	-.00319	.01216	.26587	.14748	1.80278
GRADIENT		.00215	.00206	-.00056	.00002	-.00097	-.00127	-.00791	.00097	-.00031	.01021

LA-11, CHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

(RP0005) (15 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 21.7866 98. IN. XREF = 6.2902 INCHES
 LREF = 3.5611 INCHES YREF = .0000 INCHES
 BREF = 7.0251 INCHES ZREF = .0000 INCHES
 SCALE = .0075

ALPHA = 20.000 ELEVTR = .000
 ATURON = .000 BDFLAP = -14.250

RUN NO. 9/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.117	20.10615	.47031	.07973	-.13239	.01305	.01032	.11936	.41423	.23655	1.75110
10.300	-8.061	20.10015	.47366	.07817	-.03389	.01201	.00983	.11014	.41972	.23716	1.76978
10.300	-7.071	20.09739	.47884	.07768	-.03315	.01032	.00896	.10104	.42299	.23749	1.78109
10.300	-6.043	20.10168	.48268	.07794	-.03636	.00905	.00703	.09333	.42649	.23909	1.78384
10.300	-5.078	20.09903	.48567	.07834	-.03723	.00815	.00518	.09247	.42917	.24046	1.78478
10.300	-4.015	20.09847	.48717	.07828	-.03800	.00680	.00368	.08632	.43060	.24092	1.78732
10.300	-3.019	20.08594	.48936	.07813	-.03880	.00558	.00234	.08011	.43279	.24145	1.79244
10.300	-2.041	20.08161	.48995	.07771	-.03966	.00472	.00094	.07623	.43344	.24129	1.79638
10.300	-1.033	20.08996	.48956	.07771	-.03877	.00357	-.00069	.07195	.43310	.24111	1.79626
10.300	-.018	20.08966	.48969	.07778	-.03852	.00265	-.00241	.06372	.43316	.24125	1.79559
10.300	.992	20.09011	.49105	.07731	-.03845	.00170	-.00406	.05664	.43431	.24128	1.80131
10.300	GRADIENT	-.00103	.00037	-.00017	-.00004	-.00101	-.00156	-.00581	.00059	.00003	.00226

LA-11, CHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

(RP0006) (15 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 21.7866 98. IN. XREF = 6.2902 INCHES
 LREF = 3.5611 INCHES YREF = .0000 INCHES
 BREF = 7.0251 INCHES ZREF = .0000 INCHES
 SCALE = .0075

ALPHA = 25.000 ELEVTR = .000
 ATURON = .000 BDFLAP = -14.250

RUN NO. 8/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.088	25.27310	.69107	.08644	-.04785	.01575	.01053	.17817	.58801	.37323	1.57548
10.300	-8.082	25.26306	.68231	.08436	-.04805	.01438	.00976	.16440	.59009	.37175	1.58734
10.300	-7.088	25.24282	.69422	.08311	-.04859	.01288	.00875	.15476	.59248	.37123	1.59601
10.300	-6.043	25.23001	.69664	.08192	-.04904	.01137	.00730	.14658	.59526	.37105	1.60427
10.300	-5.081	25.21927	.69723	.08097	-.04979	.01011	.00569	.14067	.59827	.37033	1.61011
10.300	-4.029	25.21355	.70022	.08091	-.05042	.00875	.00387	.13486	.59904	.37149	1.61233
10.300	-3.064	25.20320	.70360	.08212	-.05187	.00724	.00199	.13432	.60165	.37392	1.60905
10.300	-2.042	25.20365	.70596	.08223	-.05207	.00590	.00028	.13192	.60373	.37502	1.60986
10.300	-1.042	25.20180	.70821	.08200	-.05214	.00474	-.00159	.12797	.60317	.37448	1.61069
10.300	-.028	25.19694	.70924	.08167	-.05224	.00363	-.00338	.12171	.60337	.37414	1.61266
10.300	.948	25.19944	.70486	.08212	-.05204	.00244	-.00501	.11506	.60282	.37442	1.61001
10.300	GRADIENT	-.00860	.00078	.00013	-.00026	-.00124	-.00178	-.00472	.00067	.00042	-.00002

TABLATED SOURCE DATA - CFM196 (LA-11) (RPD007) (15 AUG 73)

LA-11, CFM1 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA
 BREF = 21.7866 96. IN. XRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 SREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

RUN NO. 7/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.919	30.346166	.92897	.08785	-.06440	.02392	.01334	.10529	.75716	.54536	1.36836
10.300	-7.941	30.336669	.93392	.08744	-.06504	.02392	.01147	.10488	.76188	.54716	1.39237
10.300	-6.919	30.31433	.93507	.08568	-.06423	.02528	.00990	.08997	.76397	.54593	1.39939
10.300	-5.949	30.28797	.93639	.08461	-.06436	.02408	.00832	.08890	.76591	.54532	1.40430
10.300	-4.945	30.26640	.93874	.08414	-.06462	.02338	.00844	.09224	.76836	.54584	1.40766
10.300	-3.932	30.24545	.94106	.08403	-.06597	.02165	.007474	.08611	.77064	.54661	1.40986
10.300	-2.965	30.23614	.94396	.08363	-.06640	.01997	.00301	.07894	.77332	.54780	1.41167
10.300	-2.002	30.22837	.94582	.08325	-.06685	.01852	.00136	.07530	.77530	.54810	1.41452
10.300	-1.032	30.21908	.94511	.08259	-.06727	.01658	-.00033	.06960	.77527	.54678	1.41787
10.300	-.004	30.21969	.94637	.08229	-.06767	.01523	-.00220	.05626	.77634	.54743	1.41814
10.300	1.012	30.22007	.94670	.08261	-.06825	.01367	-.00393	.04975	.77768	.54975	1.41461
10.300	GRADIENT	-.00760	.00150	-.00024	-.00055	-.00164	-.00175	-.00791	.00149	.00045	.00157

LA-11, CFM1 96, ROCKWELL ORB. 0698 W/MOD. NOSE (RPD008) (15 AUG 73)

REFERENCE DATA

BREF = 21.7866 96. IN. XRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 SREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

RUN NO. 8/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.784	35.47251	1.17369	.09306	-.09174	.01585	.01300	.13637	.90375	.75457	1.19771
10.300	-7.799	35.44237	1.17991	.08978	-.09190	.01464	.01134	.13589	.90921	.75735	1.20051
10.300	-6.809	35.40081	1.18486	.08665	-.09224	.01204	.00977	.11843	.91434	.75860	1.20498
10.300	-5.863	35.37139	1.18946	.08669	-.09232	.01106	.00814	.11557	.91845	.76103	1.20666
10.300	-4.880	35.33921	1.19274	.08692	-.09302	.00830	.00661	.10456	.92148	.76252	1.20846
10.300	-3.863	35.31669	1.19594	.08672	-.09308	.00633	.00493	.09506	.92290	.76264	1.21013
10.300	-2.931	35.30781	1.19328	.08635	-.09330	.00562	.00291	.08654	.92436	.76293	1.21159
10.300	-1.994	35.29810	1.19628	.08761	-.09365	.00422	.00135	.08335	.92573	.76276	1.21366
10.300	-1.005	35.28879	1.19752	.08731	-.09365	.00279	-.00055	.07718	.92704	.76307	1.21488
10.300	-.040	35.27305	1.19740	.08602	-.09449	.00134	-.00226	.07212	.92674	.76333	1.21409
10.300	.967	35.25064	1.19953	.08760	-.09478	-.00020	-.00406	.06570	.92849	.76450	1.21449
10.300	GRADIENT	-.00941	.00109	-.00025	-.00031	-.00141	-.00178	-.00640	.00115	.00028	.00108

ALPHA = 30.000 ELEVTR = .000
 AIRLON = .000 BOFLAP = -14.250

ALPHA = 35.000 ELEVTR = .000
 AIRLON = .000 BOFLAP = -14.250

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TABLATED SOURCE DATA - CPHT96 (LA-11)

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LA-11, CPHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

(RPD009) (15 AUG 73)

REFERENCE DATA

BREF = 21.7686 98.1M. XPRP = 6.2902 INCHES
LREF = 3.5811 INCHES YPRP = .0000 INCHES
BREF = 7.0251 INCHES ZPRP = .0000 INCHES
SCALE = .0075

BETA = .000 ELEVTR = -10.000
AILRON = .000 BDFLAP = -14.250

PARAMETRIC DATA

RUN NO. 12/ 0 RWVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	ON	CA	CLM	CR	CYN	CY	CL	CD	L/D
10.300	9.966	.00659	.13796	.06779	-.02080	.00058	-.00110	-.00096	.12412	.09067	1.36884
10.300	15.032	.00798	.27016	.06351	-.21795	.00325	-.00110	-.00196	.24392	.13333	1.82944
10.300	19.966	.00798	.42921	.07033	-.01774	-.00005	-.00123	-.00178	.37940	.21266	1.78408
10.300	25.185	.00845	.62155	.07366	-.02229	-.00048	-.00126	-.00256	.53113	.33114	1.60394
10.300	30.129	.00745	.82145	.07222	-.02937	-.00133	-.00126	-.00271	.67421	.47479	1.42003
10.300	35.313	.00489	1.06385	.07316	-.04479	-.00219	-.00104	-.00422	.82467	.67627	1.21943
GRADIENT		-.00005	.03657	.00054	-.00080	-.00011	-.00000	-.00011	.02792	.02300	-.01224

REFERENCE DATA

BREF = 21.7686 98.1M. XPRP = 6.2902 INCHES
LREF = 3.5811 INCHES YPRP = .0000 INCHES
BREF = 7.0251 INCHES ZPRP = .0000 INCHES
SCALE = .0075

BETA = -5.000 ELEVTR = -10.000
AILRON = .000 BDFLAP = -14.250

PARAMETRIC DATA

(RPD010) (15 AUG 73)

RUN NO. 13/ 0 RWVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	ON	CA	CLM	CR	CYN	CY	CL	CD	L/D
10.300	9.977	-4.82136	.14104	.06877	-.01664	.00492	.00378	.03375	.12699	.09217	1.37784
10.300	15.136	-4.98107	.28805	.07056	-.01761	.00463	.00471	.03594	.25963	.14333	1.81146
10.300	19.965	-4.99965	.44564	.07153	-.01709	.00499	.00656	.03262	.39436	.21954	1.79630
10.300	25.082	-4.97736	.63364	.07328	-.02034	.00591	.00692	.03084	.54283	.33498	1.62047
10.300	30.228	-4.91487	.84889	.07543	-.02940	.00620	.00705	.03051	.69386	.49156	1.41157
10.300	35.343	-4.81472	1.07916	.07620	-.04478	.00570	.00690	.03204	.83572	.68702	1.21645
GRADIENT		.00429	.03687	.00030	-.00100	.00005	.00013	-.00021	.02816	.02334	-.01238

TABULATED SOURCE DATA - CFHT96 (LA-11)
LA-11, CFHT 96, ROCKWELL ORB. 0898 W/MOD. NOSE

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(RFD011) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -10.000
AURON = .000 BOFLAP = -14.250

REFERENCE DATA

SRF = 21.7666 96. IN. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 21/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-8.956	9.92675	.12644	.07548	-.01495	.00960	.00445	.09149	.11350	.09649	1.17626
10.300	-7.693	9.94606	.13072	.07257	-.01625	.00771	.00465	.06838	.11553	.09394	1.22984
10.300	-6.951	9.96952	.13119	.07063	-.01763	.00654	.00461	.05782	.11694	.09248	1.26459
10.300	-5.934	9.98292	.13246	.06999	-.01860	.00553	.00421	.04736	.11834	.09190	1.28772
10.300	-4.956	9.99371	.13269	.06819	-.01915	.00443	.00395	.03744	.11884	.09018	1.31778
10.300	-3.956	10.00606	.13463	.06662	-.01809	.00451	.00272	.02948	.12068	.09199	1.31182
10.300	-3.006	10.02291	.13651	.06916	-.01886	.00354	.00194	.02164	.12239	.09189	1.33194
10.300	-1.971	10.03478	.13756	.06740	-.01955	.00236	.00127	.01511	.12353	.09031	1.36787
10.300	-.991	10.02990	.14054	.06913	-.01997	.00137	.00021	.00599	.12635	.09255	1.36516
10.300	-.003	10.03607	.14368	.07017	-.02079	.00062	-.00116	-.00144	.12945	.09417	1.37463
10.300	1.021	10.02973	.14240	.07149	-.02059	-.00120	-.00226	-.00351	.12795	.09422	1.35799
GRADIENT		.00611	.00164	.00129	-.00040	-.00086	-.00102	-.00785	.00175	.00507	.01004

LA-11, CFHT 96, ROCKWELL ORB. 0898 W/MOD. NOSE

(RFD012) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -10.000
AURON = .000 BOFLAP = -14.250

REFERENCE DATA

SRF = 21.7666 96. IN. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 20/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.035	15.03633	.27710	.07863	-.01487	.00923	.00717	.08067	.24716	.14602	1.66972
10.300	-8.031	15.04625	.27659	.07638	-.01614	.00804	.00637	.06835	.24728	.14556	1.69881
10.300	-7.042	15.05426	.27651	.07376	-.01747	.00686	.00591	.05805	.24926	.14550	1.71331
10.300	-6.003	15.05896	.27656	.07026	-.01722	.00569	.00503	.04244	.24650	.13908	1.77237
10.300	-5.011	15.07205	.27856	.07160	-.01786	.00489	.00457	.03815	.25031	.14177	1.76562
10.300	-4.006	15.07164	.28120	.07112	-.01907	.00390	.00356	.02978	.25304	.14180	1.78449
10.300	-3.901	15.07102	.28236	.06972	-.01969	.00297	.00261	.02567	.25454	.14074	1.80856
10.300	-1.995	15.06391	.27786	.06605	-.01881	.00225	.00220	.01122	.25112	.13608	1.84534
10.300	-1.012	15.06366	.28328	.06794	-.01856	.00126	.00040	.00541	.25584	.13932	1.83642
10.300	.000	15.07483	.28450	.06635	-.01864	.00031	-.00107	-.00137	.25693	.13999	1.83534
10.300	1.027	15.06803	.28506	.06659	-.01894	-.00059	-.00252	-.00345	.25736	.14042	1.83288
GRADIENT		.00266	.00046	-.00042	.00011	-.00089	-.00123	-.00748	.00095	-.00017	.00890



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TABLATED SOURCE DATA - CPNT96 (LA-11)

LA-11, CPNT 96, ROCKWELL ORB. 0898 W/MOD. NOSE

(RFD013) (15 AUG 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 21.7666 90. IN. YPRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YPRP = .0000 INCHES
 BREF = 7.0251 INCHES ZPRP = .0000 INCHES
 SCALE = .0075

RUN NO. 19/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.092	20.13025	.43822	.07567	-.01365	.01113	.01100	.06771	.38534	.22205	1.73540
10.300	-8.086	20.12614	.44152	.07441	-.01541	.00941	.01051	.05723	.38695	.22160	1.73363
10.300	-7.079	20.12201	.44528	.07328	-.01655	.00774	.00971	.04639	.39290	.22196	1.76996
10.300	-6.022	20.11836	.44896	.07204	-.01707	.00636	.00817	.04091	.39644	.22300	1.77774
10.300	-5.055	20.11756	.45293	.07043	-.01737	.00526	.00640	.03507	.39616	.22404	1.77717
10.300	-4.044	20.11347	.45487	.07068	-.01617	.00417	.00480	.02806	.40172	.22581	1.77902
10.300	-2.992	20.11439	.45607	.07325	-.01467	.00293	.00337	.01987	.40306	.22562	1.76646
10.300	-2.019	20.11516	.45697	.07341	-.01687	.00187	.00206	.01266	.40385	.22609	1.76625
10.300	-.995	20.12697	.45777	.07314	-.01639	.00183	.00252	.00539	.40464	.22619	1.78692
10.300	-.014	20.12187	.45803	.07325	-.01842	-.00203	-.00118	-.00132	.40487	.22635	1.78870
10.300	1.015	20.12114	.45903	.07319	-.01835	-.00105	-.00276	-.02819	.40563	.22663	1.79471
10.300	GRADIENT	.00177	.00078	-.00011	.00001	-.00102	-.00150	-.00714	.00018	.00018	-.00193

ALPHA = 20.000 ELEVTR = -10.000
 ATLEON = .000 BOFLAP = -14.250

(RFD014) (15 AUG 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 21.7666 90. IN. YPRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YPRP = .0000 INCHES
 BREF = 7.0251 INCHES ZPRP = .0000 INCHES
 SCALE = .0075

RUN NO. 18/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.090	25.20012	.63680	.07964	-.01875	.01213	.01211	.06630	.54215	.34346	1.57851
10.300	-7.982	25.18487	.63680	.07766	-.01931	.01040	.01116	.05796	.54485	.34203	1.59298
10.300	-7.016	25.17409	.63941	.07699	-.01995	.00895	.00991	.04868	.54593	.34166	1.59787
10.300	-6.002	25.16057	.64061	.07544	-.02020	.00756	.00856	.04004	.54776	.34064	1.60904
10.300	-5.003	25.14681	.64066	.07508	-.02034	.00625	.00708	.03231	.54821	.34029	1.61100
10.300	-4.002	25.13703	.64204	.07463	-.02064	.00488	.00558	.02469	.54953	.34096	1.61487
10.300	-3.021	25.13095	.64355	.07473	-.02114	.00356	.00401	.01793	.55090	.34096	1.61371
10.300	-1.990	25.12618	.64823	.07621	-.02260	.00116	.00221	.01247	.55453	.34425	1.61084
10.300	-1.022	25.11888	.64880	.07664	-.02257	.00068	.00055	.00560	.55491	.34481	1.60932
10.300	-.042	25.12316	.64926	.07662	-.02253	-.00032	-.00109	-.00127	.55531	.34503	1.60946
10.300	1.012	25.12735	.64933	.07673	-.02250	-.00156	-.00287	-.00841	.55485	.34499	1.60833
10.300	GRADIENT	-.00225	.00148	-.00047	-.00037	-.00129	-.00169	-.00657	.00115	.00104	-.00132

ALPHA = 25.000 ELEVTR = -10.000
 ATLEON = .000 BOFLAP = -14.250

DATE 10 SEP 73
TABULATED SOURCE DATA - CPMT'96 (LA-11)
LA-11, CPMT 35, ROCKWELL CRG. DN98 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 30.000 ELEVTR = -10.000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

BREF = 21.7866 88.1M. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 17/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-8.920	30.35972	.69284	.07970	-.02827	.01220	.51356	.06620	.69647	.50032	1.39203
10.300	-7.929	30.32050	.66031	.07943	-.02967	.01039	.51184	.05893	.70253	.50286	1.39701
10.300	-6.929	30.29750	.63225	.07475	-.02914	.00970	.51019	.05071	.70473	.50302	1.40100
10.300	-5.932	30.28721	.60008	.07112	-.02853	.00866	.50867	.04146	.70379	.50036	1.40656
10.300	-4.972	30.26731	.56053	.07571	-.02811	.00866	.50742	.03296	.70456	.49999	1.40913
10.300	-3.984	30.23249	.51345	.07711	-.02863	.00820	.50561	.02556	.70705	.50164	1.40947
10.300	-2.974	30.24219	.46328	.07610	-.02930	.00532	.50406	.01841	.70919	.50155	1.41400
10.300	-1.961	30.22409	.40841	.07564	-.02991	.00269	.50267	.01166	.71241	.50257	1.41753
10.300	-.961	30.22379	.34874	.07440	-.03004	.00082	.50056	.00471	.71234	.50109	1.42156
10.300	1.007	30.22222	.28419	.07503	-.03047	-.00131	.49799	-.00209	.70234	.50234	1.41901
10.300	1.007	30.22375	.21532	.07564	-.03115	-.00287	.49467	-.00933	.71393	.50346	1.41806
10.300	GRADIENT	-.00752	.10155	-.00753	-.00049	-.00161	-.00170	-.00702	.00157	.00041	.00198

08P0016) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 35.000 ELEVTR = -10.000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

BREF = 21.7866 88.1M. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 15/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.733	35.54967	1.07956	.07865	-.04497	.01233	.01378	.06497	.83261	.69166	1.20379
10.300	-7.746	35.50916	1.05662	.07761	-.04516	.01088	.01210	.05649	.83951	.69460	1.20862
10.300	-6.601	35.47950	1.09175	.07779	-.04492	.00920	.01059	.04899	.84389	.69698	1.21077
10.300	-5.628	35.44364	1.09669	.07748	-.04548	.00757	.00887	.04122	.85016	.70226	1.21406
10.300	-4.684	35.41997	1.10016	.07744	-.04523	.00606	.00722	.03411	.85173	.70068	1.21558
10.300	-3.875	35.40219	1.10178	.07727	-.04498	.00451	.00542	.02622	.85331	.70126	1.21682
10.300	-2.808	35.37567	1.10229	.07715	-.04509	.00260	.00375	.01904	.85411	.70107	1.21831
10.300	-1.945	35.37192	1.10521	.07691	-.04526	.00117	.00237	.01144	.85668	.70250	1.21949
10.300	-.983	35.36837	1.10970	.07645	-.04563	-.00051	.00074	.00362	.85747	.70226	1.22101
10.300	-.054	35.35936	1.10723	.07662	-.04629	-.00209	-.00046	-.00334	.85865	.70324	1.22056
10.300	.964	35.35960	1.10755	.07683	-.04651	-.00364	-.00253	-.01054	.85878	.70360	1.22055
10.300	GRADIENT	-.00888	.00134	-.00014	-.00068	-.00168	-.00165	-.00770	.00130	.00051	.00096



DATE 10 27 73

TABULATED SOURCE DATA - CPMT06 (LA-11)

LA-11, CPMT 96, ROCKWELL CRB. 0888 W/MOD. NOSE

PARAMETRIC DATA

BETA = .000 ELEVTR = -20.000
ATLUNON = .000 BOFLAP = -14.250

WMOH = 21.7666 88.1M. WMP = 6.2902 INCHES
LWEP = 3.9811 INCHES WMP = .0000 INCHES
SWEP = 7.0251 INCHES ZWEP = .0000 INCHES
SCALE = .0075

RUN NO. 32/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	CA	CLM	CLN	CLP	CYN	CY	CL	CD	L/D
10.300	10.080	-.00337	.13661	-.01899	.00051	-.00127	-.00125	-.00125	.12441	.09255	1.34425
10.300	15.012	-.00298	.06820	-.01444	.00025	-.00115	-.00250	-.00250	.24993	.13763	1.81670
10.300	20.114	-.00240	.44324	-.01062	-.00080	-.00130	-.00240	-.00240	.39160	.21962	1.78307
10.300	25.199	-.00227	.63927	-.01240	-.00055	-.00132	-.00327	-.00327	.54571	.34173	1.59688
10.300	30.209	-.00371	.84617	-.01604	-.00140	-.00139	-.00430	-.00430	.69313	.49123	1.41101
10.300	35.263	-.00537	1.08039	-.02669	-.00245	-.00115	-.02378	-.02378	.83705	.66732	1.21751
GRADIENT		-.00010	.03758	-.00027	-.00011	-.00020	-.00716	-.00716	.02653	.02350	-.01152

CPMT018 (15 AUG 73)

LA-11, CPMT 96, ROCKWELL CRB. 0888 W/MOD. NOSE

PARAMETRIC DATA

BETA = -5.000 ELEVTR = -20.000
ATLUNON = .000 BOFLAP = -14.250

WMOH = 21.7666 88.1M. WMP = 6.2902 INCHES
LWEP = 3.9811 INCHES WMP = .0000 INCHES
SWEP = 7.0251 INCHES ZWEP = .0000 INCHES
SCALE = .0075

RUN NO. 33/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	CA	CLM	CLN	CLP	CYN	CY	CL	CD	L/D
10.300	9.881	-4.82127	.16313	-.01463	.00477	.00405	.00433	.00433	.12650	.09546	1.34322
10.300	15.030	-4.97680	.07225	-.01339	.00456	.00490	.00640	.00640	.26055	.14490	1.75846
10.300	20.037	-4.99706	.45588	-.00976	.00462	.00674	.00249	.00249	.40290	.22574	1.78477
10.300	25.263	-4.97486	.65006	-.00975	.00559	.00701	.00072	.00072	.55538	.34633	1.60362
10.300	30.194	-4.91514	.85470	-.01352	.00577	.00869	.00053	.00053	.69973	.49685	1.40837
10.300	35.328	-4.81480	1.08077	-.02603	.00534	.00674	.00209	.00209	.84471	.68432	1.21825
GRADIENT		.00420	.03737	-.00032	.00004	.00011	.00283	.00283	.02848	.02351	-.01121

TABULATED SOURCE DATA - CPNT96 (LA-11)

LA-11, CPNT 96, ROOMELL CRB, 0698 W/MCO, NOSE

(RPO019) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -20.000
AIIURM = .000 BOFLAP = -14.250

REFERENCE DATA

REF = 81.7068 88.1N. 149P = 6.2902 INCHES
LREF = 3.9611 INCHES 149P = .0000 INCHES
BREF = 7.0251 INCHES 249P = .0000 INCHES
SCALE = .0075

RUN NO. 38/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

W/CO	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/O
10.300	-8.925	9.91369	-1.2781	.07426	-.01280	.00882	.00450	.06168	.11292	.09512	1.18716
10.300	-7.903	9.92485	-1.2633	.07235	-.01360	.00746	.00466	.06900	.11197	.09304	1.20343
10.300	-8.822	9.93072	-1.3101	.07176	-.01610	.00635	.00462	.05772	.11763	.09332	1.24981
10.300	-8.933	9.93612	-1.3066	.07032	-.01608	.00523	.00406	.04771	.11660	.09156	1.27390
10.300	-4.988	9.97938	-1.3256	.06960	-.01633	.00434	.00406	.03793	.11849	.09151	1.29478
10.300	-3.988	9.99099	-1.3475	.06774	-.01719	.00340	.00337	.02870	.12093	.09010	1.32226
10.300	-2.996	9.99331	-1.3479	.06653	-.01675	.00280	.00203	.02112	.12085	.09090	1.32947
10.300	-2.077	10.01658	-1.3937	.06748	-.01770	.00280	.00203	.01318	.12570	.09073	1.36547
10.300	-1.005	10.01966	-1.3932	.06766	-.01790	.00126	.00031	.00567	.12561	.09103	1.37979
10.300	-.031	10.01154	-1.4236	.07038	-.01688	.00061	-.00096	-.00151	.12798	.09406	1.36063
10.300	.993	10.00807	-1.3687	.07010	-.01690	-.00016	-.00214	-.00964	.12457	.09317	1.33701
10.300	GRADIENT	.00337	.00140	.00022	-.00036	-.00076	-.00105	-.00786	.00133	.00147	.00769

(RPO020) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -20.000
AIIURM = .000 BOFLAP = -14.250

REFERENCE DATA

REF = 81.7068 88.1N. 149P = 6.2902 INCHES
LREF = 3.9611 INCHES 149P = .0000 INCHES
BREF = 7.0251 INCHES 249P = .0000 INCHES
SCALE = .0075

RUN NO. 39/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

W/CO	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/O
10.300	-9.029	14.93893	.27191	.07647	-.01073	.00894	.00717	.08014	.24249	.14592	1.66185
10.300	-7.986	14.94601	.27463	.07780	-.01211	.00767	.00651	.06829	.24553	.14583	1.68383
10.300	-6.980	14.94639	.27384	.07479	-.01337	.00656	.00590	.05769	.24328	.14290	1.71654
10.300	-6.041	14.95676	.27008	.07093	-.01312	.00545	.00703	.04248	.24262	.13823	1.75522
10.300	-4.981	14.96636	.27332	.07365	-.01339	.00470	.00472	.03669	.24715	.14231	1.77573
10.300	-3.972	14.96832	.27418	.07147	-.01503	.00366	.00332	.02841	.24670	.13994	1.76290
10.300	-2.989	14.97648	.27896	.06913	-.01472	.00266	.00266	.02059	.24938	.13958	1.76656
10.300	-2.019	14.97826	.27397	.06613	-.01472	.00217	.00232	.01065	.24757	.13470	1.83797
10.300	-.989	14.98000	.27834	.06818	-.01411	.00116	.00047	.00490	.24932	.13730	1.81593
10.300	-.001	14.98126	.27827	.06838	-.01445	.00031	-.00099	-.00205	.25114	.13799	1.81996
10.300	1.000	14.97777	.27966	.06873	-.01453	-.00032	-.00241	-.00931	.25259	.13873	1.82031
10.300	GRADIENT	.00227	.00072	-.00063	-.00004	-.00066	-.00117	-.00772	.00090	-.00060	.01415

TABLATED SOURCE DATA - CRHT96 (LA-11)

(RPD021) (15 AUG 73)

LA-11, CRHT 96, ROCKWELL CRB. 0698 W/MCO. NOSE

PARAMETRIC DATA

ALPHA = 20.000 ELEVTR = -20.000
AILRON = .000 BOFLAP = -14.250

REFERENCE DATA

WREF = 21.7866 96. IN. XMRP = 6.2902 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0251 INCHES ZMRP = .0000 INCHES
SCALE = .0075

RUN NO. 37/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.048	20.10920	.43409	.07653	-.00886	.01068	.01110	.06741	.38131	.22111	1.72451
10.300	-6.019	20.09697	.43694	.07514	-.00870	.00897	.01087	.05323	.38451	.22071	1.74211
10.300	-7.097	20.09634	.44233	.07438	-.00962	.00748	.01003	.04674	.38984	.22184	1.75732
10.300	-6.057	20.09571	.44167	.07370	-.00988	.00613	.00841	.04010	.38946	.22097	1.76246
10.300	-5.025	20.09625	.44520	.07502	-.01036	.00903	.00653	.03413	.39300	.22155	1.77369
10.300	-4.026	20.09708	.45093	.07394	-.01149	.00996	.00486	.02686	.39810	.22429	1.77492
10.300	-3.011	20.09579	.45241	.07410	-.01197	.00287	.00350	.01872	.40019	.22417	1.78522
10.300	-2.028	20.09622	.45285	.07502	-.01163	.00194	.00214	.01196	.40191	.22454	1.78992
10.300	-1.050	20.09532	.45459	.07278	-.01158	.00064	.00067	.00446	.39931	.22287	1.79169
10.300	.014	20.09166	.45157	.07213	-.01058	-.00008	-.00113	-.00289	.40339	.22436	1.79793
10.300	1.008	20.09711	.45592	.07209	-.01047	-.00118	-.00270	-.00373	.40079	-.00016	.00481
10.300	GRADIENT	-.00021	.00068	-.00042	.00227	-.00101	-.00151	-.00170			

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = -20.000
AILRON = .000 BOFLAP = -14.250

LA-11, CRHT 96, ROCKWELL CRB. 0698 W/MCO. NOSE

REFERENCE DATA

WREF = 21.7866 96. IN. XMRP = 6.2942 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0251 INCHES ZMRP = .0000 INCHES
SCALE = .0075

RUN NO. 36/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.030	25.25763	.63531	.08111	-.00946	.01104	.01180	.07147	.53996	.34444	1.56765
10.300	-8.030	25.24574	.63486	.07862	-.00892	.01017	.01113	.05821	.54071	.34188	1.58156
10.300	-7.020	25.22596	.63640	.07774	-.00921	.00960	.01008	.04874	.54256	.34159	1.58833
10.300	-5.959	25.21894	.63765	.07689	-.00946	.00711	.00852	.03984	.54412	.34125	1.59448
10.300	-5.007	25.20408	.63536	.07522	-.00947	.00584	.00713	.03271	.54286	.33863	1.60308
10.300	-4.024	25.20069	.63784	.07485	-.00994	.00459	.00568	.02453	.54526	.33932	1.60695
10.300	-2.990	25.18476	.64089	.07495	-.01042	.00331	.00402	.01722	.54807	.34055	1.60940
10.300	-1.995	25.17946	.64083	.07589	-.01147	.00218	.00218	.01181	.54765	.34133	1.60448
10.300	-1.026	25.17867	.64346	.07642	-.01205	.00048	.00051	.00497	.54980	.34292	1.60332
10.300	-.015	25.17638	.64373	.07711	-.01199	-.00095	-.00121	-.00190	.54977	.34363	1.59989
10.300	1.000	25.17828	.64210	.07644	-.01204	-.00173	-.00290	-.00878	.54857	.34235	1.60236
10.300	GRADIENT	-.00098	.00093	-.00043	-.00045	-.00127	-.00172	-.00659	.00068	.00074	-.00150

DATE 10 SEP 73

TABLATED SOURCE DATA - CPHT96 (LA-11)

(RFD023) (15 AUG 73)

LA-11,CPHT 96, ROCKWELL ORB. 0898 W/MOD. NOSE

PARAMETRIC DATA

REFERENCE DATA

BREF = 21.7866 58-IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0073

ALPHA = 30.000 ELEVTR = -20.000
 AILRON = .000 BOFLAP = -14.250

RUN NO. 35/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.805	30.32170	.64451	.07968	-.01374	.01172	.01340	.06585	.66876	.49514	1.39106
10.300	-7.931	30.29214	.64504	.07930	-.01375	.01046	.01169	.05762	.68966	.49472	1.39404
10.300	-6.902	30.27076	.64968	.07876	-.01364	.00915	.00993	.04876	.69413	.49634	1.39851
10.300	-5.931	30.24117	.65041	.07824	-.01357	.00752	.00849	.04046	.69528	.49590	1.40207
10.300	-4.945	30.23039	.65047	.07699	-.01313	.00605	.00702	.03267	.69605	.49471	1.40698
10.300	-3.985	30.21343	.65060	.07756	-.01359	.00470	.00562	.02479	.69629	.49500	1.40667
10.300	-2.956	30.20352	.65115	.07683	-.01445	.00318	.00369	.01740	.70041	.49661	1.41039
10.300	-1.955	30.19725	.65765	.07645	-.01519	.00169	.00204	.01060	.70281	.49745	1.41283
10.300	-1.059	30.19099	.65837	.07587	-.01533	.00025	.00060	.00398	.70378	.49724	1.41538
10.300	-.015	30.18447	.65486	.07526	-.01522	-.00148	-.00131	-.00316	.70113	.49488	1.41676
10.300	1.020	30.18946	.66047	.07646	-.01589	-.00285	-.00280	-.01069	.70531	.49878	1.41408
10.300	GRADIENT	-.00691	.00149	-.00024	-.00045	-.00151	-.00168	-.00717	.00147	.00045	.00167

(RFD024) (15 AUG 73)

LA-11,CPHT 96, ROCKWELL ORB. 0898 W/MOD. NOSE

PARAMETRIC DATA

REFERENCE DATA

BREF = 11.7866 58-IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0073

ALPHA = 35.000 ELEVTR = -20.000
 AILRON = .000 BOFLAP = -14.250

RUN NO. 34/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-6.725	35.44936	1.07734	.07916	-.02894	.01125	.01340	.06426	.63167	.69945	1.20637
10.300	-7.756	35.40742	1.08074	.07874	-.02823	.00971	.01176	.05608	.63524	.69034	1.20990
10.300	-6.769	35.37271	1.08349	.07830	-.02792	.00813	.01010	.04841	.63804	.69124	1.21238
10.300	-5.813	35.34647	1.09019	.07798	-.02769	.00637	.00855	.04046	.64412	.69430	1.21579
10.300	-4.877	35.31159	1.08770	.07792	-.02745	.00505	.00684	.03319	.64255	.69230	1.21703
10.300	-3.869	35.29563	1.09043	.07761	-.02723	.00348	.00499	.02528	.64515	.69339	1.21886
10.300	-2.893	35.27515	1.09371	.07763	-.02714	.00191	.00337	.01720	.64795	.69516	1.21979
10.300	-1.935	35.26334	1.09302	.07640	-.02722	.00025	.00193	.00993	.64835	.69342	1.22342
10.300	-.963	35.26448	1.09665	.07762	-.02753	-.00139	.00042	.00184	.65060	.69653	1.22120
10.300	-.017	35.26189	1.09698	.07717	-.02769	-.00290	-.00118	-.00356	.65115	.69631	1.22238
10.300	.997	35.25652	1.09411	.07674	-.02816	-.00456	-.00293	-.01322	.64910	.69425	1.22305
10.300	GRADIENT	-.00672	.00129	-.00017	-.00014	-.00165	-.00164	-.00794	.00126	.00048	.00097



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TABULATED SOURCE DATA - CFHT96 (LA-11)

PAGE 15

(RPD025) (15 AUG 75)

LA-11, CFHT 96, ROCKWELL CRB, 0898 W/MOD, NOSE

PARAMETRIC DATA

BETA = .000 ELEVTR = -40.000
AIRLON = .000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7866 98. IN. XRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRP = .0000 INCHES
BREF = 7.0251 INCHES ZRP = .0000 INCHES
SCALE = .0075

RUN NO. 62/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	BETA	CN	CA	CLM	CBL	CIN	CY	CL	CD	L/D
10.300	10.001	-.00194	.13136	.07229	-.01441	.00072	-.03121	-.00221	.11673	.09460	1.23367
10.300	15.002	-.00191	.27178	.06976	-.00992	.00748	-.03120	-.00240	.24433	.13794	1.77125
10.300	20.134	-.00106	.43364	.07380	-.00421	.00012	-.03145	-.00235	.59174	.21855	1.74668
10.300	25.224	-.00034	.52965	.07971	-.00223	-.00023	-.03131	-.00282	.53200	.33673	1.57055
10.300	30.192	-.00164	.62336	.07929	-.00141	-.00092	-.03149	-.00352	.67215	.46214	1.39408
10.300	35.333	-.00291	1.05462	.08288	-.00082	-.00174	-.03130	-.00503	.81260	.67764	1.19815
GRADIENT		-.00002	.03651	.00048	-.00039	-.00010	-.03101	-.00010	.02775	.02298	-.00636

(RPD026) (15 AUG 75)

LA-11, CFHT 96, ROCKWELL CRB, 0938 W/MOD, NOSE

PARAMETRIC DATA

BETA = -5.000 ELEVTR = -40.000
AIRLON = .000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7866 98. IN. XRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRP = .0000 INCHES
BREF = 7.0251 INCHES ZRP = .0000 INCHES
SCALE = .0075

RUN NO. 63/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	BETA	CN	CA	CLM	CBL	CIN	CY	CL	CD	L/D
10.300	9.971	-4.92274	.13721	.07442	-.01165	.00065	.00312	-.03939	.12226	.09706	1.25960
10.300	15.009	-4.98467	.27672	.07056	-.00851	.00095	-.00654	.03106	.24900	.13962	1.78089
10.300	20.110	-5.00156	.44407	.07546	-.00329	.00464	.00666	-.03237	.39106	.22354	1.74938
10.300	25.106	-4.97923	.63264	.07911	-.00032	.00051	.00697	.03143	.53683	.34081	1.58103
10.300	30.276	-4.91637	.84223	.08163	-.00093	.00070	.00693	.03079	.69610	.49528	1.39527
10.300	35.394	-4.81760	1.06605	.08410	-.00547	.00552	.00667	.03301	.82196	.68716	1.19616
GRADIENT		.00424	.03674	.00048	-.00035	.00009	.00031	-.00019	.02765	.02324	-.00944

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TABLATED SOURCE DATA - CRHT96 (LA-11)

LA-11, CRHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

(RP0027) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -40.000
AILRON = .000 BOFLAP = -14.250

REFERENCE DATA

WREF = 21.7866 98.IN. XWRP = 6.2902 INCHES
LWREF = 3.5611 INCHES YWRP = .0000 INCHES
BREF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

RUN NO. 68/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CT	CL	CD	L/D
10.300	-6.926	9.93719	.11903	.07748	-.0782	.00789	.00415	.00306	.10367	.09666	1.07234
10.300	-7.931	9.96976	.12032	.07539	-.00990	.00676	.00430	.00773	.10345	.09508	1.10899
10.300	-6.942	9.98164	.12392	.07956	-.01066	.00575	.00411	.00993	.10890	.09386	1.16024
10.300	-5.955	9.99553	.12453	.07909	-.01179	.00478	.00387	.04951	.10982	.09357	1.17370
10.300	-4.563	10.01491	.12569	.07170	-.01248	.00369	.00366	.04004	.11130	.09246	1.20373
10.300	-3.960	10.02497	.12940	.07057	-.01304	.00319	.00290	.03063	.11514	.09202	1.25119
10.300	-2.977	10.04776	.13222	.07032	-.01353	.00253	.00168	.02224	.11793	.09231	1.27754
10.300	-1.978	10.05621	.13176	.06911	-.01456	.00168	.00127	.01362	.11770	.09102	1.29314
10.300	-.995	10.05426	.13425	.07023	-.01411	.00126	.00027	.00590	.11993	.09258	1.29532
10.300	-.004	10.05690	.13490	.07322	-.01429	.00066	-.00106	-.00175	.12004	.09565	1.25496
10.300	-.992	10.06005	.13395	.07253	-.01432	.00031	-.00202	-.00992	.11923	.09481	1.25753
10.300	.00743	.00000	.00136	.00028	-.00031	-.00060	-.00096	-.00632	.00128	.00052	.00674

GRADIENT

(RP0028) (15 AUG 73)

LA-11, CRHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -40.000
AILRON = .000 BOFLAP = -14.250

REFERENCE DATA

WREF = 21.7866 98.IN. XWRP = 6.2902 INCHES
LWREF = 3.5611 INCHES YWRP = .0000 INCHES
BREF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

RUN NO. 68/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CT	CL	CD	L/D
10.300	-9.033	14.96328	.26122	.07636	-.00917	.00861	.00790	.07913	.23212	.14317	1.62128
10.300	-8.022	14.96471	.26279	.07535	-.00679	.00734	.00747	.06613	.23441	.14066	1.66658
10.300	-7.018	14.97117	.26433	.07299	-.00957	.00608	.00776	.05241	.23650	.13879	1.70399
10.300	-6.022	14.96634	.26628	.07218	-.00883	.00496	.00669	.04390	.23855	.13659	1.72134
10.300	-5.030	14.99342	.26403	.07027	-.00939	.00405	.00638	.03267	.23689	.13619	1.73939
10.300	-4.015	15.00111	.27062	.07231	-.00930	.00372	.00346	.02976	.24268	.13990	1.73471
10.300	-3.018	15.00006	.26853	.06844	-.01046	.00261	.00334	.01927	.24166	.13562	1.78185
10.300	-2.000	15.00532	.27213	.06920	-.01074	.00165	.00165	.01263	.24493	.13730	1.78390
10.300	-1.008	15.00756	.27340	.06991	-.01011	.00115	.00036	.00548	.24597	.13632	1.77631
10.300	-.004	15.01191	.27472	.06991	-.01001	.00054	-.00104	-.00153	.24723	.13668	1.78273
10.300	-.998	15.01060	.27542	.07039	-.00990	-.00018	-.00247	-.00927	.24779	.13933	1.77890
10.300	.00217	.00000	.00123	-.00013	-.00000	-.00075	-.00126	-.00754	.00123	.00021	.00616

GRADIENT

TABULATED SOURCE DATA - CFHT96 (LA-11)

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

DATE 10 SEP 75

(RPD029) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 20.000 ELEVTR = -40.000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

MACH = 21.7896 98. IN. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0231 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 67/ 0 PAVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CL	CYN	CY	CL	CD	L/D
10.300	-9.080	20.04291	.42182	.07965	.00053	.01051	.01019	.07111	.36898	.21939	1.66180
10.300	-8.045	20.04340	.42484	.07776	-.00116	.00861	.00593	.05964	.37246	.21866	1.70342
10.300	-7.046	20.03654	.42859	.07612	-.00272	.00708	.00925	.04968	.37656	.21837	1.72441
10.300	-6.040	20.03736	.43043	.07531	-.00305	.00585	.00808	.04106	.37858	.21823	1.73472
10.300	-5.045	20.03723	.43040	.07501	-.00330	.00482	.00651	.03408	.37864	.21794	1.73736
10.300	-4.018	20.03641	.43245	.07465	-.00392	.00391	.00521	.02640	.38070	.21653	1.74392
10.300	-3.015	20.03115	.43223	.07352	-.00353	.00307	.00366	.01777	.38090	.21712	1.75430
10.300	-2.011	20.03431	.43282	.07243	-.00276	.00239	.00201	.01131	.38182	.21632	1.76505
10.300	-1.011	20.03454	.43767	.07513	-.00470	.00093	.00039	.00519	.38544	.22052	1.74789
10.300	.000	20.03396	.43624	.07362	-.00361	.00010	-.00127	-.00175	.38462	.21862	1.75934
10.300	1.007	20.03545	.43443	.07328	-.00305	-.00069	-.00300	-.00822	.38303	.21768	1.75961
GRADIENT		.00011	.00076	-.00011	.00006	-.00098	-.00161	-.00676	.00075	.00016	.00217

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RPD030) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = -40.000
ATLRON = .000 BOFLAP = -14.250

REFERENCE DATA

MACH = 21.7896 98. IN. XRRP = 6.2902 INCHES
LREF = 3.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0231 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 66/ 0 PAVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CL	CYN	CY	CL	CD	L/D
10.300	-9.033	25.24677	.61773	.06342	.00247	.01133	.01156	.07026	.52314	.33892	1.54354
10.300	-8.016	25.25616	.62113	.06117	.00200	.00971	.01092	.06918	.52728	.33827	1.55878
10.300	-7.012	25.21790	.62243	.06071	.00095	.00829	.00961	.05930	.52877	.33824	1.56331
10.300	-6.002	25.20425	.62350	.07933	.00044	.00702	.00847	.04177	.53036	.33729	1.57242
10.300	-5.015	25.19927	.62366	.07851	.00093	.00588	.00700	.03356	.53066	.33658	1.57730
10.300	-4.000	25.18778	.62546	.07821	.00021	.00492	.00596	.02532	.53272	.33697	1.58090
10.300	-3.016	25.17174	.62653	.07799	-.00020	.00338	.00390	.01853	.53386	.33707	1.58382
10.300	-2.004	25.17235	.63025	.07796	-.00108	.00202	.00210	.01258	.53724	.33863	1.58650
10.300	-1.002	25.17291	.63248	.07904	-.00149	.00083	.00043	.00558	.53879	.34056	1.58206
10.300	.008	25.17005	.63156	.07966	-.00132	-.00010	-.00140	-.00177	.53753	.34061	1.57812
10.300	1.002	25.17879	.63182	.07936	-.00189	-.00108	-.00294	-.00824	.53764	.34056	1.57928
GRADIENT		-.00140	.00135	-.00042	-.00042	-.00113	-.00171	-.00672	.00169	.00087	-.00083

REFERENCE DATA
 BETA = 21.7666 98. IN. XRRP = 6.2902 INCHES
 LREF = 3.5811 INCHES YRRP = .0000 INCHES
 SREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 30.000 ELEVTR = -40.000
 AILRON = .000 BDFLAP = -14.250

RUN NO. 65/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-6.980	30.30470	.82515	.08336	.00040	.01131	.01324	.06697	.67024	.48852	1.37198
10.300	-7.915	30.29631	.83114	.08296	.00108	.01020	.01166	.05866	.67577	.49093	1.37650
10.300	-6.937	30.28222	.83254	.08227	.00092	.00891	.01005	.05038	.67763	.49082	1.38116
10.300	-5.946	30.23886	.83134	.08125	.00112	.00782	.00856	.04123	.67730	.48887	1.38545
10.300	-4.957	30.21807	.83292	.08094	.00166	.00622	.00725	.03233	.67900	.48915	1.38813
10.300	-3.960	30.20976	.83518	.08078	.00101	.00481	.00558	.02543	.68111	.49004	1.38990
10.300	-2.969	30.19615	.83709	.08037	.00056	.00337	.00390	.01839	.68308	.49049	1.39266
10.300	-1.973	30.18756	.83819	.07989	-.00033	.00207	.00217	.01137	.68434	.49053	1.39512
10.300	-1.002	30.18819	.83960	.07941	-.00035	.00070	.00045	.00451	.68580	.49082	1.39724
10.300	-.008	30.18824	.84093	.07956	-.00092	-.00191	-.00129	-.00292	.68687	.49162	1.39716
10.300	.992	30.17845	.84135	.07994	-.00076	-.00225	-.00288	-.01040	.68713	.49205	1.39647
GRADIENT			.07142	-.00023	-.00043	-.00143	-.00172	-.00717	.00139	.00044	.00159

REFERENCE DATA
 BETA = 21.7666 98. IN. XRRP = 6.2902 INCHES
 LREF = 3.5811 INCHES YRRP = .0000 INCHES
 SREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 35.000 ELEVTR = -40.000
 AILRON = .000 BDFLAP = -14.250

RUN NO. 64/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-6.740	35.53789	1.06124	.08461	-.00716	.01199	.01345	.06665	.81414	.68597	1.18685
10.300	-7.750	35.51619	1.06695	.08394	-.00665	.01015	.01184	.05837	.81968	.69615	1.19114
10.300	-6.763	35.48249	1.07060	.08336	-.00608	.00669	.01039	.05050	.82339	.68931	1.19452
10.300	-5.825	35.44743	1.07274	.08339	-.00597	.00719	.00866	.04274	.82554	.69008	1.19630
10.300	-4.835	35.42530	1.07401	.08374	-.00531	.00572	.00694	.03510	.82664	.69077	1.19669
10.300	-3.878	35.41125	1.07497	.08362	-.00491	.00433	.00520	.02718	.82766	.69104	1.19771
10.300	-2.918	35.38797	1.07629	.08318	-.00476	.00282	.00335	.01930	.82927	.69111	1.19992
10.300	-1.931	35.37859	1.07681	.08316	-.00497	.00131	.00211	.01115	.82982	.69125	1.20045
10.300	-.977	35.37363	1.07890	.08310	-.00577	-.00004	.00031	.00362	.83129	.69211	1.20110
10.300	-.003	35.37018	1.07583	.08281	-.00590	-.00160	-.00123	-.00409	.82916	.69016	1.20140
10.300	.989	35.37504	1.07484	.08276	-.00582	-.00306	-.00283	-.01178	.82853	.68969	1.20131
GRADIENT			.00022	-.00017	-.00017	-.00151	-.00166	-.00806	.00039	-.00015	.00083



DATE 10 SEP 75
 TASKULATED SOURCE DATA - CPHY96 (LA-11)
 (RP0033) (15 AUG 75)
 LA-11,CPHY 96, ROCKWELL CRB. 0688 W/MOD. NOSE

REFERENCE DATA

MACH = 21.7686 SQ.IN. XPRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA

BETA = .000 ELEVTR = 10.000
 AIRLON = .000 BCFAP = -14.250

RUN NO. 78/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	9.956	-0.0335	.17619	.07941	-.04990	-.00084	-.00061	-.00233	.16176	.10902	1.48396
10.300	14.966	-0.0401	.33653	.08165	-.06508	-.00205	-.00030	-.00264	.30590	.16640	1.83829
10.300	20.126	-0.0556	.53488	.09297	-.08395	-.00298	-.00006	-.00296	.47023	.27134	1.73303
10.300	25.076	-0.0779	.74759	.10255	-.10396	-.00373	.00022	-.00366	.63348	.40964	1.54643
10.300	30.125	-0.1171	.98069	.10929	-.12601	-.00515	.00063	-.00428	.79338	.58673	1.35220
10.300	35.252	-0.1522	1.23936	.11782	-.15617	-.00612	.00072	-.00589	.94327	.81096	1.16315
GRADIENT		-.00049	.04207	.00161	-.00419	-.00020	.00005	-.00013	.03129	.02776	-.01637

(RP0034) (15 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVTR = 10.000
 AIRLON = .000 BCFAP = -14.250

RUN NO. 79/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

MACH = 21.7686 SQ.IN. XPRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	9.969	-4.91849	.16429	.07561	-.04522	.00375	.00403	.03655	.14869	.10296	1.44405
10.300	14.999	-4.97637	.32611	.08360	-.06179	.00317	.00531	.03586	.29524	.13586	1.76007
10.300	20.104	-4.99619	.52160	.09162	-.07971	.00248	.00725	.03290	.45845	.26558	1.72621
10.300	25.136	-4.97991	.73584	.09996	-.10768	.00217	.00870	.02938	.62369	.40306	1.54741
10.300	30.255	-4.96159	.97690	.10979	-.12376	.00199	.00917	.02877	.78872	.58677	1.34419
10.300	35.351	-4.82423	1.23793	.11900	-.15374	.00173	.00926	.03016	.94083	.81331	1.15679
GRADIENT		.00370	.04241	.00171	-.00422	-.00008	.00022	-.00032	.03158	.02791	-.01651

LA-11, CPMT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

BETA = 21.7666 96. IN. XMRP = 6.2902 INCHES
 LREF = 3.5811 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 35.000 ELEVTR = 10.000
 ATLRON = .000 BDFLAP = -14.250

RUN NO. 85/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	COL	CYN	CY	CL	CD	L/D
10.300	-6.757	35.29363	1.22764	.11974	-.14940	.00828	.01587	.06518	.93140	.80865	1.15180
10.300	-7.766	35.35120	1.23360	.11953	-.15049	.00857	.01427	.05658	.93699	.81124	1.15502
10.300	-6.801	35.32358	1.23963	.11916	-.15124	.00490	.01267	.04892	.94266	.81408	1.15797
10.300	-5.840	35.29428	1.24367	.11893	-.15177	.00324	.01100	.04071	.94636	.81563	1.16028
10.300	-4.870	35.26595	1.24799	.11925	-.15282	.00181	.00944	.03293	.95011	.81792	1.16182
10.300	-3.892	35.24425	1.24832	.11858	-.15334	.00119	.00780	.02490	.95108	.81720	1.16382
10.300	-2.986	35.23121	1.24907	.11933	-.15301	-.00149	.00633	.01715	.95120	.81664	1.16477
10.300	-1.949	35.21552	1.24979	.11710	-.15370	-.00303	.00474	.00929	.95435	.81694	1.16820
10.300	-.383	35.20036	1.24969	.11696	-.15336	-.00455	.00276	.00249	.95380	.81619	1.16860
10.300	-.015	35.20178	1.24985	.11738	-.15375	-.00372	.00079	-.00389	.95382	.81640	1.16909
10.300	.958	35.20679	1.25040	.11704	-.15405	-.00714	-.00089	-.01117	.95417	.81656	1.16832
GRADIENT			.00045	-.00038	-.00016	-.00154	-.00179	-.00753	.00075	-.00023	.00122

LA-11, CPMT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

BETA = 21.7666 96. IN. XMRP = 6.2902 INCHES
 LREF = 3.5811 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 30.000 ELEVTR = 10.000
 ATLRON = .000 BDFLAP = -14.250

RUN NO. 84/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	COL	CYN	CY	CL	CD	L/D
10.300	-6.940	30.29796	.97816	.11337	-.12013	.00785	.01531	.06646	.78832	.59173	1.33224
10.300	-.958	30.28125	.98307	.11325	-.12121	.00449	.01351	.05791	.79204	.59323	1.33513
10.300	-6.943	30.29526	.98736	.11262	-.12208	.00513	.01196	.04923	.79436	.59332	1.33484
10.300	-5.944	30.21371	.98445	.11265	-.12233	.00349	.01074	.03828	.79493	.59119	1.34462
10.300	-4.972	30.20470	.98780	.11539	-.12336	.00208	.00932	.03101	.79798	.59276	1.34736
10.300	-3.987	30.17686	.96826	.11073	-.12449	.00150	.00771	.02344	.79902	.59189	1.34995
10.300	-2.984	30.17668	.98932	.11228	-.12518	-.00174	.00537	.01692	.79981	.59283	1.34960
10.300	-1.982	30.17593	.99235	.10344	-.12592	-.00191	.00407	.01035	.80289	.59339	1.35305
10.300	-1.003	30.15878	.95173	.10393	-.12629	-.00344	.00240	.00314	.80276	.59242	1.35504
10.300	-.016	30.15661	.99224	.10882	-.12616	-.00487	.00076	-.00332	.80328	.59256	1.35561
10.300	.982	30.18248	.99459	.10956	-.12607	-.00612	-.00082	-.01083	.80450	.59424	1.35382
GRADIENT			.00108	-.00023	-.00045	-.00137	-.00173	-.00695	.00112	-.00026	.00130

(RFD037) (15 AUG 75)

TABULATED SOURCE DATA - CFT96 (LA-11)

LA-11, CFT 96, ROCKWELL CRB. 0698 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = 10.000
AILRON = .000 BOFLAP = -14.250

REFERENCE DATA

MACH 10.300
REF = 21.7666 98.1N. XREF = 6.2912 INCHES
REF = 3.9411 INCHES YREF = .0000 INCHES
REF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 63/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CL	CYN	CY	CL	CD	L/D
10.300	-9.046	25.20506	.74677	.10514	-.09430	.00803	.01375	.06767	.62185	.40869	1.52084
10.300	-6.033	25.19350	.74031	.10595	-.09616	.00823	.01294	.05705	.62364	.40919	1.52896
10.300	-7.027	25.16924	.74224	.10275	-.09474	.00845	.01166	.04764	.62807	.40667	1.53687
10.300	-6.020	25.16196	.74375	.10148	-.09659	.00845	.01015	.03892	.63003	.40607	1.54391
10.300	-5.022	25.15157	.74320	.10093	-.09966	.00823	.00900	.03093	.63165	.40808	1.54787
10.300	-4.010	25.14990	.74741	.10104	-.10066	.00803	.00729	.02351	.63362	.40910	1.54881
10.300	-3.007	25.13725	.74995	.10056	-.10155	.00823	.00561	.01654	.63621	.40960	1.55323
10.300	-2.000	25.13614	.75147	.10141	-.10201	.00803	.00393	.01090	.63723	.41101	1.55041
10.300	-1.008	25.14426	.75265	.10161	-.10225	.00823	.00216	.00544	.63816	.41178	1.54974
10.300	-0.006	25.13034	.75236	.10170	-.10215	.00803	.00027	-.00251	.63797	.41160	1.54999
10.300	1.001	25.13296	.75204	.10222	-.10213	.00823	-.00136	-.00948	.63743	.41195	1.54735
10.300	GRADIENT	-.00278	.00090	.00027	-.00027	.00823	-.00111	-.00634	.00072	.00060	-.00050

(RFD038) (15 AUG 75)

LA-11, CFT 96, ROCKWELL CRB. 0698 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 20.000 ELEVTR = 10.000
AILRON = .000 BOFLAP = -14.250

REFERENCE DATA

MACH 10.300
REF = 21.7666 98.1N. XREF = 6.2902 INCHES
REF = 3.9411 INCHES YREF = .0000 INCHES
REF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 62/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CL	CYN	CY	CL	CD	L/D
10.300	-9.083	20.05617	.51635	.09380	-.07225	.00824	.01166	.07027	.45236	.26653	1.69732
10.300	-6.089	20.06387	.51828	.09359	-.07462	.00835	.01137	.05962	.45472	.26371	1.71129
10.300	-7.056	20.06510	.52248	.09244	-.07657	.00847	.01050	.04879	.45905	.26809	1.72517
10.300	-6.044	20.05608	.52383	.09244	-.07752	.00844	.00901	.04127	.46168	.26696	1.72941
10.300	-5.041	20.05953	.52593	.09212	-.07832	.00824	.00755	.03581	.46243	.26692	1.73246
10.300	-4.033	20.04993	.52784	.09206	-.08013	.00803	.00597	.02655	.46428	.26747	1.73586
10.300	-3.029	20.05606	.53061	.09214	-.08148	.00824	.00461	.01871	.46683	.26854	1.73836
10.300	-2.010	20.04923	.53296	.09157	-.08159	.00803	.00326	.01118	.46927	.26874	1.74620
10.300	-1.013	20.05277	.53297	.09273	-.08176	.00824	.00183	.00407	.46903	.26940	1.74100
10.300	-.002	20.05716	.53242	.09225	-.08122	.00803	.00005	-.00240	.46849	.26925	1.73999
10.300	1.007	20.05407	.53316	.09246	-.08112	.00824	-.00349	-.00966	.46913	.26968	1.73961
10.300	GRADIENT	.00054	.00091	.00008	-.00012	.00824	-.00149	-.00713	.00082	.00039	-.00053

TABLATED SOURCE DATA - CFT96 (LA-11)

DATE 10 SEP 73

(RP0039) (15 AUG 73)

LA-11,CFT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = 10.000
A1LRON = .000 BDFLAP = -14.250

REFERENCE DATA

BREF = 71.7886 88.1IN. XMRP = 6.2902 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0231 INCHES ZMRP = .0000 INCHES
SCALE = .0073

RUN NO. 81/ 0 RVUL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

NACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/C
10.300	-8.050	14.99259	.32596	.03032	-.05533	.00604	.00795	.07967	.29190	.17156	1.69906
10.300	-8.050	14.99057	.32759	.06937	-.05697	.00671	.00736	.06807	.29314	.17101	1.71416
10.300	-7.034	15.00565	.32828	.06766	-.05964	.00591	.00672	.05703	.29439	.16968	1.73492
10.300	-6.022	15.00721	.32840	.06451	-.05948	.00436	.00643	.04575	.29531	.16666	1.77194
10.300	-5.020	15.02035	.32960	.06385	-.06132	.00326	.00531	.03736	.29680	.16646	1.78503
10.300	-4.008	15.02343	.33471	.06378	-.06285	.00217	.00429	.02881	.30155	.16767	1.79844
10.300	-3.006	15.02561	.33607	.06305	-.06392	.00107	.00334	.02065	.30305	.16734	1.81104
10.300	-2.006	15.03650	.33769	.06219	-.06401	.00014	.00239	.01256	.30481	.16699	1.82535
10.300	-1.007	15.03526	.33747	.06093	-.06339	-.00084	.00113	.00460	.30492	.16570	1.84016
10.300	-.014	15.03688	.33801	.06105	-.06341	-.00177	-.00219	-.00221	.30541	.16597	1.84018
10.300	1.724	15.04004	.33833	.06122	-.06331	-.00260	-.00161	-.00953	.30566	.16624	1.83872
GRADT JNT		.00325	.00068	-.00057	-.00000	-.00095	-.00118	-.00765	.00079	-.00036	.00866

LA-11,CFT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RP0040) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = 10.000
A1LRON = .000 BDFLAP = -14.250

REFERENCE DATA

BREF = 21.7886 88.1IN. XMRP = 6.2902 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0231 INCHES ZMRP = .0000 INCHES
SCALE = .0073

RUN NO. 80/ 0 RVUL = 1.00 GRADIENT INTER' L = -5.00/ 5.00

NACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/C
10.300	-8.056	9.87145	.15996	.06123	-.05621	.00928	.00458	.06175	.14268	.10727	1.33005
10.300	-7.882	9.89657	.15973	.07960	-.04014	.00766	.00469	.06934	.14269	.10569	1.34999
10.300	-6.959	9.91355	.16076	.07741	-.04118	.00648	.00461	.05947	.14503	.10393	1.39543
10.300	-5.946	9.93525	.16297	.07642	-.04247	.00568	.00433	.04796	.14734	.10339	1.42513
10.300	-4.962	9.94432	.16373	.07539	-.04366	.00404	.00399	.03681	.14825	.10253	1.44591
10.300	-3.957	9.96043	.16595	.07644	-.04504	.00336	.00229	.03204	.15382	.10666	1.44222
10.300	-2.971	9.98912	.17267	.07781	-.04642	.00224	.00182	.02254	.15659	.10653	1.46994
10.300	-1.976	9.98011	.17242	.07696	-.04668	.00173	.00136	.01410	.15649	.10558	1.48221
10.300	-.942	9.97866	.17463	.07781	-.04744	-.00003	.00053	.00576	.15854	.10670	1.48585
10.300	.005	9.98200	.17561	.07873	-.04796	-.00080	-.00065	-.00268	.15930	.10797	1.47538
10.300	.992	9.98491	.17496	.07863	-.04787	-.00171	-.00162	-.01074	.15870	.10778	1.47244
GRADIENT		.00827	.00170	.00036	-.00068	-.00100	-.00086	-.00846	.00160	-.00067	.00583



DATE 10 SEP 73

TABULATED SOURCE DATA - CPHT96 (LA-11)

LA-11, CPHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RFP0041) (15 AUG 73)

REFERENCE DATA

MACH = 10.300
 SREF = 21.7866 SQ. IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0073

BETA = .000 ELEVTR = -10.000
 AILRON = 10.000 BOFLAP = -14.250

PARAMETRIC DATA

RUN NO. 25/ 0 RVVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	LM	CEL	CYN	CY	CL	CD	L/D
10.300	10.078	-.00590	.14833	.07053	-.02368	.00256	-.00142	-.00141	.13370	.09340	1.40148
10.300	15.086	-.00205	.28916	.06933	-.02282	.00370	-.00158	-.00203	.26115	.14220	1.83648
10.300	20.103	.00365	.46208	.07383	-.02502	.00516	-.00196	-.00174	.40855	.22816	1.79064
10.300	25.263	.00550	.66331	.07861	-.03239	.00705	-.00232	-.00256	.56804	.35521	1.55916
10.300	30.170	.01106	.87663	.07839	-.04191	.00861	-.00265	-.00331	.71849	.50833	1.41343
10.300	35.301	.01760	1.12301	.08287	-.06037	.00981	-.00287	-.00554	.86963	.71659	1.21217
GRADIENT		.00087	.03875	.00353	-.00140	.00090	-.00006	-.00015	.02949	.02454	-.01367

LA-11, CPHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RFP0042) (15 AUG 73)

REFERENCE DATA

MACH = 10.300
 SREF = 21.7866 SQ. IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0073

BETA = -5.000 ELEVTR = -10.000
 AILRON = 10.000 BOFLAP = -14.250

PARAMETRIC DATA

RUN NO. 25/ 0 RVVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	LM	CEL	CYN	CY	CL	CD	L/D
10.300	9.868	-4.93605	.14961	.07168	-.02064	.00716	.00080	.03621	.13494	.09649	1.35348
10.300	15.179	-4.99304	.30253	.07368	-.02312	.00840	.00459	.03624	.27268	.19032	1.81402
10.300	20.149	-5.01006	.47656	.07571	-.02511	.01048	.00618	.03264	.42132	.23523	1.79108
10.300	25.102	-4.98363	.66786	.07859	-.03070	.01345	.00624	.03282	.57145	.35449	1.61203
10.300	30.319	-4.91086	.89711	.08138	-.04120	.01614	.00587	.03042	.73333	.52311	1.40186
10.300	35.332	-4.80319	1.13652	.08394	-.06072	.01779	.00541	.03158	.87827	.72619	1.20942
GRADIENT		.00329	.03696	.00249	-.00147	.00045	.00007	-.00024	.02959	.02474	-.01328

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/MCO. NOSE

(RPDD43) (15 AUG 73)

REFERENCE DATA

BREF = 21.7866 98. IN. XWRP = 6.2902 INCHES
LREF = 3.9411 INCHES YWRP = .0000 INCHES
BREF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -10.000
A1URON = 10.000 BDFLAP = -14.250

RUN NO. 31/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WAOH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-8.930	2.82066	.13065	.07421	-.01628	.01123	.00406	.00064	.11608	.09710	1.21673
10.300	-7.908	9.84146	.13437	.07529	-.01979	.00992	.00429	.06750	.11987	.09518	1.25942
10.300	-6.881	9.86756	.13502	.07077	-.02078	.00870	.00417	.05778	.12090	.09286	1.30165
10.300	-5.862	9.86817	.13478	.06905	-.02121	.00765	.00368	.04720	.12092	.09117	1.32835
10.300	-4.849	9.89847	.13443	.06851	-.02158	.00654	.00346	.03823	.12065	.09060	1.33177
10.300	-3.947	9.90926	.13932	.06629	-.02169	.00578	.00265	.02977	.12549	.09124	1.37534
10.300	-2.957	9.92258	.14102	.06990	-.02258	.00523	.00119	.02301	.12687	.09315	1.35197
10.300	-1.997	9.92977	.13957	.06704	-.02227	.00420	.00799	.01447	.12592	.09011	1.39743
10.300	-1.000	9.92940	.14281	.06936	-.02281	.00334	-.00010	.00633	.12871	.09295	1.38473
10.300	-.022	9.93040	.14429	.07091	-.02269	.00269	-.00125	-.00136	.12890	.09475	1.37121
10.300	1.006	9.92703	.14276	.07030	-.02332	.00186	-.00224	-.00912	.12851	.09386	1.36914
10.300	GRADIENT	.00466	.00132	.00037	-.00226	-.00060	-.00094	-.00796	.00123	.00060	.00453

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/MCO. NOSE

(RPDD44) (15 AUG 73)

REFERENCE DATA

BREF = 21.7736 98. IN. XWRP = 6.2902 INCHES
LREF = 3.9411 INCHES YWRP = .0000 INCHES
BREF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -10.000
A1URON = 10.000 BDFLAP = -14.250

RUN NO. 30/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WAOH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-9.048	14.97871	.28000	.07963	-.02028	.01261	.00651	.07895	.25197	.14958	1.68449
10.300	-8.015	14.93130	.27986	.07745	-.02137	.01133	.00591	.06776	.25026	.14689	1.70369
10.300	-7.032	14.94156	.28156	.07511	-.02233	.01036	.00536	.05725	.25267	.14517	1.74056
10.300	-6.016	14.94642	.27706	.07026	-.02178	.00913	.00648	.04203	.24936	.13935	1.79102
10.370	-5.048	14.96255	.28289	.07228	-.02250	.00844	.00433	.03680	.25445	.14282	1.78164
10.300	-3.965	14.95678	.28452	.07182	-.02393	.00732	.00311	.02692	.25635	.14282	1.79494
10.300	-2.903	14.96957	.28325	.07054	-.02420	.00639	.00222	.02070	.25542	.14130	1.80762
10.300	-2.028	14.96968	.28105	.06616	-.02328	.00572	.00169	.01121	.25443	.13652	1.86372
10.300	-1.009	14.97330	.28651	.06993	-.02319	.00453	.00007	.00518	.25898	.14062	1.84167
10.300	-.028	14.98724	.28575	.06796	-.02284	.00365	-.00038	-.00091	.25844	.13954	1.85202
10.300	1.006	14.97546	.28425	.06643	-.02275	.00267	-.00291	-.00816	.25691	.13956	1.84086
10.300	GRADIENT	.00433	.00033	-.00062	.00029	-.00093	-.00122	-.00731	.00047	-.00049	.00961

LABULATED SOURCE DATA - CPY196 (LA-11)

LA-11, CPMT 96, ROCKWELL CRB. 0988 W/MOD. NOSE

DATE 10 SEP 73

(RP00045) (15 AUG 73)

PARAMETRIC DATA

ALPHA = 20.000 ELEVTR = -10.000
ATLUNN = 10.000 BOFLAP = -14.250

REFERENCE DATA

BETA = 21.7866 96. IN. 100P = 6.2902 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0231 INCHES ZMRP = .0000 INCHES
SCALE = .0075

RUN NO. 29 / 0 RML = 1.00 GRADIENT INTERVAL = -5.00 / 5.00

MACH	BETA	ALPHA	CA	CLN	COL	CYN	CY	CL	CD	L/D
10.300	-9.082	20.09626	.44249	-.02804	.01629	.01014	.00650	.38898	.22469	1.73128
10.300	-8.036	20.08345	.44107	-.02335	.01431	.01026	.05456	.38849	.22191	1.75062
10.300	-7.041	20.07982	.44445	-.02435	.01277	.00927	.04579	.39212	.22184	1.76756
10.300	-6.035	20.08345	.44820	-.02462	.01149	.00764	.03965	.39585	.22235	1.77874
10.300	-5.064	20.08691	.45351	-.02701	.01051	.00591	.03390	.40069	.22477	1.78267
10.300	-4.046	20.08333	.45453	-.02600	.00936	.00408	.02755	.40180	.22327	1.78273
10.300	-3.011	20.07837	.45562	-.02623	.00821	.00270	.01911	.40275	.22351	1.78757
10.300	-1.979	20.07347	.45850	-.02607	.00716	.00137	.01189	.40540	.22647	1.79009
10.300	-1.026	20.07793	.45748	-.02555	.00612	-.00007	.00575	.40452	.22587	1.79297
10.300	-0.013	20.07336	.45962	-.02383	.00520	-.00171	-.00127	.40666	.22626	1.79750
10.300	.996	20.07846	.45565	-.02477	.00407	-.00331	-.00766	.40324	.22406	1.79969
GRADIENT		-.00101	.00048	.00027	-.00104	-.00147	-.00692	.00055	-.00011	.00327

(RP00046) (15 AUG 73)

LA-11, CPMT 96, ROCKWELL CRB. 0988 W/MOD. NOSE

REFERENCE DATA

BETA = 21.7866 96. IN. 100P = 6.2902 INCHES
LREF = 3.5611 INCHES YMRP = .0000 INCHES
BREF = 7.0231 INCHES ZMRP = .0000 INCHES
SCALE = .0075

RUN NO. 29 / 3 RML = 1.00 GRADIENT INTERVAL = -5.00 / 5.00

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = -10.000
ATLUNN = 10.000 BOFLAP = -14.250

MACH	BETA	ALPHA	CA	CLN	COL	CYN	CY	CL	CD	L/D
10.300	-9.009	25.17276	.63263	-.02655	.01970	.01071	.09644	.53828	.34200	1.57591
10.300	-8.021	25.19180	.63036	-.02910	.01734	.00995	.05674	.54225	.34244	1.58351
10.300	-6.980	25.13469	.63756	-.02991	.01575	.00903	.04703	.54360	.34120	1.59319
10.300	-6.027	25.12304	.67958	-.03001	.01459	.00762	.03936	.54555	.34067	1.60142
10.300	-5.063	25.11188	.63651	-.03029	.01325	.00631	.03207	.54400	.33915	1.60403
10.300	-3.994	25.10276	.67919	-.03075	.01191	.00473	.02398	.54653	.34008	1.60708
10.300	-3.006	25.09253	.63977	-.03077	.01075	.00313	.01718	.54761	.33920	1.61442
10.300	-1.956	25.08676	.64155	-.03175	.00903	.00121	.01135	.54918	.34003	1.61496
10.300	-0.013	25.08423	.64399	-.03237	.00793	-.00335	.00474	.55217	.34405	1.60192
10.300	.004	25.08205	.64143	-.03217	.00685	-.00216	-.00177	.54833	.34157	1.60333
10.300	1.014	25.08243	.64435	-.03235	.00577	-.00372	-.00913	.55063	.34310	1.60347
GRADIENT		-.00219	.00100	-.00037	-.00124	-.00170	-.00634	.00076	-.00074	-.00128

TABULATED SOURCE DATA - CMT98 (LA-11)

LA-11, CPMT 96, ROCKWELL CRB. 0088 W/M/T. NOSE

08P0047 (15 AUG 73)

PARAMETRIC DATA

ALPHA = 30.000 ELEVTR = -10.000
AIIURON = 10.000 SCFLAP = -14.250

REFERENCE DATA

REF = 21.7886 86.1N. 19.2P = 6.2902 INCHES
LREF = 3.5611 INCHES 19.2P = .0000 INCHES
SREF = 7.0251 INCHES 20.2P = .0000 INCHES
SCALE = .0075

RUN NO. 27/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CO	L/D
10.300	-6.728	30.37282	.68143	.06360	-.04083	.01125	.06563	.71819	.71819	.51760	1.38700
10.300	-7.915	30.34544	.68141	.06251	-.04087	.06076	.05666	.71907	.71907	.51633	1.39264
10.300	-6.936	30.31421	.68123	.06165	-.04066	.05994	.04651	.71953	.71953	.51528	1.39636
10.300	-5.916	30.29266	.68123	.06081	-.04056	.05760	.03975	.72022	.72022	.51415	1.40060
10.300	-4.936	30.27183	.68218	.05961	-.04056	.05597	.03156	.72165	.72165	.51364	1.40496
10.300	-3.973	30.25112	.68481	.05835	-.04117	.05439	.02483	.72375	.72375	.51530	1.40453
10.300	-2.937	30.23277	.68680	.05711	-.04210	.05296	.01790	.72605	.72605	.51556	1.40626
10.300	-1.974	30.21709	.68909	.05596	-.04295	.05160	.01186	.72863	.72863	.51612	1.41175
10.300	-.869	30.20283	.69079	.05488	-.04259	.05041	-.00096	.72659	.72659	.51559	1.41312
10.300	.008	30.18975	.69260	.05388	-.04237	.04914	-.00860	.72878	.72878	.51548	1.41378
10.300	1.008	30.17793	.69445	.05292	-.04301	.04715	-.00841	.73121	.73121	.51777	1.41222
GRADIENT			.00130	-.00024	-.00150	-.00175	-.00703	.00149	.00149	.00046	-.00162

LA-11, CPMT 96, ROCKWELL CRB. 0088 W/M/T. NOSE

08P0048 (15 AUG 73)

PARAMETRIC DATA

ALPHA = 35.000 ELEVTR = -10.000
AIIURON = 10.000 SCFLAP = -14.250

REFERENCE DATA

REF = 21.7886 86.1N. 19.2P = 6.2902 INCHES
LREF = 3.5611 INCHES 19.2P = .0000 INCHES
SREF = 7.0251 INCHES 20.2P = .0000 INCHES
SCALE = .0075

RUN NO. 28/ 0 RVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CO	L/D
10.300	-6.728	35.41840	1.18098	.06487	-.08068	.07607	.01133	.06459	.86414	.71843	1.20262
10.300	-7.717	35.37655	1.12541	.06406	-.08064	.07255	.01033	.05628	.86895	.72009	1.20673
10.300	-6.774	35.34167	1.12746	.06365	-.08019	.07096	.00894	.04846	.87132	.72043	1.20945
10.300	-5.813	35.31175	1.13294	.06362	-.07969	.06948	.00724	.04060	.87559	.72270	1.21155
10.300	-4.830	35.28484	1.13416	.06394	-.07979	.06797	.00554	.03311	.87731	.72366	1.21233
10.300	-3.882	35.25765	1.13471	.06311	-.07969	.06654	.00363	.02564	.87859	.72288	1.21340
10.300	-2.907	35.24566	1.13682	.06319	-.07990	.06506	.00194	.01832	.88025	.72387	1.21603
10.300	-1.925	35.22815	1.13582	.06270	-.08039	.06333	.00041	.01052	.88026	.72270	1.21802
10.300	-.194	35.22687	1.13663	.06264	-.08049	.06166	-.00109	.00275	.88041	.72314	1.21805
10.300	.027	35.21346	1.13644	.06261	-.08076	.05997	-.00296	-.00466	.88248	.72395	1.21897
10.300	.961	35.20004	1.13634	.06260	-.08084	.05850	-.00442	-.01175	.88249	.72409	1.21875
GRADIENT			-.00076	-.00020	-.00166	-.00169	-.00776	.00038	.00038	.00010	-.00105

REFERENCE DATA

SREF = 21.7666 SQ. IN. XMRP = 6.2502 INCHES
 LREF = 3.9611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

RUN NO. 41/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	10.114	-.00121	.14236	.06634	-.02194	-.00120	-.00094	-.00260	.12816	.09228	1.36869
10.300	15.096	-.00114	.27674	.06623	-.01966	-.00254	-.00076	-.00390	.24994	.13601	1.63763
10.300	20.185	-.00257	.44130	.07302	-.02145	-.00433	-.00071	-.00361	.38900	.22081	1.76169
10.300	25.195	-.00642	.62971	.07816	-.02665	-.00649	-.00042	-.00516	.53739	.33696	1.59482
10.300	30.227	-.01325	.83636	.07382	-.03510	-.00938	.00003	-.00690	.66449	.48655	1.40581
10.300	35.405	-.02197	1.07264	.07959	-.04993	-.01217	.00057	-.00870	.82618	.68630	1.20674
GRADIENT		-.00062	.03667	.00050	-.00106	-.00044	.00006	-.00023	.02800	.02342	-.01347

LA-11, CPHT 96, ROCKWELL CRB. 0698 W/MOD. NOSE

REFERENCE DATA

SREF = 21.7666 SQ. IN. XMRP = 6.2502 INCHES
 LREF = 3.9611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

RUN NO. 42/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	9.844	-4.87966	.14397	.06962	-.01724	.00310	.00363	.03502	.12995	.09321	1.39414
10.300	14.971	-4.93961	.26708	.07167	-.01909	.00166	.00900	.03454	.25882	.14340	1.60490
10.300	20.114	-4.99999	.45872	.07545	-.02045	.00046	.00630	.03267	.40460	.22860	1.77074
10.300	25.362	-4.94220	.63334	.07597	-.02473	-.00079	.00787	.02757	.55771	.34869	1.59545
10.300	30.360	-4.88505	.86196	.07858	-.03297	-.00254	.00834	.02700	.70386	.50371	1.39734
10.300	35.471	-4.79226	1.09134	.08082	-.04629	-.00463	.00858	.02754	.84190	.68912	1.20423
GRADIENT		.00343	.03704	.00043	-.00112	-.00029	.00020	-.00036	.02810	.02353	-.01300

CP

TABLATED SOURCE DATA - CPHT96 (LA-11)

(RFD051) (15 AUG 75)

LA-11, CPHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -10.000
ATLRON = -10.000 BOFLAP = -14.250

REFERENCE DATA

SREF = 21.7886 SQ. IN. XRRP = 6.2902 INCHES
LREF = 5.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 48/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-8.937	9.86268	.12807	.07485	-.01489	.00747	.00482	.08077	.11355	.09566	1.18466
10.300	-7.928	9.88370	.12826	.07301	-.01630	.00819	.00482	.06805	.11383	.09394	1.21171
10.300	-6.935	9.93257	.13002	.07140	-.01770	.00903	.00471	.05781	.11581	.09270	1.24933
10.300	-5.955	9.92066	.13129	.07040	-.01856	.00993	.00433	.04738	.11720	.09197	1.27433
10.300	-4.968	9.93761	.13256	.06903	-.01915	.00290	.00409	.03798	.11865	.09087	1.30571
10.300	-3.966	9.94694	.13787	.07074	-.01940	.00252	.00164	.03165	.12358	.09350	1.32175
10.300	-2.969	9.95703	.13955	.07306	-.02059	.00159	.00164	.02279	.12534	.09314	1.34572
10.300	-1.984	9.97201	.13810	.06753	-.02051	.00070	.00151	.01274	.12432	.09043	1.37478
10.300	-.993	9.97124	.14085	.06981	-.02146	-.00030	.00130	.00524	.12663	.09314	1.35961
10.300	.002	9.96816	.14227	.07079	-.02210	-.00106	-.00288	-.00213	.12786	.09435	1.35522
10.300	.993	9.96930	.14260	.07123	-.02205	-.00189	-.00196	-.01068	.12812	.09485	1.35079
10.300	GRADIENT	.00548	.00145	.00023	-.00054	-.00084	-.00092	-.00831	.00138	.00049	.00778

LA-11, CPHT 96, ROCKWELL CRB. 0898 W/MOD. NOSE

(RFD052) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -10.000
ATLRON = -10.000 BOFLAP = -14.250

REFERENCE DATA

SREF = 21.7886 SQ. IN. XRRP = 6.2902 INCHES
LREF = 5.5611 INCHES YRRP = .0000 INCHES
BREF = 7.0251 INCHES ZRRP = .0000 INCHES
SCALE = .0075

RUN NO. 47/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10.300	-9.045	14.99040	.27308	.07609	-.01572	.00673	.00813	.07628	.24410	.14414	1.69356
10.300	-8.056	15.00599	.27435	.07413	-.01707	.00532	.00792	.06473	.24590	.14264	1.72328
10.300	-7.015	15.00935	.27524	.07137	-.01828	.00395	.00821	.05106	.24737	.14022	1.76418
10.300	-6.022	15.01063	.27731	.07073	-.01842	.00286	.00738	.04213	.24953	.14014	1.78059
10.300	-5.025	15.02559	.27927	.07284	-.01900	.00203	.00484	.03760	.25084	.14275	1.75725
10.300	-4.008	15.03532	.28167	.07214	-.02046	.00105	.00381	.02900	.25351	.14279	1.77542
10.300	-3.018	15.03940	.28163	.07130	-.02093	.00014	.00290	.02042	.25348	.14194	1.78584
10.300	-1.997	15.03829	.28186	.06849	-.02086	-.00076	.00224	.01141	.25443	.13928	1.82676
10.300	-1.012	15.04510	.28235	.06866	-.02082	-.00156	.00077	.00455	.25499	.13984	1.82341
10.300	.003	15.03946	.28327	.06910	-.02030	-.00244	-.00068	-.00259	.25757	.14076	1.82986
10.300	1.009	15.03691	.28440	.06949	-.02073	-.00332	-.00210	-.00957	.25662	.14090	1.82125
10.300	GRADIENT	.00070	.00069	-.00055	.00002	-.00086	-.00119	-.00765	.00081	-.00035	.01019

DATE 10 SEP 75

TABULATED SOURCE DATA - CFMT96 (LA-11)

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(RPO053) (15 AUG 75)

LA-11, CFMT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

SREF = 21.7866 SQ. IN. XRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 BREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

RUN NO. 46/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-9.076	20.10234	.49906	.07740	-.01571	.00671	.01064	.06601	.36571	.22359	1.72511
10.300	-8.080	20.09450	.44100	.07495	-.01781	.00482	.01064	.05733	.38841	.22190	1.73036
10.300	-7.055	20.08455	.44662	.07472	-.01902	.00310	.00996	.04790	.39395	.22368	1.76121
10.300	-6.044	20.06965	.44952	.07472	-.01978	.00180	.00845	.04105	.39650	.22458	1.76551
10.300	-5.059	20.09257	.45337	.07602	-.02053	.00081	.00632	.03967	.39967	.22713	1.75969
10.300	-4.090	20.10212	.45500	.07578	-.02132	-.00045	.00516	.02704	.40124	.22754	1.76336
10.300	-3.086	20.10345	.45814	.07531	-.02186	-.00154	.00391	.01928	.40434	.22819	1.77191
10.300	-2.021	20.10466	.45799	.07488	-.02177	-.00264	.00263	.01169	.40434	.22774	1.77544
10.300	-1.012	20.09799	.45981	.07477	-.02171	-.00364	.00113	.00428	.40811	.22822	1.77946
10.300	.009	20.09562	.45978	.07485	-.02171	-.00454	-.00062	-.00327	.40607	.22827	1.77694
10.300	1.006	20.09699	.45936	.07494	-.02214	-.00538	-.00213	-.00936	.40564	.22822	1.77743
GRADIENT			.00081	-.00016	-.00010	-.00098	-.00146	-.00728	.00082	.00012	-.00270

ALPHA = 20.000 ELEVTR = -10.000
 AILTRON = -10.000 BOFLAP = -14.250

PARAMETRIC DATA

REFERENCE DATA

SREF = 21.7866 SQ. IN. XRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 BREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

RUN NO. 45/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-9.031	25.10389	.63596	.08042	-.02136	.00569	.01267	.06726	.54119	.34359	1.57513
10.300	-8.018	25.10100	.64003	.07969	-.02226	.00596	.01164	.05723	.54573	.34353	1.56859
10.300	-7.017	25.10912	.64332	.07796	-.02297	.00253	.01068	.04760	.54909	.34415	1.59549
10.300	-6.027	25.15417	.64268	.07650	-.02372	.00104	.00931	.03690	.54921	.34242	1.60391
10.300	-5.050	25.15135	.64444	.07623	-.02424	-.00031	.00791	.03113	.55094	.34290	1.60672
10.300	-4.009	25.14003	.64573	.07572	-.02482	-.00165	.00650	.02330	.55239	.34287	1.61106
10.300	-3.012	25.13265	.64909	.07716	-.02611	-.00311	.00469	.01743	.55487	.34553	1.60584
10.300	-2.012	25.12625	.64973	.07811	-.02690	-.00436	.00306	.01040	.55508	.34660	1.60149
10.300	-1.012	25.14091	.65099	.07737	-.02715	-.00545	.00141	.00337	.55637	.34679	1.60433
10.300	-.013	25.12482	.65217	.07778	-.02713	-.00646	-.00033	-.00323	.55744	.34732	1.60497
10.300	.998	25.12756	.65293	.07811	-.02737	-.00760	-.00195	-.01056	.55797	.34797	1.60348
GRADIENT			.00133	.00038	-.00046	-.00117	-.00168	-.00680	.00105	.00089	-.00108

LA-11, CFMT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

(RPO054) (15 AUG 75)

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = -10.000
 AILTRON = -10.000 BOFLAP = -14.250

LA-11,CFHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

MACH = 21.7866 98.1N. XGRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YGRP = .0000 INCHES
 BREF = 7.0251 INCHES ZGRP = .0000 INCHES
 SCALE = .0075

ALPHA = 30.000 ELEVTR = -10.000
 ATLRON = -10.000 BDFLAP = -14.250

RUN NO. 44/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-6.925	30.45577	.85319	.08181	-.03226	.00413	.01412	.06474	.69400	.50298	1.37978
10.300	-7.937	30.42444	.85767	.08147	-.03308	.00241	.01278	.05664	.69831	.50458	1.36397
10.300	-6.952	30.39637	.85928	.08060	-.03309	.00109	.01109	.05433	.70037	.50433	1.36872
10.300	-5.982	30.38428	.86088	.07976	-.03288	-.00057	.00968	.03981	.70230	.50424	1.39280
10.300	-4.963	30.36943	.86187	.07875	-.03316	-.00215	.00834	.03138	.70381	.50367	1.39736
10.300	-3.969	30.35196	.86346	.07891	-.03351	-.00349	.00686	.02340	.70524	.50440	1.39816
10.300	-2.969	30.33402	.86562	.07896	-.03429	-.00498	.00523	.01619	.70723	.50532	1.39957
10.300	-1.995	30.35649	.86851	.07812	-.03504	-.00639	.00344	.00966	.71013	.50609	1.40318
10.300	-1.007	30.32707	.86990	.07781	-.03550	-.00791	.00173	.00264	.71071	.50590	1.40483
10.300	-.015	30.32644	.87122	.07742	-.03591	-.00962	.00019	-.00421	.71291	.50673	1.40688
10.300	-.977	30.33375	.87149	.07802	-.03628	-.01089	-.00137	-.01197	.71278	.50747	1.40456
GRADIENT			.00172	-.00723	-.00055	-.00149	-.00166	-.00718	.00165	.00060	.00160

LA-11,CFHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

MACH = 21.7866 98.1N. XGRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YGRP = .0000 INCHES
 BREF = 7.0251 INCHES ZGRP = .0000 INCHES
 SCALE = .0075

ALPHA = 35.000 ELEVTR = -10.000
 ATLRON = -10.000 BDFLAP = -14.250

RUN NO. 43/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-6.755	35.35501	1.06417	.08226	-.04662	.00200	.01484	.06271	.82031	.68286	1.20129
10.300	-7.769	35.31706	1.07115	.08201	-.04717	.00042	.01340	.05491	.82661	.68615	1.20472
10.300	-6.831	35.27950	1.07800	.08127	-.04731	-.00124	.01188	.04719	.83144	.68781	1.20883
10.300	-5.848	35.23031	1.08027	.08191	-.04728	-.00282	.01024	.03917	.83492	.69037	1.20938
10.300	-4.881	35.23569	1.08252	.08114	-.04759	-.00426	.00858	.03168	.83738	.69082	1.21214
10.300	-3.894	35.21022	1.08303	.08178	-.04731	-.00586	.00685	.02356	.83814	.69070	1.21346
10.300	-2.931	35.18936	1.08374	.08122	-.04783	-.00736	.00538	.01584	.83888	.69092	1.21415
10.300	-1.961	35.18323	1.08450	.08073	-.04820	-.00892	.00394	.00799	.84076	.69149	1.21587
10.300	-.998	35.17722	1.08712	.08058	-.04855	-.01077	.00231	.00044	.84216	.69216	1.21671
10.300	-.023	35.17508	1.08719	.08024	-.04979	-.01216	.00059	-.00682	.84244	.69190	1.21758
10.300	-.951	35.18158	1.08719	.08082	-.05041	-.01362	-.00110	-.01406	.84203	.69246	1.21599
GRADIENT			.00095	-.00012	-.00054	-.00162	-.00164	-.00785	.00095	.00031	.00082

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TABLATED SOURCE DATA - CPHT96 (LA-11)

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LA-11, CPHT 96, ROCKWELL CRB. 0898 W/MCD. NOSE

(RP0057) (15 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVTR = -30.000
AILRON = -10.000 BDFLAP = -14.250

REFERENCE DATA

MACH = 21.7886 98.IN. XPRP = 6.2902 INCHES
LREF = 3.5611 INCHES YPRP = .0000 INCHES
BREF = 7.0251 INCHES ZPRP = .0000 INCHES
SCALE = .0075

RUN NO. 54/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10.300	9.931	-.00111	.13435	.07214	-.01651	-.00059	-.00171	-.00139	.12039	.09432	1.27642
10.300	15.013	-.00151	.27567	.06915	-.01269	-.00080	-.00142	-.00292	.24835	.13820	1.79708
10.300	20.146	-.00175	.44059	.07374	-.00829	-.00156	-.00147	-.00300	.38823	.22099	1.75678
10.300	25.069	-.00226	.62795	.07865	-.00810	-.00255	-.00162	-.00377	.53530	.33758	1.58571
10.300	30.182	-.00362	.83680	.07766	-.01007	-.00390	-.00172	-.00562	.68431	.46783	1.40276
10.300	35.356	-.00696	1.07461	.08129	-.01851	-.00659	-.00155	-.00769	.82937	.66813	1.20325
GRADIENT		-.00026	.03700	.00043	-.00001	-.00022	-.00000	-.00023	.02815	.02329	-.00962

LA-11, CPHT 96, ROCKWELL CRB. 0898 W/MCD. NOSE

(RP0058) (15 AUG 73)

PARAMETRIC DATA

BETA = -5.000 ELEVTR = -30.000
AILRON = -10.000 BDFLAP = -14.250

REFERENCE DATA

MACH = 21.7886 98.IN. XPRP = 6.2902 INCHES
LREF = 3.5611 INCHES YPRP = .0000 INCHES
BREF = 7.0251 INCHES ZPRP = .0000 INCHES
SCALE = .0075

RUN NO. 55/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10.300	10.037	-4.80322	.13965	.07359	-.01257	.00336	.00344	.00683	.12469	.09680	1.26607
10.300	15.036	-4.89100	.29455	.07404	-.01086	.00331	.00474	.00536	.25560	.14532	1.75896
10.300	20.069	-5.01133	.45322	.07602	-.00726	.00328	.00630	.00303	.39961	.22693	1.76099
10.300	25.132	-4.99084	.64353	.07839	-.00516	.00340	.00681	.00308	.54931	.34428	1.59554
10.300	30.318	-4.98791	.89972	.08044	-.00732	.00290	.00673	.02942	.70154	.50342	1.39355
10.300	35.431	-4.83088	1.08233	.08179	-.01765	.00115	.00656	.00071	.84263	.69989	1.20395
GRADIENT		.00411	.03757	.00035	-.00007	-.00007	.00012	-.00029	.02855	.02368	-.00959

LA-11,CFT 96, ROCKWELL CRB, 0698 W/MCD, NOSE

REFERENCE DATA

REF = 21.7866 98.IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

RUN NO. 61/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -30.000
 AILRON = -10.000 BOFLAP = -14.250

MACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-6.919	9.66020	.11530	.07514	-.00940	.00704	.00331	.06078	.10073	.09378	1.07413
10.300	-7.933	9.86836	.11460	.07300	-.01069	.00592	.00352	.06946	.10339	.09156	1.09650
10.300	-6.932	9.90055	.11677	.07151	-.01205	.00479	.00351	.05817	.10274	.09052	1.13489
10.300	-5.949	9.91339	.11782	.06994	-.01315	.00387	.00331	.04799	.10382	.08914	1.16468
10.300	-4.964	9.93794	.11993	.06914	-.01401	.00297	.00303	.03885	.10620	.08860	1.19569
10.300	-3.960	9.94832	.12569	.07120	-.01456	.00253	.00117	.03284	.11150	.09164	1.21402
10.300	-2.969	9.95878	.12855	.07060	-.01522	.00190	.00074	.02987	.11440	.09177	1.24666
10.300	-1.975	9.96128	.12658	.06723	-.01501	.00106	.00060	.01361	.11304	.08811	1.28674
10.300	-.966	9.96503	.12995	.06864	-.01543	.00022	-.00036	.00594	.11611	.09010	1.26674
10.300	.005	9.96644	.13146	.07049	-.01647	-.00043	-.00159	-.00143	.11727	.09218	1.27220
10.300	.995	9.97042	.13103	.07027	-.01598	-.00104	-.00243	-.00932	.11688	.09189	1.27198
10.300	GRADIENT	.00504	.00167	.00000	-.00036	-.00071	-.00063	-.00830	.00163	.00030	.01393

REFERENCE DATA

REF = 21.7866 98.IN. XMRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YMRP = .0000 INCHES
 BREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

RUN NO. 60/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -30.000
 AILRON = -10.000 BOFLAP = -14.250

MACH	BETA	ALPHA	ON	CA	CLM	CEL	CYN	CY	CL	CD	L/D
10.300	-9.085	14.91680	.25770	.07825	-.00853	.00737	.00600	.07699	.22688	.14195	1.61240
10.300	-8.017	14.96837	.25970	.07572	-.01011	.00641	.00555	.06604	.23047	.13980	1.64850
10.300	-7.012	14.93535	.26080	.07446	-.01091	.00530	.00499	.05734	.23222	.13900	1.67057
10.300	-6.012	14.94130	.25804	.07005	-.01077	.00426	.00685	.04245	.22932	.13369	1.71528
10.300	-5.016	14.93024	.25858	.06992	-.01056	.00368	.00447	.03564	.23179	.13427	1.72654
10.300	-4.005	14.92957	.26306	.07075	-.01269	.00270	.00295	.02933	.23588	.13626	1.73116
10.300	-3.005	14.96573	.26424	.06904	-.01296	.00179	.00213	.02067	.23745	.13493	1.75979
10.300	-2.001	14.96471	.26407	.06911	-.01259	.00113	.00136	.01215	.23753	.13399	1.77270
10.300	-1.010	14.96773	.26622	.06751	-.01243	.00020	.00019	.00529	.23975	.13398	1.78949
10.300	-.004	14.96246	.26787	.06727	-.01303	-.00055	-.00126	-.00185	.24137	.13423	1.79819
10.300	1.009	14.97369	.26970	.06779	-.01307	-.00127	-.00268	-.00828	.24206	.13491	1.79417
10.300	GRADIENT	.00356	.00118	-.00059	-.00003	-.00079	-.00113	-.00765	.00128	-.00025	.01274

LA-11,CFT 96, ROCKWELL CRB, 0698 W/MCD, NOSE



LA-11, CFHT 96, ROCKWELL CRB, 0898 W/MCO, NOSE

REFERENCE DATA
 BREF = 21.7886 98.1IN. XMRP = 6.2902 INCHES
 LREF = 3.9811 INCHES YMRP = .0000 INCHES
 SREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 20.000 ELEVTR = -30.000
 AILTRN = -10.000 BOFLAP = -14.250

RUN NO. 58/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CL	CYL	CYN	CY	CL	CD	L/D
10.300	-9.088	20.07877	.42449	.07817	-.00407	.00907	.01049	.06794	.37185	.21916	1.09672	
10.300	-6.080	20.07282	.42726	.07846	-.00584	.00750	.01015	.05699	.37507	.21848	1.71888	
10.300	-7.042	20.07047	.43314	.07561	-.00670	.00577	.00921	.04806	.36089	.21966	1.75396	
10.300	-6.045	20.07032	.43495	.07468	-.00731	.00455	.00763	.04060	.36291	.21941	1.74519	
10.300	-5.041	20.06875	.43774	.07490	-.00776	.00354	.00598	.03423	.36545	.22057	1.74753	
10.300	-4.030	20.07127	.44066	.07550	-.00861	.00247	.00429	.02712	.36799	.22214	1.74656	
10.300	-3.026	20.05956	.44185	.07493	-.00904	.00143	.00302	.01696	.36935	.22194	1.75429	
10.300	-2.019	20.06863	.44288	.07439	-.00996	.00043	.00167	.01180	.37046	.22185	1.76001	
10.300	-1.013	20.06793	.44319	.07498	-.00960	-.00082	.00029	.00454	.37056	.22250	1.75530	
10.300	-.003	20.06480	.44224	.07327	-.00981	-.00141	-.00142	-.00225	.37026	.22055	1.76953	
10.300	1.009	20.06827	.44016	.07202	-.00973	-.00256	-.00324	-.00616	.36872	.21868	1.77757	
GRADIENT	-.00004	-.00003	-.00003	-.00082	-.00025	-.00098	-.00148	-.00701	.00018	-.00059	.00556	

LA-11, CFHT 96, ROCKWELL CRB, 0898 W/MCO, NOSE

REFERENCE DATA
 BREF = 21.7886 98.1IN. XMRP = 6.2902 INCHES
 LREF = 3.9811 INCHES YMRP = .0000 INCHES
 SREF = 7.0251 INCHES ZMRP = .0000 INCHES
 SCALE = .0075

PARAMETRIC DATA
 ALPHA = 25.000 ELEVTR = -30.000
 AILTRN = -10.000 BOFLAP = -14.250

RUN NO. 58/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CL	CYL	CYN	CY	CL	CD	L/D
10.300	-9.088	25.24288	.62086	.08144	-.00560	.00950	.01132	.06963	.52685	.33843	1.55671	
10.300	-6.032	25.22674	.62372	.08043	-.00493	.00781	.01063	.06010	.52996	.33859	1.56520	
10.300	-7.031	25.21666	.62586	.07934	-.00534	.00633	.00963	.04980	.53240	.33844	1.57309	
10.300	-6.005	25.20328	.62849	.07784	-.00565	.00492	.00818	.04115	.53550	.33808	1.58396	
10.300	-5.000	25.19890	.62826	.07665	-.00623	.00393	.00677	.03302	.53584	.33685	1.59077	
10.300	-4.011	25.18712	.62968	.07672	-.00653	.00282	.00556	.02475	.53716	.33741	1.59203	
10.300	-3.002	25.17941	.63052	.07642	-.00656	.00142	.00370	.01740	.53810	.33741	1.59477	
10.300	-2.016	25.17268	.63000	.07609	-.00665	-.00021	.00187	.01175	.54238	.34120	1.58963	
10.300	-1.008	25.17361	.63501	.07782	-.00664	-.01137	.00824	.00467	.54159	.34054	1.59042	
10.300	-.003	25.17184	.63631	.07825	-.00661	-.00233	-.00153	-.00236	.54260	.34146	1.58908	
10.300	1.003	25.17060	.63643	.07821	-.00697	-.00334	-.00320	-.00568	.54273	.34147	1.58940	
GRADIENT	-.00094	-.00036	-.00143	-.00032	-.00052	-.00120	-.00171	-.00680	.00115	-.00090	-.00084	

LA-11,CPHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

BWDF = 21.7666 88.IN. WRP = 6.2902 INCHES
LWDF = 3.5611 INCHES YWRP = .0000 INCHES
BWF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

PARAMETRIC DATA

ALPHA = 30.000 ELEVTR = -30.000
AHLRON = -10.000 BOFLAP = -14.250

RUN NO. 57/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10,300	-6.916	30.37353	.63762	.08287	-.00760	.00965	.01276	.06632	.66082	.49513	1.37524
10,300	-7.834	30.34058	.63921	.06109	-.00761	.00746	.01111	.05603	.68331	.49390	1.36349
10,300	-6.895	30.32554	.64013	.06072	-.00774	.00627	.00950	.04869	.68442	.49367	1.36563
10,300	-5.945	30.32553	.64260	.07975	-.00741	.00469	.00802	.04034	.68748	.49402	1.39161
10,300	-4.922	30.28628	.64373	.07954	-.00712	.00334	.00664	.03174	.68846	.49420	1.39310
10,300	-3.961	30.26617	.64555	.07961	-.00790	.00186	.00515	.02421	.69017	.49493	1.39449
10,300	-2.977	30.28092	.64662	.07685	-.00666	.00036	.00346	.01746	.69325	.49576	1.39836
10,300	-1.975	30.24981	.65144	.07614	-.00959	-.00099	.00167	.01050	.69614	.49643	1.40230
10,300	-.999	30.24819	.65126	.07793	-.00970	-.00234	.00002	.00302	.69612	.49614	1.40306
10,300	-.002	30.25036	.65168	.07704	-.00995	-.00363	-.00166	-.00428	.69690	.49561	1.40614
10,300	.946	30.24996	.65423	.07612	-.01043	-.00580	-.00317	-.01115	.69857	.49781	1.40329
10,300	GRADIENT	-.00564	.00168	-.00037	-.00054	-.00145	-.00169	-.00722	.00168	.00045	.00211

LA-11,CPHT 96, ROCKWELL ORB. 0698 W/MOD. NOSE

REFERENCE DATA

BWDF = 21.7666 88.IN. WRP = 6.2902 INCHES
LWDF = 3.5611 INCHES YWRP = .0000 INCHES
BWF = 7.0251 INCHES ZWRP = .0000 INCHES
SCALE = .0075

PARAMETRIC DATA

ALPHA = 35.000 ELEVTR = -30.000
AHLRON = -10.000 BOFLAP = -14.250

RUN NO. 96/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
10,300	-6.745	35.62656	1.07623	.08291	-.01869	.00760	.01307	.06999	.62616	.69537	1.19089
10,300	-7.739	35.59277	1.08529	.08213	-.01862	.00607	.01149	.05773	.63473	.69644	1.19513
10,300	-6.791	35.58035	1.08784	.08096	-.01836	.00451	.01004	.04940	.63786	.69850	1.19953
10,300	-5.869	35.58451	1.09107	.08157	-.01787	.00299	.00837	.04176	.64059	.70035	1.20024
10,300	-4.850	35.49780	1.09230	.08150	-.01787	.00154	.00657	.03356	.64196	.70062	1.20174
10,300	-3.874	35.47773	1.09571	.08155	-.01766	-.00009	.00492	.02560	.64495	.70234	1.20305
10,300	-2.924	35.46532	1.09630	.08129	-.01776	-.00153	.00323	.01798	.64573	.70229	1.20425
10,300	-1.950	35.44739	1.09607	.08121	-.01824	-.00310	.00175	.00962	.64562	.70183	1.20516
10,300	-.988	35.44498	1.09729	.08046	-.01864	-.00473	.00023	.00167	.64726	.70190	1.20710
10,300	-.009	35.43656	1.09780	.08082	-.01845	-.00622	-.00152	-.00620	.64756	.70239	1.20668
10,300	.963	35.44493	1.09704	.08034	-.01959	-.00771	-.00310	-.01363	.64714	.70165	1.20735
10,300	GRADIENT	-.00949	.00071	-.00021	-.00031	-.00159	-.00166	-.00617	.00062	.00010	.00099

TABULATED SOURCE DATA - CPHT96 (LA-11)

(RPD065) (15 AUG 73)

LA-11, CPHT 96, ROCKWELL CRB. 0698 W/MOD. NOSE

PARAMETRIC DATA

REFERENCE DATA

REF = 21.7866 88.14. ZRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 BREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

BETA = .000 ELEVTR = -30.000
 AIRLON = 10.000 BOFLAP = -14.250

RUN NO. TD/ D RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CLL	CYN	CY	CL	CD	L/D
10.300	9.979	-.00573	.13567	.07187	-.01668	.00196	-.00070	-.00269	.12136	.09433	1.29657
10.300	14.876	-.00416	.27326	.06894	-.01270	.00140	-.00093	-.00196	.13774	.13774	1.80133
10.300	20.113	-.00255	.44324	.07340	-.00778	.00132	-.00116	-.00173	.39097	.22134	1.76636
10.300	25.165	-.00186	.63141	.07801	-.00739	.00149	-.00126	-.00214	.53832	.33909	1.58757
10.300	30.176	-.00169	.84186	.07802	-.00947	.00126	-.00109	-.00245	.68856	.49061	1.40349
10.300	35.415	-.00090	1.08290	.06128	-.01685	.00182	-.00068	-.00306	.83344	.69378	1.20419
GRADIENT		.00019	.03726	.00044	.00005	-.00001	-.00001	-.00002	.02834	.02349	-.01011

(RPD066) (15 AUG 73)

LA-11, CPHT 96, ROCKWELL CRB. 0698 W/MOD. NOSE

PARAMETRIC DATA

REFERENCE DATA

REF = 21.7866 88.14. ZRRP = 6.2902 INCHES
 LREF = 3.5611 INCHES YRRP = .0000 INCHES
 BREF = 7.0251 INCHES ZRRP = .0000 INCHES
 SCALE = .0075

BETA = -5.000 ELEVTR = -30.000
 AIRLON = 10.000 BOFLAP = -14.250

RUN NO. TD/ D RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CLL	CYN	CY	CL	CD	L/D
10.300	9.932	-4.91851	.14005	.07192	-.01538	.00486	.00468	-.03598	.12555	.09300	1.32155
10.300	15.081	-4.97909	.28041	.06896	-.01152	.00514	.00713	-.03033	.25255	.14051	1.79739
10.300	20.113	-4.99803	.45455	.07436	-.00713	.00627	.00750	-.03184	.40126	.22814	1.77441
10.300	25.175	-4.97250	.64430	.07733	-.00562	.00769	.00746	-.03165	.55021	.34406	1.59916
10.300	30.180	-4.91091	.85573	.08022	-.00684	.00875	.00732	-.03234	.69940	.49954	1.40011
10.300	35.477	-4.80337	1.08676	.06177	-.01726	.00967	.00716	-.03502	.84674	.70369	1.20296
GRADIENT		.00453	.03766	.00047	.00003	.00020	.00007	.00001	.02861	.02382	-.01101

TABULATED SOURCE DATA - CJHT96 (LA-11)

(RPD067) (15 AUG 73)

LA-11,CJHT 96, ROCKWELL CRB, 0.998 W/MCD, NOSE

PARAMETRIC DATA

ALPHA = 35.000 ELEVTR = -30.000
ATLURON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7666 30-IN. XREF = 6.2902 INCHES
LREF = 3.5611 INCHES YREF = .0000 INCHES
BREF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 77 / 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MAON	BETA	ALPHA	CN	CA	CLM	COL	CYN	CY	CL	CD	L/D
10.300	-6.756	35.52913	1.04127	.08014	-.01672	.01722	.01368	.76655	.60082	.67034	1.19456
10.300	-7.751	35.48648	1.01492	.07546	-.01627	.01382	.01200	.05909	.60471	.67129	1.19875
10.300	-6.789	35.45723	1.04996	.07331	-.01572	.01211	.01049	.05146	.60642	.67310	1.20104
10.300	-5.625	35.42632	1.05114	.07314	-.01548	.01080	.01062	.04393	.61069	.67346	1.20408
10.300	-4.683	35.39851	1.05213	.07936	-.01545	.00951	.00713	.03652	.61166	.67415	1.20398
10.300	-3.667	35.37895	1.05137	.07893	-.01466	.00870	.00541	.02874	.61153	.67308	1.20369
10.300	-2.911	35.35329	1.05334	.07862	-.01514	.00843	.00304	.02127	.61347	.67379	1.20730
10.300	-1.937	35.34781	1.05222	.07828	-.01520	.01493	.00245	.01362	.61296	.67280	1.20667
10.300	-.967	35.34343	1.05246	.07894	-.01529	.00341	.00293	.00355	.61324	.67350	1.20747
10.300	-.005	35.34001	1.05384	.07866	-.01594	.00193	-.00078	-.00187	.61404	.67390	1.20795
10.300	.971	35.34167	1.05229	.07827	-.01597	.00050	-.00236	-.00936	.61310	.67254	1.20899
12.300	GRADIENT	-.00958	.00016	-.00012	-.00014	-.00155	-.00161	-.00789	.00033	-.00013	.00073

(RPD066) (15 AUG 73)

LA-11,CJHT 96, ROCKWELL CRB, 0.998 W/MCD, NOSE

PARAMETRIC DATA

ALPHA = 30.000 ELEVTR = -30.000
ATLURON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7666 30-IN. XREF = 6.2902 INCHES
LREF = 3.5611 INCHES YREF = .0000 INCHES
BREF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 76 / 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MAON	BETA	ALPHA	CN	CA	CLM	COL	CYN	CY	CL	CD	L/D
10.300	-6.980	30.38013	.60354	.07948	-.00726	.01363	.01320	.06558	.65330	.47426	1.37794
10.300	-7.809	30.30824	.60846	.07884	-.00758	.01261	.01165	.05773	.65622	.47599	1.38284
10.300	-6.984	30.27001	.60933	.07775	-.00722	.01180	.01000	.04974	.65892	.47462	1.38831
10.300	-5.838	30.23037	.60907	.07725	-.00722	.00989	.00857	.04145	.65998	.47432	1.39141
10.300	-4.999	30.22324	.60831	.07649	-.00674	.00847	.00715	.03316	.65992	.47299	1.39520
10.300	-3.853	30.21729	.61304	.07673	-.00759	.00724	.00568	.02567	.66395	.47549	1.39835
10.300	-2.972	30.20492	.61320	.07673	-.00806	.00567	.00400	.01861	.66419	.47543	1.39703
10.300	-1.946	30.18729	.61742	.07587	-.00857	.00421	.00226	.01222	.66842	.47660	1.40247
10.300	-1.004	30.18480	.61706	.07532	-.00863	.00255	.00071	.00532	.66840	.47592	1.40445
10.300	-.002	30.18088	.61817	.07530	-.00896	.00126	-.00100	-.00169	.66925	.47665	1.40407
10.300	.994	30.18058	.61856	.07599	-.00906	.00000	-.00258	-.00859	.66935	.47727	1.40243
10.300	GRADIENT	-.00709	.00162	-.00019	-.00038	-.00146	-.00165	-.00697	.00155	.00056	.00160

(RP0066) (15 AUG 73)

LA-11, CPNT 96, ROCKWELL CRB. 0698 W/NO. NOSE

PARAMETRIC DATA

ALPHA = 25.000 ELEVTR = -30.000
AIIIRON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7666 96. IN. XREF = 6.2902 INCHES
LREF = 2.5611 INCHES YREF = .0000 INCHES
BREF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 75/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MAON	BETA	ALPHA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10,300	-6.024	25.20752	.62937	.08164	-.00395	.01364	.01222	-.07014	.53425	.34293	1.59797
10,300	-6.011	25.22991	.63207	.08005	-.00467	.01183	.01150	-.05992	.53726	.34246	1.56865
10,300	-7.011	25.27996	.63252	.07910	-.00474	.01090	.01027	-.02031	.53017	.34164	1.57356
10,300	-6.011	25.26382	.63274	.07930	-.00536	.00956	.00926	-.04306	.53872	.34103	1.57966
10,300	-5.029	25.28036	.63320	.07742	-.00515	.00814	.00767	-.03511	.53961	.34023	1.56602
10,300	-4.004	25.24645	.63356	.07741	-.00544	.00664	.00567	-.02816	.54002	.34025	1.56710
10,300	-5.008	25.23721	.63612	.07693	-.00570	.00466	.00466	-.02084	.54260	.34081	1.59809
10,300	-1.999	25.24107	.63641	.07675	-.00606	.00453	.00313	-.01529	.54473	.34165	1.59439
10,300	-1.015	25.22613	.64160	.07760	-.00753	.00307	.00116	-.00846	.54726	.34374	1.59215
10,300	-1.005	25.22947	.64069	.07810	-.00886	.00209	-.00043	-.00196	.54628	.34373	1.58927
GRADIENT		-.00412	.00197	.00060	-.00046	-.00117	-.00161	-.00609	.00172	.00099	.00044

(RP0070) (15 AUG 73)

LA-11, CPNT 96, ROCKWELL CRB. 0698 W/NO. NOSE

PARAMETRIC DATA

ALPHA = 20.000 ELEVTR = -30.000
AIIIRON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 21.7666 96. IN. XREF = 6.2902 INCHES
LREF = 2.5611 INCHES YREF = .0000 INCHES
BREF = 7.0251 INCHES ZREF = .0000 INCHES
SCALE = .0075

RUN NO. 74/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MAON	BETA	ALPHA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10,300	-6.008	20.02997	.43675	.08162	-.00562	.01144	.00995	.07817	.34416	.22714	1.69137
10,300	-6.008	20.02928	.43342	.07575	-.00635	.01005	.01096	.05769	.38126	.21962	1.75604
10,300	-7.043	20.01970	.43620	.07555	-.00730	.00866	.01002	.04690	.38396	.22031	1.74206
10,300	-6.043	20.01942	.43751	.07452	-.00763	.00731	.00652	.04005	.36557	.21979	1.75422
10,300	-5.056	20.01941	.43974	.07367	-.00756	.00627	.00713	.03279	.36786	.21994	1.76354
10,300	-4.031	20.01835	.44140	.07412	-.00787	.00539	.00564	.02732	.38936	.22074	1.76363
10,300	-3.016	20.01459	.44010	.07306	-.00787	.00466	.00452	.01975	.38852	.21777	1.77119
10,300	-2.019	20.02297	.44123	.07270	-.00711	.00365	.00267	.01267	.38929	.21939	1.7761
10,300	-1.013	20.01561	.44549	.07476	-.00649	.00253	.00110	.00719	.39259	.22273	1.7611
10,300	-.006	20.02759	.44563	.07456	-.00783	.00175	-.00045	-.00069	.39315	.22266	1.7611
10,300	1.005	20.02156	.44364	.07323	-.00701	.00064	-.00196	-.00506	.39175	.22069	1.7751
GRADIENT		.00133	.00091	.00006	-.00096	-.00155	-.00639	-.00037	.00063	.00037	.00075

PARAMETRIC DATA

ALPHA = 15.000 ELEVTR = -30.000
AILRON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 61.7666 96. IN. WHP = 6.2902 INCHES
LWF = 3.9611 INCHES YWP = .0000 INCHES
SRF = 7.0231 INCHES ZWP = .0000 INCHES
SCALE = .0073

RUN NO. 75/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10.300	-9.026	14.9421	.26568	.07724	-.00461	.01006	.00782	.07996	.23697	.14319	1.65495
10.300	-9.030	14.9421	.26675	.07419	-.01010	.00971	.00776	.06592	.23855	.14066	1.60999
10.300	-7.026	14.95824	.26650	.07229	-.01127	.00799	.00620	.05505	.23861	.13662	1.72276
10.300	-6.015	14.95565	.26606	.07100	-.01195	.00633	.00754	.04355	.24065	.13776	1.74671
10.300	-5.027	14.96936	.26822	.06967	-.01223	.00542	.00717	.03340	.23945	.13510	1.77234
10.300	-4.015	14.96357	.27395	.07199	-.01280	.00498	.00402	.03046	.24610	.14090	1.75414
10.300	-3.006	14.97547	.27211	.06834	-.01310	.00364	.00365	.02080	.24521	.13633	1.79661
10.300	-2.009	14.96883	.27474	.06606	-.01362	.00303	.00251	.01434	.24779	.13660	1.61140
10.300	-1.015	14.98756	.27569	.06667	-.01367	.00226	.00126	.00773	.24875	.13766	1.60669
10.300	-.007	14.99737	.27564	.06900	-.01216	.00167	-.00034	.00117	.24862	.13799	1.60166
10.300	-.967	14.98561	.27745	.06966	-.01249	.00107	-.00179	-.00385	.24999	.13906	1.79771
GRADIENT		.00480	.00085	-.00025	.00012	-.00077	-.00122	-.00709	.00287	-.00001	-.00634

PARAMETRIC DATA

ALPHA = 10.000 ELEVTR = -30.000
AILRON = 10.000 BOFLAP = -14.250

REFERENCE DATA

REF = 61.7666 96. IN. WHP = 6.2902 INCHES
LWF = 3.9611 INCHES YWP = .0000 INCHES
SRF = 7.0231 INCHES ZWP = .0000 INCHES
SCALE = .0073

RUN NO. 76/ 0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CA	CLM	CLB	CYN	CY	CL	CD	L/D
10.300	-6.969	9.95735	.12755	.07656	-.01152	.00849	.00472	.08227	.11239	.09746	1.15266
10.300	-7.969	9.97801	.12775	.07446	-.01277	.00825	.00463	.06973	.11290	.09546	1.16266
10.300	-6.941	9.99636	.12834	.07275	-.01369	.00722	.00466	.05868	.11396	.09391	1.21357
10.300	-5.937	10.01908	.13026	.07176	-.01447	.00616	.00449	.04837	.11561	.09333	1.24086
10.300	-4.965	10.02983	.13056	.06980	-.01501	.00519	.00424	.03876	.11622	.09253	1.25595
10.300	-3.965	10.04254	.13332	.07032	-.01548	.00450	.00332	.03034	.11909	.09206	1.29340
10.300	-2.974	10.05764	.13562	.06959	-.01548	.00370	.00239	.02166	.12131	.09083	1.30967
10.300	-1.965	10.07050	.13902	.06859	-.01599	.00269	.00169	.01361	.12193	.09131	1.33528
10.300	-.965	10.08609	.13705	.07029	-.01593	.00219	.00062	.00574	.12267	.09315	1.31693
10.300	.000	10.08226	.13659	.07252	-.01614	.00160	-.00069	-.00237	.12376	.09562	1.29455
10.300	.967	10.06966	.13607	.07169	-.01578	.00119	-.00163	-.01012	.12336	.09482	1.29973
GRADIENT		.00563	.00124	.00031	-.00015	-.00068	-.00099	-.00621	.00116	-.00033	.00506

TABULATED SOURCE DATA - CRTM9 (LA-11)

LA-11, CRT 96, ROCKWELL COR. 0898 W/ACD. NOISE

DATE 10 SEP 73

08P0073) (15 AUG 73)

REFERENCE DATA

BREF = 21.7968 IN. 100P = 6.2802 INCHES
 LREF = 3.5611 INCHES 100P = .0000 INCHES
 SREF = 7.0231 INCHES 200P = .0000 INCHES
 SCALE = .0075

RUN NO. 22/0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	OM	CA	CLM	CEL	CYM	CY	CL	CD	L/D
10.300	10.038	-.00337	.19399	-.07156	-.02991	.00073	-.00120	-.00178	.14074	.09758	1.44226
10.300	15.193	-.02283	.30521	.07068	-.03380	.00056	-.00118	-.00274	.27997	.14839	1.85975
10.300	20.131	-.00228	.48475	.07715	-.04271	.00045	-.00132	-.00250	.42859	.25927	1.79126
10.300	25.285	-.00179	.68270	.08129	-.05739	.00022	-.00136	-.00323	.59174	.36916	1.60294
10.300	30.222	-.00262	.88280	.08288	-.07645	-.00032	-.00127	-.00448	.73393	.53311	1.40892
10.300	35.463	-.00340	1.18222	.08688	-.10428	-.00114	-.00121	-.00580	.91119	.75844	1.20140
GRADIENT		.00001	.04032	.00071	-.00290	-.00007	-.00000	-.00015	.03071	.02591	-.01548

BETA = .000 ELEVTR = .000
 AIRLON = .000 BOFLAP = .000

PARAMETRIC DATA

LA-11, CRT 96, ROCKWELL COR. 0898 W/ACD. NOISE

08P0074) (15 AUG 73)

REFERENCE DATA

BREF = 21.7968 IN. 100P = 6.2802 INCHES
 LREF = 3.5611 INCHES 100P = .0000 INCHES
 SREF = 7.0231 INCHES 200P = .0000 INCHES
 SCALE = .0075

RUN NO. 23/0 RVAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WMOH	ALPHA	BETA	OM	CA	CLM	CEL	CYM	CY	CL	CD	L/D
10.300	10.084	-4.95773	.19981	.07277	-.02994	.00558	.00367	.03704	.14440	.09929	1.44990
10.300	15.037	-5.01454	.31322	.07514	-.03357	.00542	.00479	.03644	.28330	.15383	1.83974
10.300	20.028	-5.03848	.49534	.07880	-.04445	.00595	.00591	.03472	.43648	.24347	1.60095
10.300	25.275	-5.01093	.70758	.08155	-.05596	.00666	.00713	.03037	.60485	.37577	1.60584
10.300	30.225	-4.94763	.93230	.08556	-.07403	.00737	.00717	.02949	.76266	.54334	1.40364
10.300	35.344	-4.84056	1.19199	.08980	-.10373	.00708	.00714	.03051	.91780	.76584	1.19642
GRADIENT		.00459	.04063	.00066	-.00295	-.00008	.00014	-.00032	.03073	.02606	-.01565

BETA = -5.000 ELEVTR = .000
 AIRLON = .000 BOFLAP = .000

PARAMETRIC DATA