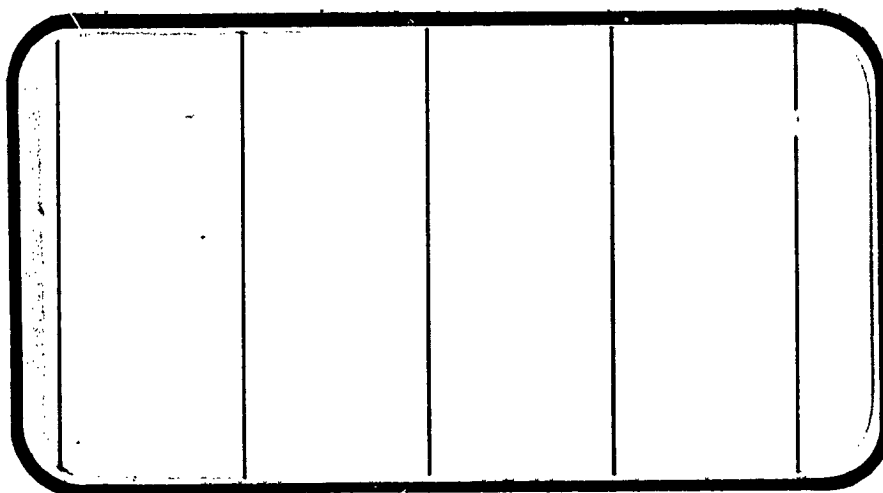




# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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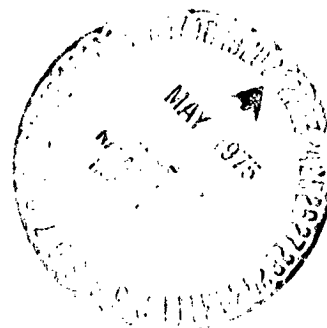
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(NASA-CR-141525) RESULTS OF TRANSONIC WIND  
TUNNEL TESTS ON AN 0.010-SCALE SPACE SHUTTLE  
MATED VEHICLE MODEL 72-OTS IN THE LaRC  
8-FOOT TPT (IA43) (Chrysler Corp.)  
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**SPACE SHUTTLE**

**AEROTHERMODYNAMIC DATA REPORT**

**JOHNSON SPACE CENTER  
HOUSTON, TEXAS**

**DATA Management services**



April, 1975

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RESULTS OF TRANSONIC WIND TUNNEL TESTS  
ON AN 0.010-SCALE SPACE SHUTTLE MATED VEHICLE MODEL  
72-OTS IN THE LaRC 8-FOOT TPT (IA43)

By

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Prepared under NASA Contract Number NAS9-13247

By

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Chrysler Corporation Space Division  
New Orleans, La. 70189

for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC 8-Foot TPT 693  
NASA Series Number: IA43  
Test Date: August 26 through August 30, 1974  
Model Number: 72-OTS  
Occupancy Hours: 72

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

RESULTS OF TRANSONIC WIND TUNNEL TESTS  
ON AN 0.010-SCALE SPACE SHUTTLE MATED VEHICLE MODEL  
72-OTS IN THE LaRC 8-FOOT TPT (IA43)

By

M. T. Petrozzi and M. D. Milam, Rockwell International Space Division

ABSTRACT

Experimental aerodynamic investigations were conducted in NASA/Langley 8-Foot Transonic Pressure Tunnel on a sting mounted 0.010-scale outer mold line model of 140A/B configuration of the Rockwell International Space Shuttle Vehicle. These tests were conducted during the time period from August 26, 1974 to August 30, 1974.

The primary test objectives were to obtain 1) six component force and moment data for the mated vehicle at subsonic and transonic conditions, 2) effects of configuration build-up, 3) effects of protuberances, ET/Orbiter fairings and attach structure and 4) elevon deflection effects on wing bending moment.

Six component aerodynamic force and moment data and base and balance cavity pressures were recorded over an angle of attack range of  $-10^\circ$  to  $+10^\circ$  at Mach numbers of 0.6, 0.8, 0.9, 0.98, 1.13, and 1.2. Selected configurations were tested at sideslip angles from  $-10^\circ$  to  $+10^\circ$ . For all configurations involving the orbiter, wing bending and torsion were measured on the right wing.

For all build-up tests the elevons, body flap, rudder and speedbrake



ABSTRACT (Concluded)

settings were 0°.

For the tests to determine the effects of elevon setting upon wing bending moment, inboard elevon setting of 0°, +4° and +8° and outboard settings of 0°, +4° and +8° were tested.

The model was sting mounted on the NASA/LRC 839A balance. For most tests the balance was installed in the orbiter. For configurations where the orbiter was excluded, the balance was installed in the external tank.

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Plotted Coefficients Schedule:

- A: CAF, CAB, CNF, CLMF vs. ALPHA
- B: CNF vs. CLMF
- C: CAFALO, CABAFO, CLMAFO, CNFAFO, CLMALF, CNALFA, XAC/L vs. Mach
- D: CY vs. BETA, CY vs. CYN
- E: CYNBTA, CYBETA, YAC/L, CBLBTA vs. MACH
- F: CBN, CTM, CNM vs. ALPHA
- G: CBN, CTM, CNM vs. BETA
- H: CBN, CTM, CNM vs. ELV-LI
- I: CBN, CTM, CNM vs. ELV-LO
- J: DLTCNF, DLTCML, DLTCAF vs. DEL-LI
- K: DLTCNF, DLTCML, DLTCAF vs. DEL-LO

NOMENCLATURE  
General

<u>SYMBOL</u>	<u>PLOT 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
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; $kg/m^3$ , slugs/ft <sup>3</sup>
<u>Reference &amp; C.G. Definitions</u>		
$A_b$		base area; m <sup>2</sup> , ft <sup>2</sup>
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}_{REF}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m <sup>2</sup> , ft <sup>2</sup>
	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
	$\infty$	free stream

ORIGINAL PAGE IS  
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NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT 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; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

$C_L$	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; $C_L/C_D$
L/D <sub>f</sub>	L/DF	lift to forebody drag ratio; $C_L/C_{D_f}$

NOMENCLATURE (Continued)  
 Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$A_{bACPS}$		attitude control propulsion system base area, $ft^2$
$A_{bET}$		external tank base area, $ft^2$
$A_{bOMS}$		OMS pods base area, $ft^2$
$A_{bo}$		Orbiter fuselage base area, $ft^2$
$A_{bf}$		Orbiter bodyflap base area, $ft^2$
$A_{bSRB}$		SRB base area, $ft^2$
$A_{bSRBN}$		SRB nozzle base area, $ft^2$
$A_{CET}$		external tank balance cavity area, $ft^2$
$A_{CORB}$		Orbiter balance cavity area, $ft^2$
$b$		Orbiter wing span, in
$C_{A_{b\alpha=0}}$	CABAFO	base axial force coefficient at $\alpha = 0$
$C_{A_{bET}}$	CABET	external tank base axial force coefficient
$C_{A_{bOMS}}$		OMS pod base axial force coefficient
$C_{A_{bo}}$	CABO	Orbiter base axial force coefficient
$C_{A_{bSRB}}$	CABSRB	SRB base axial force coefficient
$C_{A_{f\alpha=0}}$	CAFAFO	forebody axial force coefficient at $\alpha = 0$



NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$C_{L\beta}$	CBLBTA	derivative of rolling moment coefficient ( $-5 \leq \beta \leq 5$ ); per degree
$C_{BW}$	CBW	Orbiter wing bending moment coefficient
$C_{mf\alpha=0}$	CLMAFO	forebody pitching moment coefficient at alpha = 0
$C_{m\alpha}$	CLMALF	derivative of pitching moment coefficient ( $-5 \leq \alpha \leq 5$ ); per degree
$C_{LWI}$	CLWI	wing root roll axis bending moment coefficient about inboard gage, $C_{LWI} = m_1/qSb$
$C_{LWO}$	CLWO	wing root roll axis bending moment coefficient about outboard gage, $C_{LWO} = m_2/qSb$
$C_{mbf}$	CLMBF	Orbiter bodyflap base pitching moment coefficient
$C_{mb0}$	CLMBO	Orbiter fuselage pitching moment coefficient
$C_{mf}$	CLMF	forebody pitching moment coefficient
$C_{mWG}$	CMWG	wing root pitch axis bending moment coefficient about gage, $C_{mWG} = m_3/qSc$
$C_{N\alpha}$	CNALFA	derivative of normal force coefficient ( $-5 \leq \alpha \leq 5$ ); per degree
$C_{Nbf}$	CNBF	Orbiter body flap normal force coefficient
$C_{Nb0}$	CNBO	Orbiter fuselage base normal force coefficient
$C_{Nf}$	CNF	forebody normal force coefficient

NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$C_{N_{f_{\alpha=0}}}$	CNFAFO	forebody normal force coefficient at $\alpha = 0$
$C_{N_W}$	CNW	Orbiter wing normal force coefficient
$C_{p_{bET}}$		external tank base pressure coefficient
$C_{p_{bf}}$		bodyflap base pressure coefficient
$C_{p_{bO}}$		Orbiter fuselage base pressure coefficient
$C_{p_{bSRB}}$		SRB base pressure coefficient
$C_{p_{OMS}}$		OMS pod base pressure coefficient
$C_{TW}$	CTW	wing torsional moment coefficient
$\bar{c}$		wing mean aerodynamic chord, in
$C_{y_{\beta}}$	CYBETA	derivative of side force coefficient ( $-5 \leq \beta \leq 5$ ); per degree
$C_{n_{\beta}}$	CYNBTA	derivative of yawing moment coefficient ( $-5 \leq \beta \leq 5$ ); per degree
$\Delta \delta_{eI}$	DEL-LI, DEL-LO	incremental inboard elevon deflection angle, difference between two runs; deg.
$\Delta \delta_{eO}$	DEL-LO, DEL-RO	incremental outboard elevon deflection angle, difference between two runs; deg.
$\Delta C_{A_f}$	DLTCAF	incremental forebody axial force coefficient, difference between two runs
$\Delta C_m$	DLTCLM	incremental pitching moment coefficient, difference between two runs

NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$\Delta C_{Nf}$	DLTCNF	incremental forebody normal force coefficient, difference between two runs
$i_{b_0}$		Orbiter base incidence angle, deg.
$l_b$		Orbiter fuselage length, in
$m_1$		wing strain gage number 1 measurement, in-lb
$m_2$		wing strain gage number 2 measurement, in-lb
$m_3$		wing strain gage number 3 measurement, in-lb
$P( )$		pressure measurement at orifice number equal to subscript, psia
	XAC/L	longitudinal center of pressure locations, ratio of the derivatives of pitching moment coefficient and normal force (CLMALF/CNALFA)
$X_{CPW}$	XCPW	longitudinal location of wing center of pressure, inches aft of Orbiter nose ( $X_0 = 235$ )
$X_{G_3}$		longitudinal location of wing strain gage number 3, in. $X_0$
$X_0$		Orbiter longitudinal station, in
$X_S$		SRB longitudinal station, in
$X_T$		external tank longitudinal station, in
$X_{WRC}$		longitudinal location at wing reference center, in $X_0$
	YAC/L	lateral center of pressure location, ratio of the derivatives of yawing moment coefficient and side force (CYNBTA/CYBETA)

NOMENCLATURE (Continued)  
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$Y_{CPW}$	YCPW	lateral location of wing center of pressure, in $Y_0$
$Y_{G1}$		lateral location of wing strain gage number 1, in $Y_0$
$Y_{G2}$		lateral location of wing strain gage number 2, in $Y_0$
$Y_0$		Orbiter lateral station, in
$Y_S$		SRB lateral station, in
$Y_T$		external tank lateral station, in
$Y_{WRC}$		lateral location of wing reference center, in $Y_0$
$Z_0$		Orbiter vertical station, in
$Z_S$		SRB vertical station, in
$Z_T$		external tank vertical station, in
$\delta_{BF}$	BDFLAP	bodyflap deflection angle, deg.
$\delta_{eI}$	ELV-LI, ELV-RI	inboard elevon panel deflection angle, deg.
$\delta_{eO}$	ELV-LO, ELV-RO	outboard elevon panel deflection angle, deg.
$\delta_r$	RUDDER	rudder deflection angle, deg
$\delta_{SB}$	SPDBRK	speedbrake deflection angle, deg.

Abbreviations and Subscripts

<u>Symbol</u>	<u>Definition</u>
a	aileron

D

**NOMENCLATURE (Concluded)**  
**Additions to Standard List**

<u>Symbol</u>	<u>Definition</u>
ACPS	attitude control propulsion system
BAC	internal balance
e	elevon
ET	external oxygen/hydrogen tank
i	model pressure number
I	inboard
L	left
O	outboard
MPS	main propulsion system
MRP	moment reference point
OMS	Orbital maneuvering system
ORB	Orbiter
r	rudder
R	right
SRB	solid rocket booster
SRBN	solid rocket booster nozzle

## CONFIGURATIONS INVESTIGATED

Configuration build-up studies were performed during this test series. In addition to the build-up of the major components, protuberance build-up studies and alternate SRB nozzle configurations were investigated.

Model 72-OTS dimensional data are given in Table III.

The tested configurations included the following components:

AT <sub>28</sub>	Attach structure, VL78-000063, VL78000062B, VC78-000002
AT <sub>29</sub>	Attach structure, VL78-000062B, 82600207000, VC78-000002
AT <sub>30</sub>	Attach structure, VL78-000066, 82600207000, VC78-000002
AT <sub>31</sub>	Attach structure, VL78-000063, VL78-000062B, VL78-000066, VC78-000002
AT <sub>32</sub>	Attach structure, VL78-000063, VL78-000062B, VL78-000066, VC78-000002
B <sub>26</sub>	Fuselage, VL70-000193, VL70-000140A, VL70-000140B
C <sub>9</sub>	Canopy, VL70-000140A, VL70-000143A
E <sub>44</sub>	Elevon, SAS/AERO/74-344
F <sub>10</sub>	Bodyflap, VL70-000140B, VL70-000200
FL <sub>10</sub>	Feedline, VL78-000063, VL78-000062B, VC78-000002
FL <sub>11</sub>	Feedline, VL78-000063, VL78-000062B, VC78-000002
FR <sub>10</sub>	Fairing, VL78-000063, VL78-000062B, 82600207000, VC78-000002
M <sub>14</sub>	Alternate OMS pod, VL70-008457
M <sub>16</sub>	OMS pod, VL70-000203

CONFIGURATIONS INVESTIGATED (Concluded)

N <sub>28</sub>	OMS nozzle, VL70-000140A
N <sub>86</sub>	SRBN, VL77-000066, VC77-000002
PS <sub>1</sub>	Electrical tunnel
PS <sub>2</sub>	Attach ring
PS <sub>3</sub>	4 intermediate rings
PS <sub>4</sub>	Aft structural ring
PS <sub>5</sub>	Aft separation motor fairing
PS <sub>6</sub>	Tiedown struts
PT <sub>22</sub>	Electrical line, VL78-000063, VL78-000062B, VC78-000002
PT <sub>23</sub>	L <sub>02</sub> recirculation line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT <sub>24</sub>	LH <sub>2</sub> recirculation line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT <sub>25</sub>	Electrical line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT <sub>26</sub>	L <sub>02</sub> pressure line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
R <sub>5</sub>	Rudder, VL70-000095
S <sub>18</sub>	SRB with alternate skirt, VL70-000066
S <sub>21</sub>	SRB, VL77-000066, VC77-000002
T <sub>28</sub>	ET, VL78-000063, VL78-000062B, VC78-000002
V <sub>8</sub>	Vertical, VL70-000140A, VL70-000146A
W <sub>116</sub>	Wing, VL70-000140B, VL70-000200

CONFIGURATIONS INVESTIGATED (Concluded)

Shorthand notation used in Table II is as follows:

O<sub>2</sub> = B<sub>26</sub> C<sub>9</sub> E<sub>44</sub> F<sub>10</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

O<sub>3</sub> = B<sub>26</sub> C<sub>9</sub> E<sub>44</sub> F<sub>10</sub> M<sub>14</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

S<sub>1</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> S<sub>21</sub>

S<sub>2</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> PS<sub>2</sub> S<sub>21</sub>

S<sub>3</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> PS<sub>2</sub> PS<sub>4</sub> S<sub>21</sub>

S<sub>6</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> PS<sub>1</sub> PS<sub>2</sub> PS<sub>3</sub> PS<sub>4</sub> PS<sub>6</sub> S<sub>21</sub>

S<sub>7</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> PS<sub>1</sub> PS<sub>2</sub> PS<sub>3</sub> PS<sub>4</sub> PS<sub>5</sub> PS<sub>6</sub> S<sub>21</sub>

S<sub>8</sub> = AT<sub>30</sub> AT<sub>31</sub> N<sub>86</sub> PS<sub>1</sub> PS<sub>2</sub> PS<sub>3</sub> PS<sub>4</sub> PS<sub>5</sub> PS<sub>6</sub> S<sub>18</sub>

T<sub>1</sub> = AT<sub>28</sub> AT<sub>32</sub> FL<sub>10</sub> FL<sub>11</sub> T<sub>28</sub>

T<sub>2</sub> = AT<sub>28</sub> AT<sub>32</sub> FL<sub>10</sub> FL<sub>11</sub> FR<sub>10</sub> PT<sub>23</sub> PT<sub>24</sub> PT<sub>26</sub> T<sub>28</sub>

T<sub>4</sub> = AT<sub>28</sub> AT<sub>29</sub> AT<sub>32</sub> FL<sub>10</sub> FL<sub>11</sub> PS<sub>1</sub> PS<sub>2</sub> PS<sub>3</sub> PS<sub>4</sub> PS<sub>5</sub> PS<sub>6</sub> PT<sub>22</sub>

PT<sub>23</sub> PT<sub>24</sub> PT<sub>25</sub> PT<sub>26</sub> T<sub>28</sub>



## TEST FACILITY DESCRIPTION

NASA/Langley Research Center 8-Foot Transonic Pressure Tunnel is an air-medium facility capable of attaining continuously variable Mach numbers from 0.20 to 1.30. It is a single return, closed circuit tunnel having controlled stagnation temperature, total pressure, and dew point temperature. The test section is 7.1 feet square. Reynolds numbers are variable from  $0.30 \times 10^6$ /foot to  $7.0 \times 10^6$ /foot, depending on Mach number and tunnel total-pressure limitations. Models are supported in the test section by a sting-sector system, but wall mounting is possible. Schlieren photography is available for flow and shock-wave studies.

## DATA REDUCTION

The aerodynamic force and moment data were measured by the NASA/LRC 839 A internal strain gage balance. The data were adjusted for tunnel corrections, sting and balance deflections, and model weight tares. Base pressure adjustments were made as follows:

$$C_{N_{b_0}} = - C_{p_{b_0}} \frac{A_{b_0}}{S} \tan i_{b_0}$$

$$C_{N_{bf}} = - C_{p_{bf}} \frac{A_{bf}}{S}$$

$$C_{m_{b_0}} = - C_{N_{b_0}} \left( \frac{1263}{1290.3} \right) + C_{A_{b_0}} \left( \frac{336.5}{1290.3} \right)$$

$$C_{m_{bf}} = - C_{N_{bf}} \left( \frac{1339.7}{1290.3} \right)$$

$$C_{A_{b_0}} = - C_{p_{b_0}} \frac{A_{b_0}}{S} - C_{p_{OMS/ACPS}} \left( \frac{A_{b_{OMS}} + A_{b_{ACPS}}}{S} \right)$$

$$C_{A_{b_{ET}}} = - C_{p_{b_{ET}}} \frac{A_{b_{ET}}}{S}$$

$$C_{A_{b_{SRB}}} = - C_{p_{b_{SRB}}} \frac{A_{b_{SRB}}}{S} - C_{p_{b_{SRBN}}} \frac{A_{b_{SRBN}}}{S}$$

$$C_{N_f} = C_N - C_{N_{b_0}} - C_{N_{bf}}$$

$$C_{m_f} = C_m - C_{m_{b_0}} - C_{m_{bf}}$$

$$C_{A_f} = C_A - C_{A_{b_0}} - C_{A_{b_{ET}}} - C_{A_{b_{SRB}}}$$

## DATA REDUCTION (Continued)

where:

$C_{p_{b_o}}$  = Average Orbiter base pressure coefficient measured by base pressure orifices

$C_{p_{bf}}$  = Bodyflap base pressure coefficient obtained from figure 2e

$C_{p_{OMS}}$  = Average OMS base pressure coefficient measured by OMS base pressure orifices

$C_{p_{b_{ET}}}$  = Average external tank base pressure coefficient measured by ET base pressure orifices

$C_{p_{b_{SRB}}}$  = Average booster base pressure coefficient measured by SRB base pressure orifices

$i_{b_o}$  = Orbiter base incidence angle, angle between Orbiter base and plane orthogonal to Orbiter FRL, 14.75 degrees

Wing root strain gage measurements were reduced to bending and torsional moment coefficients as follows:

$$C_{N_W} = \frac{(m_1 - m_2)}{qS (Y_{G_2} - Y_{G_1})}$$

$$X_{CP_W} = X_{G_3} - \left( \frac{m_3}{qS C_{N_W}} \right) - X_{nose}$$

$$Y_{CP_W} = Y_{G_1} + \left( \frac{m_1}{qS C_{N_W}} \right)$$

$$C_{B_W} = \frac{m_2}{qSb} + C_{N_W} \left( \frac{Y_{G_2} - Y_{WRC}}{b} \right)$$

$$C_{T_W} = \frac{m_3}{qS\bar{c}} - C_{N_W} \left( \frac{X_{G_3} - X_{WRC}}{\bar{c}} \right)$$

## DATA REDUCTION (Continued)

where:

$m_1, m_2,$  and  $m_3$  = measurements of gages 1, 2, and 3, respectively, in-lb

$Y_{G_1}, Y_{G_2}$  = lateral location of gages 1 and 2, respectively, inches  $Y_0$

$Y_{WRC}$  = lateral location of wing reference center, inches  $Y_0$

$X_3$  = longitudinal location of gage 3, inches  $X_0$

$X_{WRC}$  = longitudinal location of wing refernece center, in.  $X_0$

$X_{nose}$  = longitudinal location of Orbiter nose, in.  $X_0$

The following reference dimensions and constants were used:

<u>Symbol</u>	<u>Full Scale</u>	<u>Model Scale</u>
$A_{DACPS}$	19.1 ft <sup>2</sup>	0.275 in <sup>2</sup>
$A_{DET}$	597.6 ft <sup>2</sup>	8.604 in <sup>2</sup>
$A_{bf}$	142.6 ft <sup>2</sup>	2.044 in <sup>2</sup>
$A_{DOMS}$	Configuration O <sub>2</sub> 42.2 ft <sup>2</sup>	0.6075 in <sup>2</sup>
	Configuration O <sub>3</sub> 26.0 ft <sup>2</sup>	0.3744 in <sup>2</sup>
$A_{b0}$	314.1 ft <sup>2</sup>	4.523 in <sup>2</sup>
$A_{bSRB}$	Configuration S <sub>1</sub> thru S <sub>7</sub> 127.5 ft <sup>2</sup>	1.836 in <sup>2</sup>
	Configuration S <sub>8</sub> 83.5 ft <sup>2</sup>	1.203 in <sup>2</sup>

DATA REDUCTION (Concluded)

$A_{D,SRBN}$	Configuration	108.8 ft <sup>2</sup>	1.567 in <sup>2</sup>
	S <sub>1</sub> thru S <sub>7</sub>		
	Configuration S <sub>8</sub>	117.4 ft <sup>2</sup>	1.691 in <sup>2</sup>
$A_{C,ET}$	_____		3.04 in <sup>2</sup>
$A_{C,ORB}$	_____		2.404 in <sup>2</sup>
b	936.68 in		9.367 in
$\bar{c}$	474.8 in		4.748 in
$i_{D_0}$	14.75 deg.		14.75 deg.
$l_D$	1290.3 in.		12.90 in
MRP	976.0 in X <sub>T</sub>		9.76 in X <sub>T</sub>
	0.0 in Y <sub>T</sub>		0.0 in Y <sub>T</sub>
	400.0 in Z <sub>T</sub>		4.00 in Z <sub>T</sub>
S	2690.0 ft <sup>2</sup>		38.736 in <sup>2</sup>
X <sub>G3</sub>	_____		14.40 in X <sub>O</sub>
Y <sub>G1</sub>	_____		1.44 in Y <sub>O</sub>
Y <sub>G2</sub>	_____		1.94 in Y <sub>O</sub>
X <sub>WRC</sub>	1542.0 in X <sub>O</sub>		15.42 in X <sub>O</sub>
Y <sub>WRC</sub>	106.0 in Y <sub>O</sub>		1.06 in Y <sub>O</sub>

TABLE I.

TEST : IA43		DATE : August 1974	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. ft.)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	3.19 x 10 <sup>6</sup> /ft	418	120
0.80	1.90 x 10 <sup>6</sup> /ft	622	120
0.90	2.00 x 10 <sup>6</sup> /ft	710	120
0.98	2.05 x 10 <sup>6</sup> /ft	770	120
1.13	2.12 x 10 <sup>6</sup> /ft	850	120
1.20	2.12 x 10 <sup>6</sup> /ft	880	120
BALANCE UTILIZED: <u>LRC 839 A</u>			
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>880 lb</u>	<u>±0.05%</u>	<u>                    </u>
SF	<u>250 lb</u>	<u>±0.05%</u>	<u>                    </u>
AF	<u>125 lb</u>	<u>±0.05%</u>	<u>                    </u>
PM	<u>1600 lb</u>	<u>±0.05%</u>	<u>                    </u>
RM	<u>500 in-lb</u>	<u>±0.05%</u>	<u>                    </u>
YM	<u>500 in-lb</u>	<u>±0.05%</u>	<u>                    </u>
COMMENTS:			

TABLE II.

TEST : LARC 8 IPT (A3) (IA43) DATE : AUGUST, 1974

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD.			CONTROL DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							TEST RUN NUMBERS				
		$\alpha$	$\beta$	$\delta$	$\delta_{\alpha}$	$\delta_{\beta}$	$\delta_{\delta}$		0.6	0.8	0.9	0.98	1.13	1.2						
01	T <sub>4</sub> S <sub>7</sub> O <sub>3</sub>	A	0	0	0	0	0	006	005	004	003	002	001							
02	T <sub>4</sub> S <sub>8</sub> O <sub>2</sub>						4	010												
03	T <sub>4</sub> S <sub>6</sub> O <sub>2</sub>						3	013				011								
04	T <sub>4</sub> S <sub>3</sub> O <sub>2</sub>						4	017				015	014							
05	T <sub>4</sub> S <sub>2</sub> O <sub>2</sub>						4	021				020	019							
06	T <sub>4</sub> S <sub>7</sub> O <sub>2</sub>						6	027	026	025	024	023	022							
07		0	B				5	032		031	030	029	028							
08	T <sub>4</sub> S <sub>1</sub> O <sub>2</sub>	A	0				4	036		035		034	033							
09	T <sub>2</sub> S <sub>7</sub> O <sub>2</sub>						3	039		038		037								
10	T <sub>4</sub> S <sub>7</sub> O <sub>2</sub>						4			043	042	041	040							
11							4			047	046	045	044							
12							4			051	050	049	048							
13							4			055	054	053	052							
14							4			059	058	057	056							
15							4			063	062	061	060							
16	T <sub>4</sub> S <sub>7</sub> O <sub>2</sub>						5	068		067	066	065	064							
17							5	073		072	071	070	069							
18	T <sub>1</sub> S <sub>7</sub> O <sub>2</sub>						3	076		075		074								

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

MACH ALPHA  
IDVAR (1) IDVAR (2) NDV

$\alpha$  OR  $\beta$  SCHEDULES  $\alpha A: +10^\circ$  to  $-10^\circ$   $\Delta\alpha = 2^\circ$   
 $\beta B: +10^\circ$  to  $-10^\circ$   $\Delta\beta = 2^\circ$

COEFFICIENTS

Note: See page 24 for dataset coefficient schedules.

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TABLE II. (Continued)

TEST: LARC 8 TPT 693 (IA43)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: AUGUST, 1974							
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		$\alpha$	$\beta$	$\delta E_x$	$\delta E_y$	$\delta R$		$\delta S$	$\delta B$	0.6	0.8	0.9	0.98	1.13	1.2				
(1) HC019	T <sub>4</sub> S <sub>7</sub>	A	O	N/A	N/A	N/A	6	082	081	077	078	079	080						
20	T <sub>4</sub>	A	O				6	089	087	086	085	084	083						
21	T <sub>4</sub>	C	O				1	090											
22		C	O				1		091										
23							1			092									
24							1				094								
25							1					095							
26							1			096									
27							1												
28	T <sub>4</sub>						1	097											
29	O <sub>2</sub> T <sub>4</sub> S <sub>7</sub>	C	O	O	O	O	1	098											
30							1		099										
31							1			100									
32							1												
33							1				102								
34							1			103									
35							1		104										
(1) HC036	O <sub>2</sub> T <sub>4</sub> S <sub>7</sub>						1	105											

Base pressure data were bad for tunnel run numbers 093-105. There are no A datasets corresponding to RHCC29-036.

TEST RUN NUMBERS	7	13	19	25	31	37	43	49	55	61	67	75.76
MACH.												
IDVAR (1)												
IDVAR (2)												
NDV												

$\alpha$  OR  $\beta$  SCHEDULES  $\alpha A: +10$  to  $-10^\circ$ ,  $\Delta\alpha = 2^\circ$   
 $\alpha C: +2$  to  $-2^\circ$ ,  $\Delta\alpha = 1^\circ$

Note: See page 24 for dataset coefficient schedules.



TABLE II. (Concluded)

( )\* Dataset Coefficient Schedules:

RHC---Datasets: CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D

AHC---Datasets:

O + T + S CNF, CLMF, CAF, CNBO, CNBF, CABO, CABET,  
CABSRB, CLMBO, CLMBF

T + S CN, CLM, CA, CAF, CABET, CABSRB

T CN, CLM, CA, CAF, CABET

Note: There are no A data for datasets 029-036. Base  
pressure data for tunnel runs 098-105 were bad.

RHCM--Datasets: CLWI, CLWC, CMWG, CNW, XCPW, CBW, CTW  
(Datasets 02-16)

\*\*CLWI, CLWO, CNW, YCPW, CBW  
(Datasets 17, 18, 29-36)

\*\*Note: Instrumentation problems resulted in no usable CMWG,  
CTW or XCPW data for Datasets 17, 18, and 29-36.

TABLE III. - MODEL DIMENSIONAL DATA.

MODEL COMPONENT: ATTACH STRUCTURE - AT<sub>28</sub>

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (LH and RH), 2 members.

MODEL SCALE: 0.010

MODEL DRAWING NO.: \_\_\_\_\_

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X <sub>0</sub>	<u>1317.0</u>	<u>13.17</u>
		Y <sub>0</sub>	<u>- 96.50 (LH)</u>	<u>- 0.965</u>
			<u>96.50 (RH)</u>	<u>0.965</u>
		Z <sub>0</sub>	<u>267.50</u>	<u>2.675</u>
		X <sub>T</sub>	<u>2058.0</u>	<u>20.580</u>
		Y <sub>T</sub>	<u>- 125.68 (LH)</u>	<u>- 1.257</u>
			<u>125.68 (RH)</u>	<u>1.257</u>
		Z <sub>T</sub>	<u>515.5</u>	<u>5.155</u>
	#2	X <sub>0</sub>	<u>1317.00</u>	<u>13.170</u>
		Y <sub>0</sub>	<u>- 96.50 (LH)</u>	<u>- 9.650</u>
			<u>96.50 (RH)</u>	<u>9.650</u>
		Z <sub>0</sub>	<u>267.50</u>	<u>2.675</u>
		X <sub>T</sub>	<u>1872.0</u>	<u>18.720</u>
		Y <sub>T</sub>	<u>- 125.68 (LH)</u>	<u>- 1.257</u>
			<u>125.68 (RH)</u>	<u>1.257</u>
		Z <sub>T</sub>	<u>504.5</u>	<u>5.045</u>
Diameter, In.	#1		<u>11.5</u>	<u>0.115</u>
	#2		<u>15.5</u>	<u>0.155</u>

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT 29

GENERAL DESCRIPTION: Right-hand umbilical fairing to ET cross member attach structure (1 member).

MODEL SCALE: 0.010

MODEL DRAWING NO.: \_\_\_\_\_

DRAWING NO.: VL78-000062B, Martin-Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Umbilical fairing attach point:	X <sub>O</sub>	<u>1317.00</u>	<u>13.170</u>
	Y <sub>O</sub>	<u>66.316</u>	<u>0.663</u>
	Z <sub>O</sub>	<u>247.82</u>	<u>2.478</u>
	X <sub>T</sub>	<u>2058.683</u>	<u>20.587</u>
	Y <sub>T</sub>	<u>66.316</u>	<u>0.663</u>
	Z <sub>T</sub>	<u>583.683</u>	<u>5.837</u>
ET attach point:	X <sub>T</sub>	<u>2058.00</u>	<u>20.580</u>
	Y <sub>T</sub>	<u>- 12.00</u>	<u>- 0.120</u>
	Z <sub>T</sub>	<u>568.25</u>	<u>5.683</u>
	X <sub>O</sub>	<u>1317.00</u>	<u>13.170</u>
	Y <sub>O</sub>	<u>- 12.00</u>	<u>- 0.120</u>
	Z <sub>O</sub>	<u>60.75</u>	<u>0.608</u>
Attach structure dia., in.		<u>4.5</u>	<u>0.045</u>

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - .AT30

GENERAL DESCRIPTION: Forward .SRB to .ET attach structure (left-hand and right-hand).

MODEL SCALE: 0.010

DRAWING NO.: VL78-000066, Martin Marietta 826 00204300

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
ATTACH POINT	$X_T$	985.675	9.857
	$Y_T$	-172.50 (LH)	- 1.725
		172.50 (RH)	1.725
	$Z_T$	00	00
	$X_S$	442.675	4.427
	$Y_S$	80.00	0.800
	$Z_S$	00	00
	$X_O$	244.675	2.447
	$Y_O$	-184.5	- 1.845
		184.5	1.845
	$Z_O$	00	00

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT<sub>31</sub>

GENERAL DESCRIPTION: Rear ET to .SRB attach structure (LH and RH) (3 members)

MODEL SCALE: 0.010

MODEL DRAWING: \_\_\_\_\_

DRAWING NO.: VL78-000063, VL78-000062B, VL78-000066

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE		
	#1	X <sub>T</sub>	<u>2058.00</u>	<u>20.580</u>		
		Y <sub>T</sub>	<u>- 171.50</u>	<u>- 1.715</u>	(LH)	
			<u>171.50</u>	<u>1.715</u>	(RH)	
		Z <sub>T</sub>	<u>457.00</u>	<u>4.570</u>		
		X <sub>S</sub>	<u>1511.00</u>	<u>15.110</u>		
		Y <sub>S</sub>	<u>53.24</u>	<u>0.532</u>		
		Z <sub>S</sub>	<u>57.00</u>	<u>0.570</u>		
		#2	X <sub>T</sub>	<u>2058.00</u>	<u>20.580</u>	
			Y <sub>T</sub>	<u>- 163.85</u>	<u>- 1.639</u>	
	Z <sub>T</sub>		<u>449.81</u>	<u>4.498</u>		
	X <sub>S</sub>		<u>1511.00</u>	<u>15.110</u>		
	Y <sub>S</sub>		<u>76.56</u>	<u>0.766</u>		
	Z <sub>S</sub>		<u>15.73</u>	<u>0.157</u>		
	#3	X <sub>T</sub>	<u>2058.00</u>	<u>20.580</u>		
		Y <sub>T</sub>	<u>- 161.72</u>	<u>- 1.617</u>		
		Z <sub>T</sub>	<u>343.00</u>	<u>3.430</u>		
		X <sub>S</sub>	<u>1511.00</u>	<u>15.11</u>		
		Y <sub>S</sub>	<u>53.24</u>	<u>0.532</u>		
		Z <sub>S</sub>	<u>- 57.00</u>	<u>- 0.570</u>		

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TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT32

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.010

MODEL DRAWING NO.: \_\_\_\_\_

DRAWING NO.: VL78-000062B, Martin Marietta 8260020914

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Member #1	$X_o$	<u>388.15</u>	<u>3.882</u>
	$Y_o$	<u>0</u>	<u>0</u>
Attach point on Orbiter ( $Z_T = 614$ )	$Z_o$	<u>LWR ML</u>	<u>LWR ML</u>
	$X_T$	<u>1129.9</u>	<u>11.299</u>
	$Y_T$	<u>46.50</u>	<u>0.465</u>
(Attach point on tank)	$Z_T$	<u>562.58</u>	<u>5.626</u>
Member #2	$X_T$	<u>388.15</u>	<u>3.882</u>
	$Y_T$	<u>0</u>	<u>0</u>
	$Z_T$	<u>LWR ML</u>	<u>LWR ML</u>
	$X_o$	<u>1129.9</u>	<u>11.299</u>
	$Y_o$	<u>- 46.50</u>	<u>- 0.465</u>
	$Z_o$	<u>562.58</u>	<u>5.626</u>
Attach structure dia., in.		<u>6.0</u>	<u>0.060</u>

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TABLE III (CONT'D)

MODEL COMPONENT : BODY - B<sub>26</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B<sub>26</sub> is identical to B<sub>24</sub> except underside of fuselage has been  
refaired to accept W<sub>116</sub>.

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00147, RELEASE 12

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

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: Fwd Sta. X <sub>0</sub> =238), In.	1290.3	12.903
Length (OML: Fwd Sta. X <sub>0</sub> =235), In.	<u>1293.3</u>	<u>12.933</u>
Max Width (@ X <sub>0</sub> = 1528.3), In.	<u>264.0</u>	<u>2.640</u>
Max Depth (@ X <sub>0</sub> = 1464), In.	<u>250.0</u>	<u>2.500</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - Ft <sup>2</sup>	_____	_____
Max. Cross-Sectional	<u>340.88</u>	<u>0.0341</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III (CONT'D)

MODEL COMPONENT : CANOPY - C<sub>9</sub>

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage B26.

MODEL SCALE: 0.010

MODEL DRAWING: SS-A00147, Rel. 12

DRAWING NUMBER : VI70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_0 = 434.643$ to $578$ )	<u>143.357</u>	<u>1.434</u>
Max Width (@ $X_0 = 513.127$ )	<u>152.412</u>	<u>1.524</u>
Max Depth (@ $X_0 = 485.0$ )	<u>25.000</u>	<u>0.250</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>



TABLE III (CONT'D)

MODEL COMPONENT: ELEVON - E<sub>26</sub>

GENERAL DESCRIPTION: 6.0 In. F.S. gaps machined into E<sub>26</sub> elevon. Flipper doors, centerbody pieces, and tipseals are not simulated. (Data are for one side.)

MODEL SCALE: 0.010

DRAWING NUMBER: Not available.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area- Ft <sup>2</sup>	<u>210.0</u>	<u>0.021</u>
Span (equivalent), In.	<u>349.2</u>	<u>3.492</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>1.180</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>0.552</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>-10.056</u>
Hingeline (Product of Area & $\bar{c}$ )	<u>0.00</u>	<u>0.00</u>
Area Moment ( <del>Normal to hinge line</del> ), Ft <sup>3</sup>	<u>1587.25</u>	<u>0.00159</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>0.907</u>

TABLE III (CONT'D)

MODEL COMPONENT : BODY FLAP - F<sub>10</sub>

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline  
located at X<sub>0</sub> = 1532, Z<sub>0</sub> = 287.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000140C, VL70-355114

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X <sub>0</sub> =1525.5 to 1613), In.	<u>87.50</u>	<u>0.875</u>
Max Width (@ L.E., X <sub>0</sub> = 1525.5), In.	<u>256.00</u>	<u>2.560</u>
Max Depth (@ X <sub>0</sub> = 1532), In.	<u>19.798</u>	<u>0.198</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area - Ft <sup>2</sup>	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional (@H.L.)	<u>35.196</u>	<u>0.0035</u>
Planform	<u>185.00</u>	<u>0.0135</u>
Wetted	<u>                    </u>	<u>                    </u>
Base (@ X <sub>0</sub> = 1613)	<u>4.89</u>	<u>0.00049</u>

TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE - FL<sub>10</sub>

GENERAL DESCRIPTION: LH<sub>2</sub> feedline on upper left-hand side of T<sub>28</sub>.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>2071.5</u>	<u>20.715</u>
	Y <sub>T</sub>	<u>- 70.0</u>	<u>- 0.70</u>
	Z <sub>T</sub>	<u>573.934</u>	<u>5.739</u>
Trailing edge at:	X <sub>T</sub>	<u>2081.8</u>	<u>20.818</u>
	Y <sub>T</sub>	<u>- 70.0</u>	<u>- 0.700</u>
	Z <sub>T</sub>	<u>584.059</u>	<u>5.841</u>
Diameter of line (17.0 I.D.)		<u>18.160</u>	<u>0.182</u>

TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE - FL<sub>11</sub>

GENERAL DESCRIPTION: LO<sub>2</sub> feedline on upper right-hand of T<sub>28</sub>.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>1000.667</u>	<u>10.007</u>
	Y <sub>T</sub>	<u>70.00</u>	<u>0.700</u>
	Z <sub>T</sub>	<u>150.519</u>	<u>1.505</u>
Trailing edge at:	X <sub>T</sub>	<u>2071.5</u>	<u>20.715</u>
	Y <sub>T</sub>	<u>70.000</u>	<u>0.700</u>
	Z <sub>T</sub>	<u>573.934</u>	<u>5.739</u>
Diameter of line (17.0 I.D.)		<u>18.16 O.D.</u>	<u>0.182</u>

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TABLE III (CONT'D)

MODEL COMPONENT: FAIRING - FR<sub>10</sub>

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter  
attach structure.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin-Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at	X <sub>T</sub>	<u>2052.0</u>	<u>20.520</u>
Length		<u>193.00</u>	<u>1.930</u>
.Width		<u>15.00</u>	<u>0.150</u>

TABLE III (CONT'D)

MODEL COMPONENT : OMS POD - M<sub>1</sub>

GENERAL DESCRIPTION : Preliminary IML version of short OMS pod  
(First used on 0.015 scale model 36-0 for test No. JA83).

MODEL SCALE: 0.010

DRAWING NUMBER : VI70-008157

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0=1311$ ) In.	<u>254.0</u>	<u>2.540</u>
Max Width (@ $X_0 = 1511$ ) In.	<u>135.6</u>	<u>1.356</u>
Max Depth (@ $X_0 = 1511$ ) In.	<u>73.6</u>	<u>0.736</u>
Fineness Ratio	<u>2.541</u>	<u>2.541</u>
Area - Ft <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>54.507</u>	<u>0.00545</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

TABLE III (CONT'D)

MODEL COMPONENT : OMS POD - M<sub>16</sub>

GENERAL DESCRIPTION : Configuration 140C - orbiter OMS Pod -  
short pod.

MODEL SCALE: 0.010

DRAWING NUMBER : VI 70-008401. -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_o = 1310.5$ )	<u>258.50</u>	<u>2.585</u>
Max Width (@ $X_o = 1511$ ), In.	<u>136.8</u>	<u>1.368</u>
Max Depth (@ $X_o = 1511$ ), In.	<u>74.70</u>	<u>0.747</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>58.864</u>	<u>0.00589</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

TABLE III (CONT'D)

MODEL COMPONENT: OMS NOZZLES - N 28

GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS Nozzles.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000140A(Location), SS-A00106, Rel. 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	_____	_____
Throat to Exit Plane	_____	_____
Diameter - In.		
Exit	_____	_____
Throat	_____	_____
Inlet	_____	_____
Area - ft <sup>2</sup>		
Exit	_____	_____
Throat	_____	_____
Gimbal Point (Station) - In.		
Left <del>Master</del> Nozzle		
X <sub>0</sub>	<u>1518.0</u>	<u>15.180</u>
Y <sub>0</sub>	<u>88.0</u>	<u>0.880</u>
Z <sub>0</sub>	<u>492.0</u>	<u>4.920</u>
Right <del>Master</del> Nozzles		
X <sub>0</sub>	<u>1518.00</u>	<u>15.180</u>
Y <sub>0</sub>	<u>88.0</u>	<u>0.880</u>
Z <sub>0</sub>	<u>492.0</u>	<u>4.920</u>
Null Position - Deg.	PITCH	YAW
Left <del>Master</del> Nozzle (OUTB'D)		13°17' OUTBOARD
Pitch (Pitch 15°49'; Yaw 12°17')	<u>+ 8</u>	2°30' INBOARD
Yaw	_____	_____
Right <del>Master</del> Nozzle		13°17' OUTB'D
Pitch Null: 15°49'	<u>+ 8</u>	2°17' INB'D
Yaw 12°17' OUTB'D	<u>+ 8</u>	13°17' OUTB'D
	_____	2°17' INB'D



TABLE III (CONT'D)

MODEL COMPONENT: BSRM NOZZLE - N86

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.010

DRAWING NO.: VL70-000066

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Diameter, $D_{ex}$ - In. (I.D.)	<u>144.29</u>	<u>1.443</u>
Diameter $D_{ex}$ - In. (O.D.)	<u>146.79</u>	<u>1.468</u>
Diameter DT - In.	<u>          </u>	<u>          </u>
Diameter $D_{in}$ - In.	<u>          </u>	<u>          </u>
Area - Ft <sup>2</sup>		
Max. Cross-sectional (I.D.)	<u>113.553</u>	<u>1.136</u>
Gimbal Origin:		
Left Nozzle		
$X_0$	<u>1902.6</u>	<u>19.026</u>
$Y_0$	<u>- 250.50</u>	<u>- 2.505</u>
$Z_0$	<u>400.0</u>	<u>4.000</u>
Right Nozzle		
$X_0$	<u>1902.6</u>	<u>19.026</u>
$Y_0$	<u>250.5</u>	<u>2.505</u>
$Z_0$	<u>400.0</u>	<u>4.000</u>
Null Position - Deg.		
Left nozzle gimbal	<u>± 8</u>	<u>± 8</u>
Right nozzle gimbal	<u>± 8</u>	<u>± 8</u>

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TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS<sub>1</sub>

GENERAL DESCRIPTION: Electrical tunnel fairing on top of each SRB.

MODEL SCALE: 0.010

DRAWING NO.: None

DIMENSIONS (DATA FOR 1 OF 2):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X <sub>B</sub>	<u>467.00</u>	<u>4.670</u>
Centerline of tunnel Y <sub>B</sub>	<u>0</u>	<u>0</u>
Trailing edge at X <sub>B</sub>	<u>1820.0</u>	<u>18.200</u>
Height	<u>3.00</u>	<u>0.030</u>
Width	<u>6.00</u>	<u>0.060</u>
Leading edge, deg.	<u>72</u>	<u>72</u>

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS<sub>2</sub>

GENERAL DESCRIPTION: SRB/ET attach ring

MODEL SCALE: 0.010

DRAWING NO.: VL77-000036A

DIMENSIONS (DATA FOR 1 OF 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Centerline at X <sub>T</sub>	<u>1515.0</u>	<u>15.150</u>
Width	<u>10.0</u>	<u>0.100</u>
Height	<u>10.0</u>	<u>0.100</u>

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS<sub>3</sub>

GENERAL DESCRIPTION: Separation rocket fairing on each SRB nozzle shroud located 30° inboard from top centerline.

MODEL SCALE: 0.010

DRAWING NO.: VL77-000036A

DIMENSIONS (DATA FOR 1 OF 2):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X <sub>B</sub>	<u>1796.0</u>	<u>17.960</u>
Trailing edge at X <sub>B</sub>	<u>1889.0</u>	<u>18.890</u>

Radial location is 30° inboard from top centerline.

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TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS<sub>4</sub>

GENERAL DESCRIPTION: AFT STRUCTURAL RING. Ring stiffener located at aft end of solid rocket booster.

MODEL SCALE: 0.010

DRAWING NO.: NONE

## DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.	<u>8.0</u>	<u>0.080</u>
Width, In.	<u>6.0</u>	<u>0.060</u>
Location of centerline, In. X <sub>B</sub>	<u>1833.7</u>	<u>18.337</u>

TABLE III (CONT'D)

MODEL COMPONENT: SRB AFT SEPARATION MOTOR FAIRING - PS5

GENERAL DESCRIPTION: Fairing over aft separation motors on SRB.

Fairing covers four separation motors.

MODEL SCALE: 0.010

DRAWING NO.: SS-A01184

DIMENSIONS	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>278.0</u>	<u>2.78</u>
Max. thickness	<u>14.0</u>	<u>.14</u>
Depth		
from SRB mainbody	<u>49.838</u>	<u>.498</u>
from skirt	<u>19.0</u>	<u>.190</u>
Leading edge of fairing at $X_s$	<u>1547.2</u>	<u>15.472</u>
Leading edge sweep angle	<u>75°</u>	<u>75°</u>

TABLE III (CONT'D)

MODEL COMPONENT: TIEDOWN STRUTS - PS<sub>6</sub>

GENERAL DESCRIPTION: 4 Tiedown struts on SRB skirt.

MODEL SCALE: 0.010

DRAWING NO.: SS-A01184

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length:	<u>64.0</u>	<u>.64</u>
Max. thickness	<u>14.0</u>	<u>.14</u>
Max. depth	<u>8.0</u>	<u>.08</u>
Leading edge of fairing at X <sub>s</sub>	<u>1861.2</u>	<u>18.612</u>

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL LINE - PT22

GENERAL DESCRIPTION: Left-hand electrical conduit line on T28 .

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>1084.333</u>	<u>10.843</u>
	Y <sub>T</sub>	<u>- 99.591</u>	<u>- 0.996</u>
	Z <sub>T</sub>	<u>- 139.620</u>	<u>- 1.396</u>
Trailing edge at:	X <sub>T</sub>	<u>2058.000</u>	<u>20.580</u>
	Y <sub>T</sub>	<u>- 99.591</u>	<u>- 0.996</u>
	Z <sub>T</sub>	<u>- 139.620</u>	<u>- 1.396</u>
Conduit size:		<u>2.0 x 6.0</u>	<u>0.020 x 0.060</u>
Centerline of line located radially at $\theta = 35.5^\circ$			



TABLE III (CONT'D)

MODEL COMPONENT: LO<sub>2</sub> RECIRCULATION LINE - PT<sub>23</sub>

GENERAL DESCRIPTION: LO<sub>2</sub> recirculation line on right-hand upper side of T<sub>28</sub>.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>1040.667</u>	<u>10.407</u>
	Y <sub>T</sub>	<u>94.169</u>	<u>0.942</u>
	Z <sub>T</sub>	<u>540.934</u>	<u>5.409</u>
Trailing edge at:	X <sub>T</sub>	<u>2062.920</u>	<u>20.629</u>
	Y <sub>T</sub>	<u>70.00</u>	<u>0.700</u>
	Z <sub>T</sub>	<u>573.934</u>	<u>5.739</u>
Diameter of line		<u>4.0</u>	<u>0.040</u>
Centerline of lines located radially at $\phi = 33^{\circ}45'$ (Right of TDC looking forward.)			

TABLE III (CONT'D)

MODEL COMPONENT: LH<sub>2</sub> RECIRCULATION LINE - PT<sub>24</sub>

GENERAL DESCRIPTION: LH<sub>2</sub> recirculation line on T<sub>28</sub>.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>1040.667</u>	<u>10.407</u>
	Y <sub>T</sub>	<u>- 94.169</u>	<u>- 0.942</u>
	Z <sub>T</sub>	<u>540.934</u>	<u>5.409</u>
Trailing edge at:	X <sub>T</sub>	<u>2062.920</u>	<u>20.629</u>
	Y <sub>T</sub>	<u>- 70.000</u>	<u>- 0.700</u>
	Z <sub>T</sub>	<u>573.934</u>	<u>5.739</u>
Diameter of line		<u>4.0</u>	<u></u>

Centerline of line located radially at  $\phi = 33^{\circ}45'$ .

(Left of TDL looking forward).

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL LINE - PT<sub>25</sub>

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T<sub>28</sub> with LH<sub>2</sub> pressure sensor line and LO<sub>2</sub> vent valve actuator line.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>1084.333</u>	<u>10.843</u>
	Y <sub>T</sub>	<u>99.591</u>	<u>0.996</u>
	Z <sub>T</sub>	<u>139.620</u>	<u>1.396</u>
Trailing edge at:	X <sub>T</sub>	<u>2058.00</u>	<u>20.580</u>
	Y <sub>T</sub>	<u>99.591</u>	<u>0.996</u>
	Z <sub>T</sub>	<u>139.620</u>	<u>1.396</u>
Conduit size		<u>2.0 x 6.0</u>	<u>0.020 x 0.060</u>

Centerline of line located radially at  $\theta = 35.5^\circ$

TABLE III (CONT'D)

MODEL COMPONENT: LO<sub>2</sub> PRESSURE LINE - PT<sub>26</sub>

GENERAL DESCRIPTION: LO<sub>2</sub> pressure line on the T<sub>28</sub>.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	<u>360.733</u>	<u>3.607</u>
	Y <sub>T</sub>	<u>15.145</u>	<u>0.151</u>
	Z <sub>T</sub>	<u>407.718</u>	<u>4.077</u>
Trailing edge at:	X <sub>T</sub>	<u>2083.5</u>	<u>20.835</u>
	Y <sub>T</sub>	<u>63.25</u>	<u>0.633</u>
	Z <sub>T</sub>	<u>609.00</u>	<u>6.090</u>
Line diameter		<u>2.0</u>	<u>0.020</u>

Centerline of line located radially at  $\phi = 27^\circ$

TABLE III (CONT'D)

MODEL COMPONENT: RUDDER - R<sub>5</sub>

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

MODEL SCALE: 0.010

DRAWING NUMBER: VI70-000095, -000146B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>100.15</u>	<u>0.0010</u>
Span (equivalent), In.	<u>201.0</u>	<u>2.010</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>0.916</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>0.508</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>        </u>	<u>        </u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Product of Area and $\bar{c}$ ) (Normal to hinge line), Ft <sup>3</sup>	<u>610.92</u>	<u>0.00061</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>0.732</u>

TABLE III (CONT'D)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S<sub>1g</sub>

GENERAL DESCRIPTION : Configuration MCR500. Data for 1 of 2 sides.

MODEL SCALE : 0.010

DRAWING NUMBER : VL77-000066

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	<u>1989.4</u>	<u>19.894</u>
Max Width (Tank Dia.), In.	<u>146.0</u>	<u>1.460</u>
Max Depth (Aft Shroud), In.	<u>192.0</u>	<u>1.920</u>
Fineness Ratio	<u>9.068</u>	<u>9.068</u>
Area - Ft <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>201.062</u>	<u>0.0201</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>
W.P. of BSRM Centerline (Z <sub>T</sub> ), In.	<u>400.00</u>	<u>4.000</u>
FS of BSRM Nozzle (X <sub>T</sub> ), In.	<u>743.00</u>	<u>7.430</u>

TABLE III (CONT'D)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

MODEL SCALE: 0.010

DRAWING NUMBER : VL72-000143D, VL77-000066

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	<u>1789.40</u>	<u>17.894</u>
Max Width (Tank Dia., In.)	<u>146.0</u>	<u>1.460</u>
Max Depth (Aft shroud Dia.), In.	<u>192.0</u>	<u>1.920</u>
Fineness Ratio	<u>9.3198</u>	<u>9.3198</u>
Area - Ft <sup>2</sup>	_____	_____
Max. Cross-Sectional	<u>201.062</u>	<u>0.0201</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____
WP of BSRM centerline (Z <sub>T</sub> )	400.0	4.00
FS of BSRM nose (X <sub>T</sub> )	743.0	7.430
BP of BSRM centerline (Y <sub>T</sub> )	250.5	2.505

TABLE III (CONT'D)

MODEL COMPONENT : EXTERNAL TANK - T28

GENERAL DESCRIPTION : \_\_\_\_\_

MODEL SCALE: 0.010

DRAWING NUMBER : VL72-000143D, VL78-000063  
 (Dimensions are to tank structural OML, TPS not included)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length, In.	<u>1844.275</u>	<u>18.443</u>
Max. Wet Dia., In.	<u>331.0</u>	<u>3.310</u>
Max Depth	_____	_____
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft <sup>2</sup>	_____	_____
Max. Cross-Sectional	<u>594.678</u>	<u>0.059</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____



TABLE III (CONT'D)

MODEL COMPONENT: VERTICAL - V<sub>8</sub>

GENERAL DESCRIPTION: Configuration 140A/B orbiter vertical tail

MODEL SCALE: 0.010

MODEL DRAWING: SS-A00148, Release 6

DRAWING NUMBER: VL70-000146A

DIMENSIONS:

FULL SCALE

MODEL SCALE

TOTAL DATA

Area (Theo) - Ft <sup>2</sup>	<u>413.253</u>	<u>0.041</u>
Planform	<u>315.720</u>	<u>3.157</u>
Span (Theo) - In.	<u>1.675</u>	<u>1.675</u>
Aspect Ratio	<u>0.507</u>	<u>0.507</u>
Rate of Taper	<u>0.404</u>	<u>0.404</u>
Taper Ratio		
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>2.684</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.085</u>
MAC	<u>199.808</u>	<u>1.998</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>14.635</u>
W.P. of .25 MAC	<u>635.522</u>	<u>6.355</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.0</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.02</u>
Void Area	<u>13.17</u>	<u>0.0013</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III (CONL'D)

MODEL COMPONENT: WING-W<sub>116</sub>  
 GENERAL DESCRIPTION: Configuration 4  
 NOTE: (Identical to Wing<sub>11</sub>, except airfoil thickness. Dihedral angle is  
 along trailing edge of wing.)

MODEL SCALE: 0.010

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft<sup>2</sup>

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft<sup>2</sup>

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip  $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root  $\frac{b}{2} =$

Tip  $\frac{b}{2} =$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area ft<sup>2</sup>

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

**Notes**

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

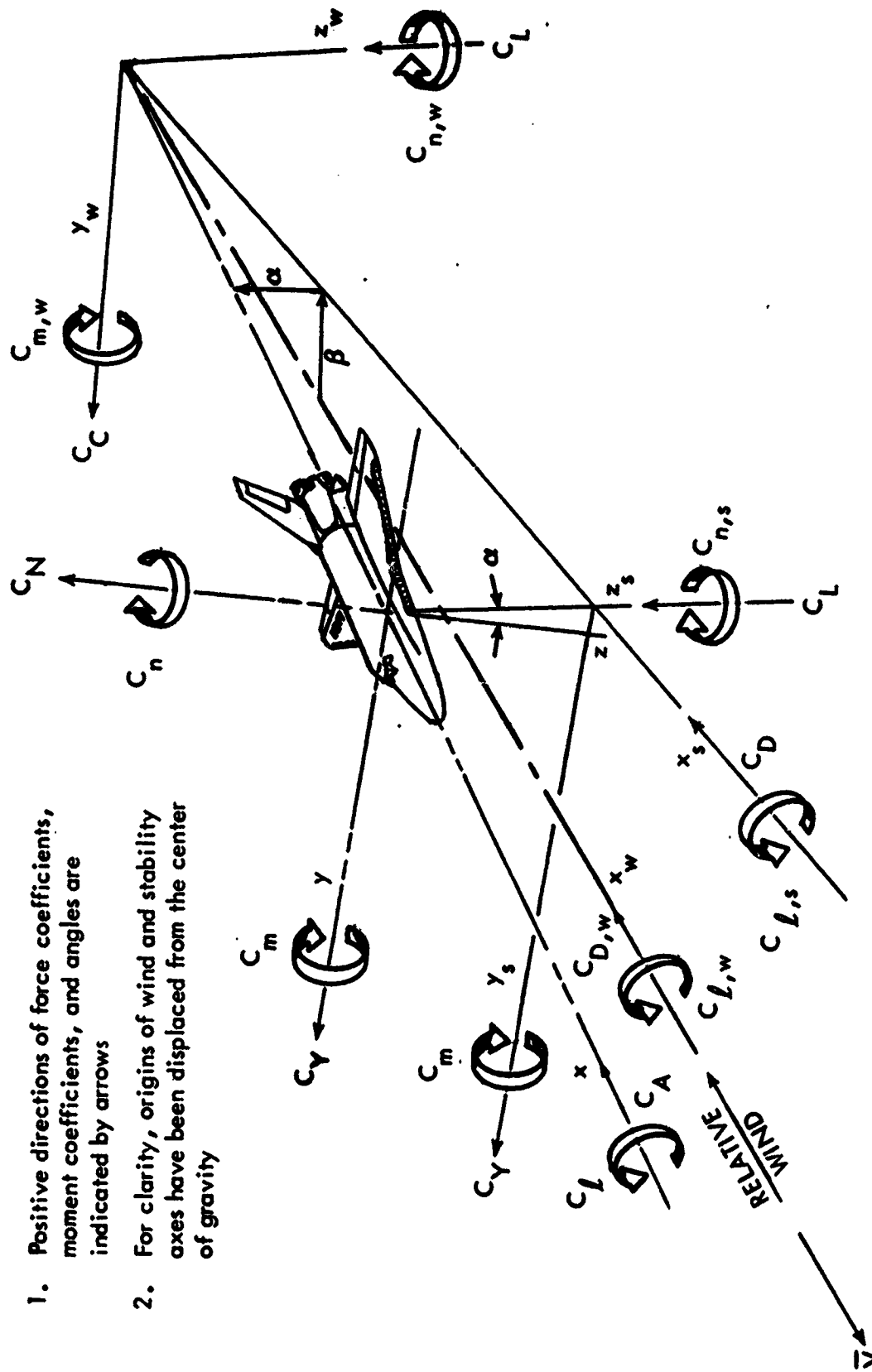
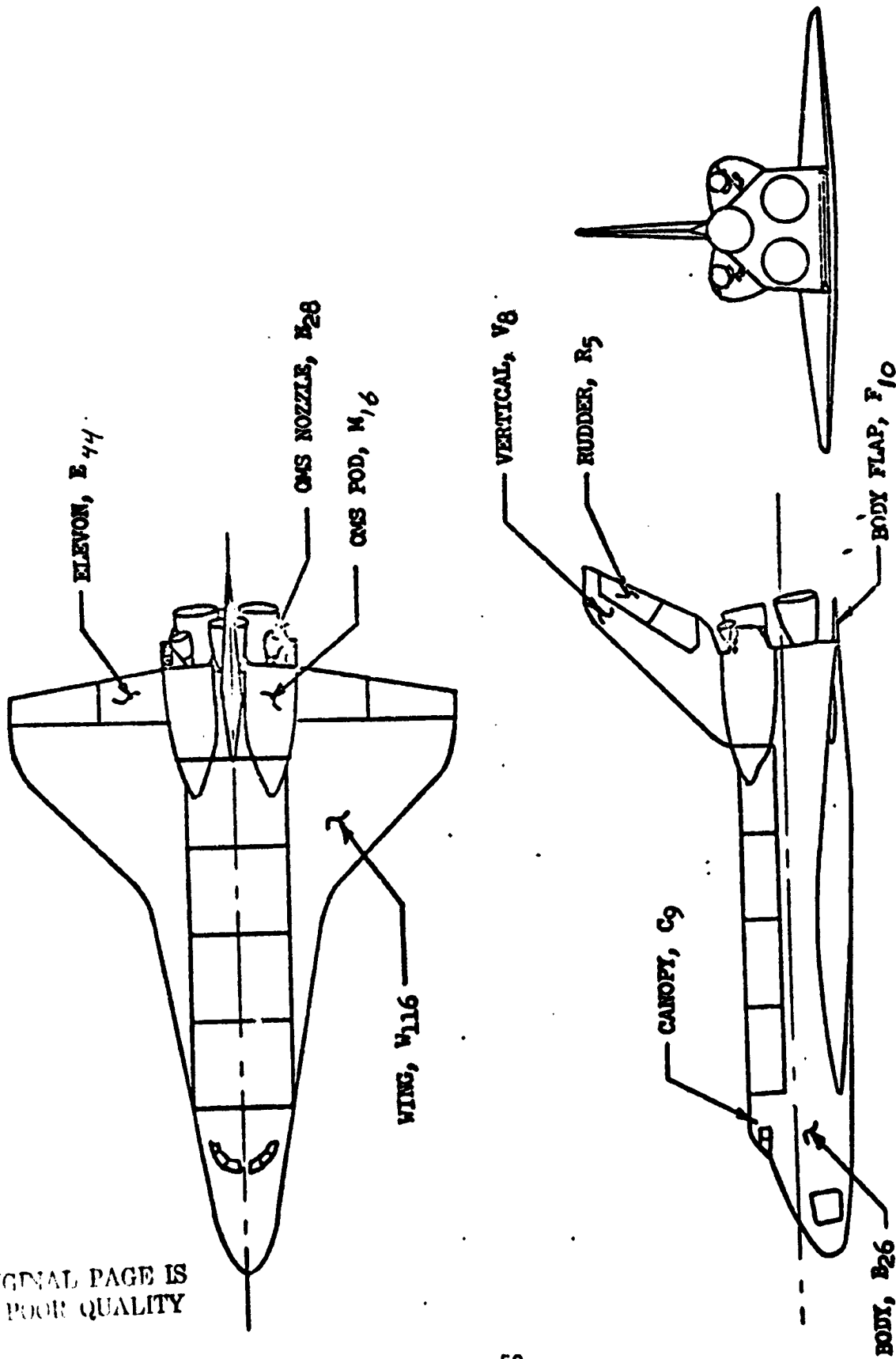


Figure 1. - Axis Systems.

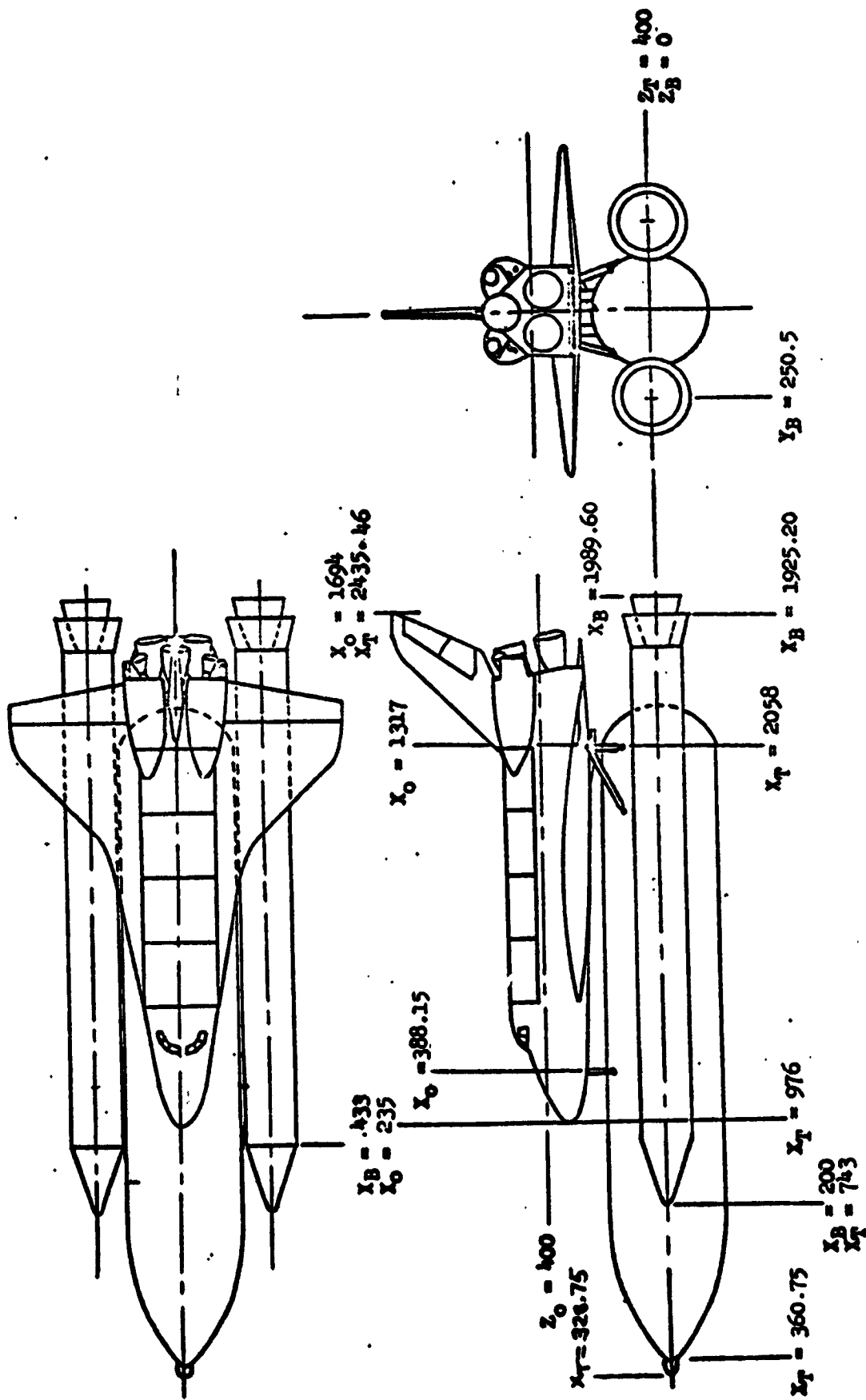
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a. Orbiter Three View

Figure 2. - Model Sketches.

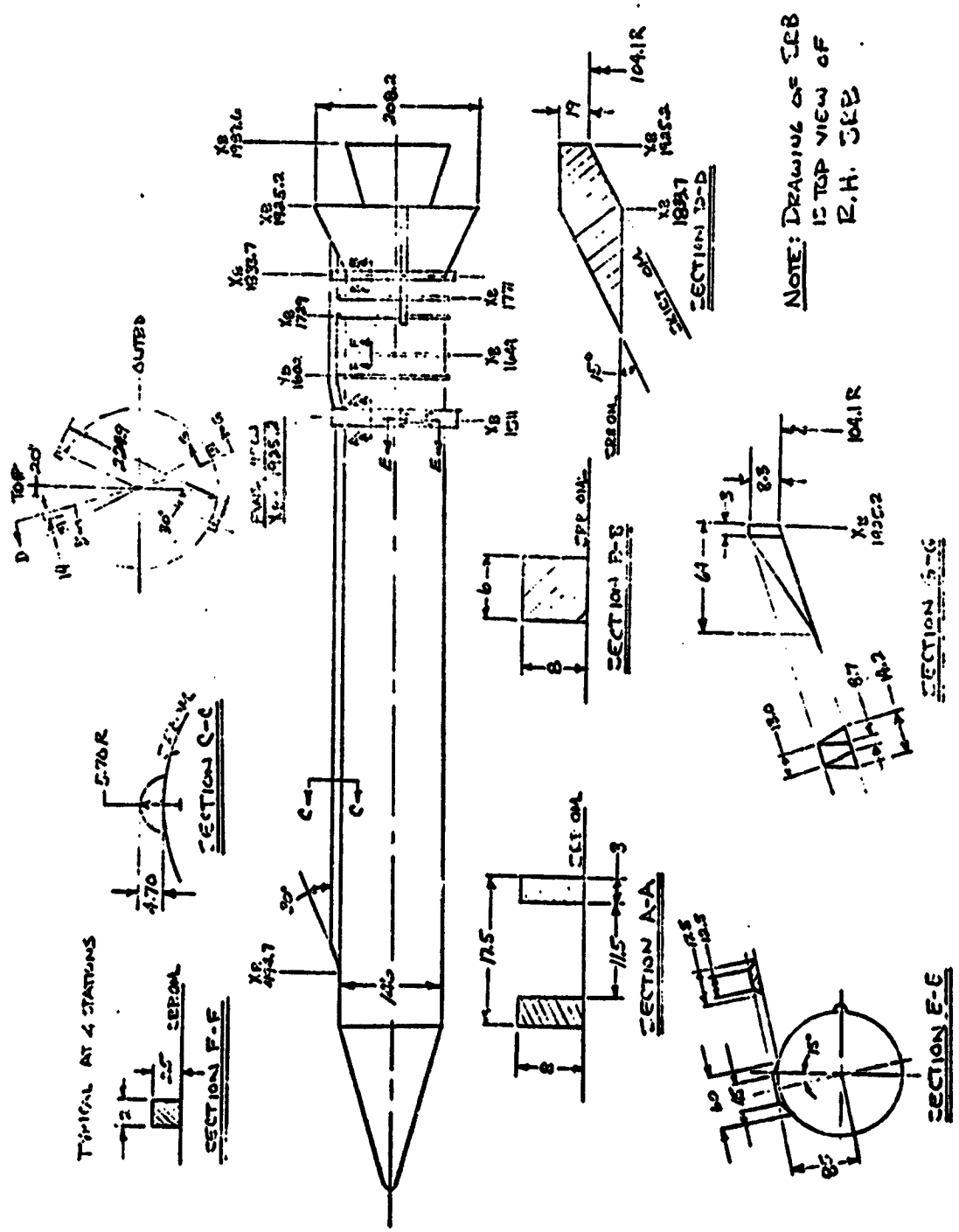


6C

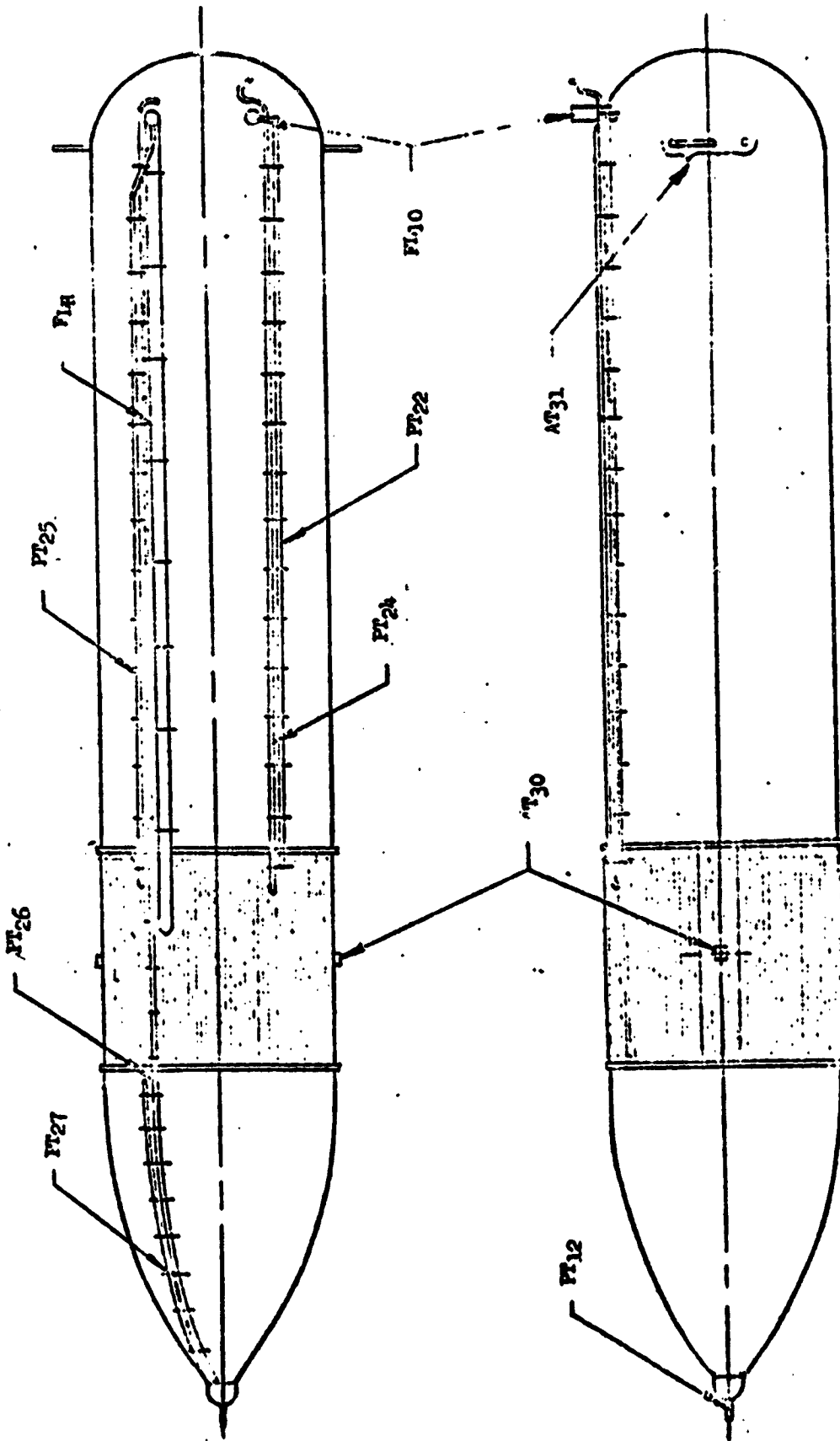
b. Mated Vehicle

Figure 2. - Continued.

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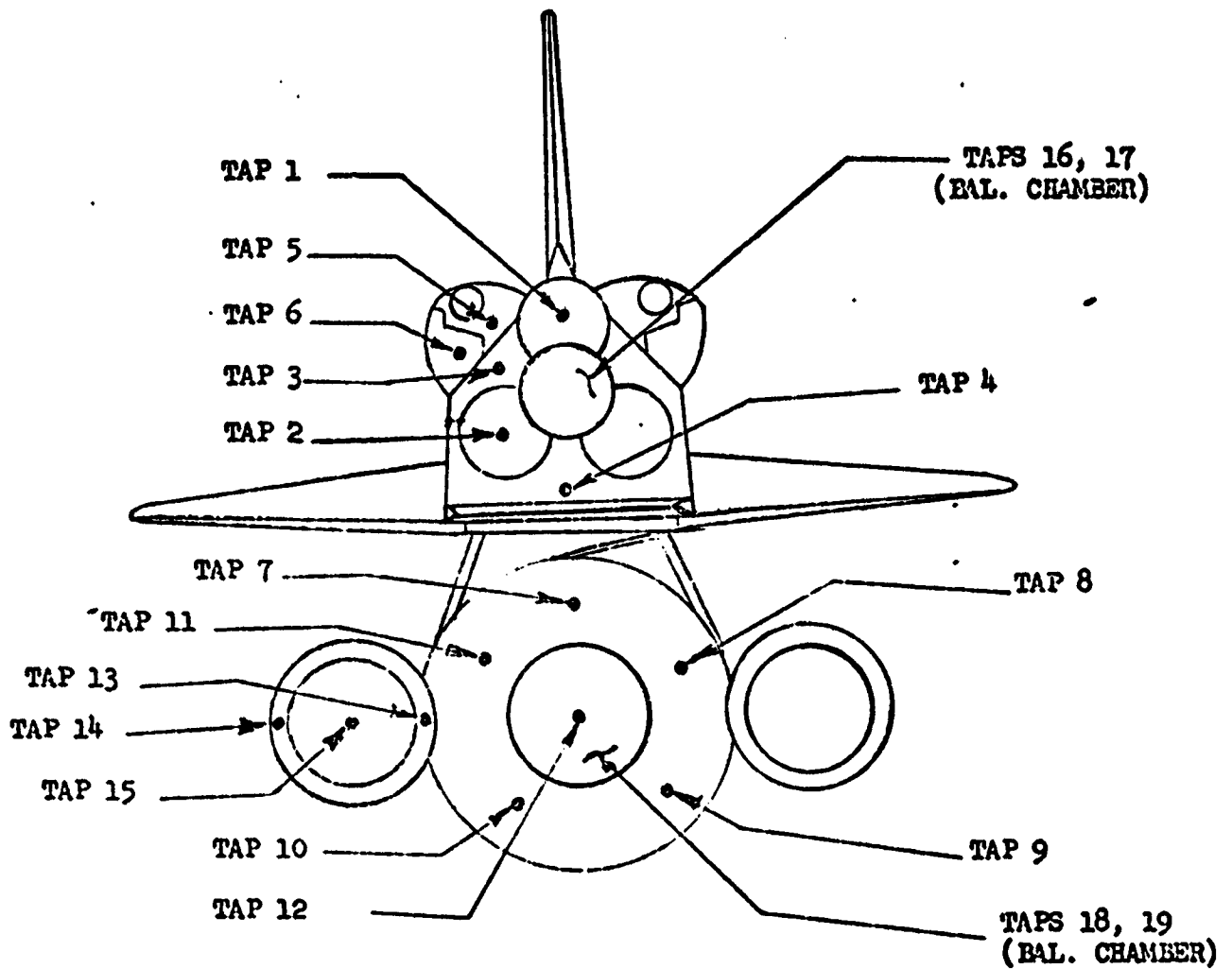


c. SRB Protuberances  
Figure 2. - Continued.



d. (T<sub>28</sub>) External Tank Protuberances

Figure 2. - Continued.



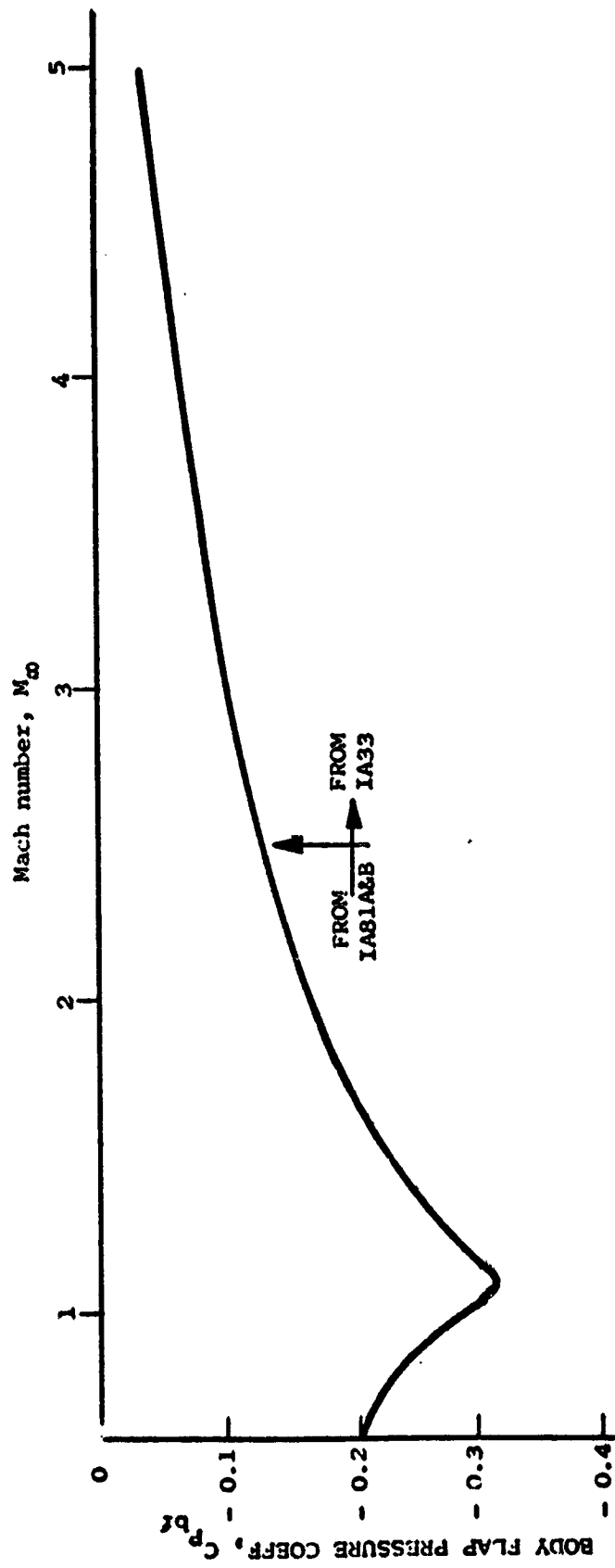
Location	Pressure Tap Numbers	Manifold Number (1)
ORB Base	1, 2, 3, 4	1 = 1
CMS base + ACPS Base	5, 6	2
ET Base	7, 8, 9, 10, 11, 12	3
SRB Base	13, 14	4
SREX Base	15	5
ORB Cavity	16, 17	6
ET Cavity	18, 19	7

e. Base Pressure Instrumentation

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Figure 2. - Continued.





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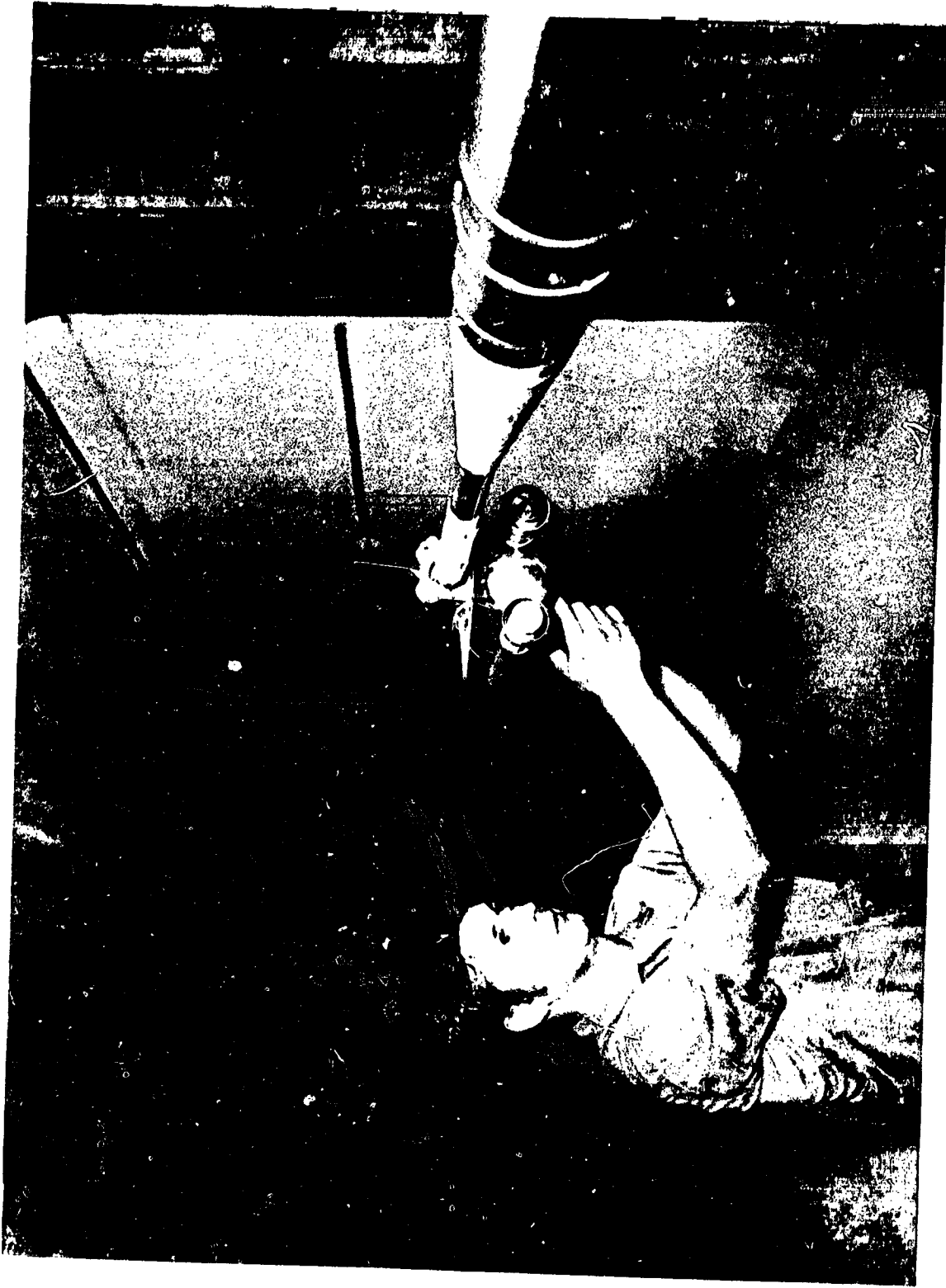
f. Orbiter Body Flap Pressure Coefficients

Figure 2. - Concluded.



a. Front View

Figure 3. - Model installation photographs.



b. Rear view

Figure 3. - Concluded.

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DATA FIGURES

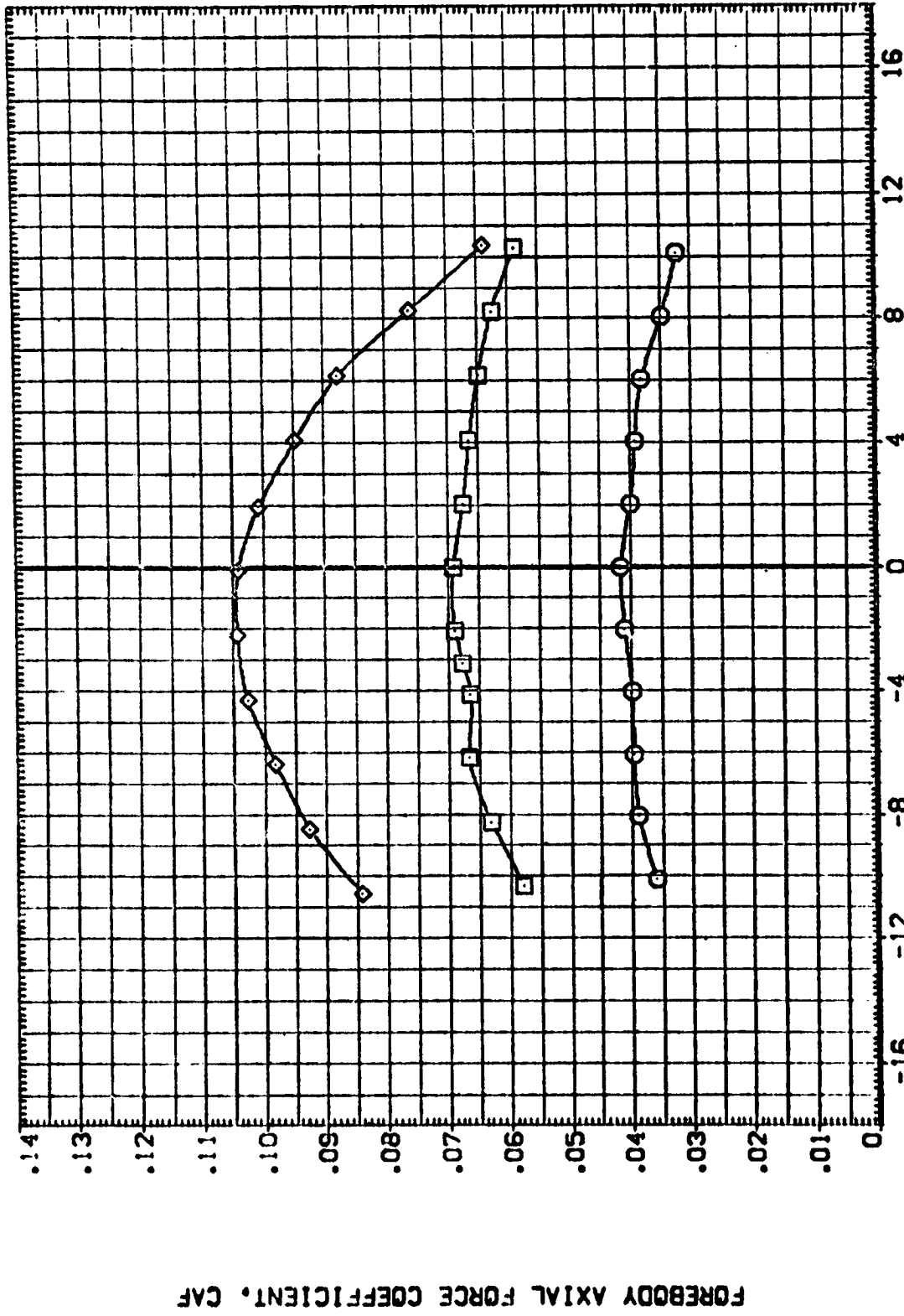
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 SCALE .0100

ELV-LO ELV-LJ ELV-RI ELV-RO  
 .000 .000 .000 .000

T4  
 14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
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 LARC 8-TPT-693 [A43] CONFIGURATION  
 LARC 8-TPT-693 [A43] CONFIGURATION

DATA SET SYMBOL  
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 (B-C010)  
 (B-C006)



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

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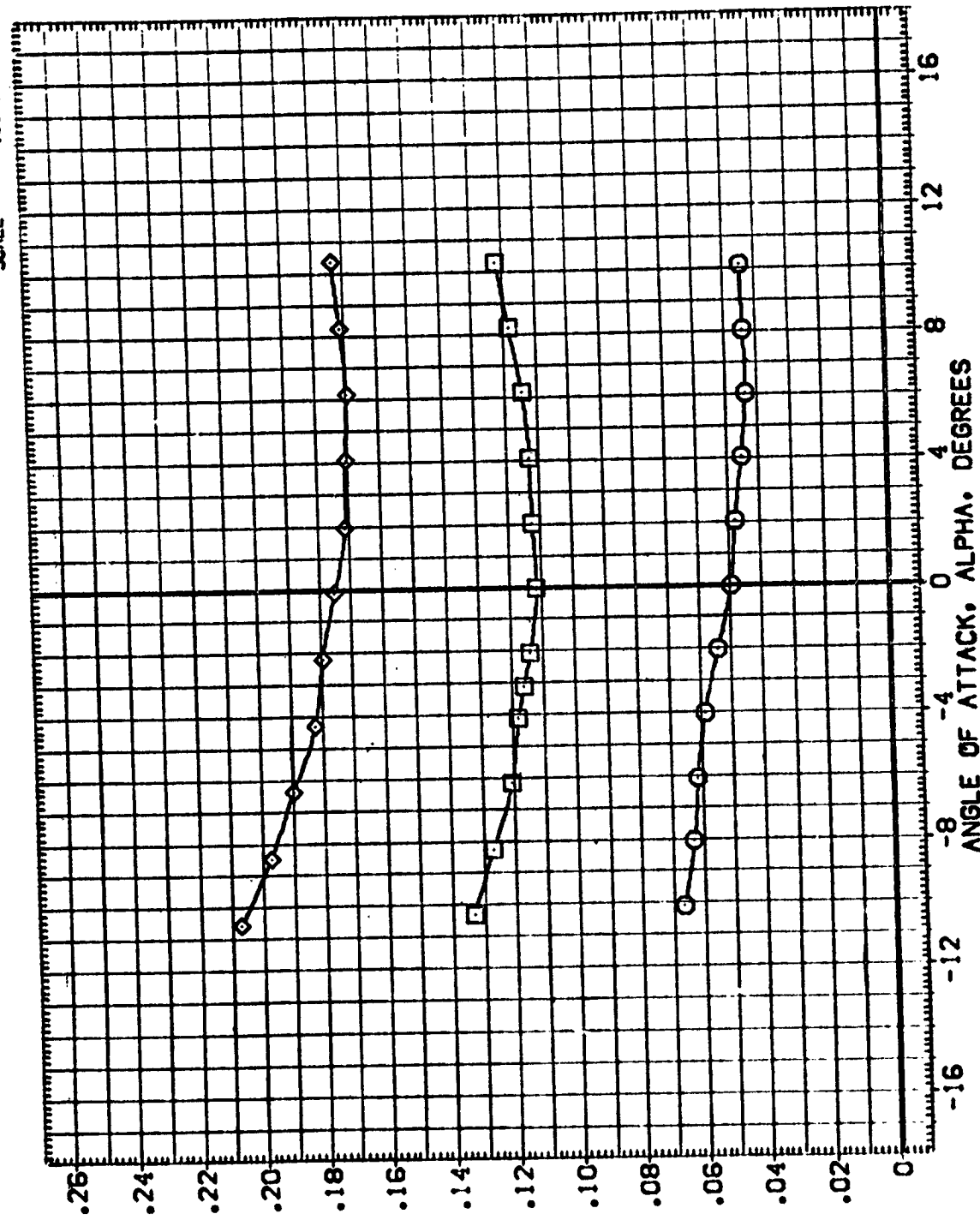
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14  
 14/57  
 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

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 ZMRP 400.0000 IN. ZT  
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BASE AXIAL FORCE COEFFICIENT, CAB



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

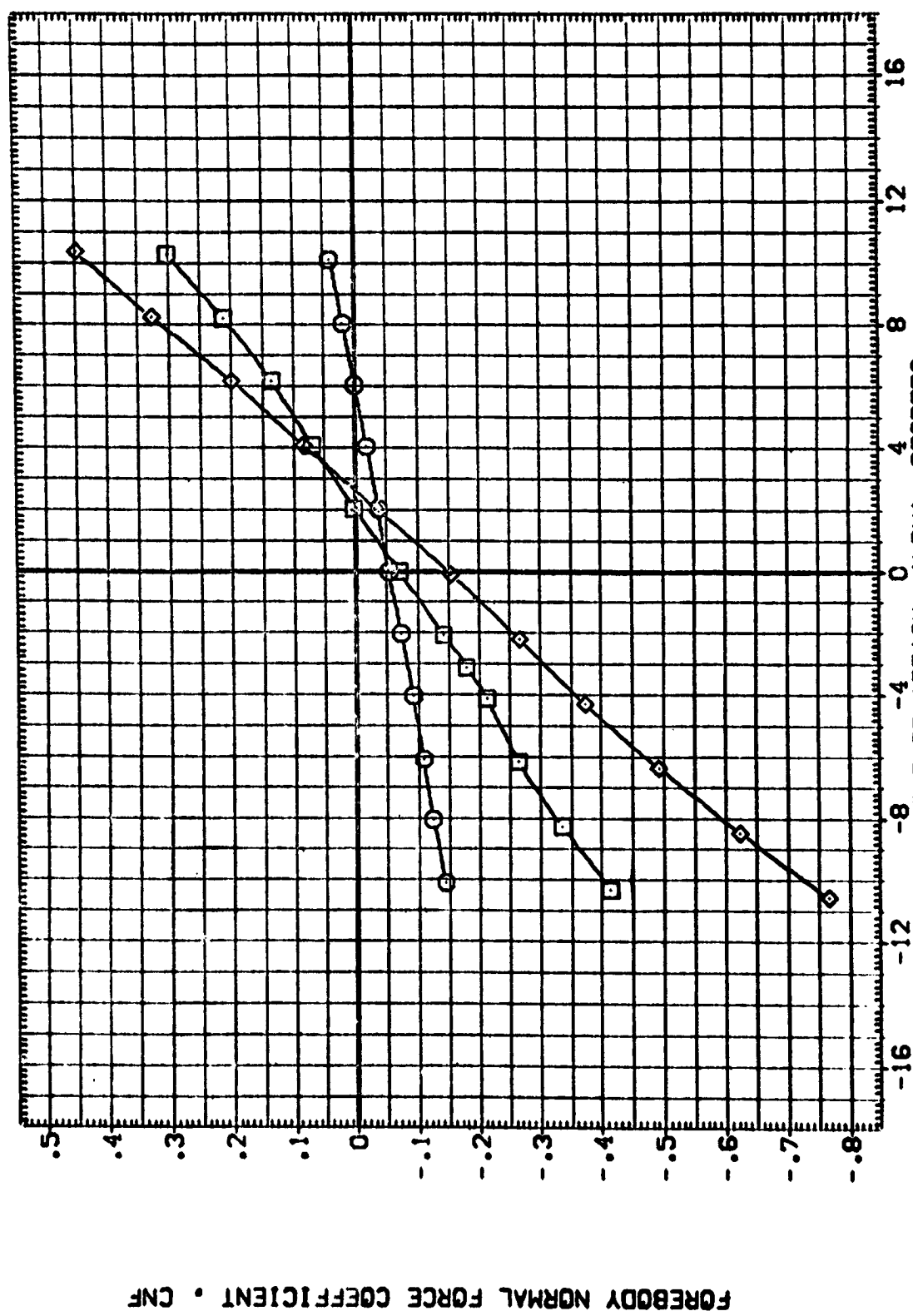


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ELV-L0 ELV-L1 ELV-R1 ELV-R0  
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14  
 T4/T4/S7  
 02/T4/S7

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 (B-C019) LARC 8-TPT-693 (1A43) CONFIGURATION  
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FOREBODY NORMAL FORCE COEFFICIENT - CNF

ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

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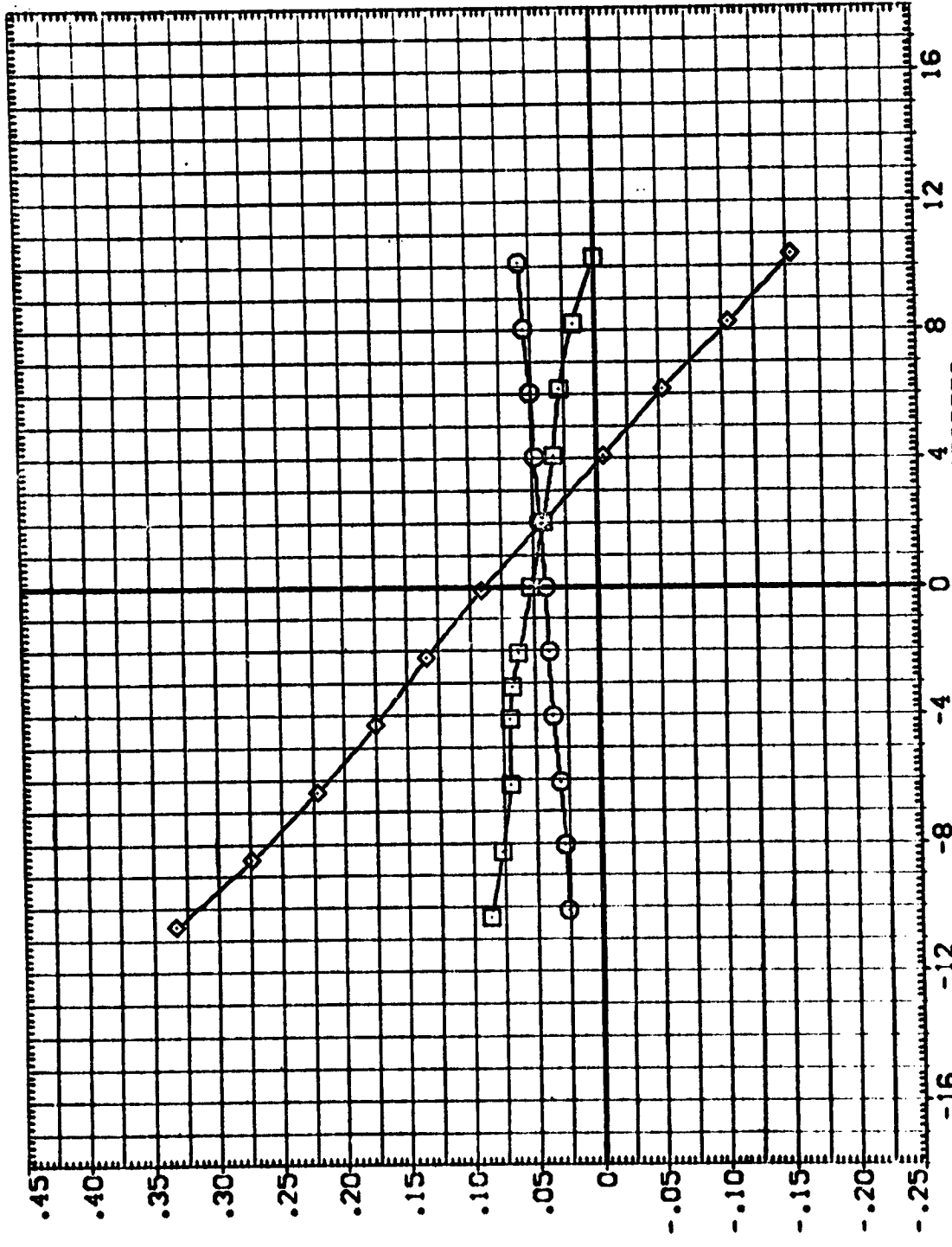
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T4  
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 02/14/57

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 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION

DATA SET SYMBOL  
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FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = .60





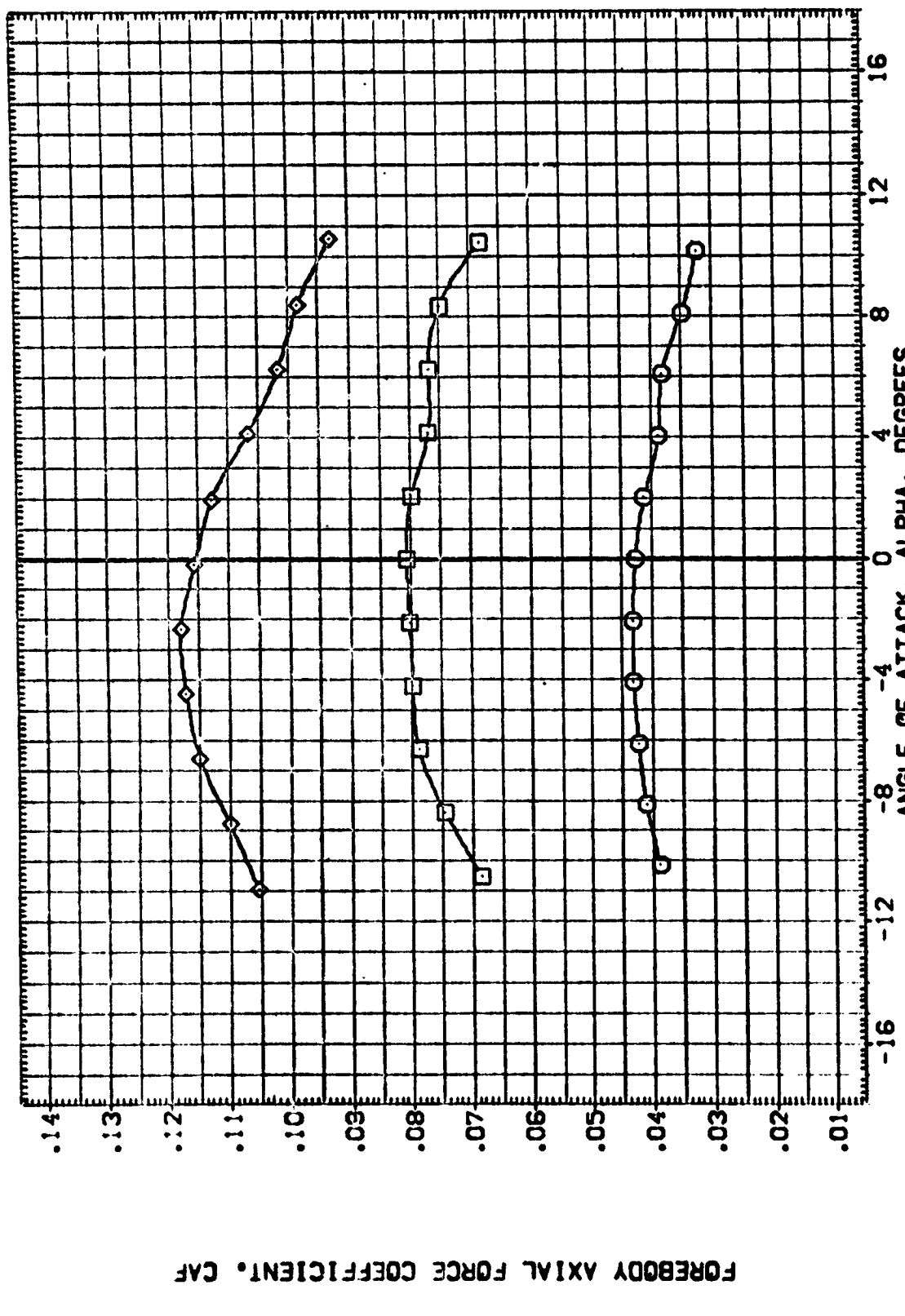
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ELV-LO ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000

14  
 14/57  
 02/14/57

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DATA SET SYMBL  
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FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

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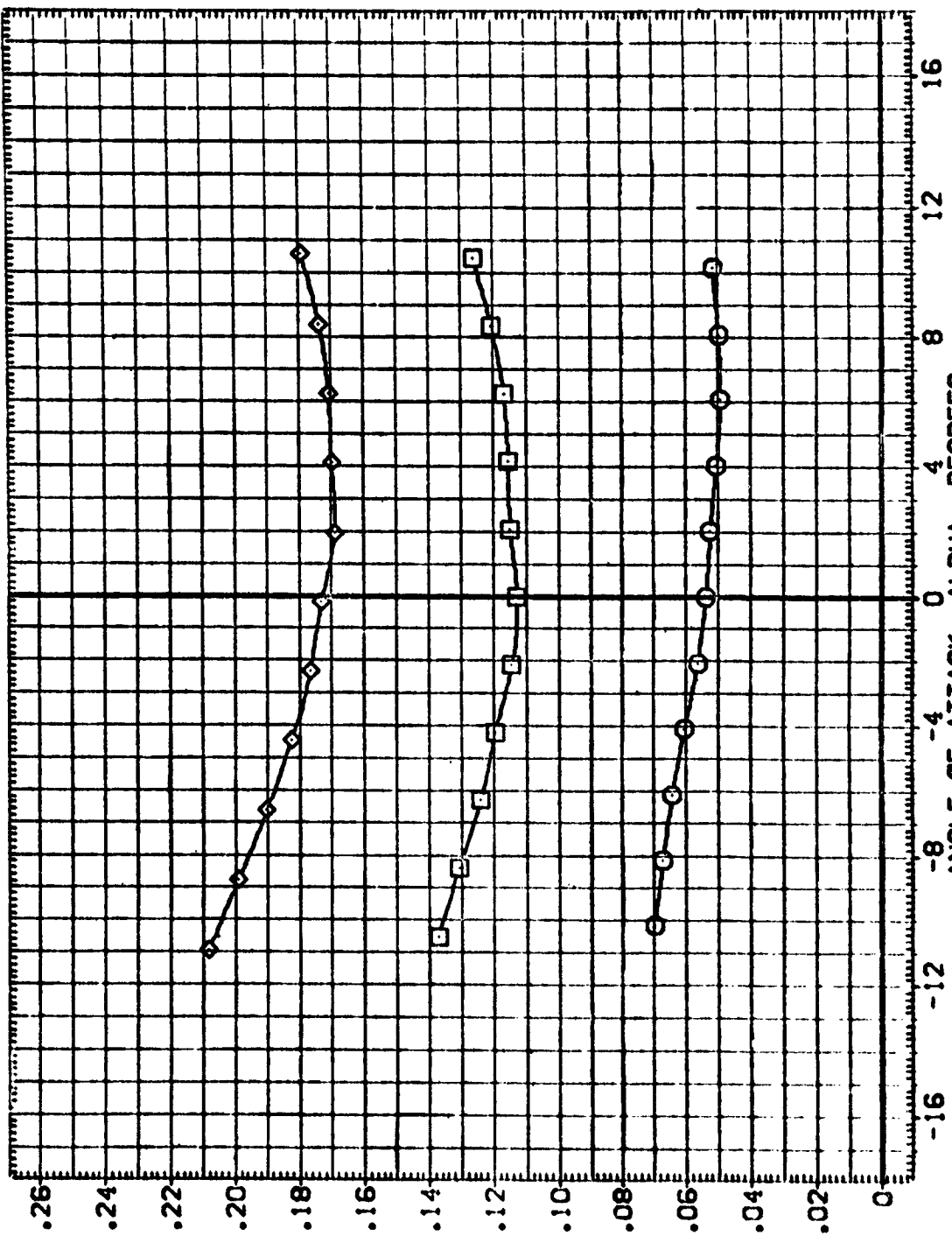
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 SCALE .0100

SO.FT. INCHES IN. XT IN. YI IN. ZI

BASE AXIAL FORCE COEFFICIENT, CAB



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

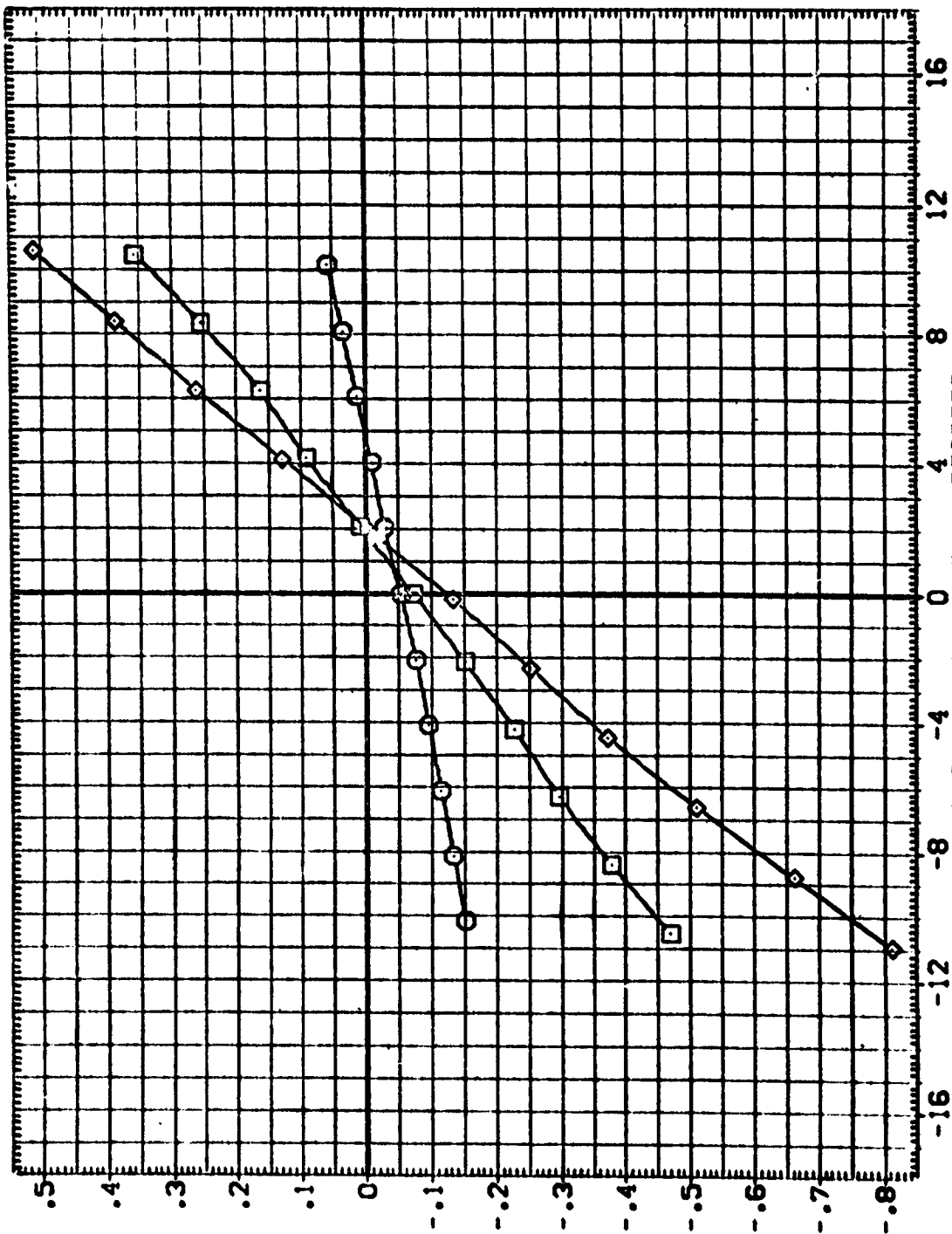
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						YMFP 400.0000 IN. Y1
						ZMFP 400.0000 IN. Z1
						SCALE .01C3

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02/14/57

FOREBODY NORMAL FORCE COEFFICIENT • CNF



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CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

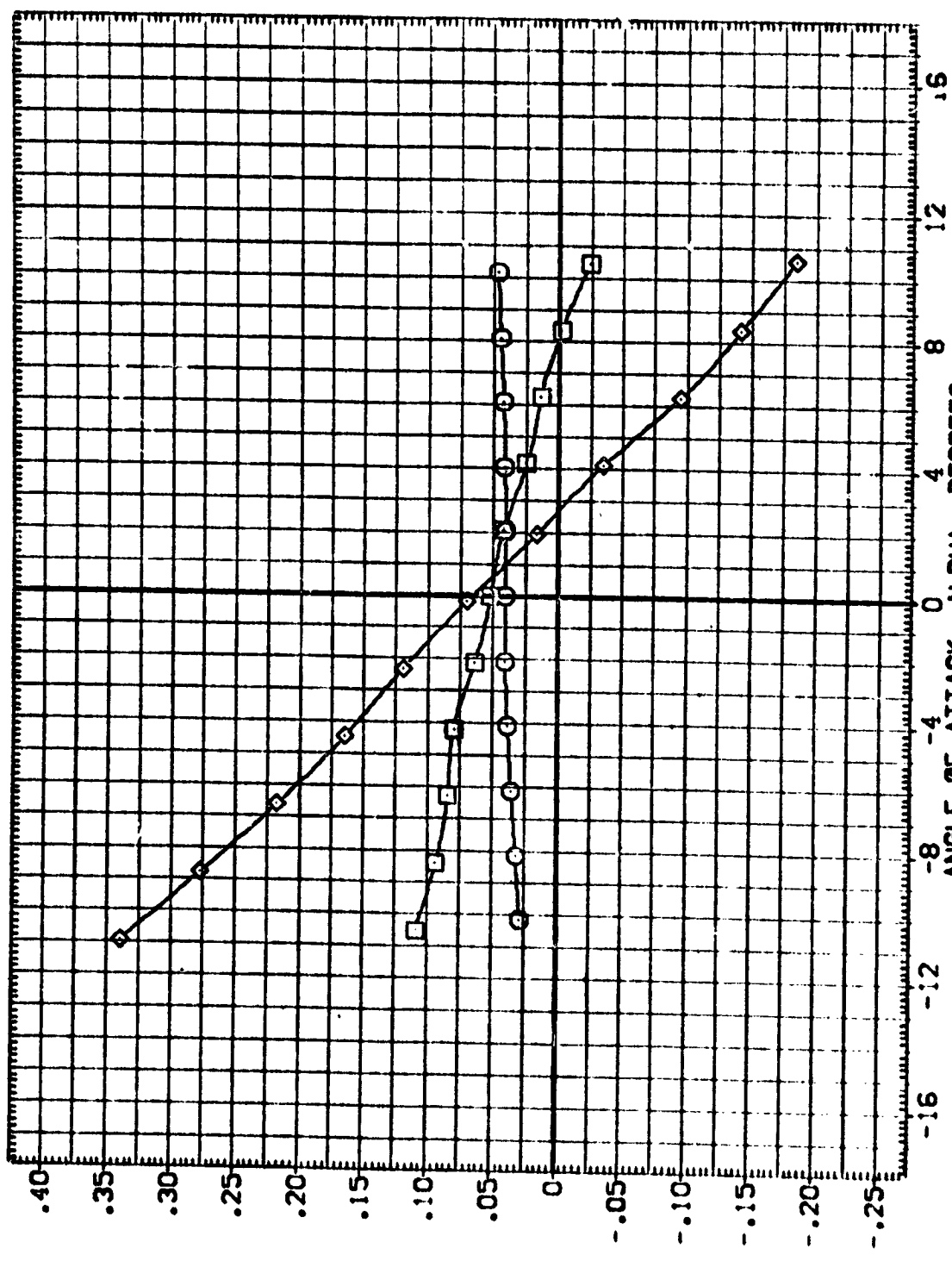
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FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS  
 (B)MACH = .80

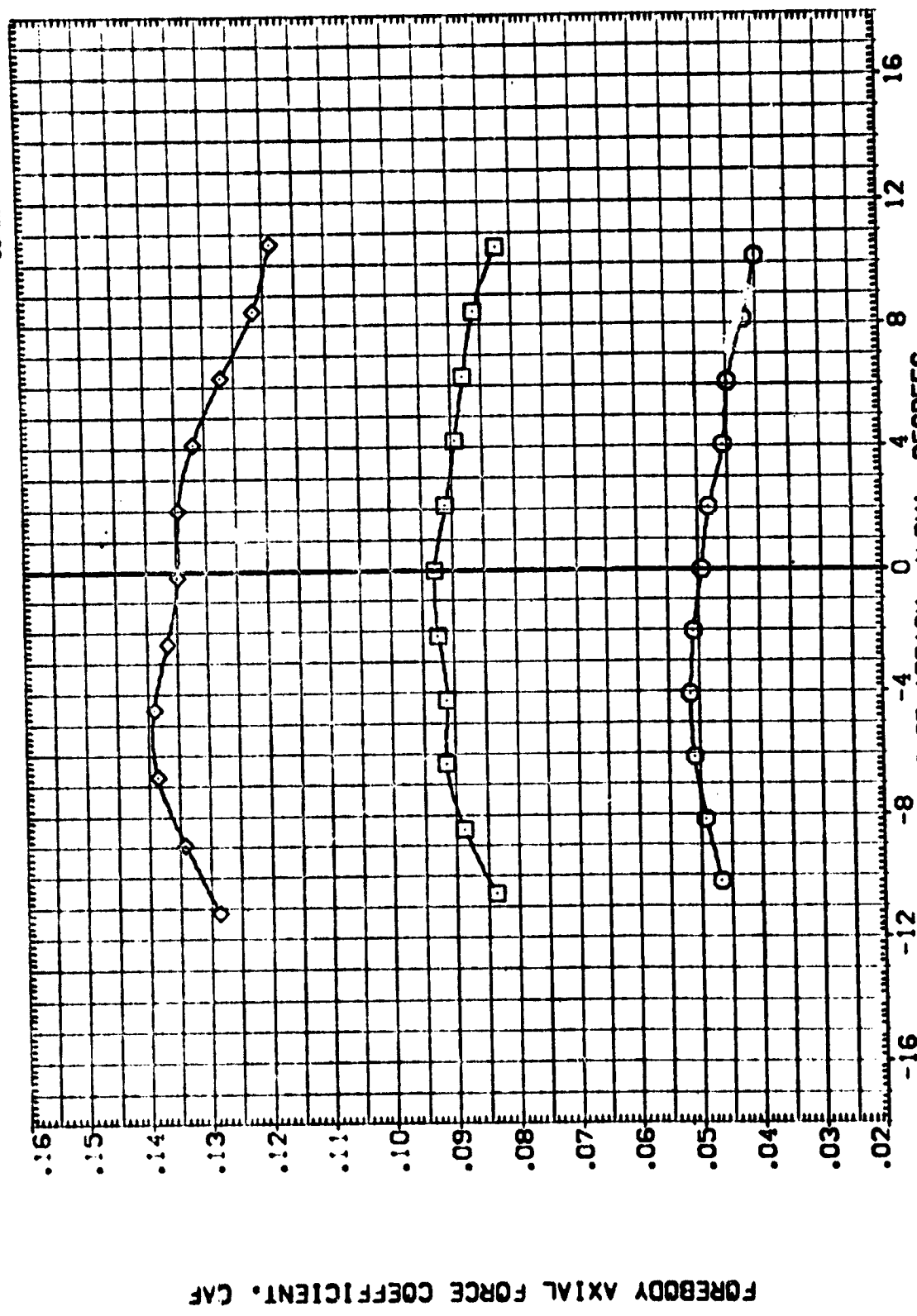
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 SCALE .0100

ELV-LD ELV-LI ELV-RI ELV-RD  
 .000 .000 .000 .000

T4  
 74/57  
 02/14/57

CONFIGURATION DESCRIPTION  
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 (B-CC19)  
 (B-CC06)



FOREBODY AXIAL FORCE COEFFICIENT, CAF

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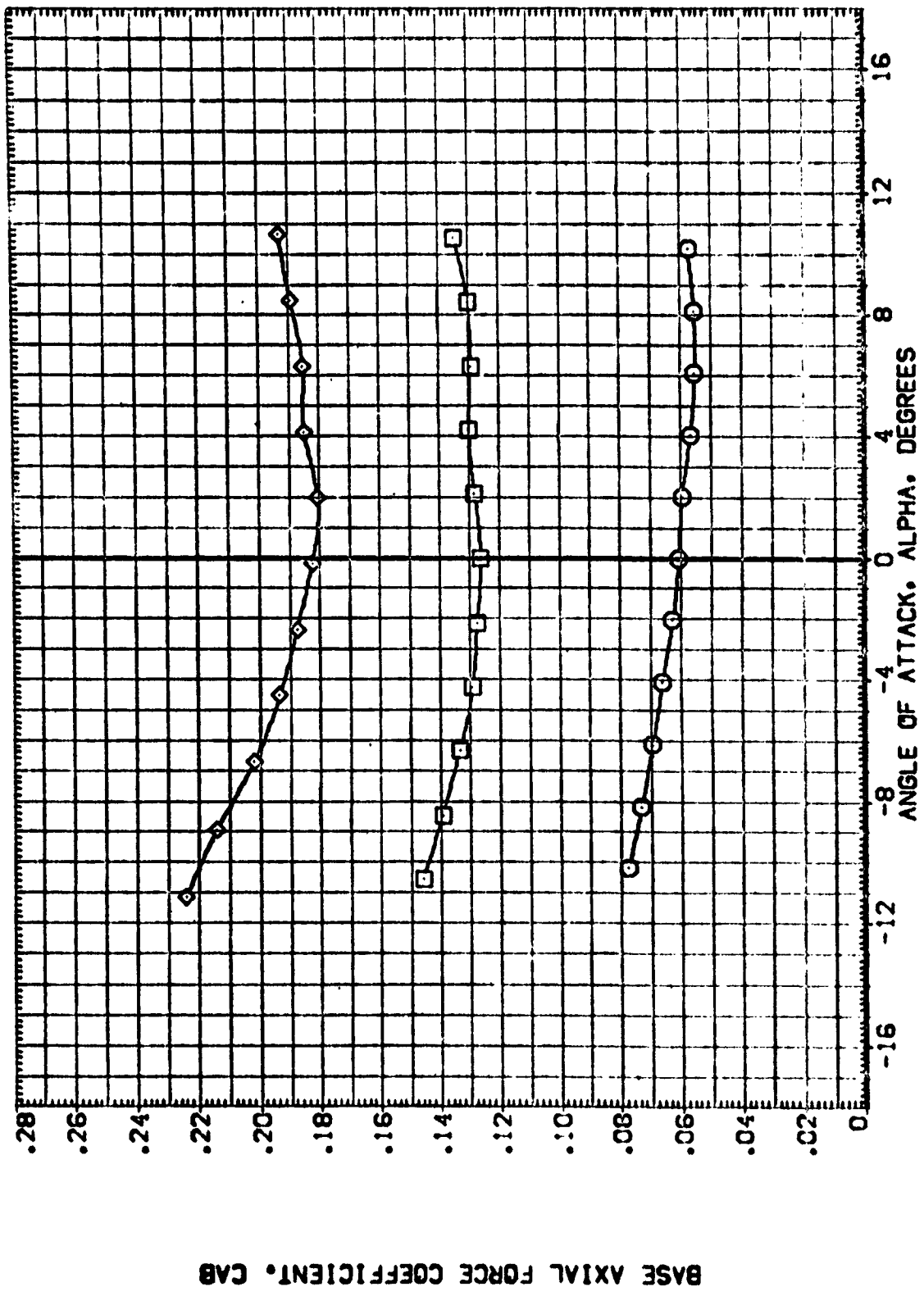
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

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 SCALE: .0100



BASE AXIAL FORCE COEFFICIENT, CAB

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90



DATA SET SYMBOL: (B-C020) (B-C019) (B-C006)

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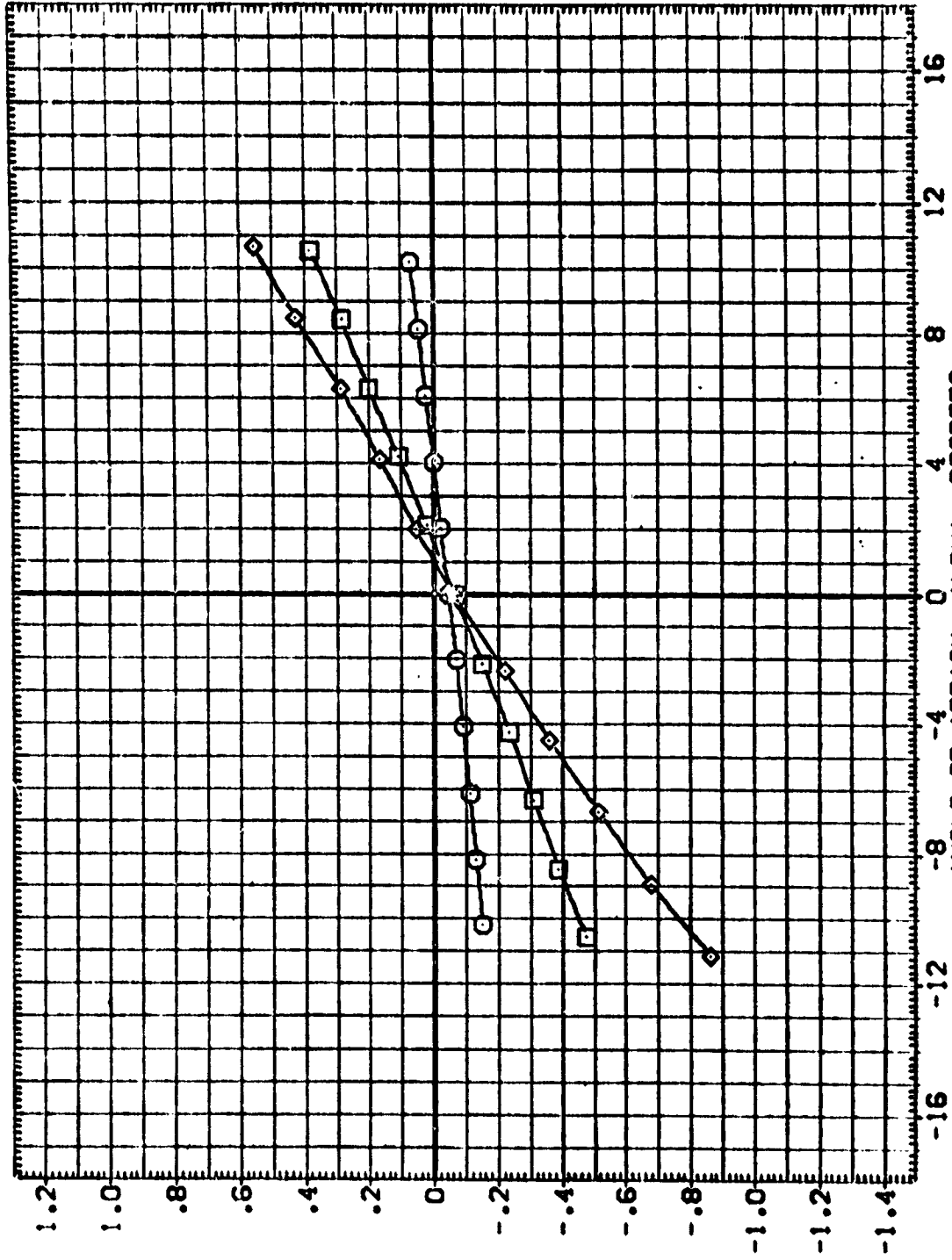
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ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000 .000 .000 .000

T4  
 T4/S7  
 02/14/57

CONFIGURATION



FOREBODY NORMAL FORCE COEFFICIENT • CNF

ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

PAGE 11

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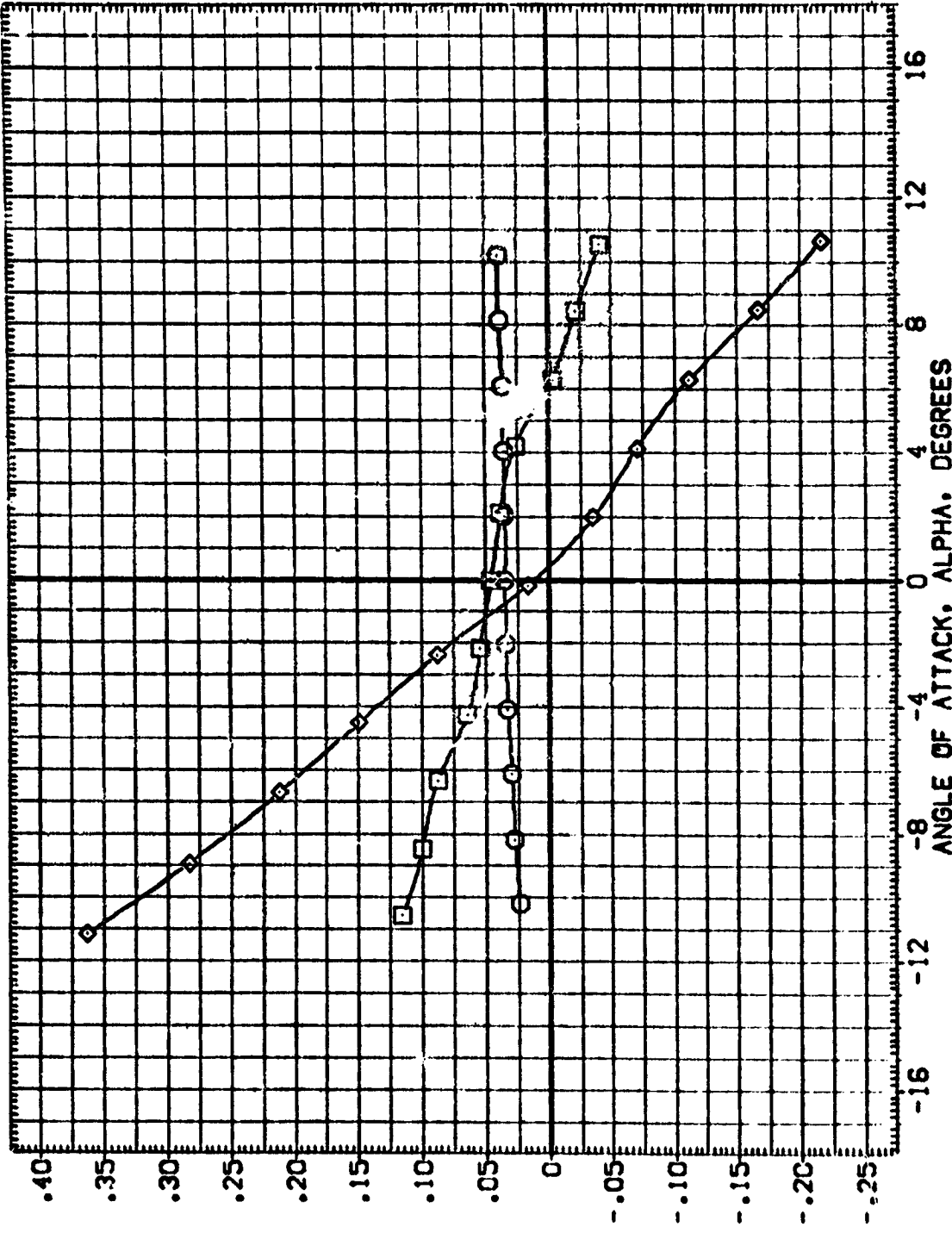
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T4  
 T4/S7  
 02/T4/S7

ELV-L9 ELV-LI ELV-RI ELV-R9  
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 SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90



DATA SET SYMBOL: (B-C020), (B-C019), (B-C006)

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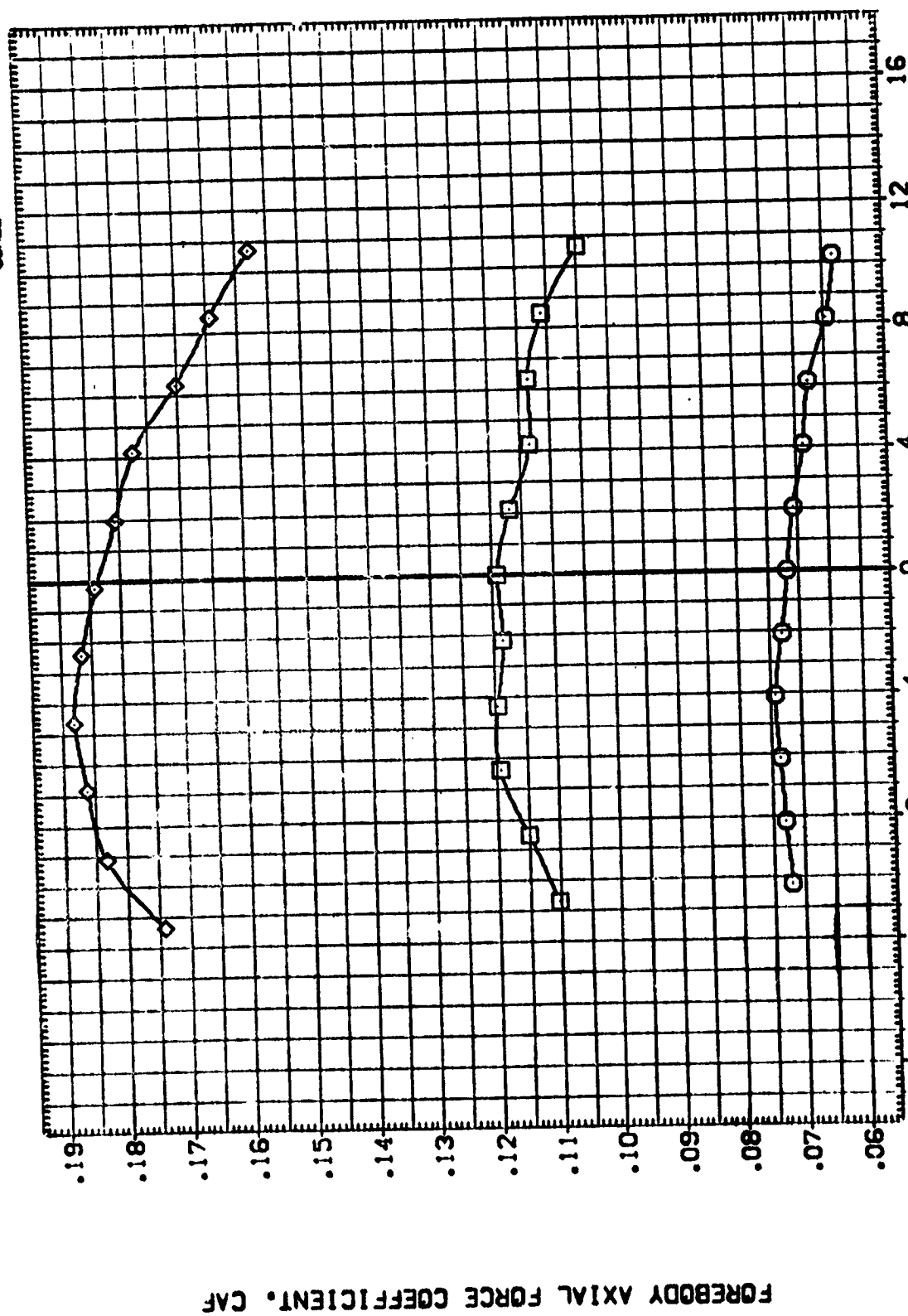
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SO.FT. INCHES  
 IN. XT  
 IN. YZ

14  
 14/57  
 02/14/57

CONFIGURATION  
 CONFIGURATION  
 CONFIGURATION



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

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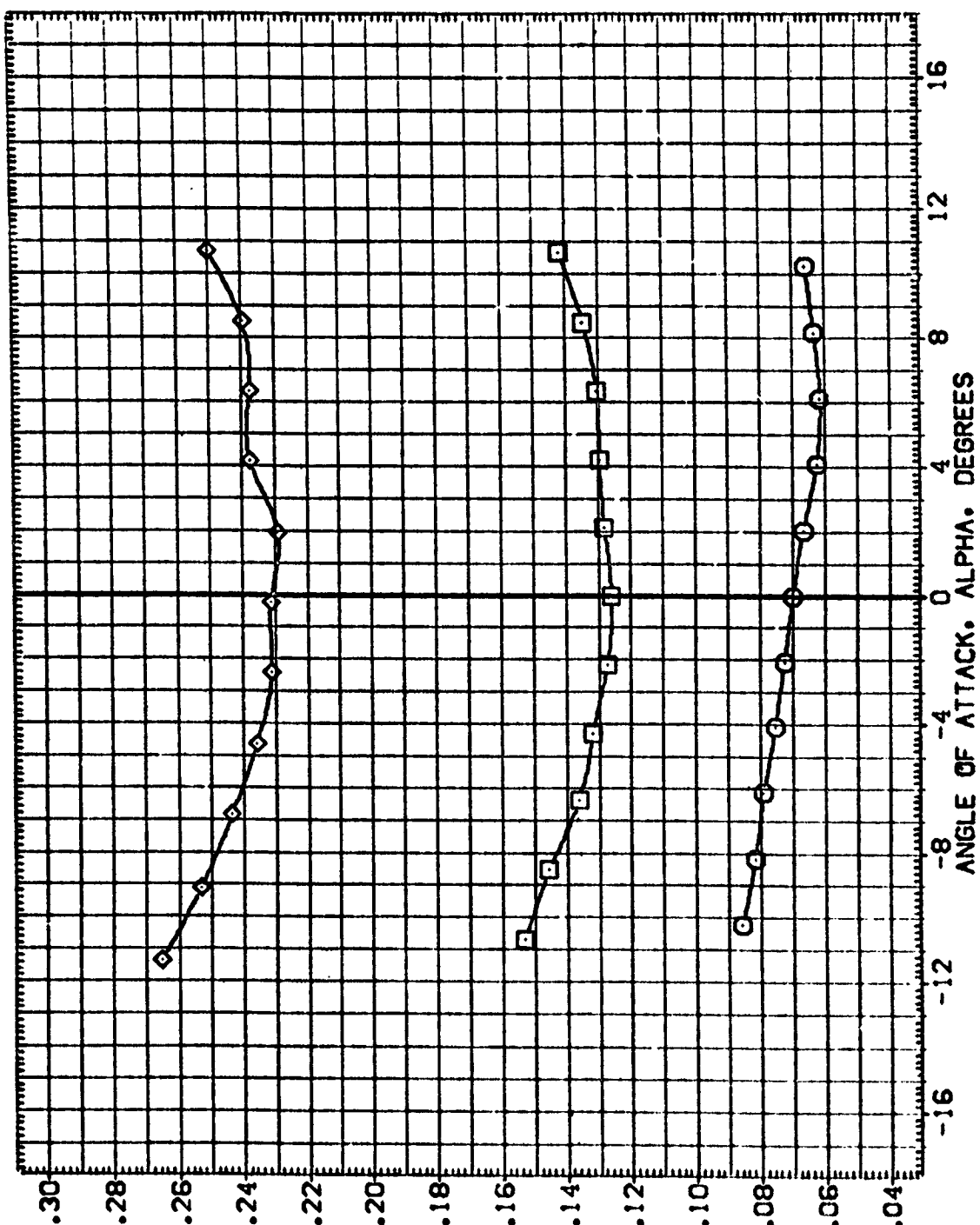
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T4  
 T4/S7  
 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

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BASE AXIAL FORCE COEFFICIENT, CAB



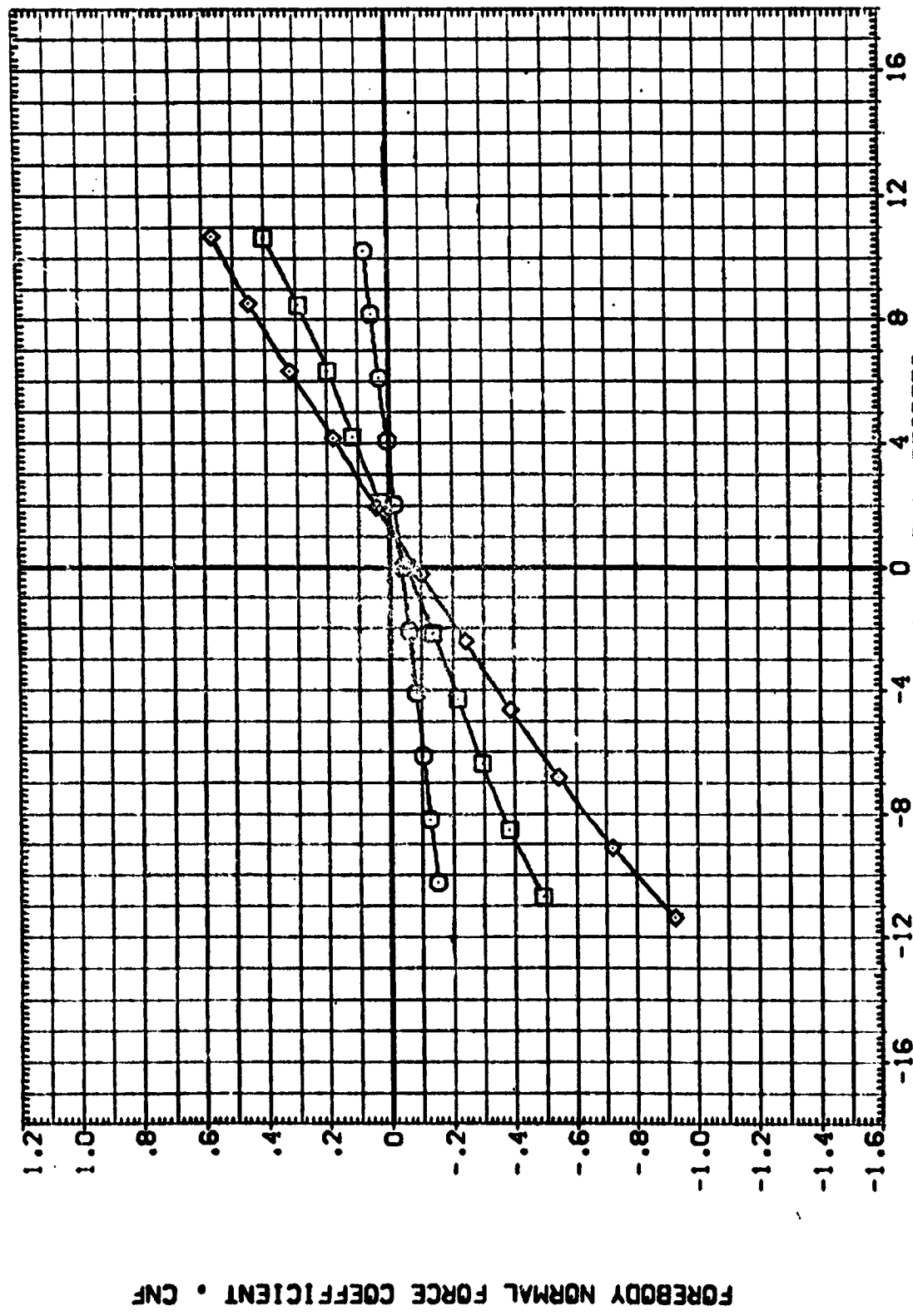
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

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 SCALE    .0100

ELV-L0    ELV-L1    ELV-R1    ELV-R0  
 .000    .000    .000    .000



FOREBODY NORMAL FORCE COEFFICIENT • CNF

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

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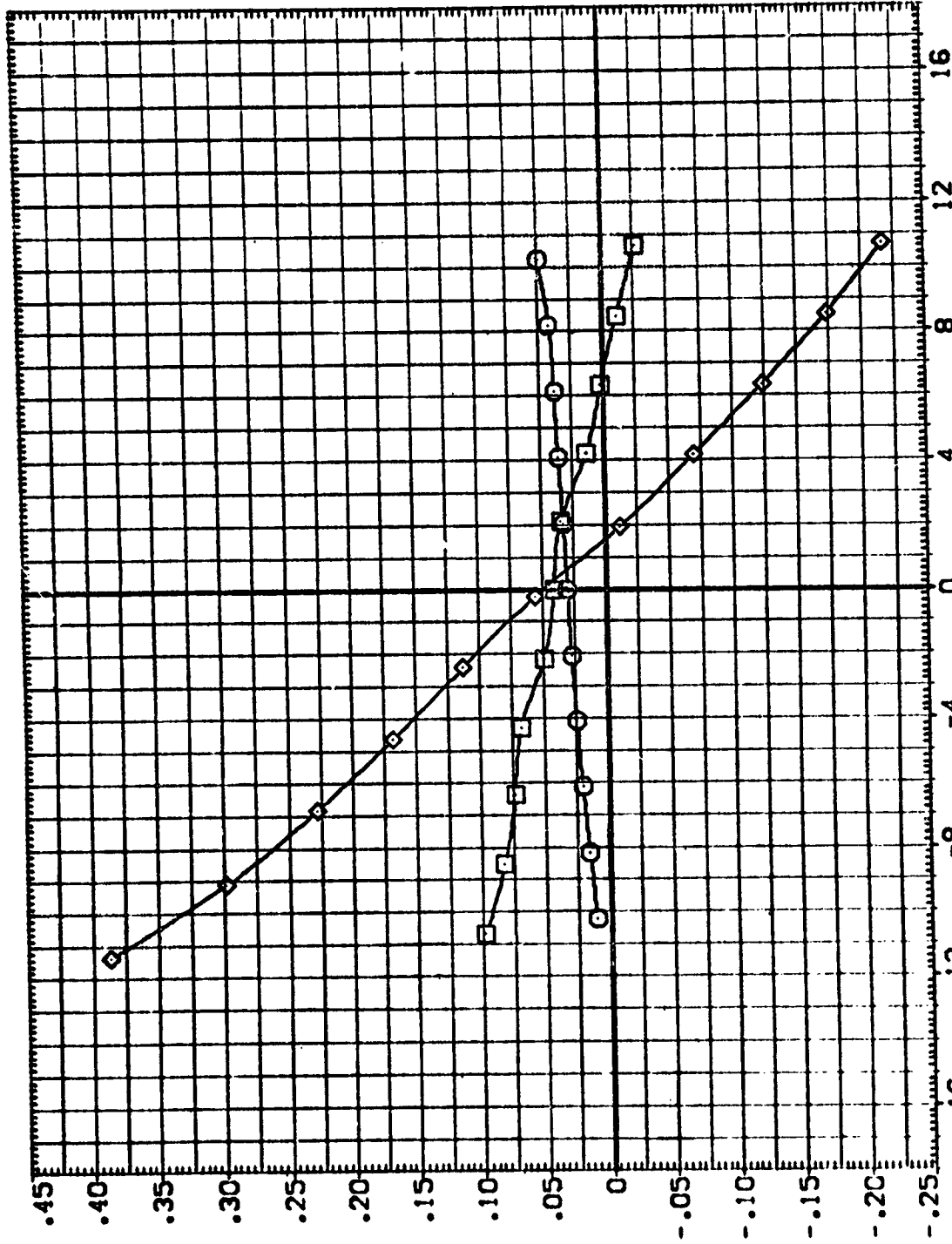
14  
 14/57  
 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2930.0000  
 LREF 250.3000  
 BREF 1250.3000  
 XTRP 976.0000  
 YTRP 400.0000  
 ZTRP 400.0000  
 SCALE .0100

50 FT.  
 INCHES  
 IN. XT  
 IN. YT  
 IN. ZT

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(D)MACH = .98

DATA SET SYMBOL: (B-C020), (B-C019), (B-C008)

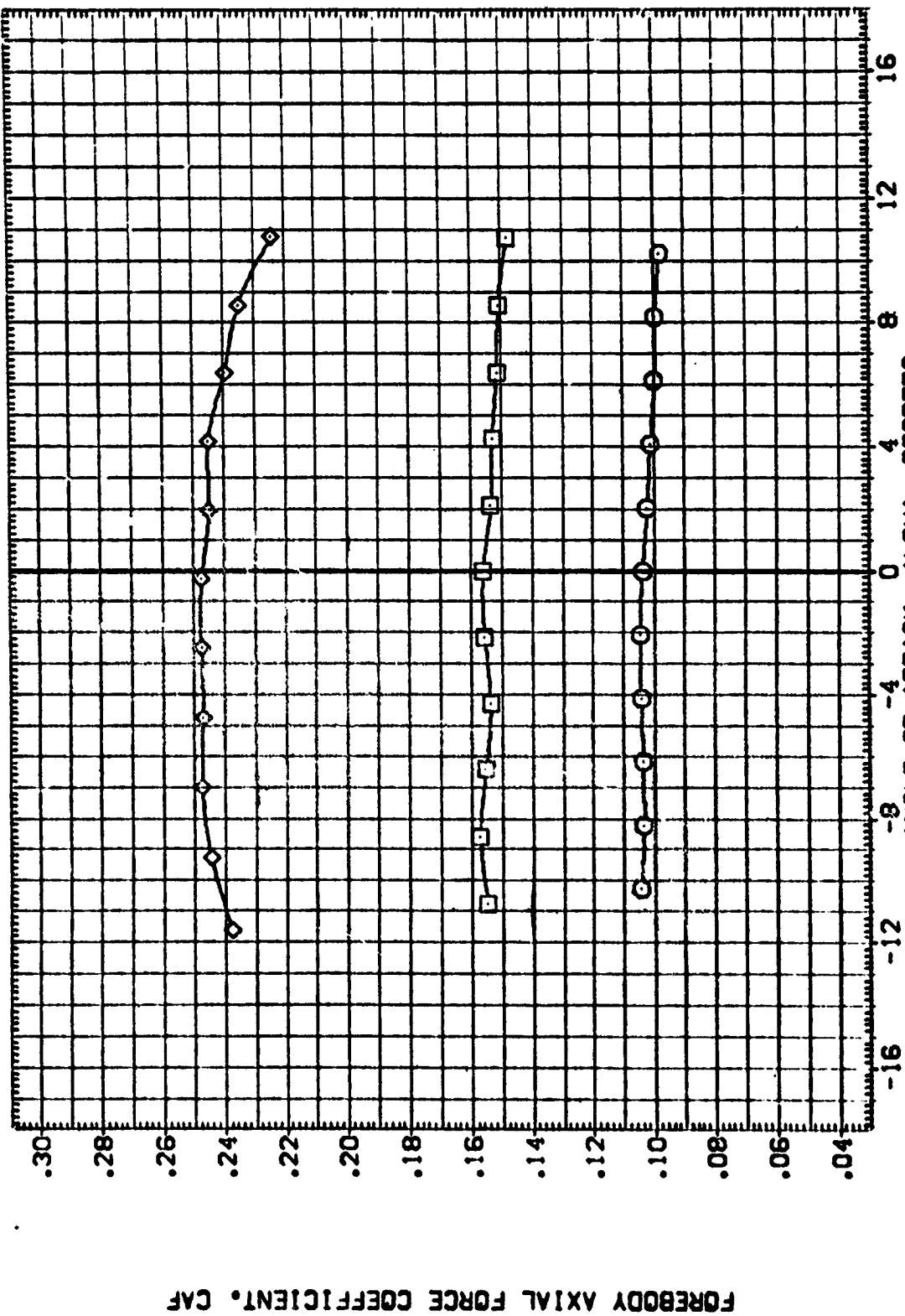
CONFIGURATION DESCRIPTION: LARC 8-TPT-893 ((A43)), LARC 8-TPT-893 ((A43)), LARC 8-TPT-893 ((A43))

CONFIGURATION: 14, 14/57, 02/14/57

REFERENCE INFORMATION: SREF 2680.0000, LREF 1290.3000, BREF 1290.3000, XWRP 976.0000, YWRP .0000, ZWRP 400.0000, SCALE .0100

SO. FT. IN. OES IN. XT IN. YT IN. ZT

ELV-L0 .000 ELV-L1 .000 ELV-R1 .000 ELV-R0 .000



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.13

ORIGINAL PAGE IS OF POOR QUALITY

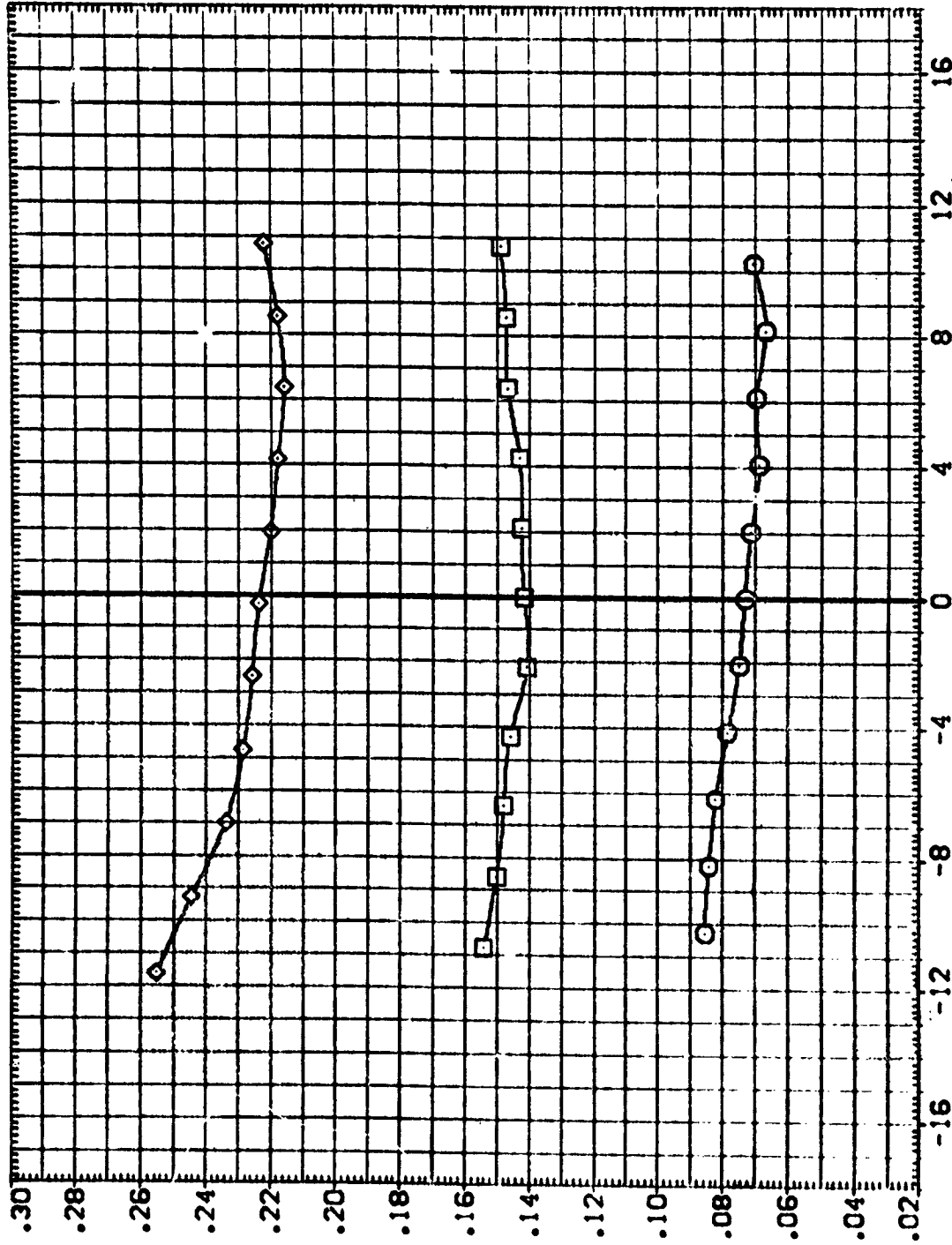
DATA SET SYMBOL  
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 (B-C019)  
 (B-C006)

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 (1A43)  
 LARC 8-TPT-693 (1A43)  
 LARC 8-TPT-693 (1A43)

T4  
 T4/57  
 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0

REFERENC INFORMATION  
 SREF 150.0000 SQ.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XPRP 576.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100



BASE AXIAL FORCE COEFFICIENT, CAB

ANGLE OF ATTACK, ALPHA, DEGREES

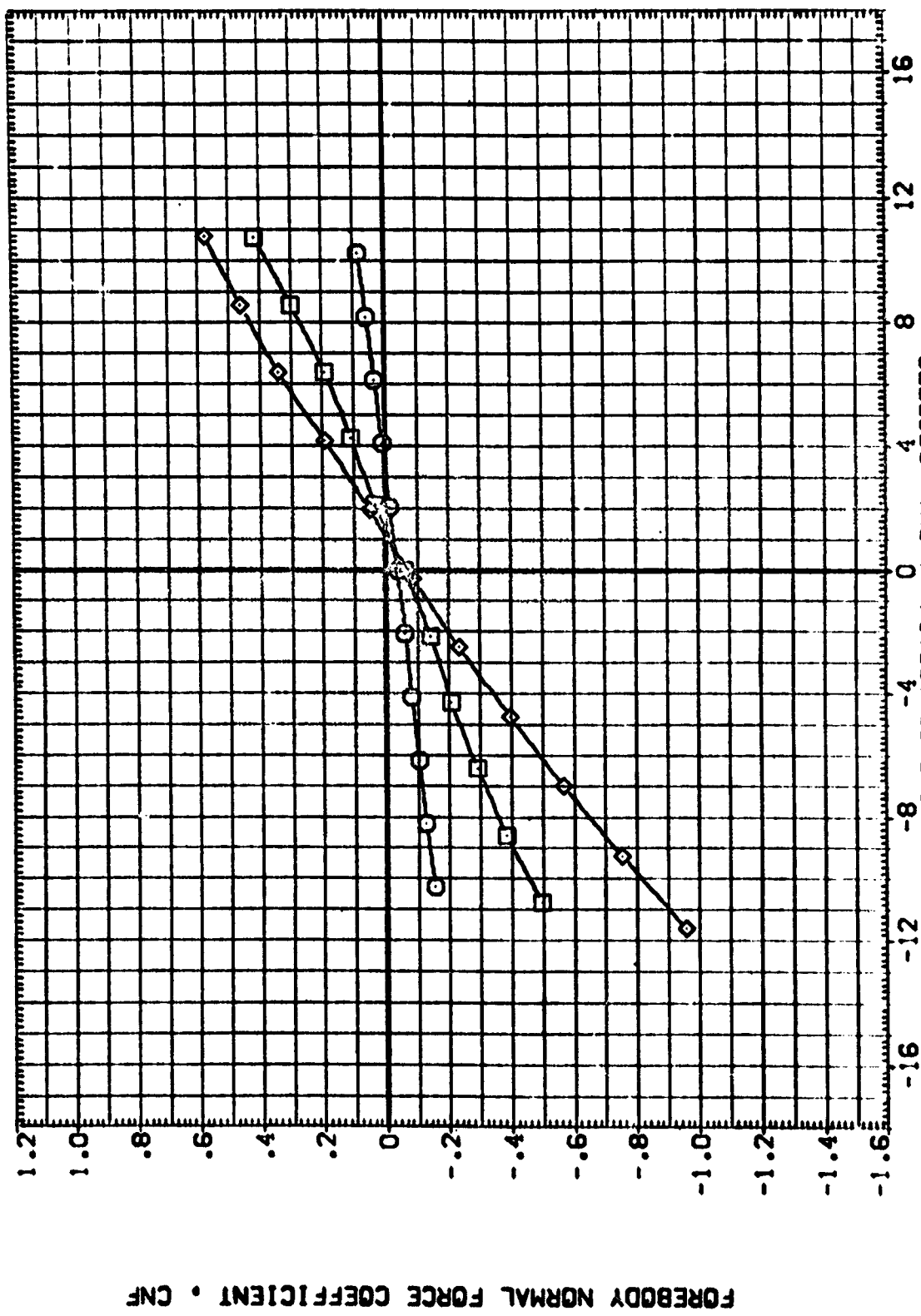
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.13

PAGE 18



DATA SET SYMBOL: (B-C020), (B-C019), (B-C008)  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A43), LARC 8-TPT-693 (1A43), LARC 8-TPT-693 (1A43)  
 CDNF (GURATION): 14, 14/57, 02/14/57  
 ELV-L0: .000, ELV-L1: .000, ELV-R1: .000, ELV-R0: .000  
 REFERENCE INFORMATION: SREF 2690.0000, LREF 1290.3000, BREF 1290.3000, XMRP 976.0000, YMRP 400.0000, ZMRP 400.0000, SCALE .0100  
 SO. FT.: 50. FT., IN.-ES: 100.-ES, IN. XT: 100. XT, IN. ZT: 100. ZT



ORIGINAL PAGE NO. OF POOR QUALITY

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.13

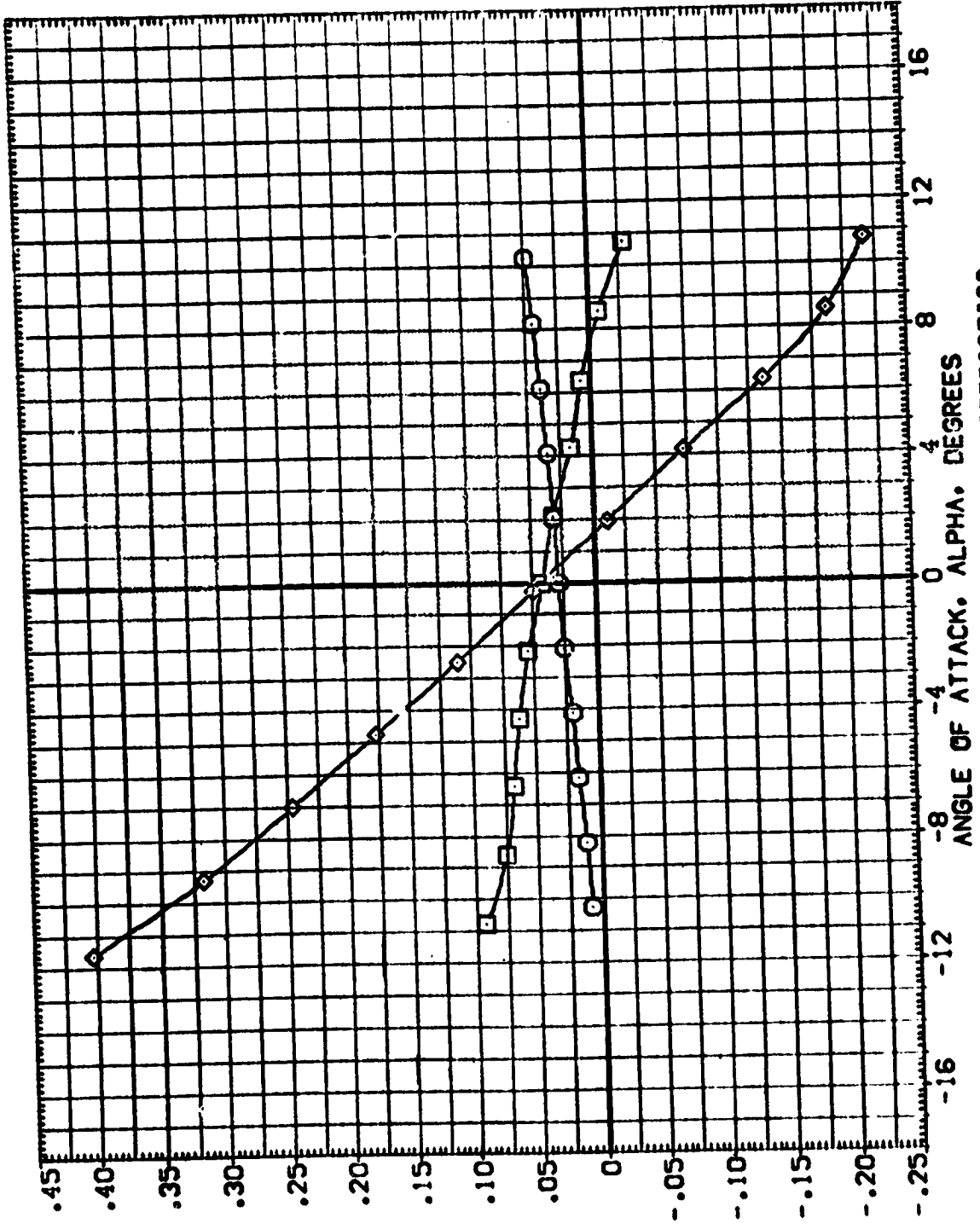
DATA SET SYMBOL  
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 {B-C019}  
 {B-C006}

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-893 (1A43) CONFIGURATION 14 14/57  
 LARC 8-TPT-893 (1A43) CONFIGURATION 02/14/57  
 LARC 8-TPT-893 (1A43) CONFIGURATION

ELV-L6 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XGRP 576.0000 IN. XT  
 YGRP 400.0000 IN. ZT  
 SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT • CMF



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.13





REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XPRP 976.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100

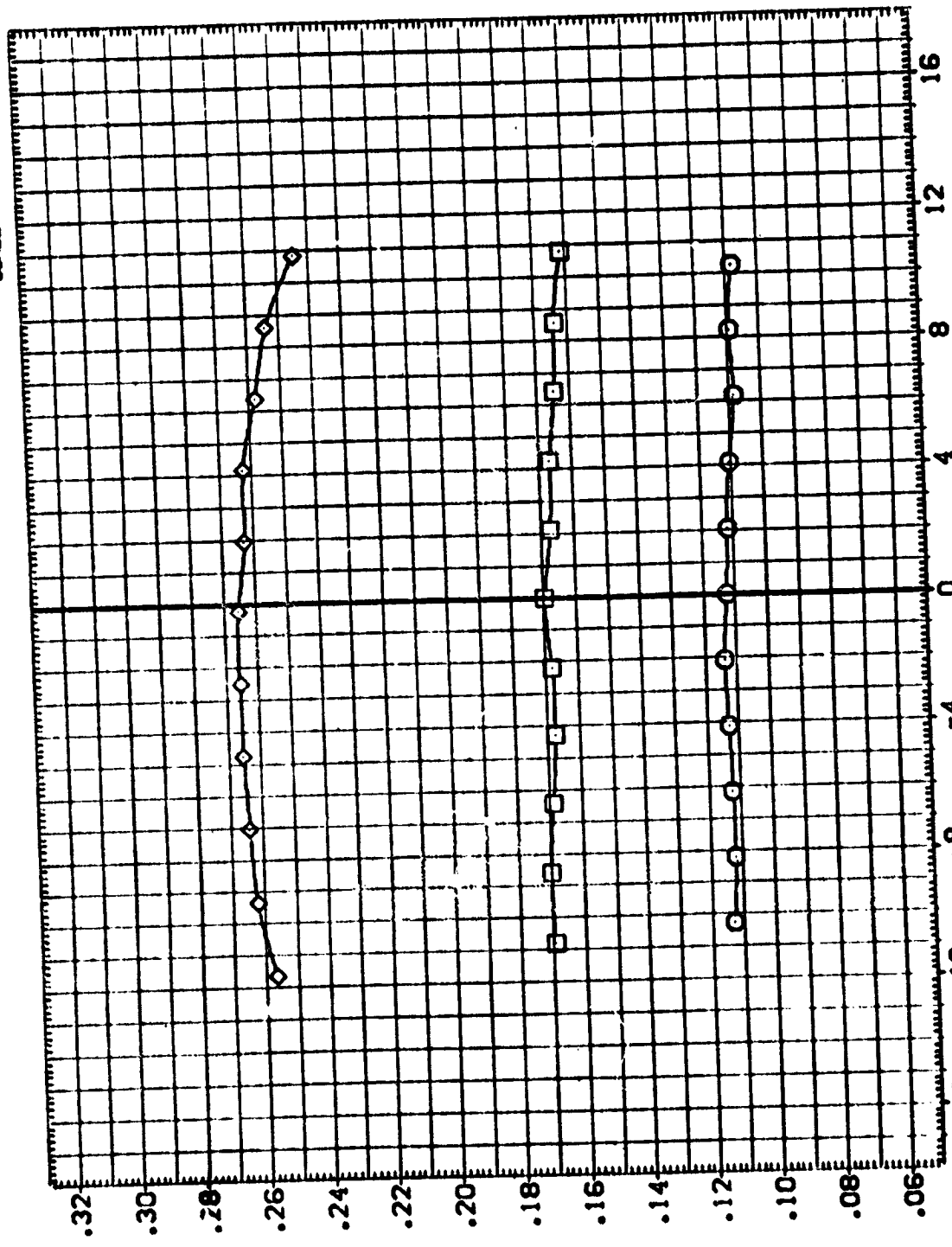
ELV-L0 ELV-L1 ELV-R1 ELV-R0  
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14  
 74/57  
 62/74/57

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 (1A43) CONFIGURATION  
 LARC 8-TPT-693 (1A43) CONFIGURATION  
 LARC 8-TPT-693 (1A43) CONFIGURATION

DATA SET SYMBOL  
 (B-C020)  
 (B-C019)  
 (B-C006)

FOREBODY AXIAL FORCE COEFFICIENT, CAF



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 OF POOR QUALITY

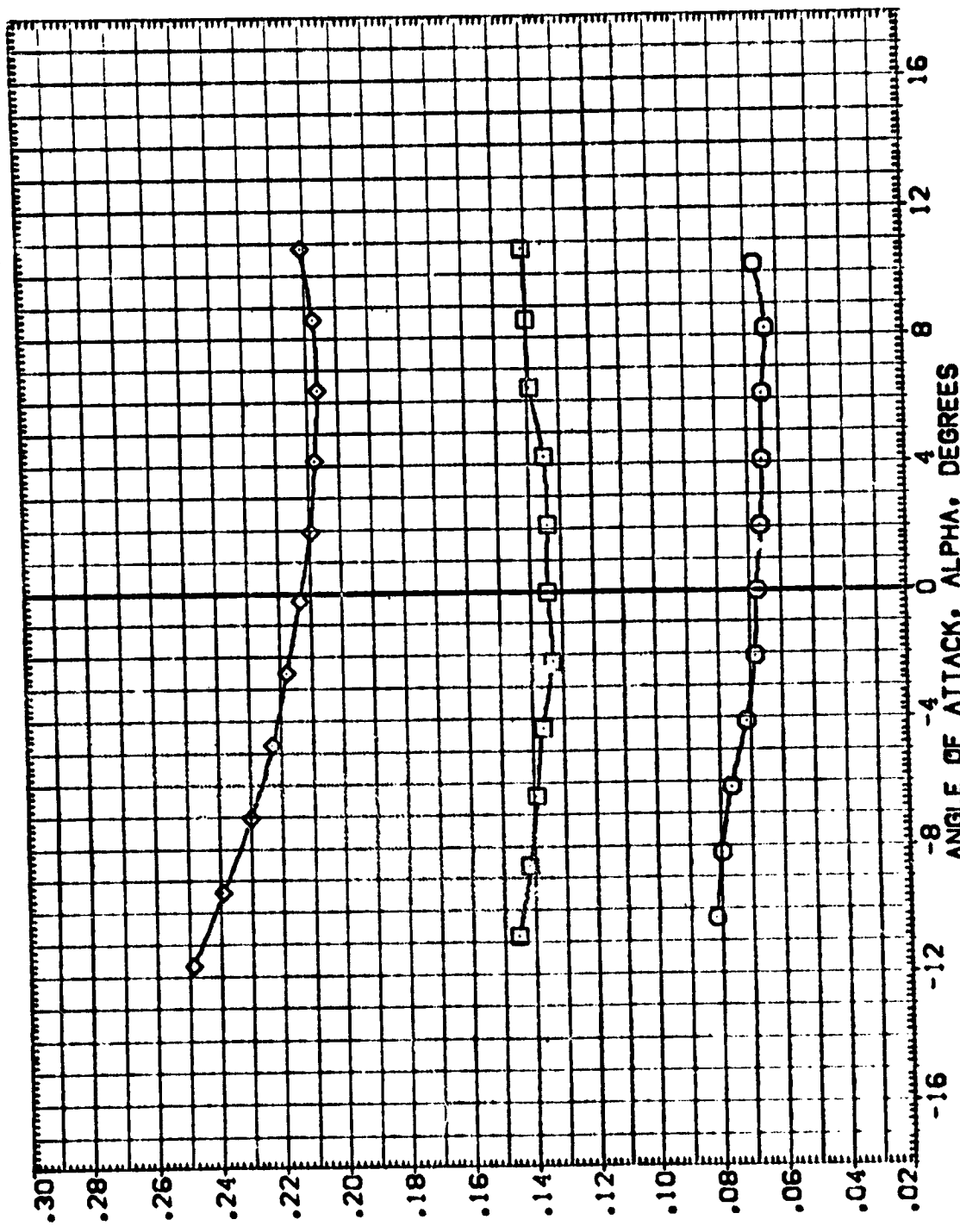
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20



### CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20



BASE AXIAL FORCE COEFFICIENT, CAB

DATA SET SYMBOLS: [B-C020], [B-C019], [B-C006]

CONFIGURATION DESCRIPTION: LARC 8-TPT-693 ([A43]), LARC 8-TPT-693 ([A43]), LARC 8-TPT-693 ([A43])

CONFIGURATION: 14, 14/57, 02/14/57

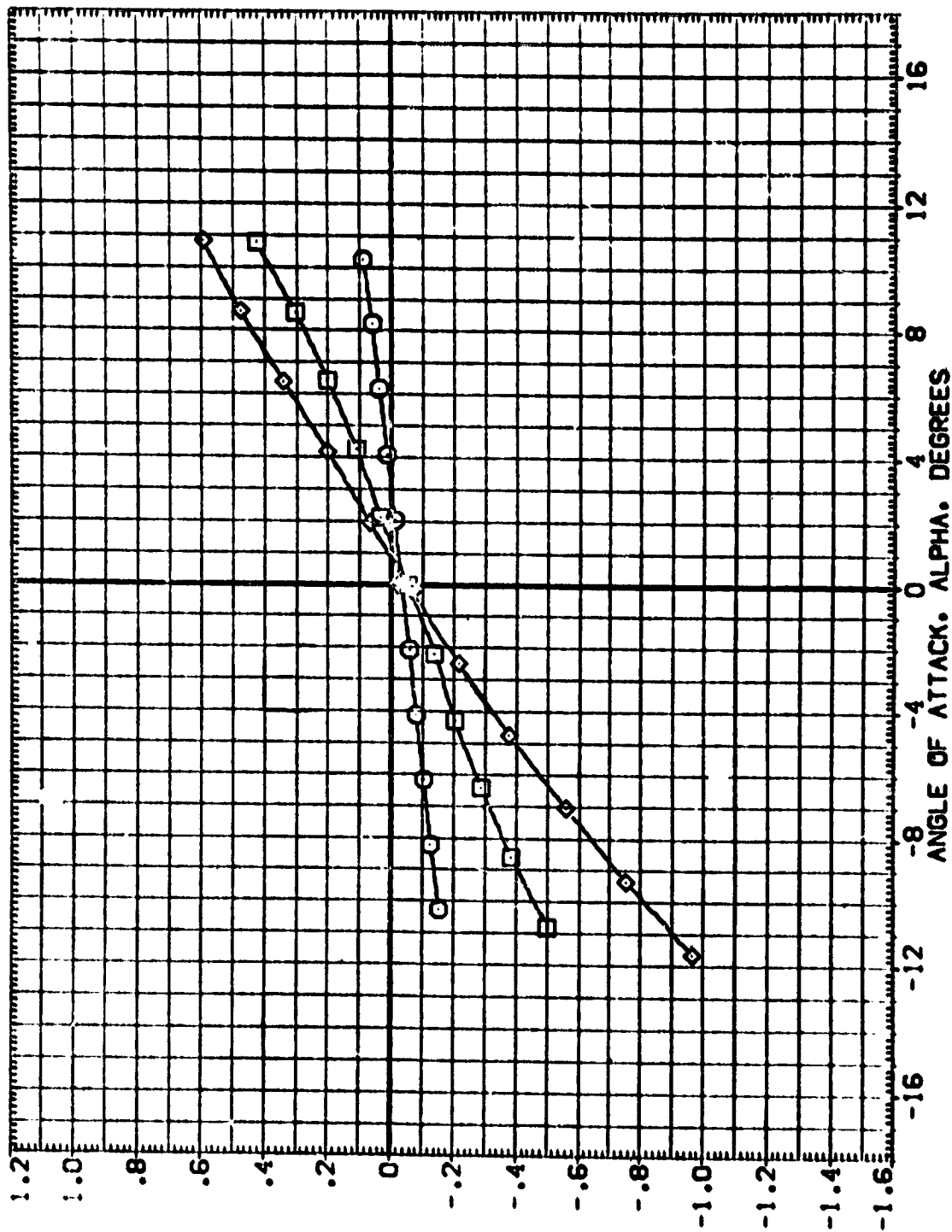
ELV-00: .000, ELV-01: .000, ELV-02: .000, ELV-03: .000

REFER: SREF: 30.0000, LREF: 250.0000, BREF: 1250.0000, XMRP: 976.0000, YMRP: 400.0000, ZMRP: 400.0000, SCALE: .0100

INFORMATION: SO.FT.: 30.0000, IN.CES.: 250.0000, IN.XI.: 1250.0000, IN.YI.: 976.0000, IN.ZI.: 400.0000

FOREBODY NORMAL FORCE COEFFICIENT • CNF

DATA SET SYMB.	CONFIGURATION DESCRIPTION	ELV-LD	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
{B-C020}	LARC 8-TPT-693 (1A43) CONFIGURATION 14					SREF 2650.0000 50.51
{B-C019}	LARC 8-TPT-693 (1A43) CONFIGURATION 14/57	.000	.000	.000	.000	LREF 1250.3000 INO-E5
{B-C006}	LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57	.000	.000	.000	.000	BREF 1250.3000 INO-E5
						XPRP 976.0700 IN. Y7
						YPRP .0000 IN. Z7
						ZPRP 400.0000 IN. Z7
						SCALE .0100



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20

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DATA SET SYMBOL: (B-C02) (B-C03) (B-C04)

CONF: LARC 8-TPT-693 LARC 8-TPT-693 LARC 8-TPT-693

DESCRIPTION: (A43) CONF: (A43) CONF: (A43)

T4: 74/74/57 02/74/57

ELV-LS ELV-L ELV-R ELV-R0

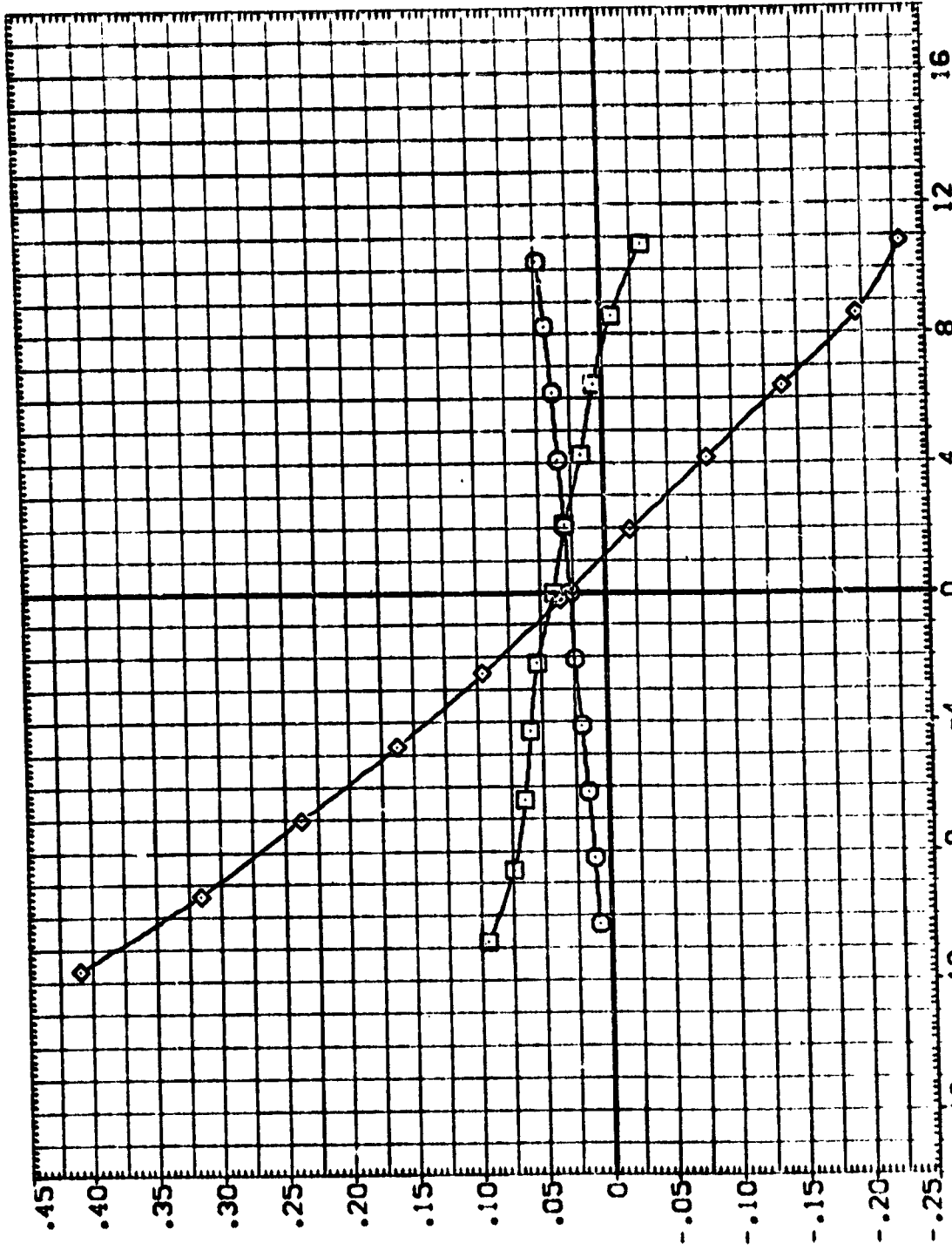
.000 .000 .000 .000

REF: SREF LREF BREF XREF YREF ZREF

INFORMATION: SC-ES INC-ES IN-XT IN-VT IN-ZT

SCALE: 400.0000 .0100

WING BODY PITCHING MOMENT COEFFICIENT • CLM



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

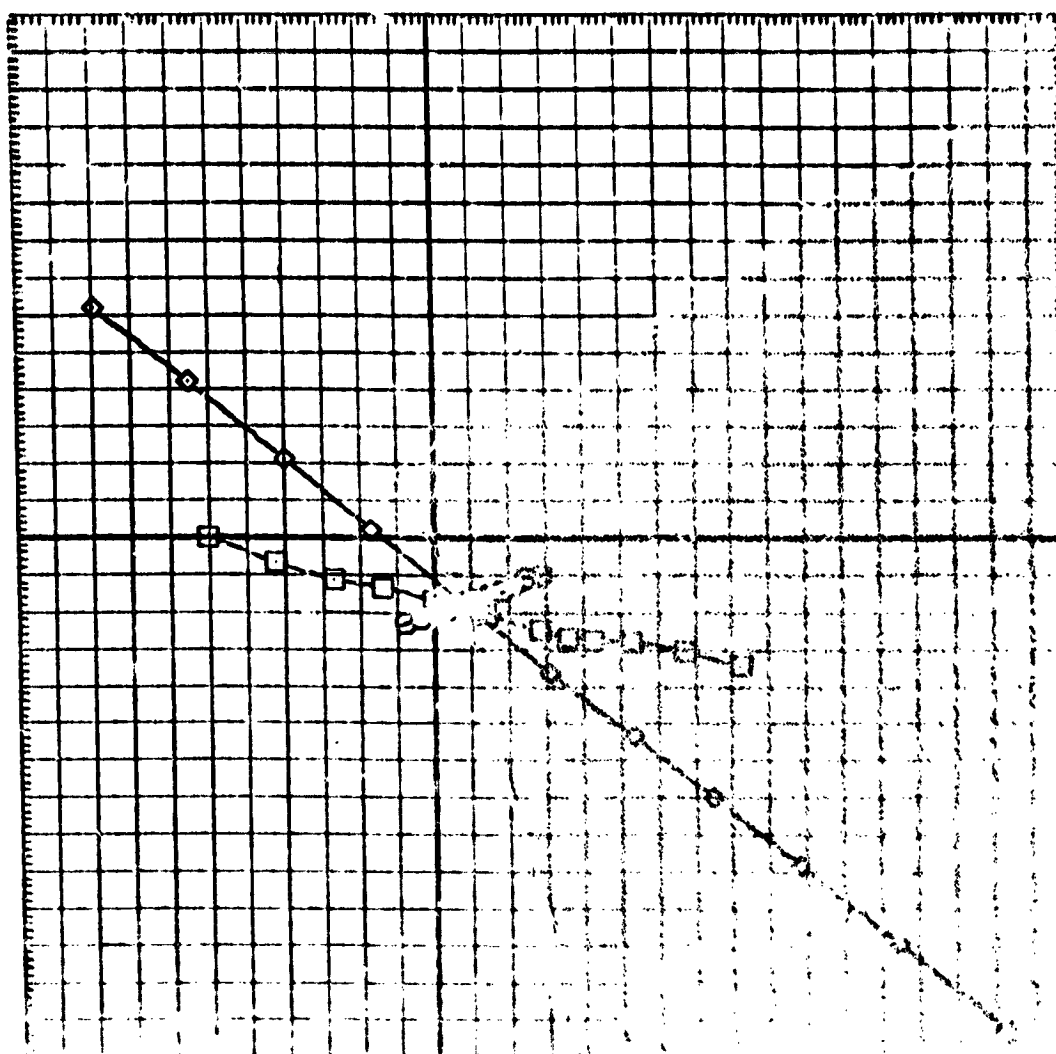
(F)MACH = 1.20

REFERENCE INFORMATION  
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 BREF 1290.3000 INCHES  
 XMRP 976.0000 IN. XT  
 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

T4  
 02/14/57

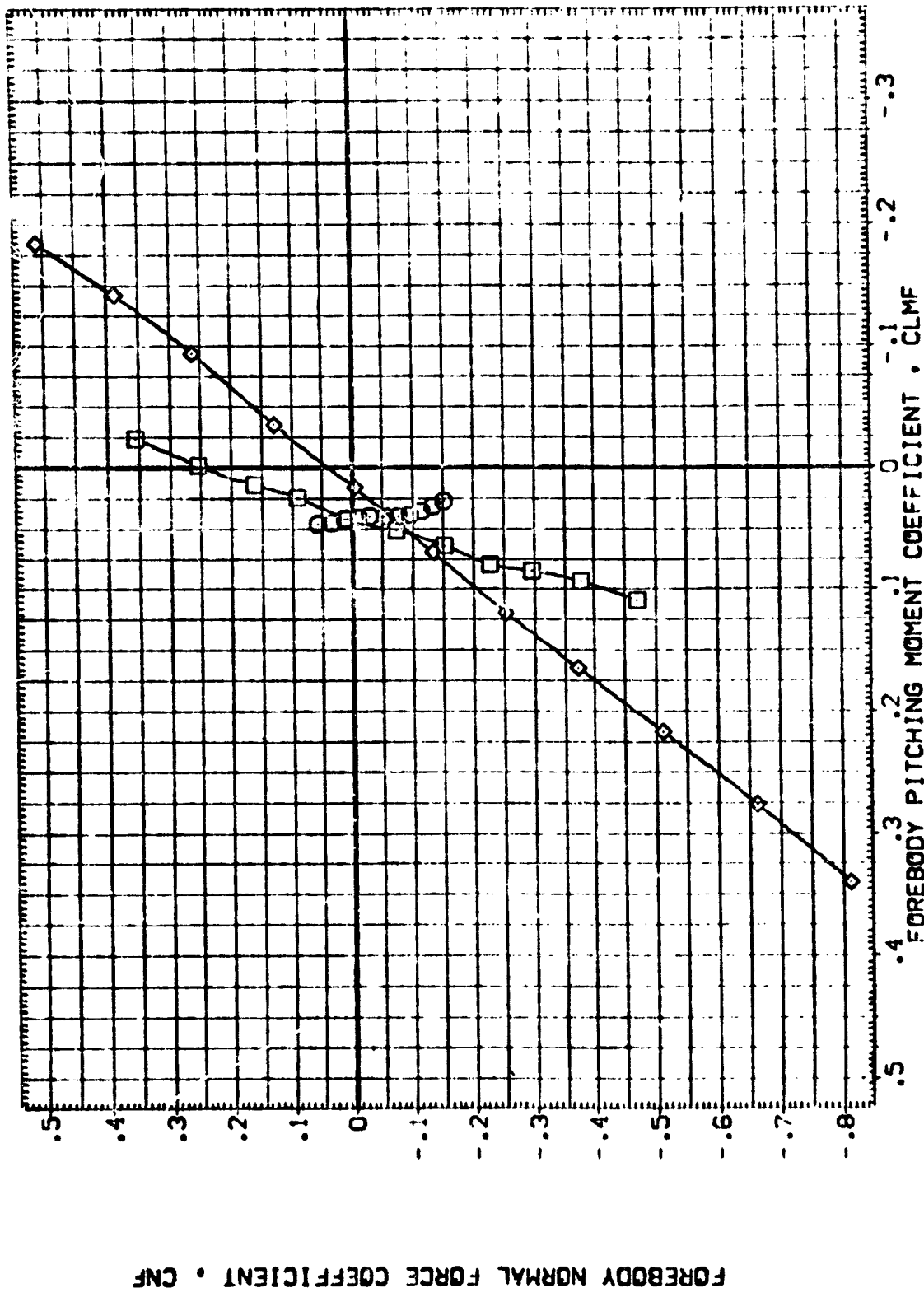
DESCRIPTION  
 143: COF. GURATION  
 143: COF. GURATION  
 143: COF. GURATION



.2    .3

COEFFICIENT OF FRICTION - CLMF  
 CHARACTERISTICS

CASE 8-14-893  
 CONFIGURATION 143  
 DATE 8-14-57  
 TIME 14:57  
 IN. 21  
 400,000  
 101.26  
 SCALE



FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = .80



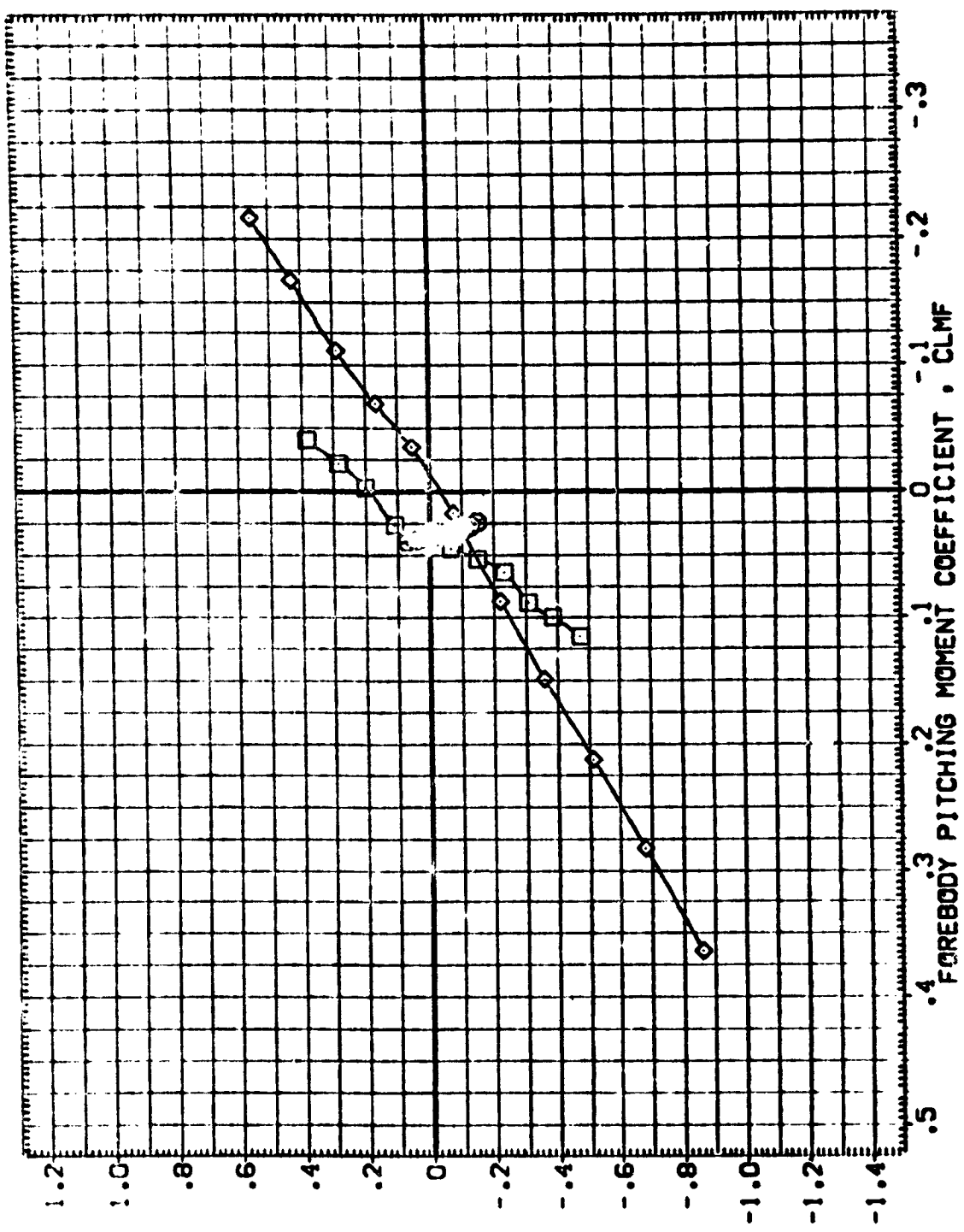
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 LREF 1290.3000 IN.-ES  
 BREF 1290.3000 IN.-ES  
 XMRP 976.0000 IN. AT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100

ELV-LO ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000

T4  
 02/14/57

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-893 (1A13) CONFIGURATION  
 LARC 8-TPT-893 (1A13) CONFIGURATION  
 LARC 8-TPT-893 (1A13) CONFIGURATION

DATA SET SYMBOL  
 (B-CC07) □  
 (B-CC19) ◇  
 (B-CC06) ◇



FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

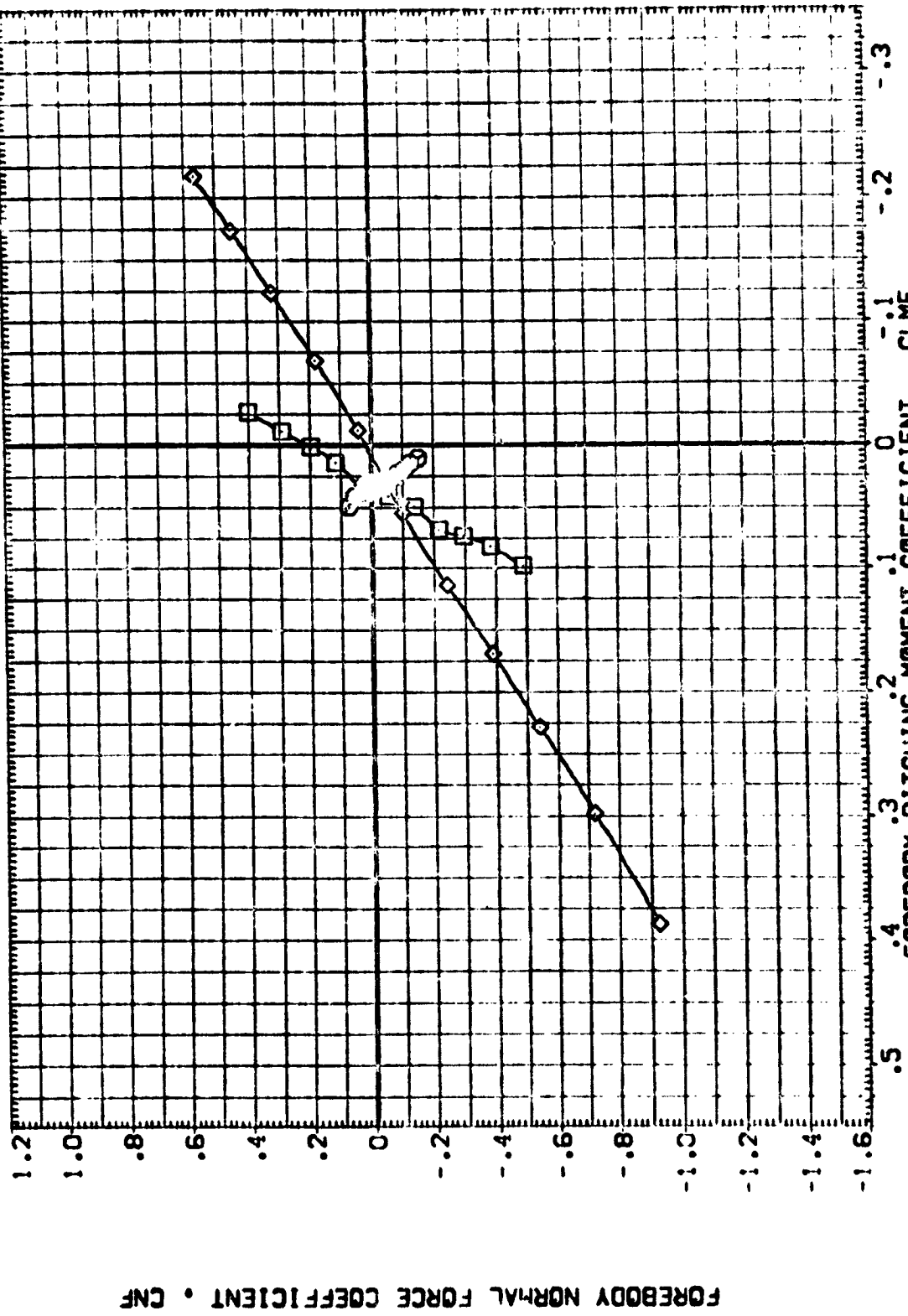
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

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OF POOR QUALITY

DATA SET SYMBOL    CONF [GURATION] DESCRIPTION    T4    REFERENCE CONFIGURATION  
 [B-C073]    O    LARC 8-TPT-693 [A13] CONF [GURATION]    14/57  
 [B-C019]    O    LARC 8-TPT-693 [A13] CONF [GURATION]    02/14/57  
 [B-C006]    O    LARC 8-TPT-693 [A13] CONF [GURATION]

REFERENCE CONFIGURATION  
 SREF    290.0000  
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 BREF    290.5000  
 XPRP    976.0000  
 YPRP    0.0000  
 ZPRP    400.0000  
 SCALE    .0100



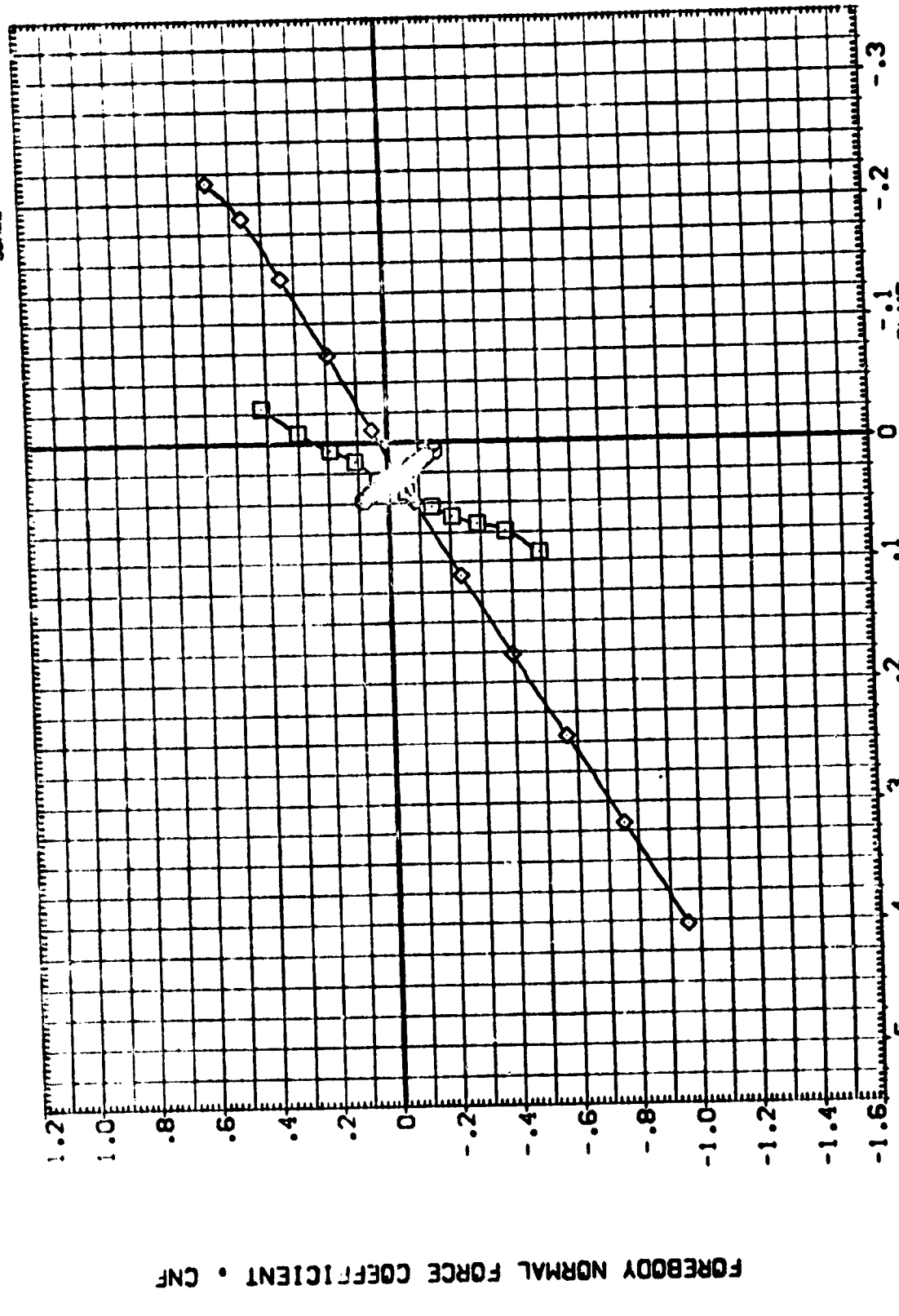
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

CO1MACH = .98



DATA SET SYMBO: (B-CC03) (B-CC19) (B-CC06)  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-893 (1A43) LARC 8-TPT-893 (1A43) LARC 8-TPT-893 (1A43)  
 DATE: 14/57 07/14/57  
 REFERENCE INFORMATION: SREF 2690.0000 50.FT. LREF 1290.3000 INCHES BREF 1290.3000 IN. XT XMRP 576.0000 IN. YT YMRP 400.0000 IN. ZT SCALE .0100

ELV-L0 .000 ELV-L1 .000 ELV-R1 .000 ELV-R0 .000



FOREBODY NORMAL FORCE COEFFICIENT • CNF

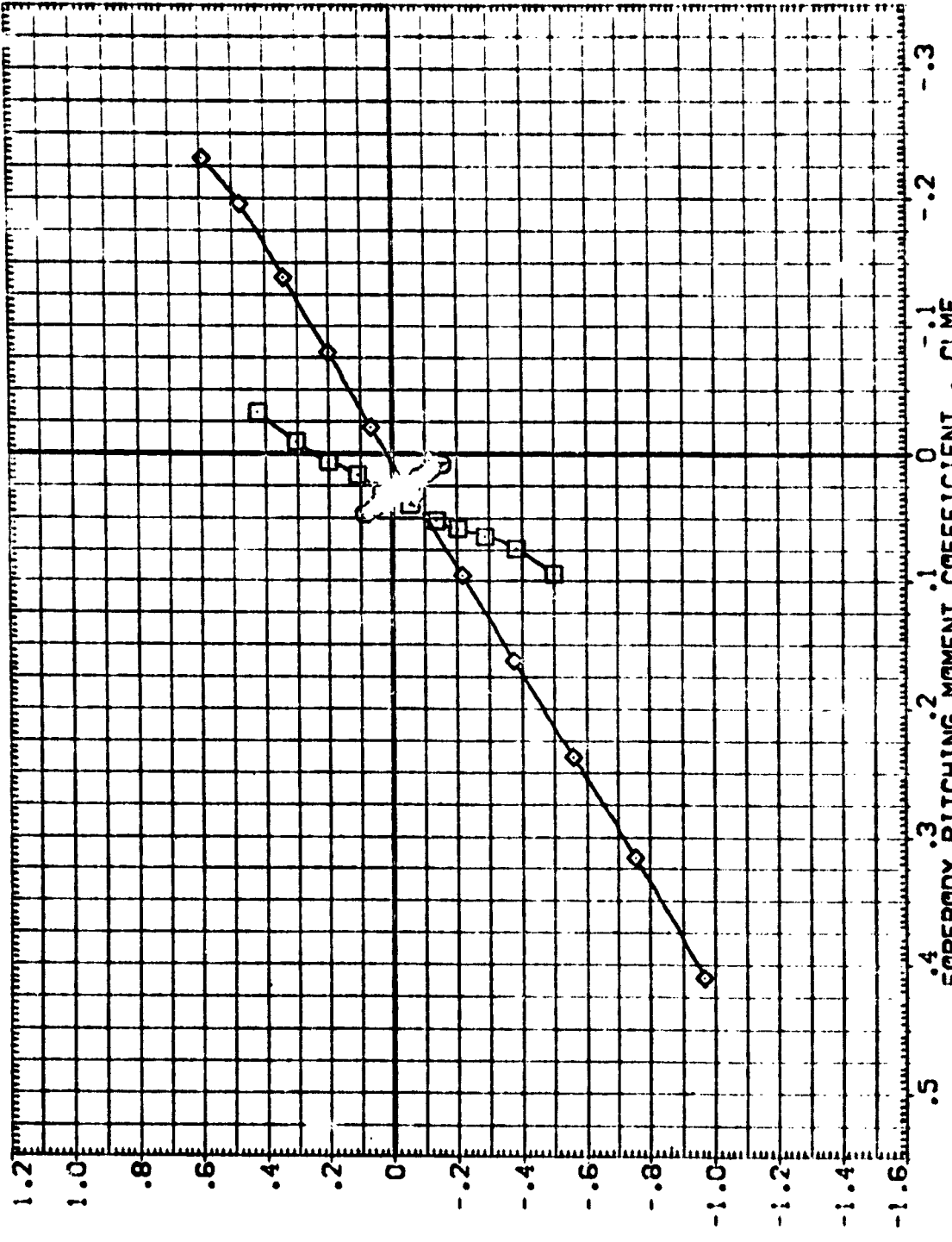
FOREBODY PITCHING MOMENT COEFFICIENT • CMF  
 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 [9-CC20] [ ] [A13] CONFIGURATION  
 [9-CC19] [ ] [A13] CONFIGURATION  
 [9-CC06] [ ] [A13] CONFIGURATION

DATE 02/14/57  
 TIME 14/57

ELV .000 .000 .000 .000  
 ELEV .000 .000 .000 .000  
 XREF .000 .000 .000 .000  
 YREF .000 .000 .000 .000  
 XMRP .000 .000 .000 .000  
 YMRP .000 .000 .000 .000  
 ZMRP .000 .000 .000 .000  
 SCALE .0100 .0100 .0100 .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20

PAGE 30

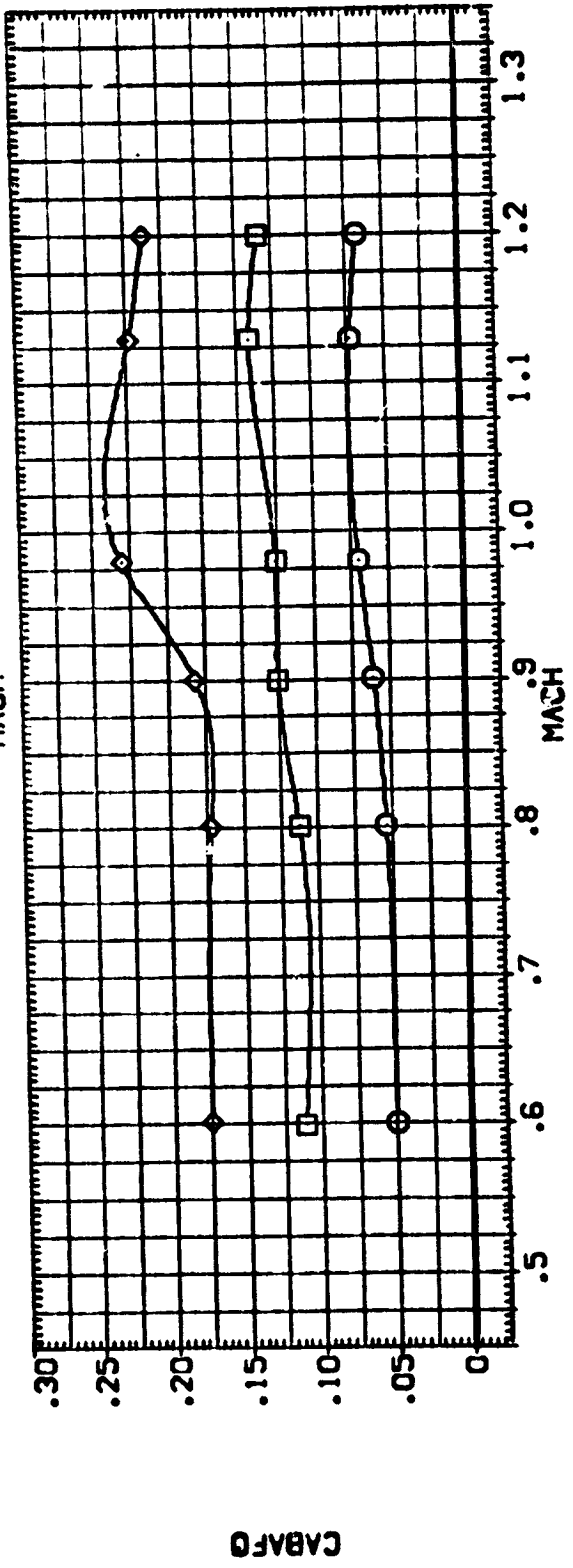
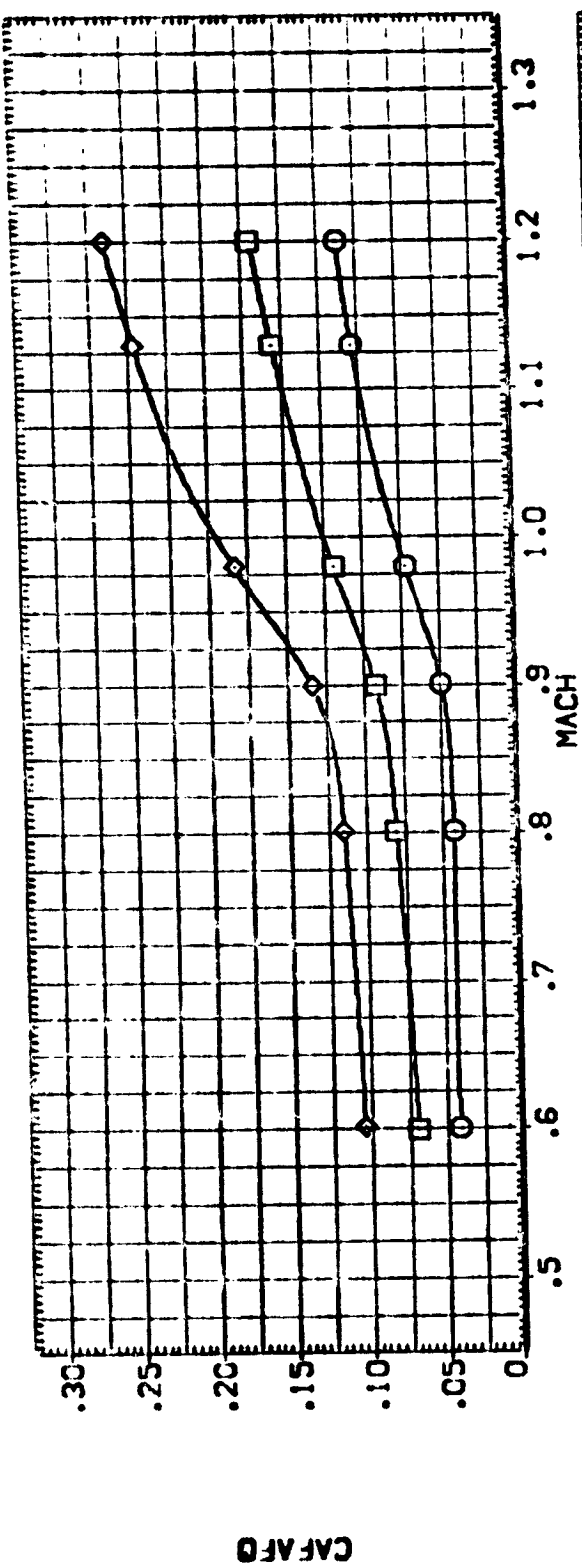


DATA SET SYMBOL: [D-0023] [D-0013] [D-0006]

CONFIGURATION DESCRIPTION:  
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 LARC 8-TPT-603 (1A13) CONFIGURATION T4/57  
 LARC 8-TPT-603 (1A13) CONFIGURATION 02/4/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0

REFERENCE INFORMATION:  
 SREF 2690.0000 SQ.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
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 YPRP 400.0000 IN. YT  
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 SCALE 0.0100



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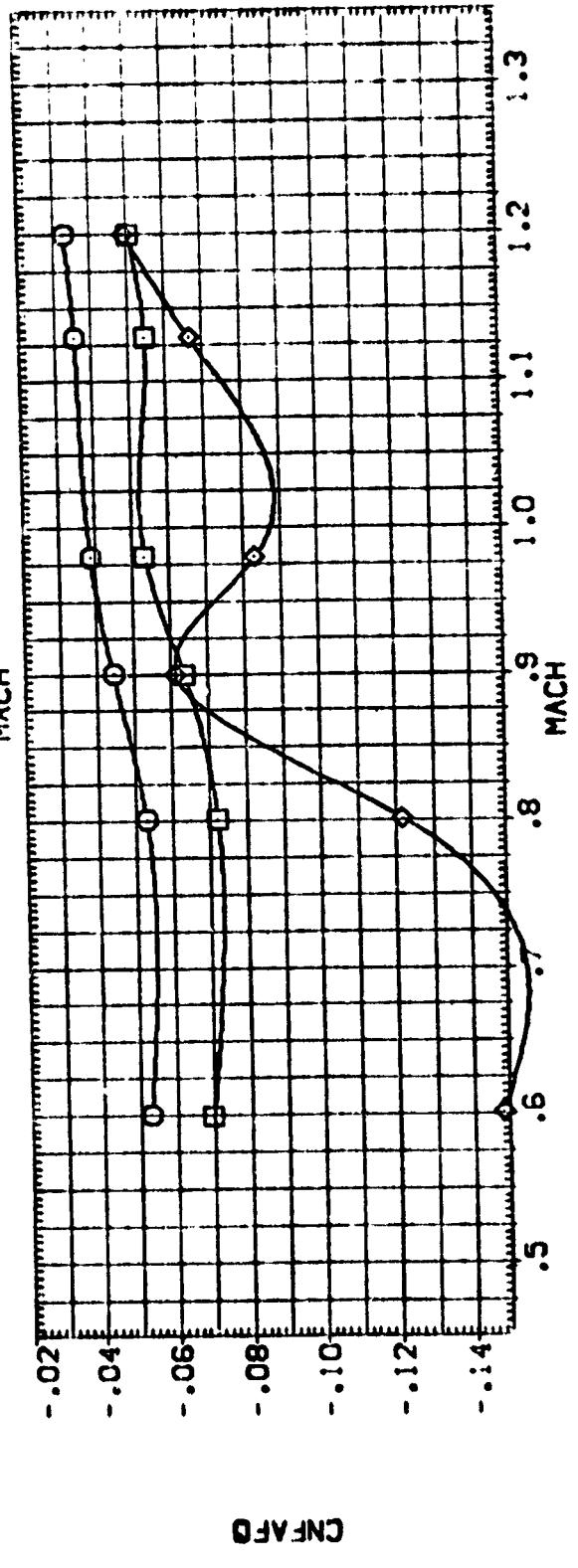
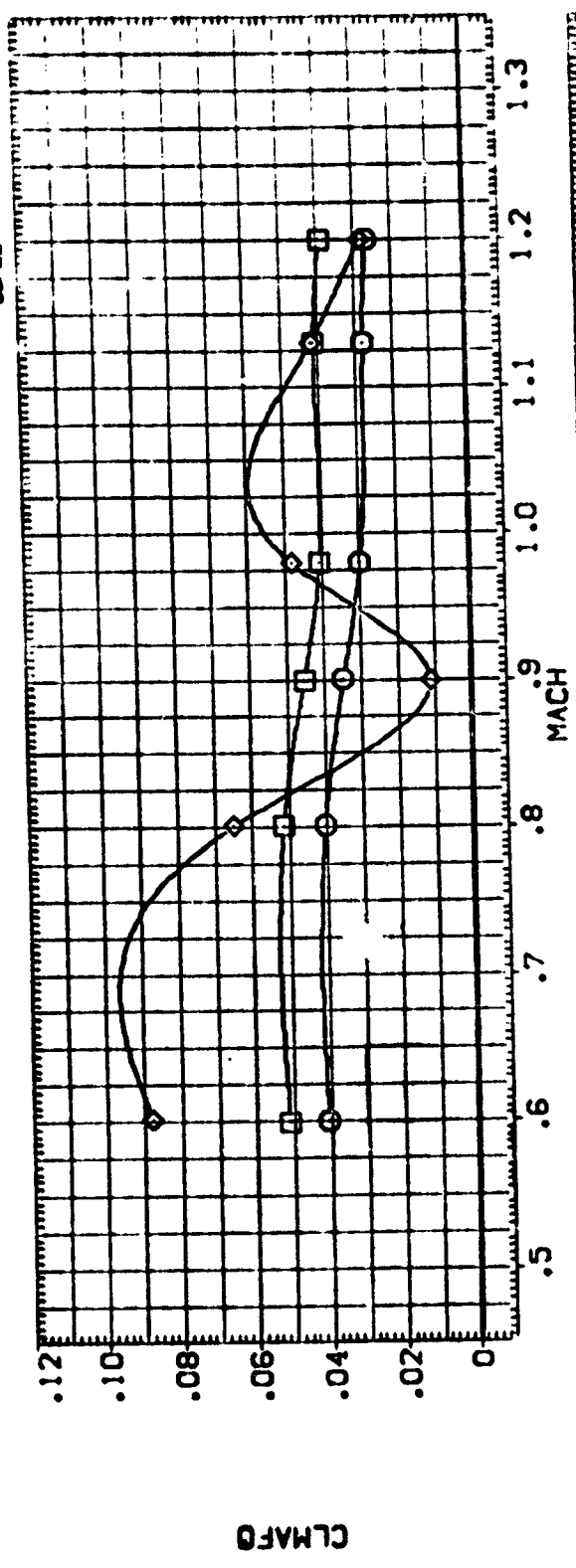
CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: CONF [GURATION] DESCRIPTION: 14  
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 [C-019] LARC 8-TPT-693 [A43] CONF [GURATION] 02/14/57  
 [C-006] LARC 8-TPT-693 [A43] CONF [GURATION]

REF: X-45  
 STAF: 690.0100  
 USEF: 290.3000  
 BREF: 290.3000  
 XMRP: 976.0000  
 ZMRC: 400.0000  
 SCALE: .0100

ELV-LG: .000  
 ELV-T: .000  
 ELV-RD: .000

IN: 21



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: 8-0020  
 8-0019  
 8-0006

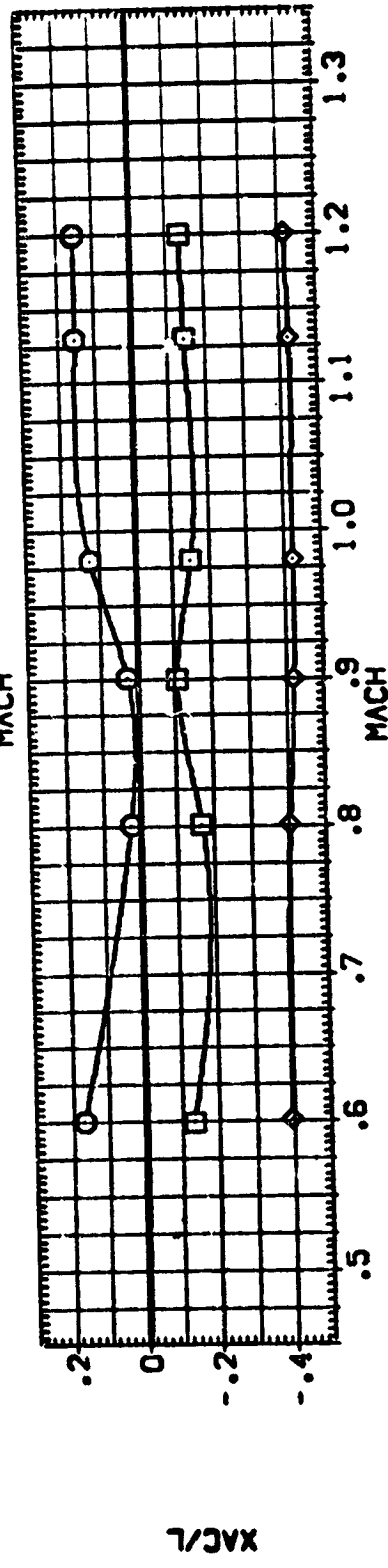
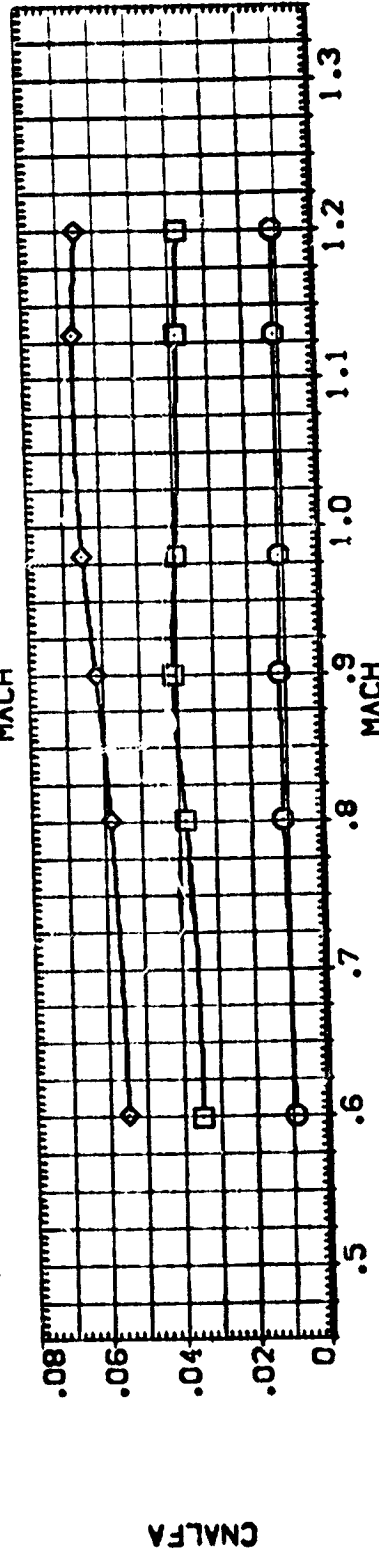
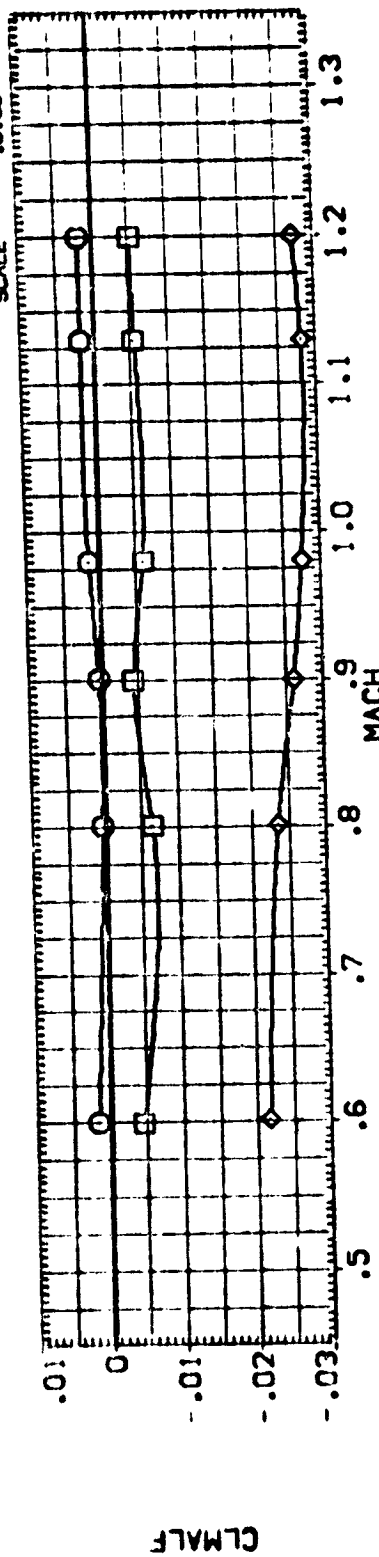
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 LARC 8-TPT-893 (1A13)  
 LARC 8-TPT-893 (1A13)  
 LARC 8-TPT-893 (1A13)

14  
 T4/57  
 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000  
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 BREF 1290.3000  
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 ZTRP 400.0000  
 SCALE .0100



CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

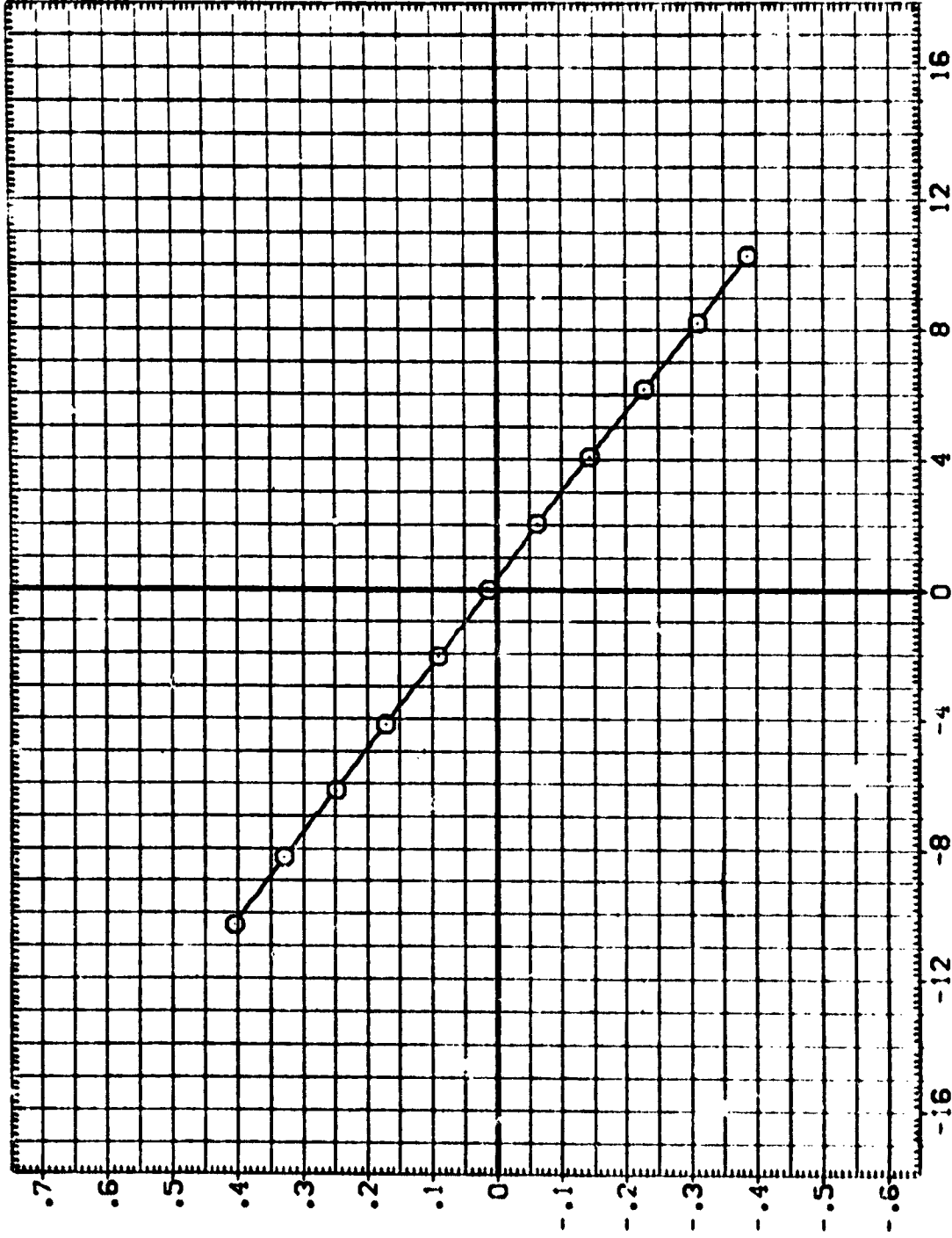
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ELV-L0: .000 ELV-P1: .000 ELV-R0: .000

REF: 10000 IN. Y1  
 REF: 30000 IN. X1  
 REF: 30000 IN. Z1  
 YMRP: 976.0000  
 ZMRP: 400.0000  
 SCALE: .0100

SIDE FORCE COEFFICIENT, CY



LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

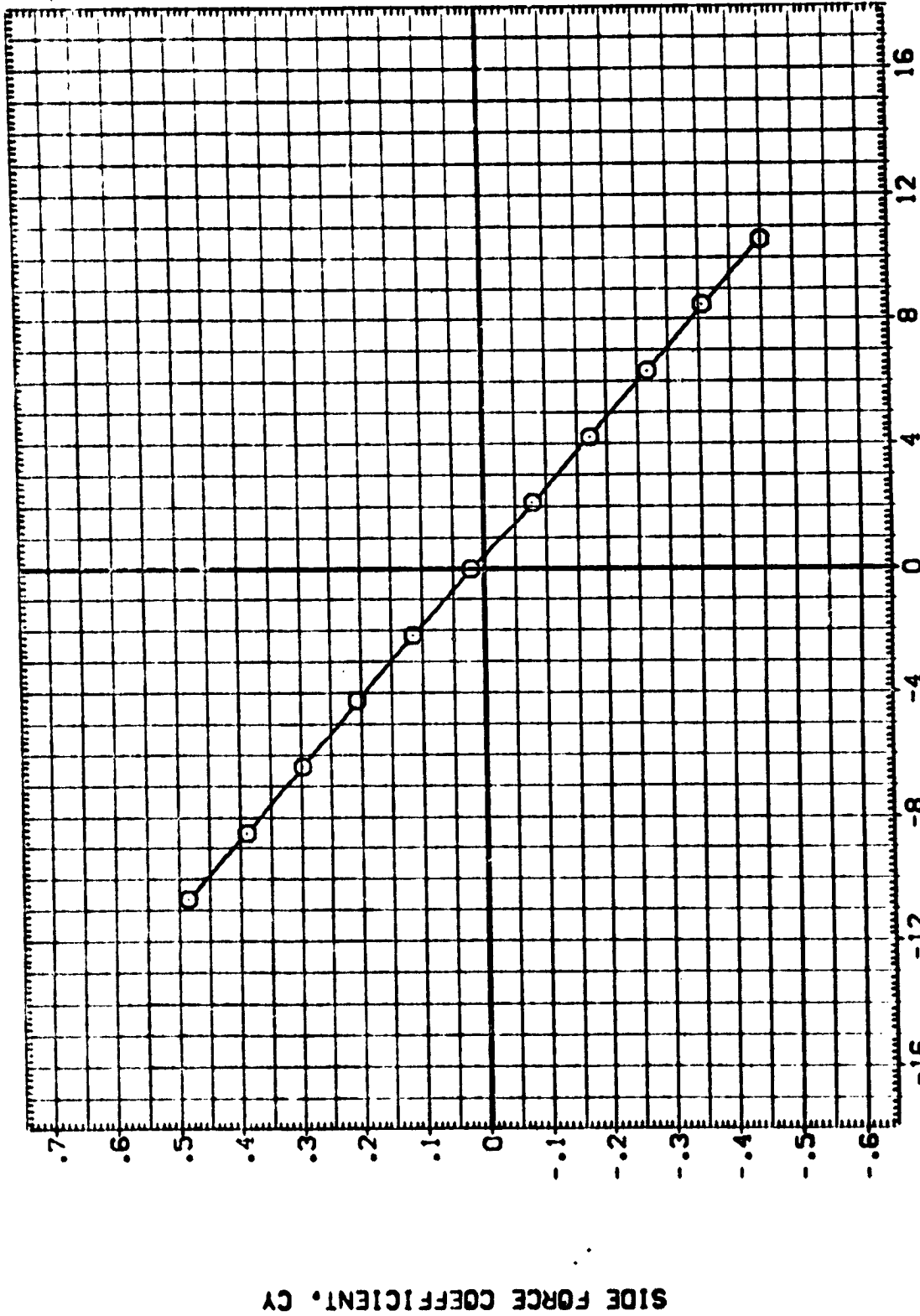
(M)MACH = .60



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 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100

ELV-L0 .000  
 ELV-L1 .000  
 ELV-R1 .000  
 ELV-R0 .000

DATA SET SYMBOL: ○ CONFIGURATION DESCRIPTION: LANC 8-TPT-683 (1A43) CONFIGURATION 02/14/87



SIDE FORCE COEFFICIENT, CY

SIDESLIP ANGLE, BETA, DEGREES

LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

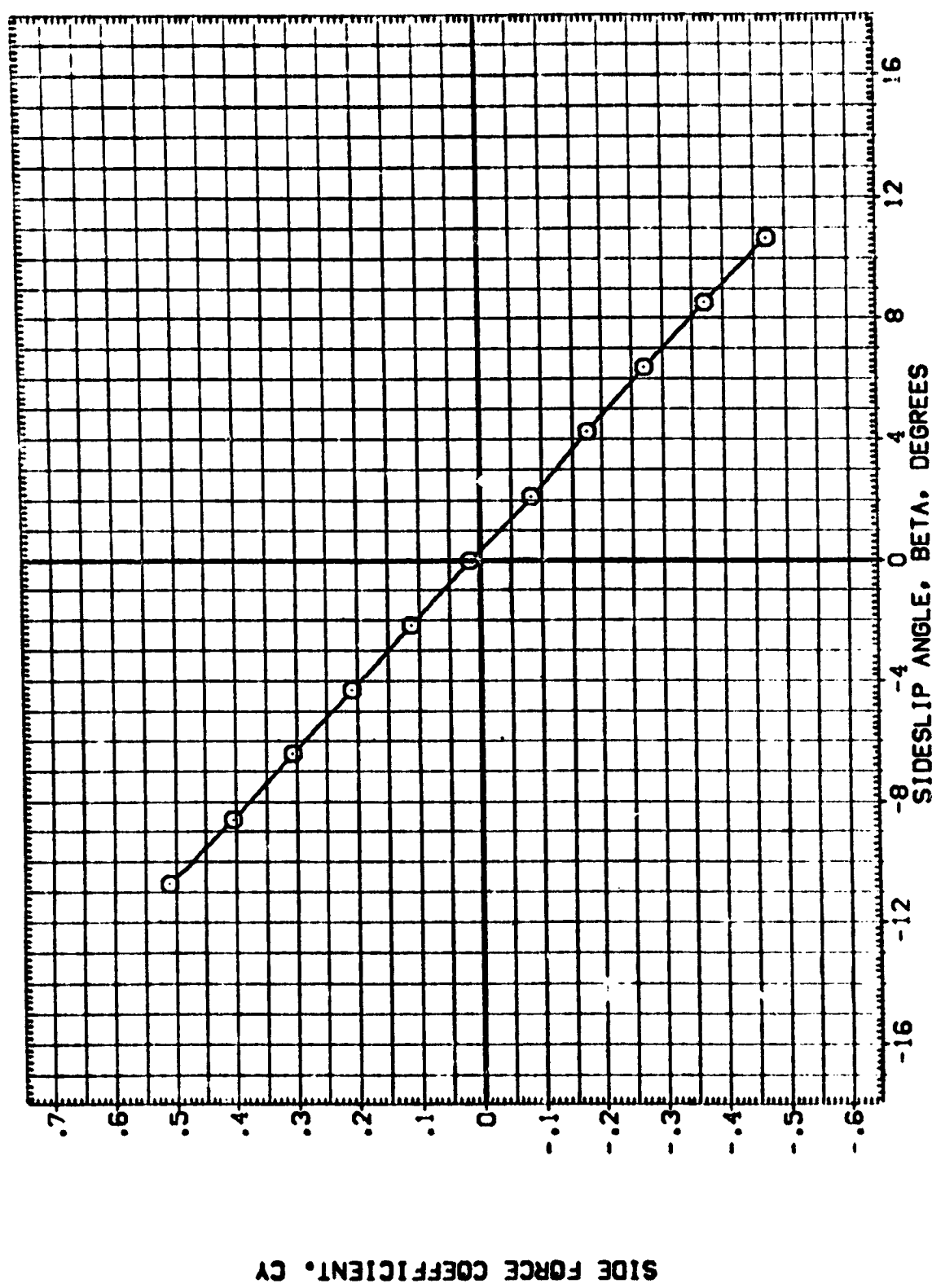
(B)MACH = .90

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REFERENCE  
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 BREF 0.000  
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 YMRP 0.000  
 ZMRP 0.000  
 SCALE 400.0100

ELV-RO 0.000  
 ELV-RI 0.000  
 ELV-LO 0.000

CONFIGURATION DESCRIPTION  
 8-TPT-693 (1A13) CONFIGURATION 02.11.57



SIDE FORCE COEFFICIENT, CY

SIDESLIP ANGLE, BETA, DEGREES

LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

(C)MACH = .98

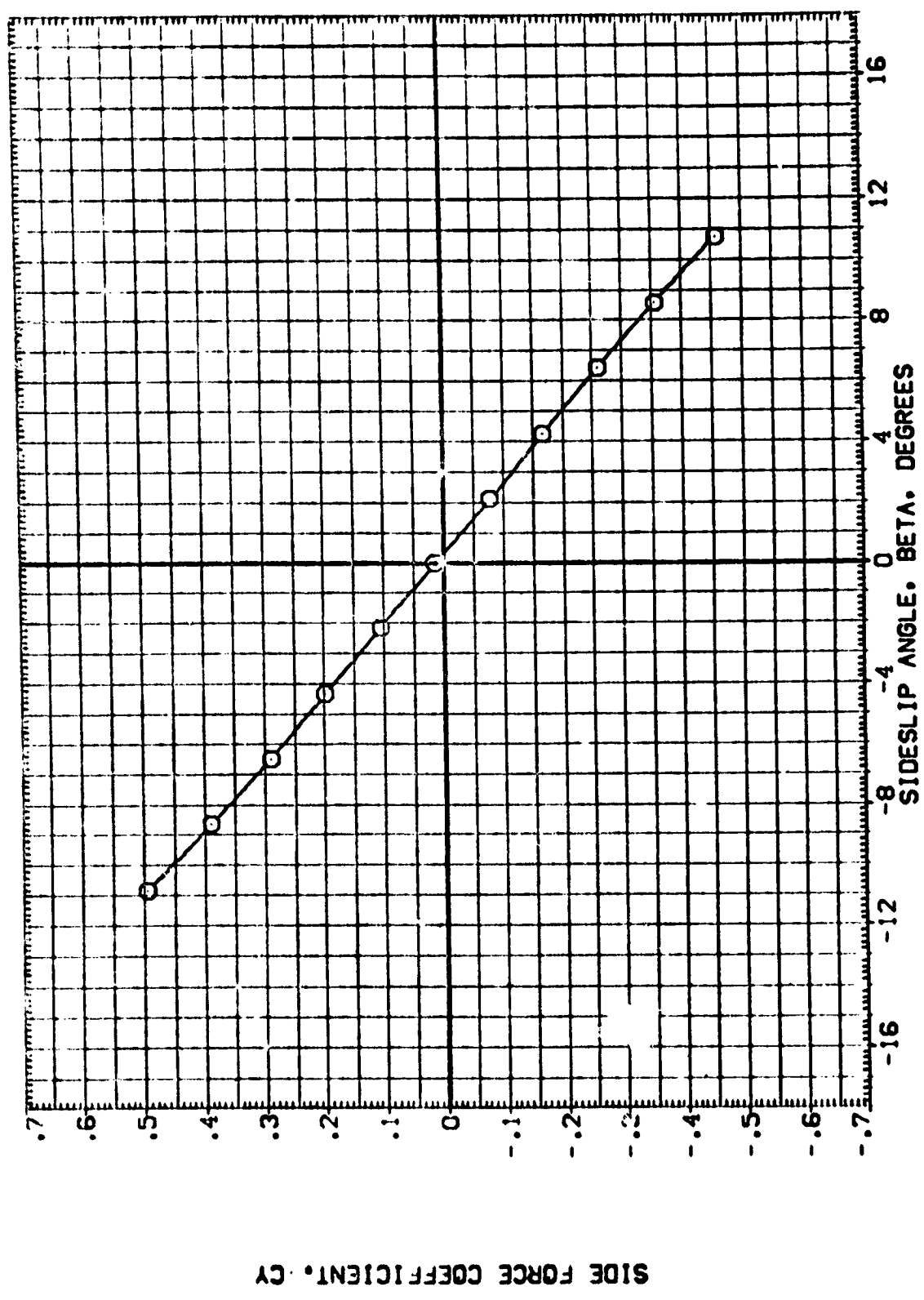




DATA SET SYMBOL (8-0007) CONFIGURATION DESCRIPTION (1A13) CONFIGURATION 02/14/57

ELV-L0 .000 ELV-L1 .000 ELV-R1 .000 ELV-R0 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XMRP 576.0000 IN. Y1  
 YMRP .0000 IN. Y1  
 ZMRP 400.0000 IN. Z1  
 SCALE .0100



SIDE FORCE COEFFICIENT, CY

LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

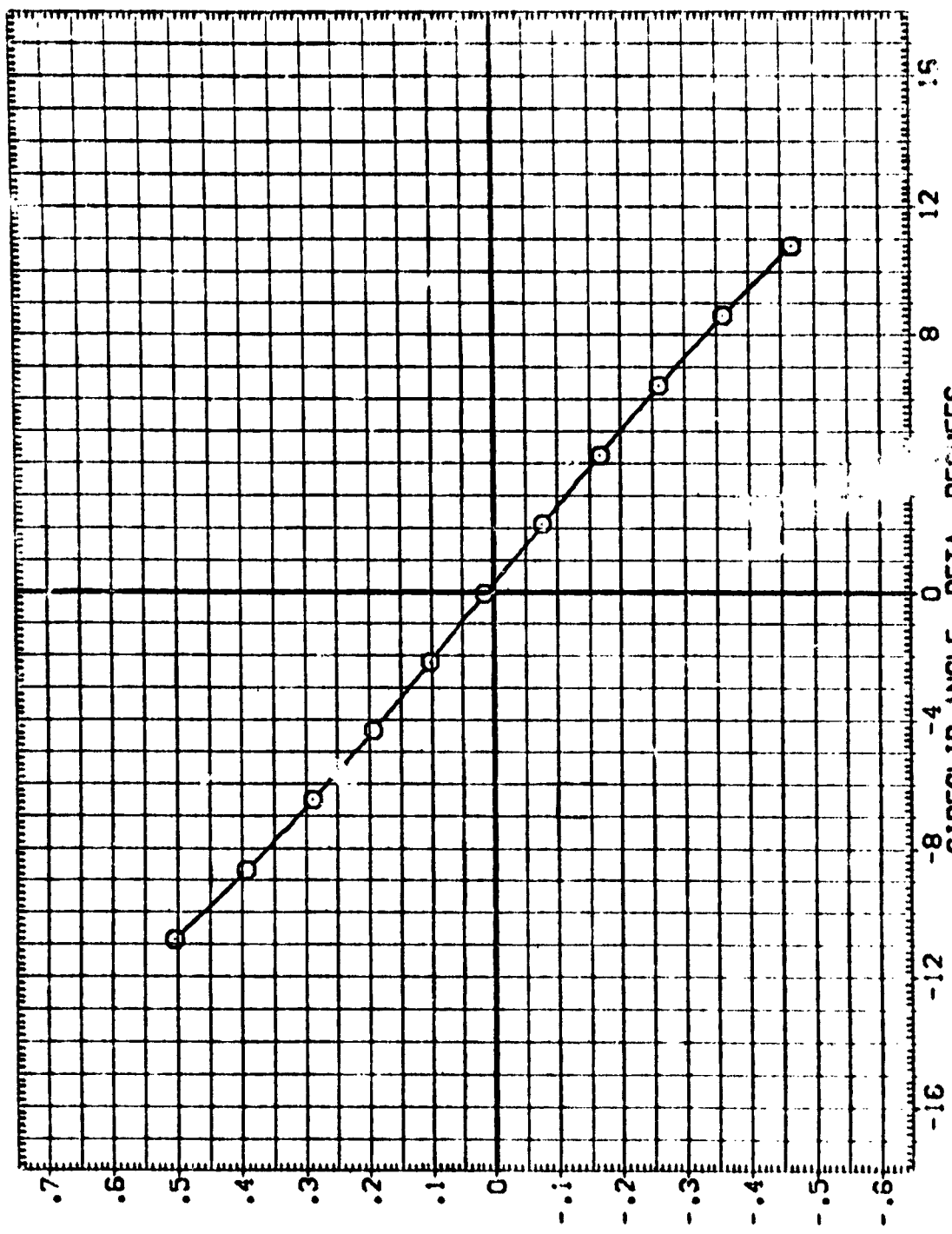
(O)MACH = 1.13

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 REF=0 REF=0 REF=0 REF=0  
 YPRP=0 YPRP=0 YPRP=0 YPRP=0  
 ZPRP=0 ZPRP=0 ZPRP=0 ZPRP=0  
 SCALE 400.0000  
 .0100

REFERENCE  
 SCALE  
 XPRP  
 YPRP  
 ZPRP  
 SCALE

DATA SET 00883 CONFIGURATION DESCRIPTION  
 (B-000) C-141E-553 (1143) CONFIGURATION STATIST



SIDE FORCE COEFFICIENT, CY

SIDESLIP ANGLE, BETA, DEGREES

LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA=0.

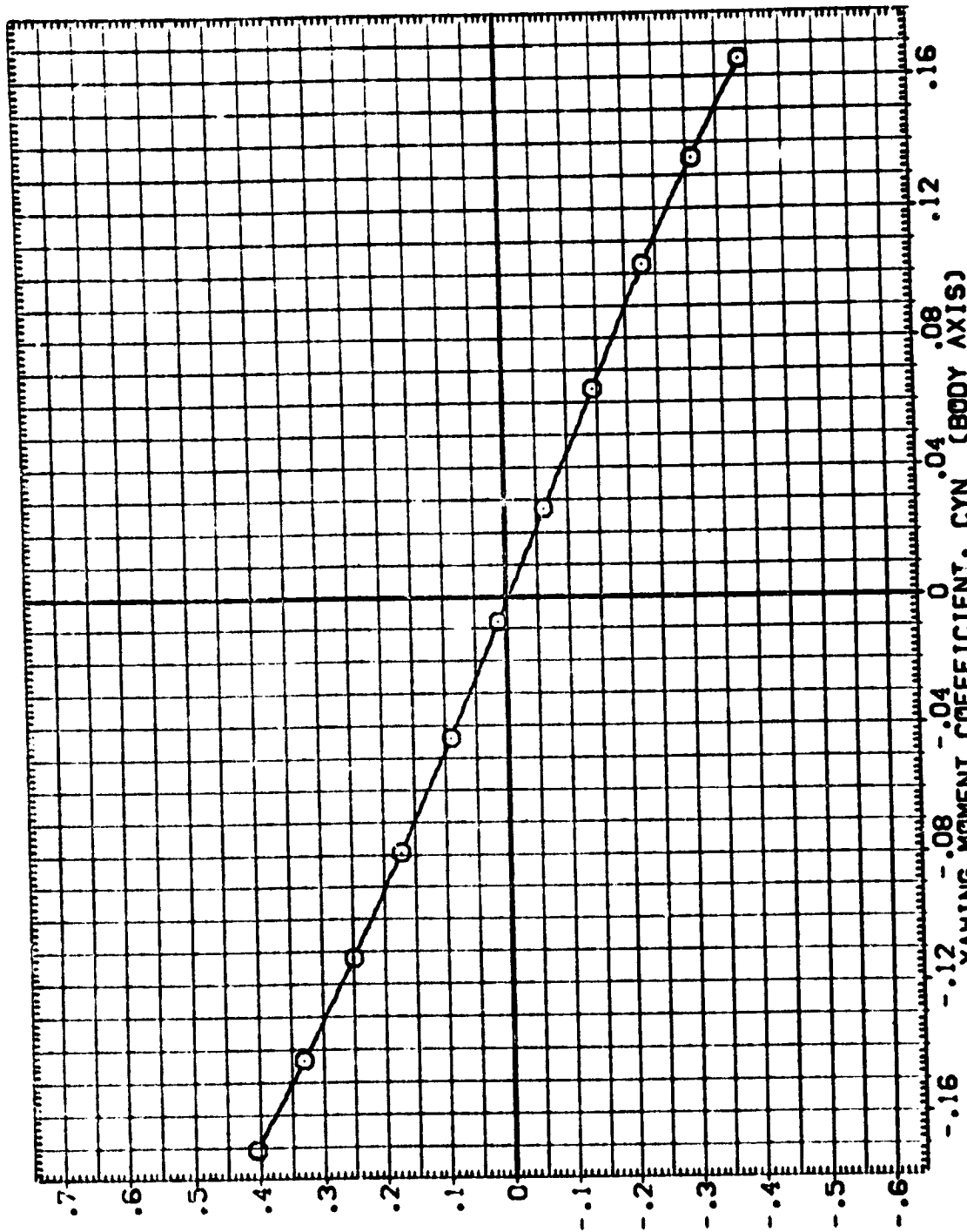
CEMACH = 1.20

PAGE 38

REFERENCE INFORMATION  
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 IN.-ES 1250.3000  
 IN.-ES 1250.3000  
 IN. XT 976.0000  
 IN. YT 400.0000  
 IN. ZT 400.0100  
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 LREF 1250.3000  
 BREF 1250.3000  
 XMRP 976.0000  
 YMRP 400.0000  
 ZMRP 400.0100  
 SCALE .0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

DATA SET SYMBOL (B-C007) ○  
 CONFIGURATION DESCRIPTION LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57



SIDE FORCE COEFFICIENT, CY

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)  
 LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

(A)MACH = .60

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 OF POOR QUALITY

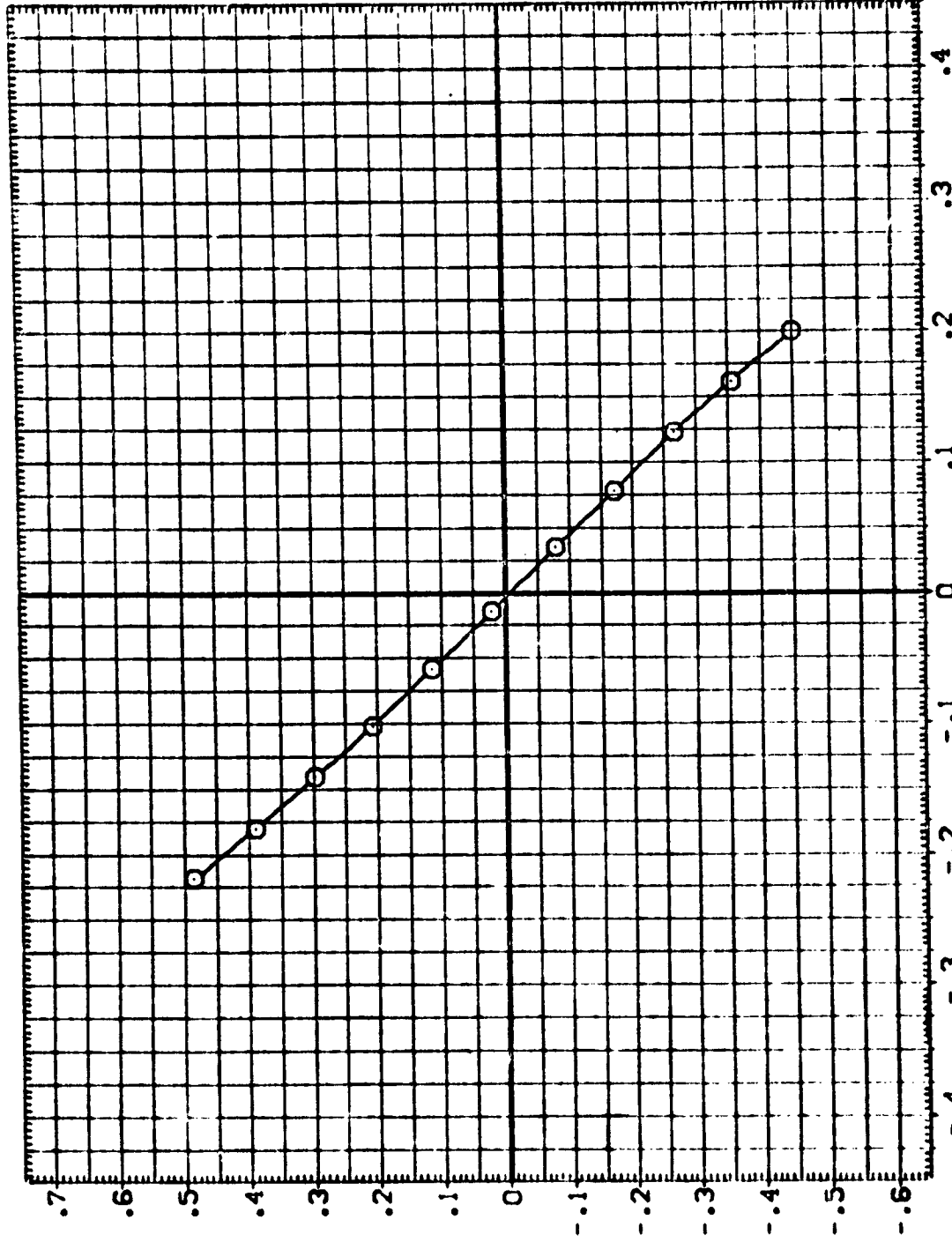
DATA SET SYMBOL: (9-0007) CONFIGURATION DESCRIPTION: JARC 8-TPT-593 (1A13) CONFIGURATION 02/14/57

REF: 0.0000  
 SREF: 0.0000  
 LREF: 0.0000  
 BRP: 976.0000  
 XMRP: 400.0000  
 YMRP: 400.0000  
 ZMRP: 400.0000  
 SCALE: .0100

ELV-00 .000  
 ELV-01 .000  
 ELV-02 .000  
 ELV-03 .000

ELV-04 .000  
 ELV-05 .000  
 ELV-06 .000  
 ELV-07 .000

ELV-08 .000  
 ELV-09 .000  
 ELV-10 .000  
 ELV-11 .000



SIDE FORCE COEFFICIENT, CY

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)  
 LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

(B)MACH = .90



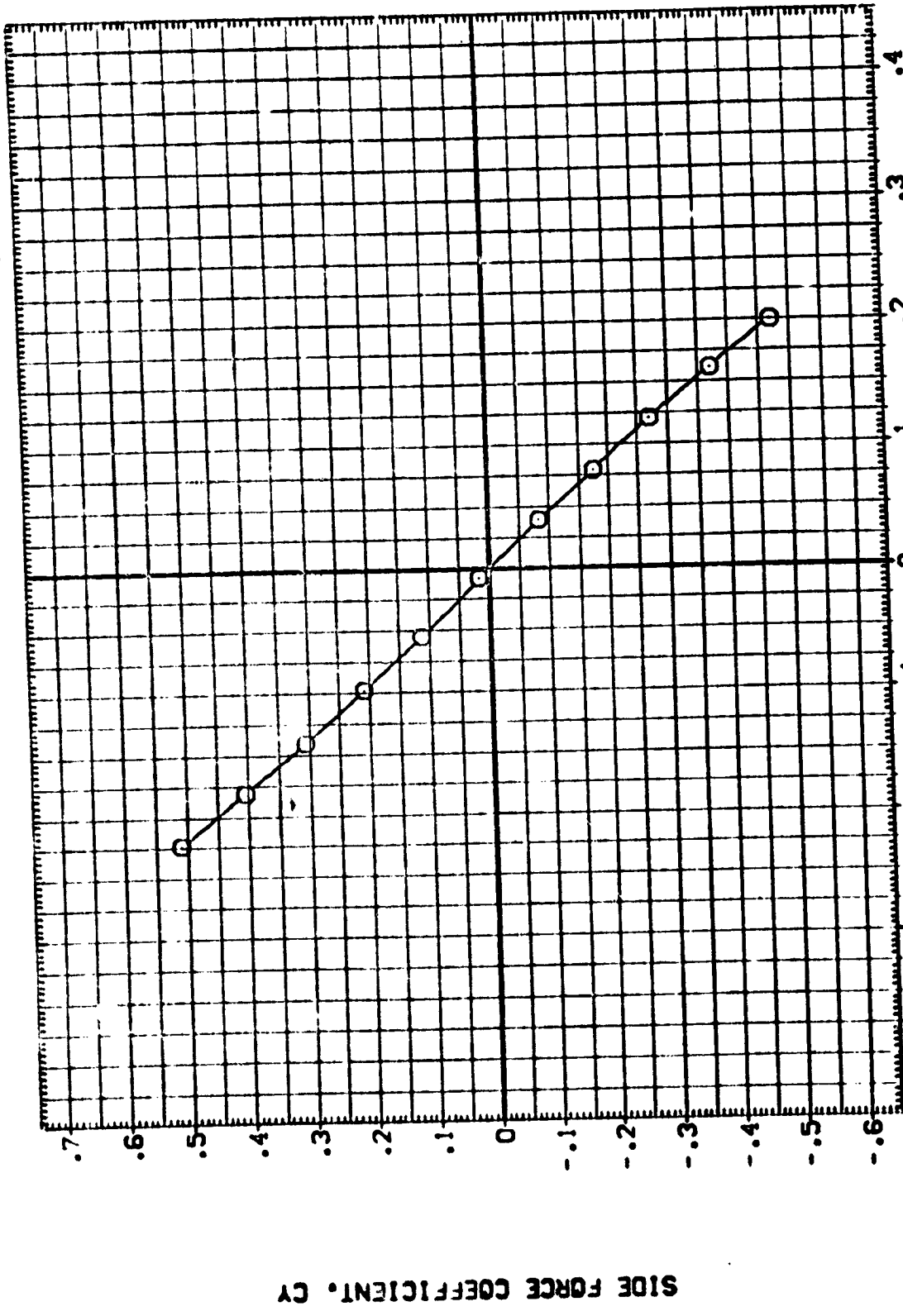
REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	1290.3000	INC-ES
BREF	1290.3000	INC-ES
XMRP	976.0000	IN. YI
YMRP	.0000	IN. ZI
ZMRP	400.0000	IN. ZI
SCALE	.0100	

ELV-L0 ELV-L1 ELV-R1 ELV-R0

DATA SET SYMB. CONFIGURATION DESCRIPTION  
 (8-C007) O LARC 8-TPT-683 (1A13) CONFIGURATION 02/14/57

ELV-L0 .000 ELV-L1 .000 ELV-R1 .000 ELV-R0 .000



SIDE FORCE COEFFICIENT, CY

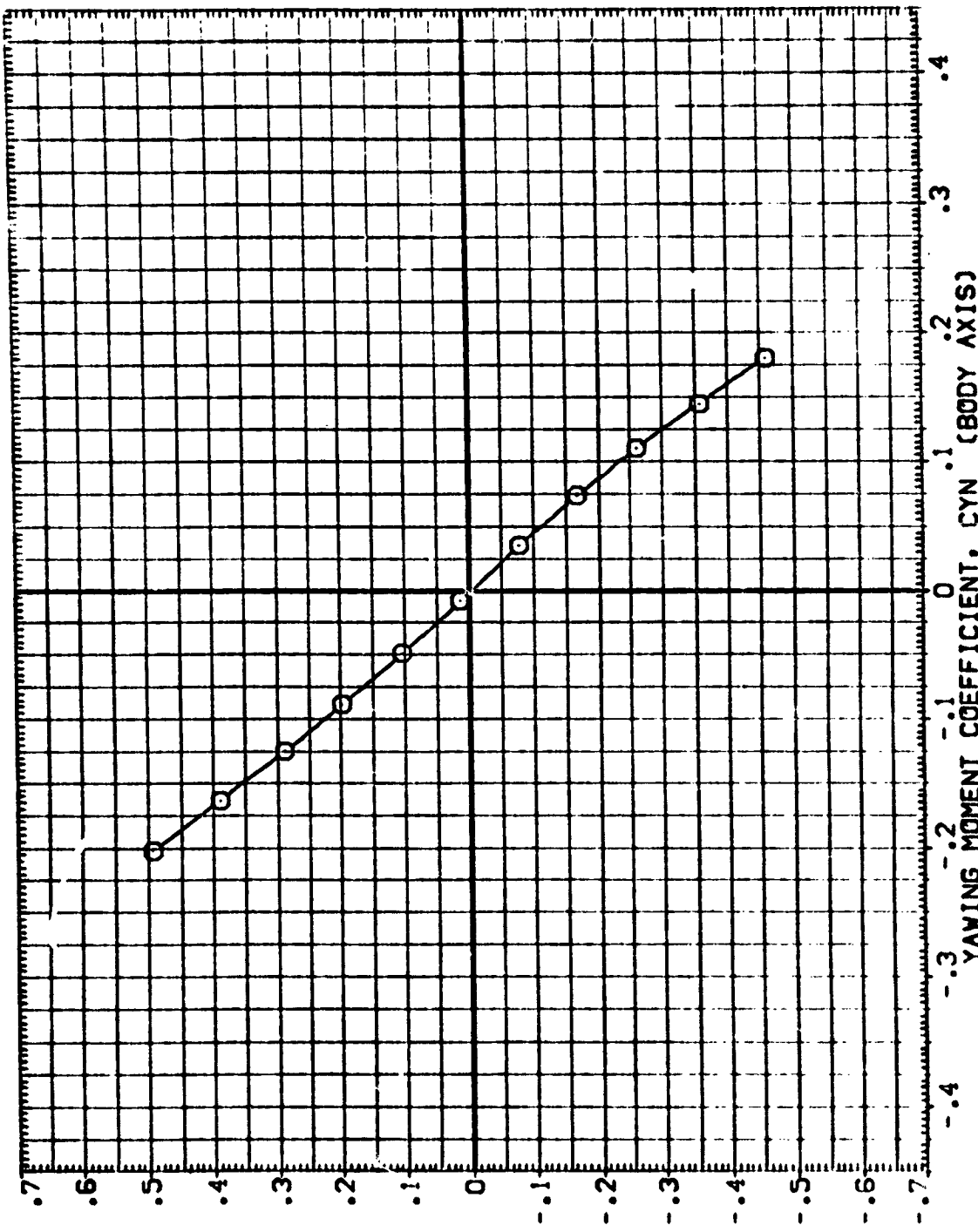
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)  
 LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

ORIGINAL PAGE IS OF POOR QUALITY

REFERENCE: 94  
 SPEC: 100.0000  
 LREF: 100.0000  
 BRPF: 50.0000  
 XMRP: 976.0000  
 YMRP: 0.0000  
 ZMRP: 400.0000  
 SCALE: .0100

ELEV: 1.000  
 ELV: 1.000  
 ELV: 1.000

DATA: 30888 CONFIG: 100 DESCRIPTION: 32/14/57  
 13-0007: 0 100 9-101-883 (143) CONFIGURATION: 32/14/57



SIDE FORCE COEFFICIENT, CY

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

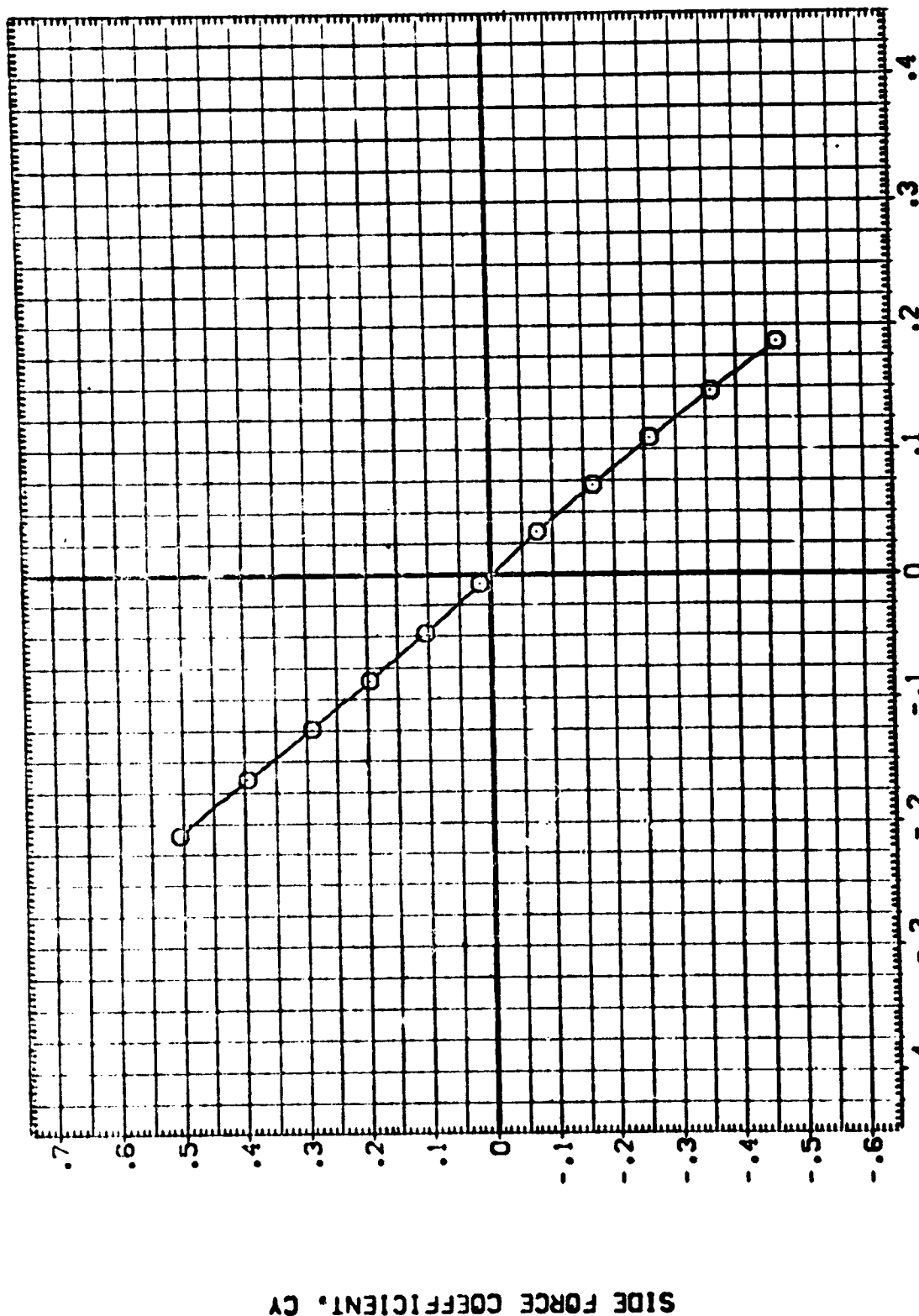
COMACH = .13



REFERENCE INFORMATION  
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 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XMRP 976.0000 IN. YI  
 YMRP 400.0000 IN. ZI  
 ZMRP 400.0000 IN. ZI  
 SCALE .0100

ELV-L0 .000  
 ELV-L1 .000  
 ELV-R1 .000  
 ELV-R0 .000

DATA SET SYMB. (B-C027) ○  
 CONFIGURATION DESCRIPTION LARC 0-TPT-693 (1A13)  
 CONFIGURATION 02/1A/57

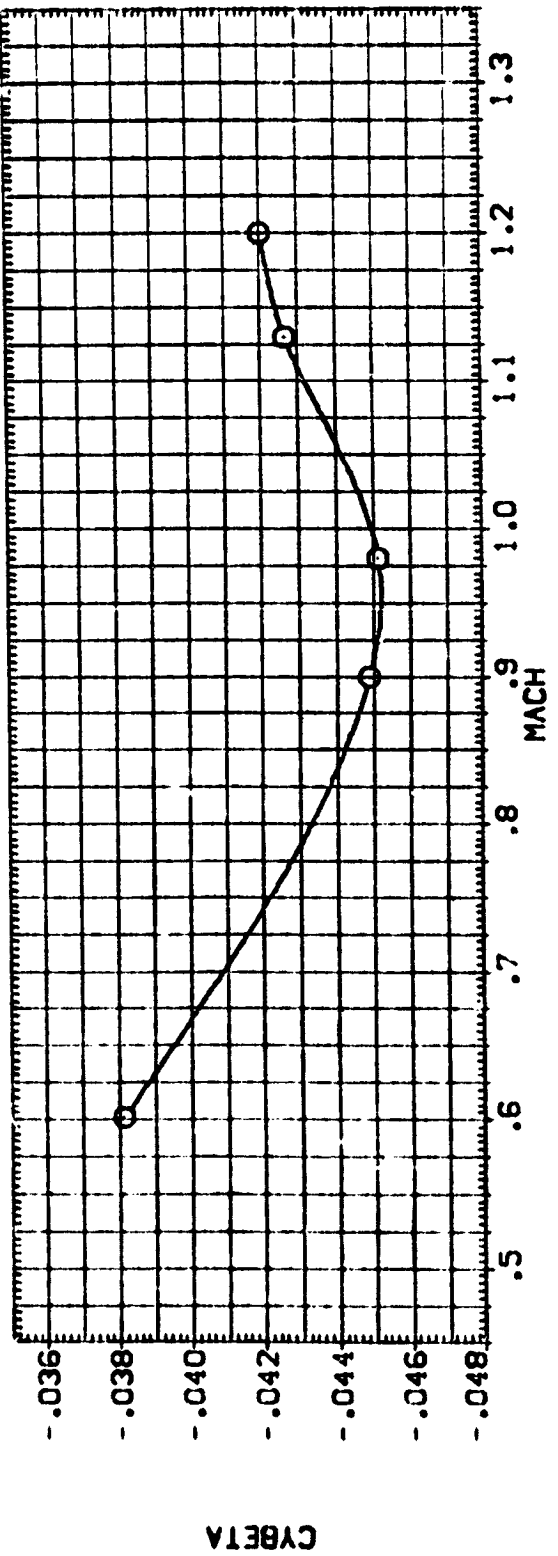
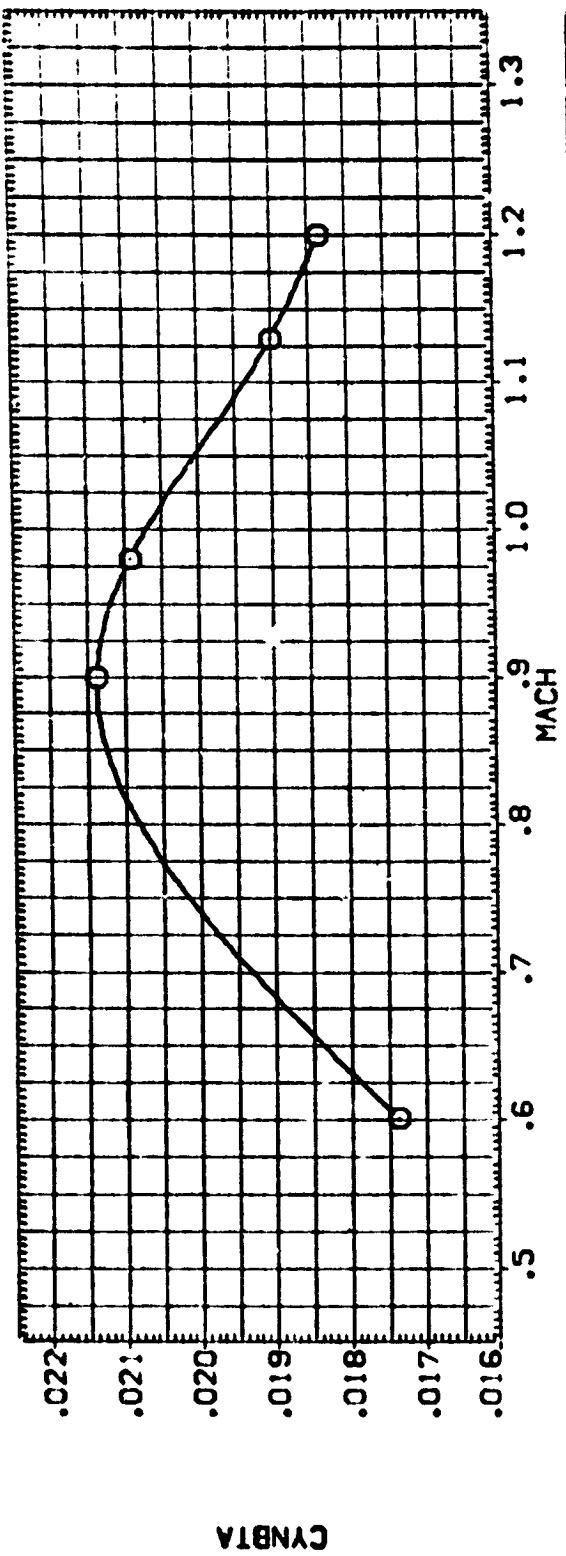


LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

(E)MACH = 1.20

ORIGINAL PAGE IS  
 OF POOR QUALITY

DATE: 03-07-57  
 CONFIGURATION DESCRIPTION: LAUNCH CONFIGURATION 02/14/57  
 REFERENCE: ELV-LC ELV-L ELV-R ELV-RC  
 SREF: .000 .000 .000 .000  
 LREF: .000 .000 .000 .000  
 BREF: .000 .000 .000 .000  
 XMRP: .0000 .0000 .0000 .0000  
 YMRP: .0000 .0000 .0000 .0000  
 ZMRP: .0000 .0000 .0000 .0000  
 SCALE: .0100



LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

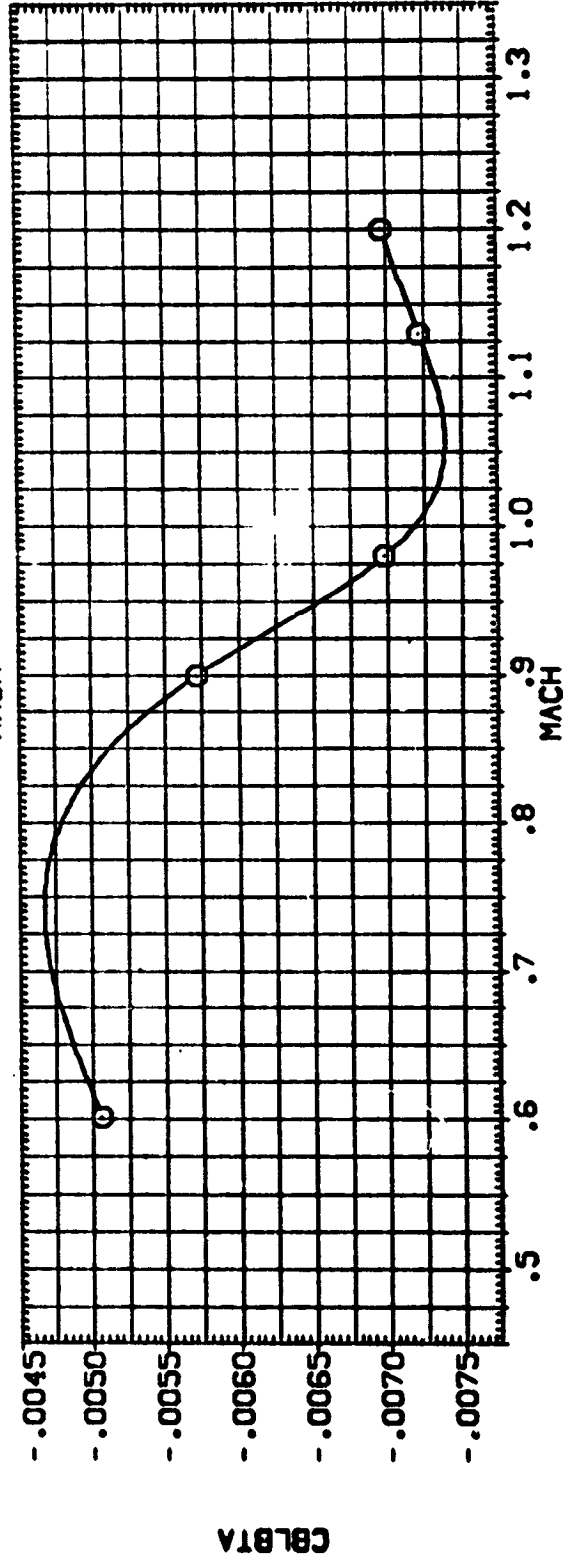
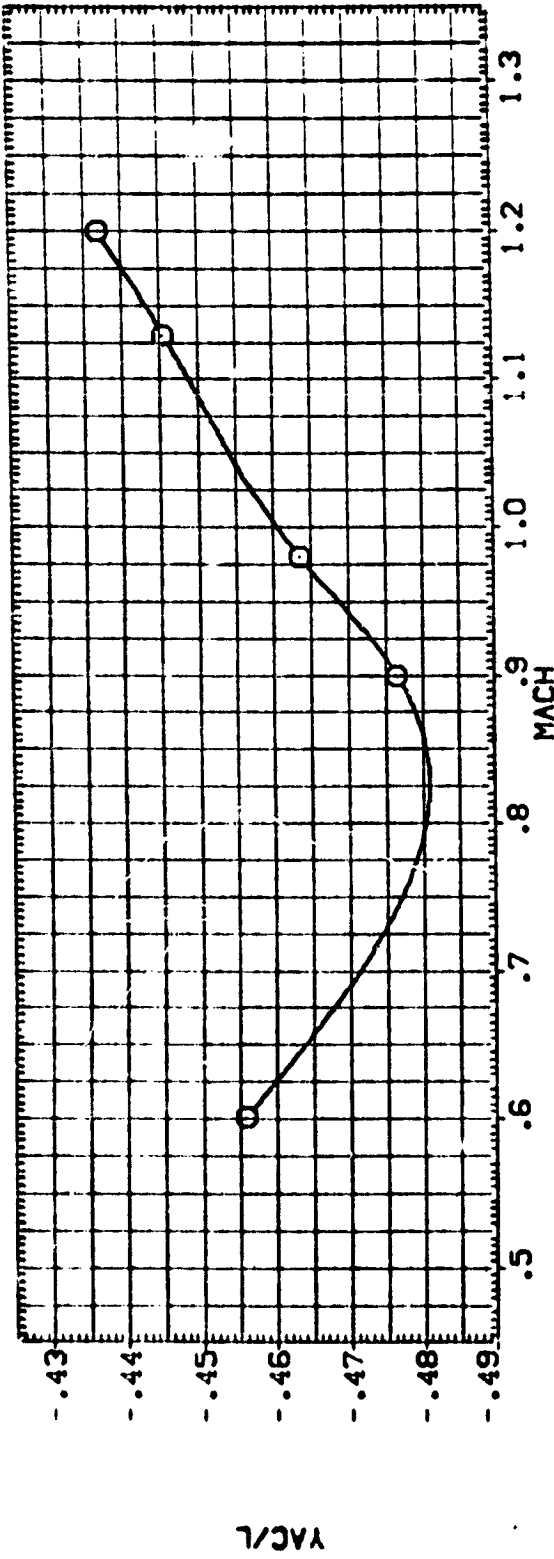




DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (B-C007) O LARC 8-TPT-653 (143) CONFIGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2650.0000 SO.FT.  
 LREF 1250.3000 IN.-ES  
 BREF 1250.3000 IN.-ES  
 XPRP 576.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100



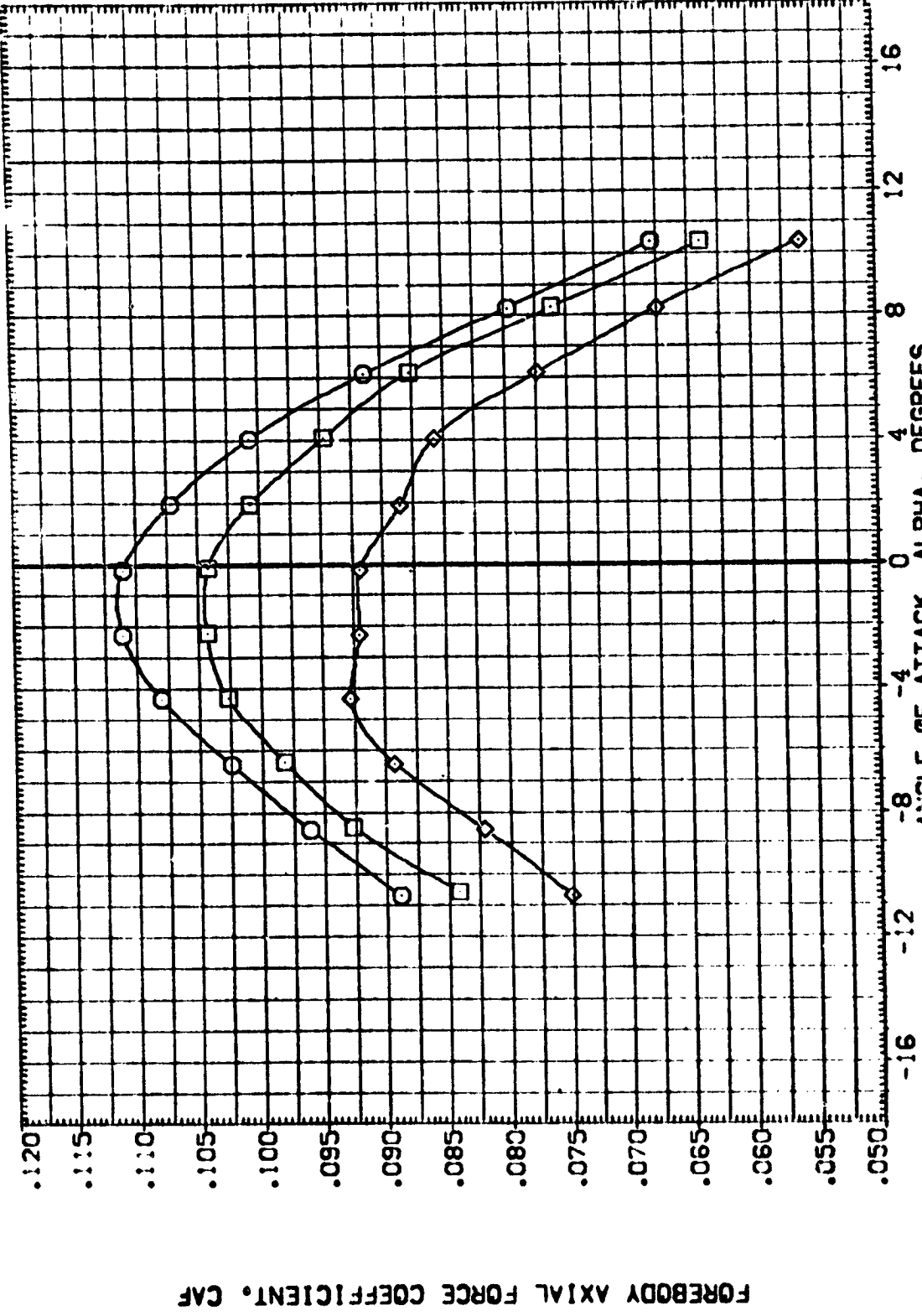
LATERAL-DIRECTIONAL CHARACTERISTICS OF LAUNCH CONFIGURATION, ALPHA= 0.

DATA: SE 8-800  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)

DATA: SE 8-800  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)

DATA: SE 8-800  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)

DATA: SE 8-800  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)  
CONF: 8-PT-893 (1A43)



EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

MACH = 0.60



DATA SET SYMBOL: [B-00:7] [B-00:6] [B-00:6]

CONFIGURATION DESCRIPTION:  
 LARC 8-TPT-93 [A43] CONFIGURATION 02/14/57  
 LARC 8-TPT-93 [A43] CONFIGURATION 02/14/57  
 LARC 8-TPT-93 [A43] CONFIGURATION 02/14/57

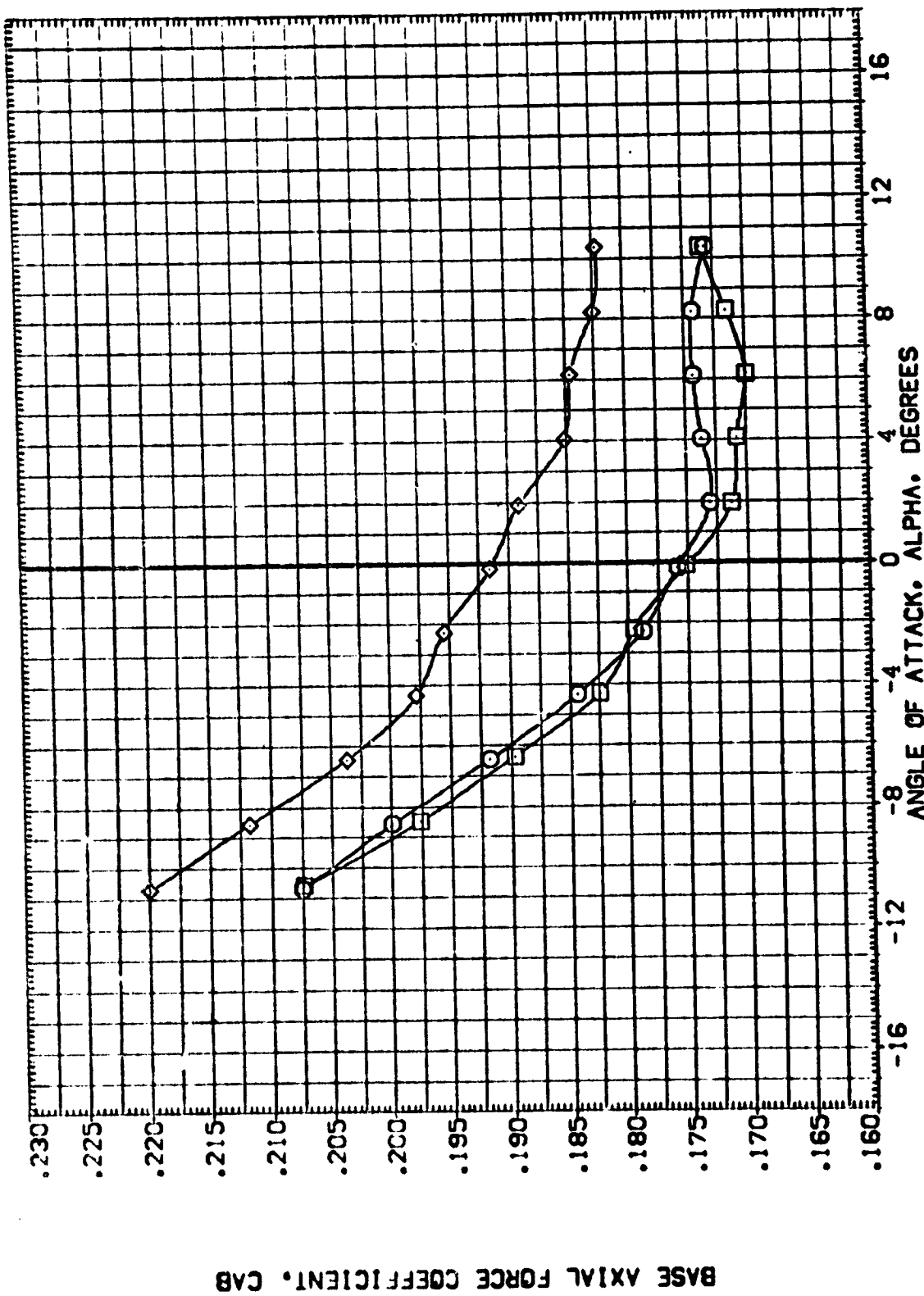
BETA: -5.000  
 .000  
 5.000

ELV-LI: .000  
 .000  
 .000

ELV-RI: .000  
 .000  
 .000

RUDER: .000  
 .000  
 .000

REFERENCE INFORMATION:  
 SREF 2590.0000 SQ.FT.  
 LREF 1290.0000 INCHES  
 BREF 1290.0000 INCHES  
 XMRP 576.0000 IN. XT  
 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100



BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

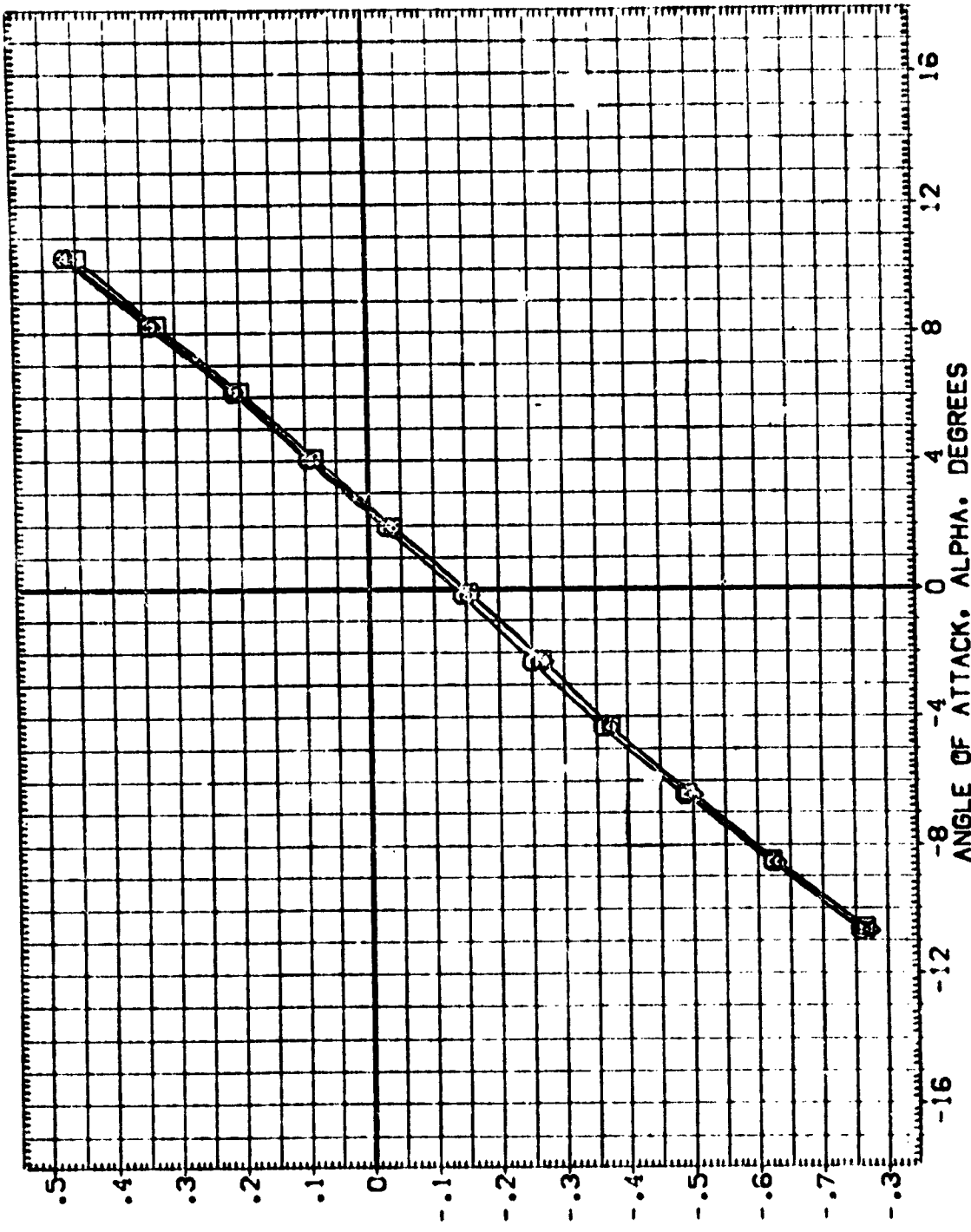
(M)MACH = .60

DATA SET SYMBOL: (B-C017) (B-C006) (B-C016)  
 CONFIGURATION DESCRIPTION:  
 LANC 9-TPT-693 (A43) CONF:GURAT(5)  
 LANC 8-TPT-693 (A43) CONF:GURAT(5)  
 LANC 8-TPT-693 (A43) CONF:GURAT(5)  
 REFERENCE INFORMATION:  
 SREF: 100.0000  
 LREF: 100.0000  
 BREF: 100.0000  
 XTRP: 976.0000  
 YTRP: 400.0000  
 ZTRP: 0.0000  
 SCALE: 100.0100

BET: -5.000  
 ELM(1): 100.000  
 ELM(2): 100.000  
 ELM(3): 100.000  
 RLCOR: 100.000  
 REF: 100.000

DATE: 32/14/57  
 TIME: 32/14/57  
 TIME: 32/14/57

FOREBODY NORMAL FORCE COEFFICIENT • CNF



EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

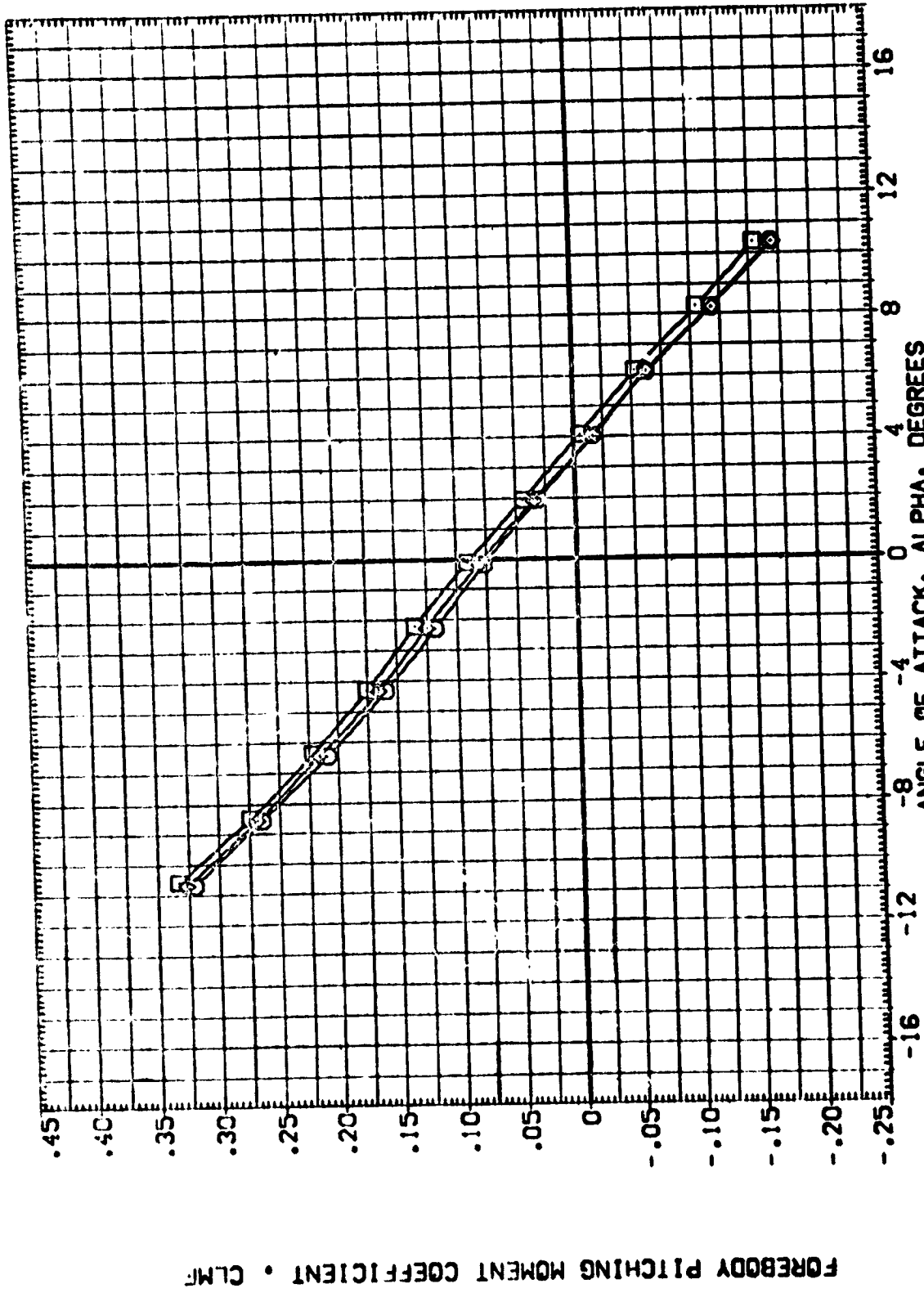
(A)MACH = .60



REFERENCE INFORMATION  
 SQ.FT. INCHES  
 SREF 2690.0000  
 LREF 1290.3000  
 BREF 1290.3000  
 XPRP 576.0000  
 YPRP 400.0000  
 ZPRP 400.0000  
 SCALE .0100

BETA ELV-LI ELV-RI RUDDER  
 -5.000 .000 .000 .000  
 .000 .000 .000 .000  
 5.000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 :B-C017) 0 LARC 8-TPT-693 (A43) CONFIGURATION 02/14/57  
 :B-C008) 0 LARC 8-TPT-693 (A43) CONFIGURATION 02/14/57  
 :B-C016) 0 LARC 8-TPT-693 (A43) CONFIGURATION 02/14/57



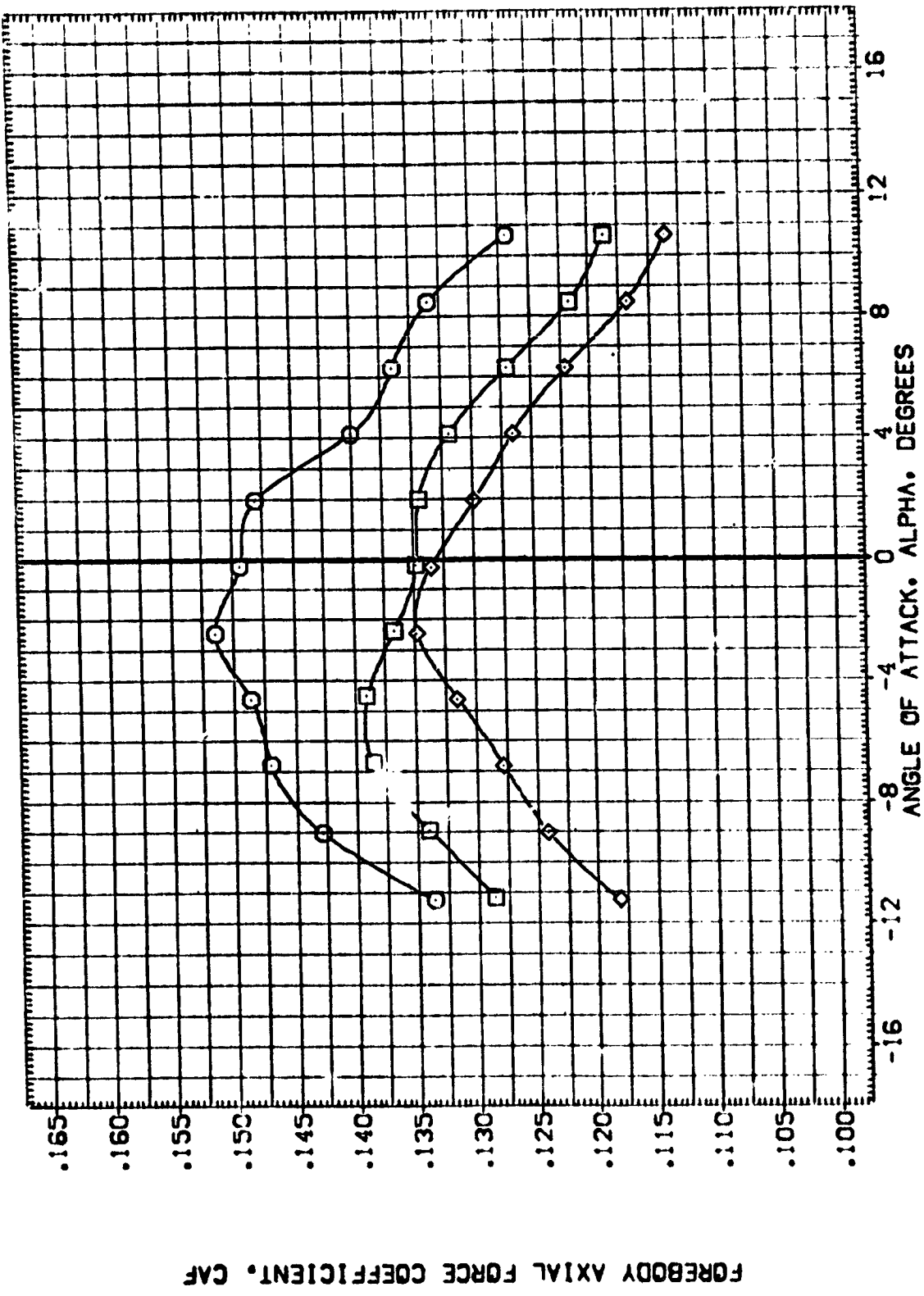
FOREBODY PITCHING MOMENT COEFFICIENT • CLM

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

CASE SYMBOL CONFIGURATION DESCRIPTION DATE  
 B-CC17 LARC 8-TPT-693 (1A43) CONF [GURATION] 02/14/57  
 B-CC16 LARC 8-TPT-693 (1A43) CONF [GURATION] 02/14/57  
 B-CC16 LARC 8-TPT-693 (1A43) CONF [GURATION] 02/14/57

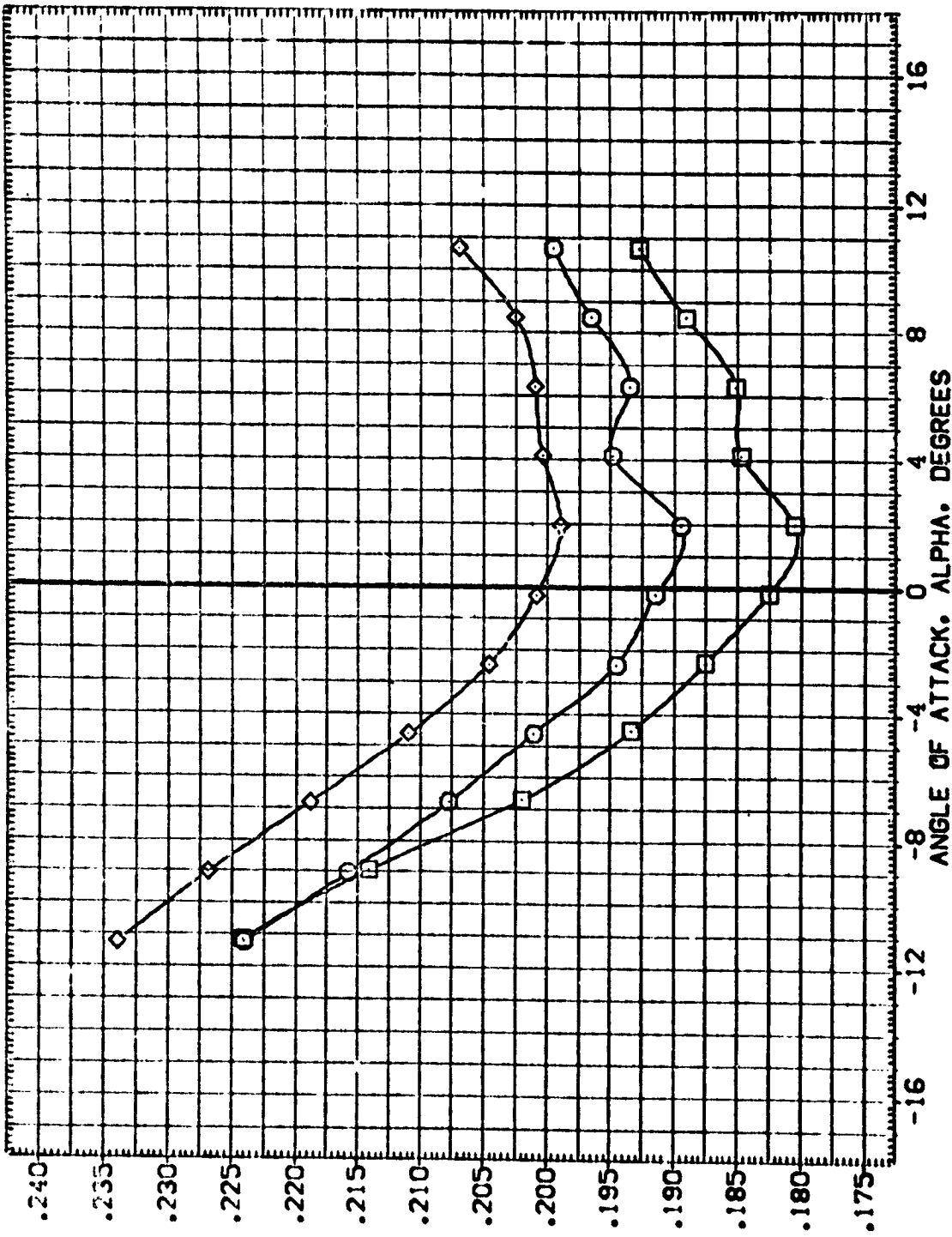
BETA ELV-1 ELV-2 ELV-3 R-CLD-R  
 -5.000 1.000 1.000 1.000  
 5.000 1.000 1.000 1.000

REFERENCE  
 XREF 50.0000  
 YREF 576.0000  
 ZREF 400.0000  
 IN. ZT .0100  
 SCALE



EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: [B-C0:7] [B-C0:8] [B-C0:9]  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-893 (1A13) CONF [URAT] ON 02/14/57  
 LARC 8-TPT-893 (1A13) CONF [URAT] ON 02/14/57  
 LARC 8-TPT-893 (1A13) CONF [URAT] ON 02/14/57  
 BETA: -5.000 .000 .000 .000 .000 .000  
 ELV-LJ: .000 .000 .000 .000 .000 .000  
 ELV-RJ: .000 .000 .000 .000 .000 .000  
 RUDDER: .000 .000 .000 .000 .000 .000  
 REFERENCE INFORMATION: SREF 2690.0000 SQ. FT. 50. FT.  
 LREF 1290.0000 INCHES 130.0000  
 BREF 1290.0000 INCHES 130.0000  
 XTRP 576.0000 IN. XT  
 YTRP .0000 IN. YT  
 ZTRP 400.0000 IN. ZT  
 SCALE .0100



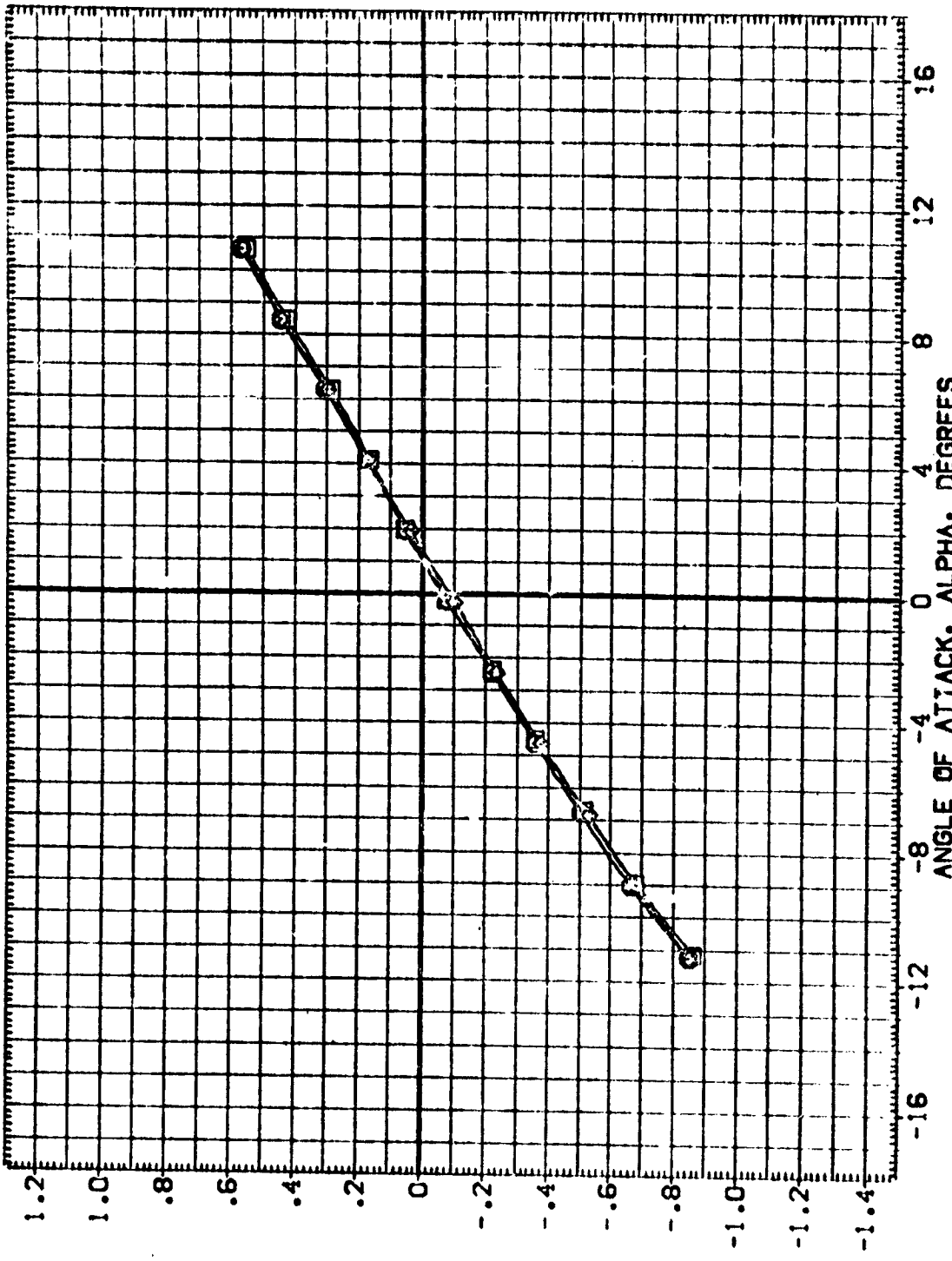
BASE AXIAL FORCE COEFFICIENT, CAB

ORIGINAL PAGE IS OF POOR QUALITY

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .90

DATA SET SYMBOL    CONFIGURATION, DESCRIPTION    REFERENCE    CHECK    AT    IN    YI    ZI  
 [B-C017]    C    LARC 8-TPT-693 [143] CONFIGURATION    02/14/57    0.0000    0.0000    0.0000    0.0000  
 [B-C006]    O    LARC 8-TPT-693 [143] CONFIGURATION    02/14/57    0.0000    0.0000    0.0000    0.0000  
 [B-C016]    O    LARC 8-TPT-693 [143] CONFIGURATION    02/14/57    0.0000    0.0000    0.0000    0.0000  
 BETA    ELEV-L1    ELEV-R1    RUDDER    SREF    XMRP    YMRP    ZMRP    SCALE  
 -5.000    .000    .000    .000    0.0000    0.0000    0.0000    0.0000    400.0000  
 5.000    .000    .000    .000    0.0000    0.0000    0.0000    0.0000    .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .90





DATA SET SYMBOL: (B-C017) (B-C006) (B-C016)

CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57

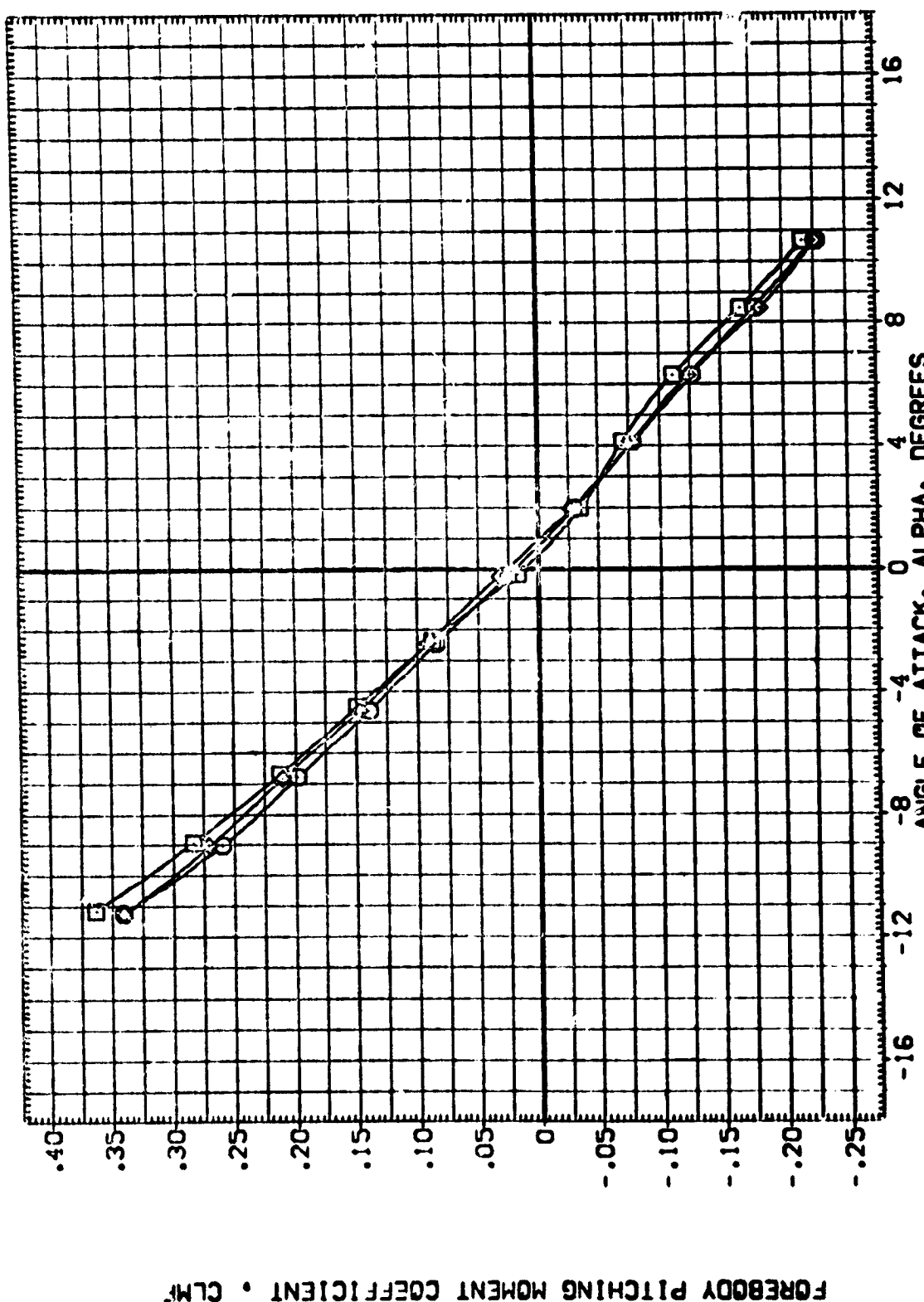
BETA: -5.000  
 5.000

ELV-L1: .000  
 .000  
 .000

ELV-R1: .000  
 .000  
 .000

RUDDER: .000  
 .000  
 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.  
 LREF 1250.3000 INCHES  
 BREF 1250.3000 INCHES  
 XMRP 976.0000 IN. XT  
 YMRP .0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100

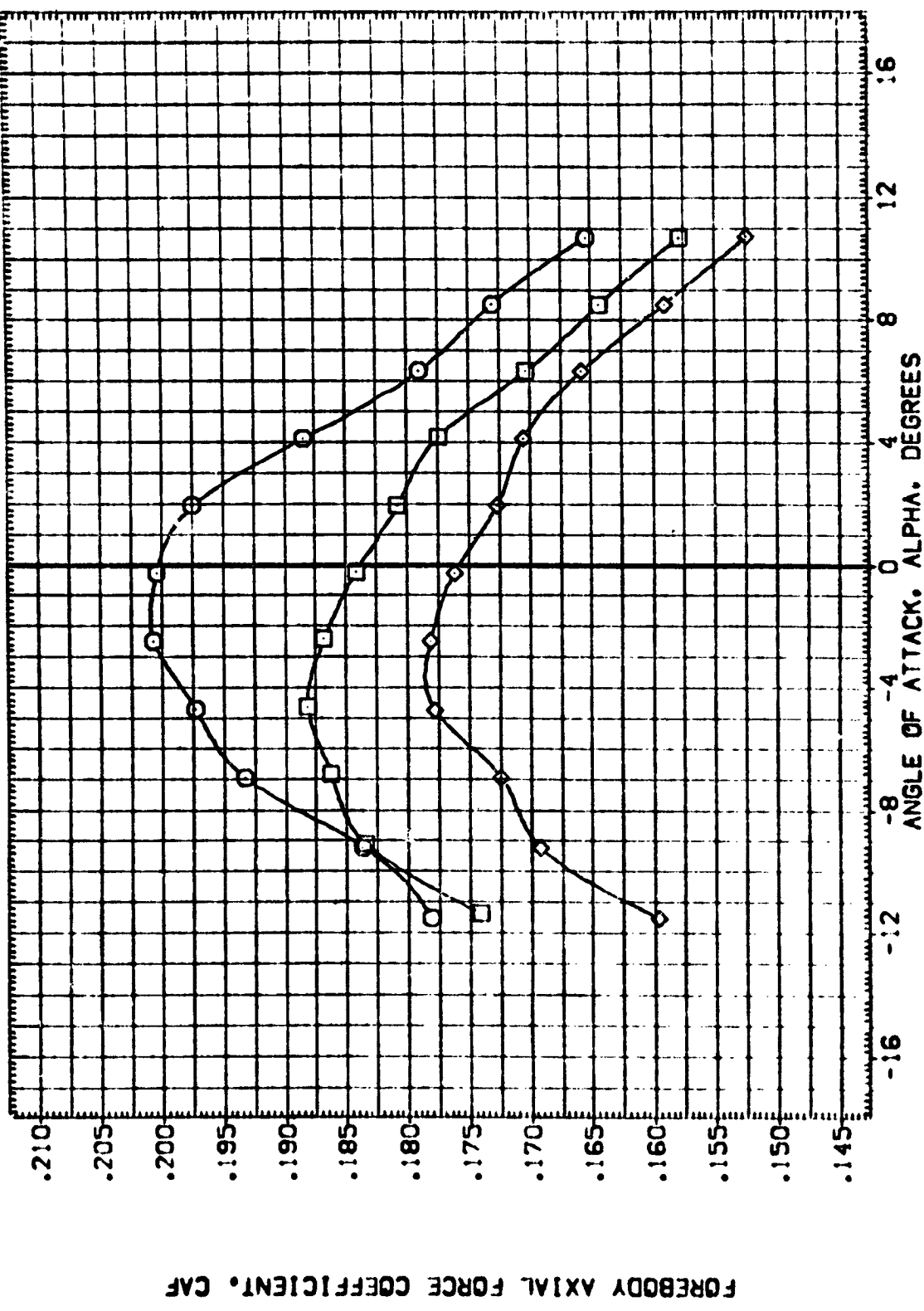


EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .90

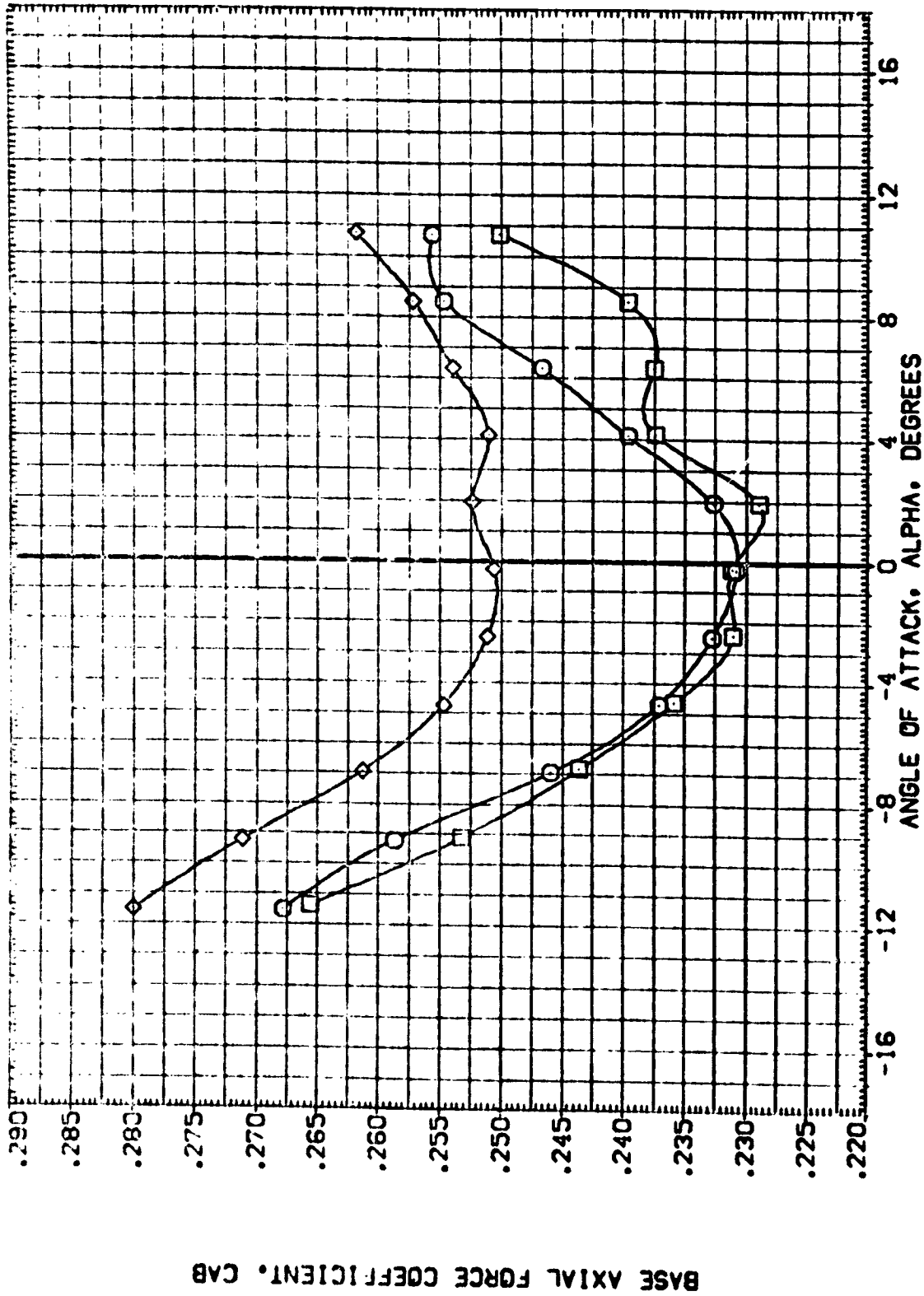
ORIGINAL PAGE IS OF POOR QUALITY

DATA SET SYMBOL: G  
 CONFIGURATION DESCRIPTION: LARC 8-1P1-693 (143) COF GURATION 02/14/57  
 REFERENCE INFORMATION: REF 000.0000 SO.F. 50.0  
 LARC 8-1P1-693 (143) COF GURATION 02/14/57 REF 000.3000 INCHES  
 LARC 8-1P1-693 (143) COF GURATION 02/14/57 REF 000.3000 INCHES  
 LARC 8-1P1-693 (143) COF GURATION 02/14/57 REF 000.3000 INCHES  
 REFERENCE INFORMATION: XPRP 976.0000 IN. Y1  
 YPRP 400.0000 IN. Z1  
 ZPRP .0100 SCALE



EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELV-LI	ELV-RI	RUDDER	REFERENCE INFORMATION
(3-007)	LAFC 8-121-693 (1A43) CONFIGURATION 02/14/57	-5.000	.000	.000	.000	2690.0000 SQ.FT.
(3-008)	LAFC 8-121-693 (1A43) CONFIGURATION 02/14/57	.000	.000	.000	.000	1290.3000 INCHES
(3-009)	LAFC 8-121-693 (1A43) CONFIGURATION 02/14/57	5.000	.000	.000	.000	1290.3000 INCHES
						576.0000 IN. XT
						400.0000 IN. YT
						400.0000 IN. ZT
						SCALE .0100



BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .98

PAGE

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DATA SET 5-HAL CONFIGURATION DESCRIPTION:  
 (B-0317) C-143 C3F DURATION: 02/14/57  
 (B-0306) C-143 C3F DURATION: 02/14/57  
 (B-0316) C-143 C3F DURATION: 02/14/57

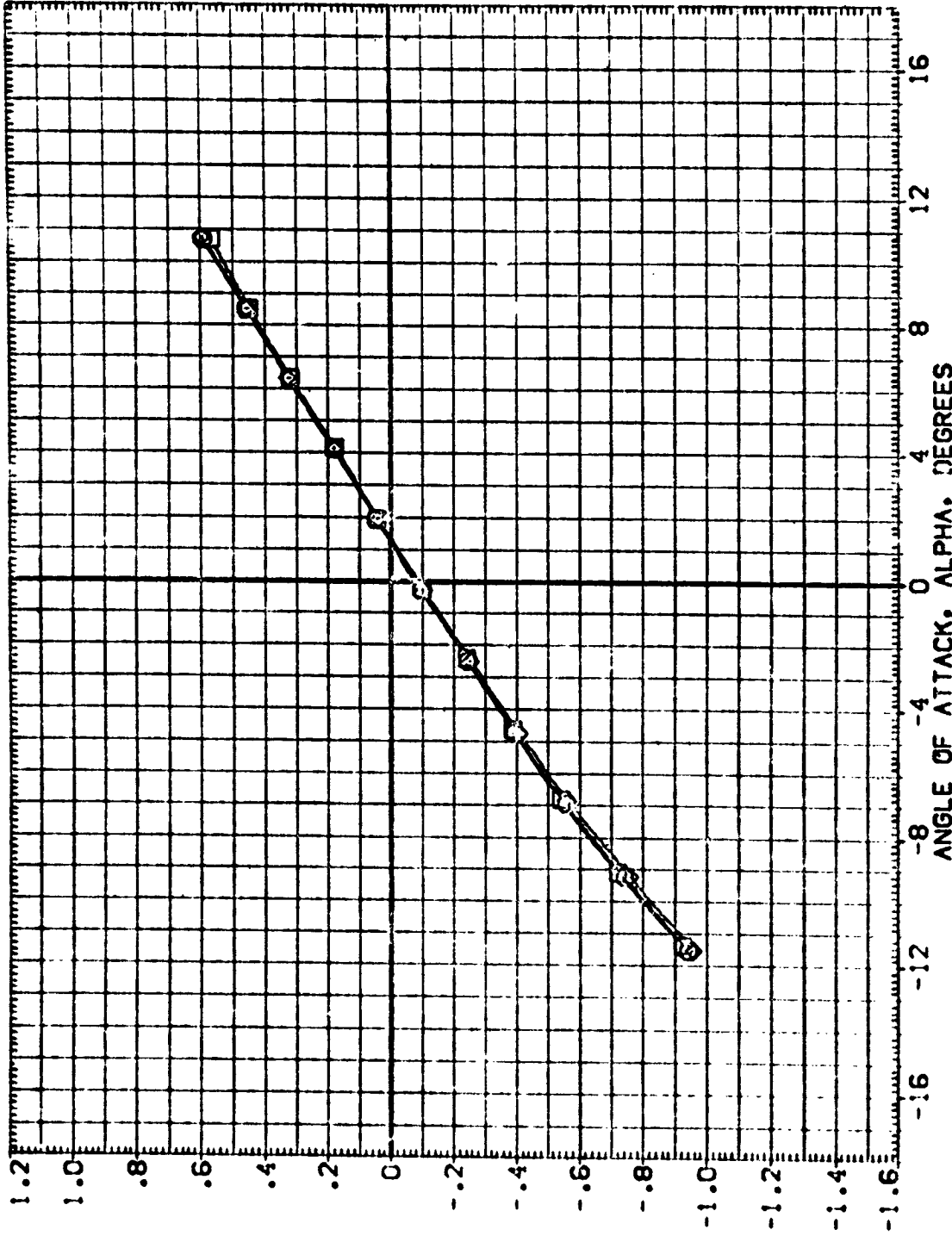
BETA  
 -5.000  
 .000  
 .000  
 5.000

EL (IN)  
 .000  
 .000  
 .000

EL (FT)  
 .000  
 .000  
 .000

RUD (IN)  
 .000  
 .000  
 .000

REPERE TO INFORMATION  
 SREF 1990.0000 50.811  
 LREF 290.0000 140.402  
 BREF 290.3000 140.402  
 XMRP 976.0000 140.402  
 YMRP 400.0000 140.402  
 ZMRP .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

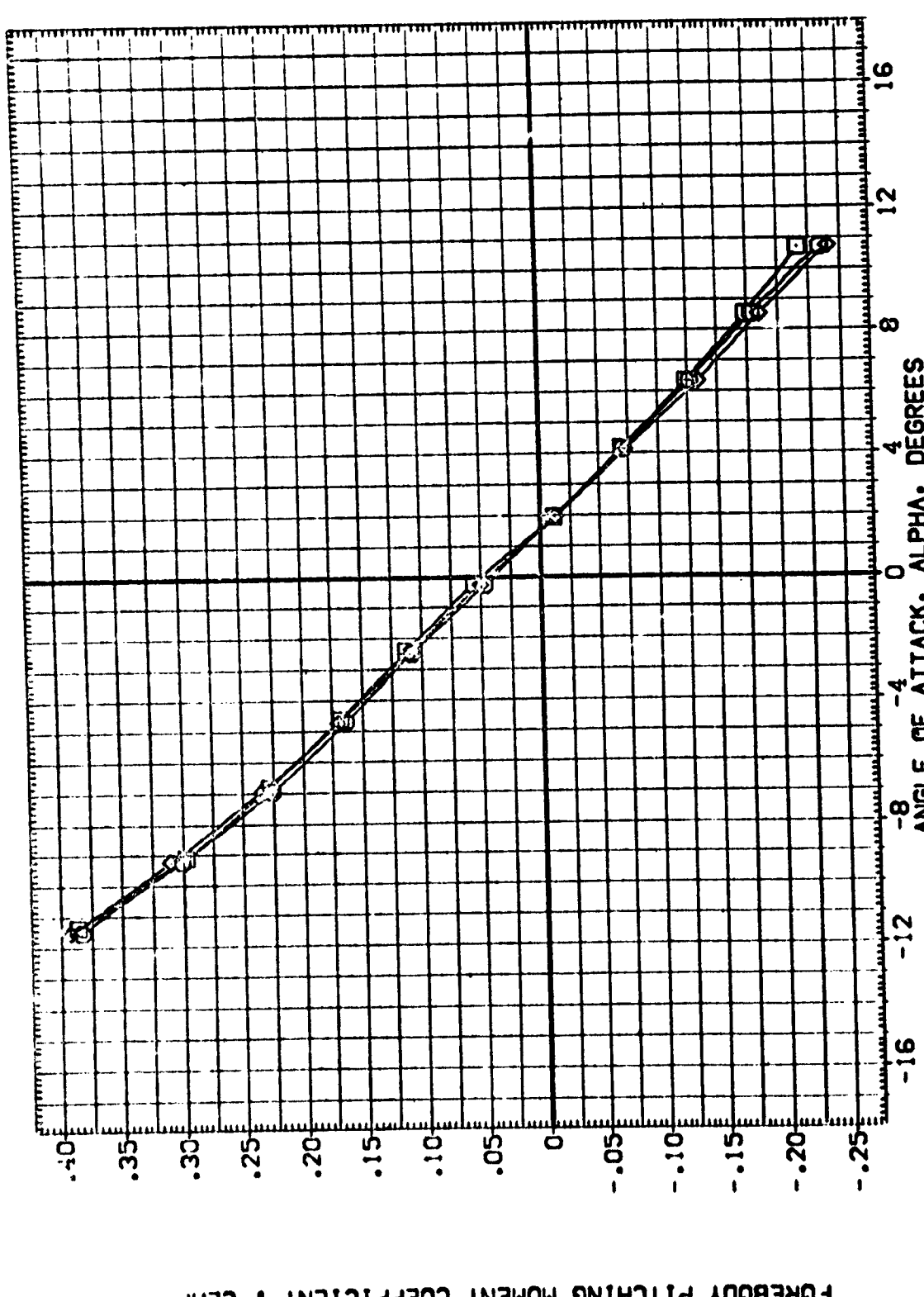
EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS



DATA SET SYMBOL: 0  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-683 (1A43) CONF:IGRATION 02/14/57  
 LARC 8-TPT-683 (1A43) CONF:IGRATION 02/14/57  
 LARC 8-TPT-683 (1A43) CONF:IGRATION 02/14/57

BETA: -5.000  
 ELV-LJ: .000  
 ELV-RI: .000  
 RUDDER: .000

REFERENCE INFORMATION:  
 SREF: 2690.0000 SQ.FT.  
 LREF: 1290.3000 INCHES  
 BREF: 1290.3000 INCHES  
 XMRP: 976.0000 IN.  
 YMRP: 400.0000 IN.  
 ZMRP: 400.0000 IN.  
 SCALE: .0100



FOREBODY PITCHING MOMENT COEFFICIENT • CLM

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .98

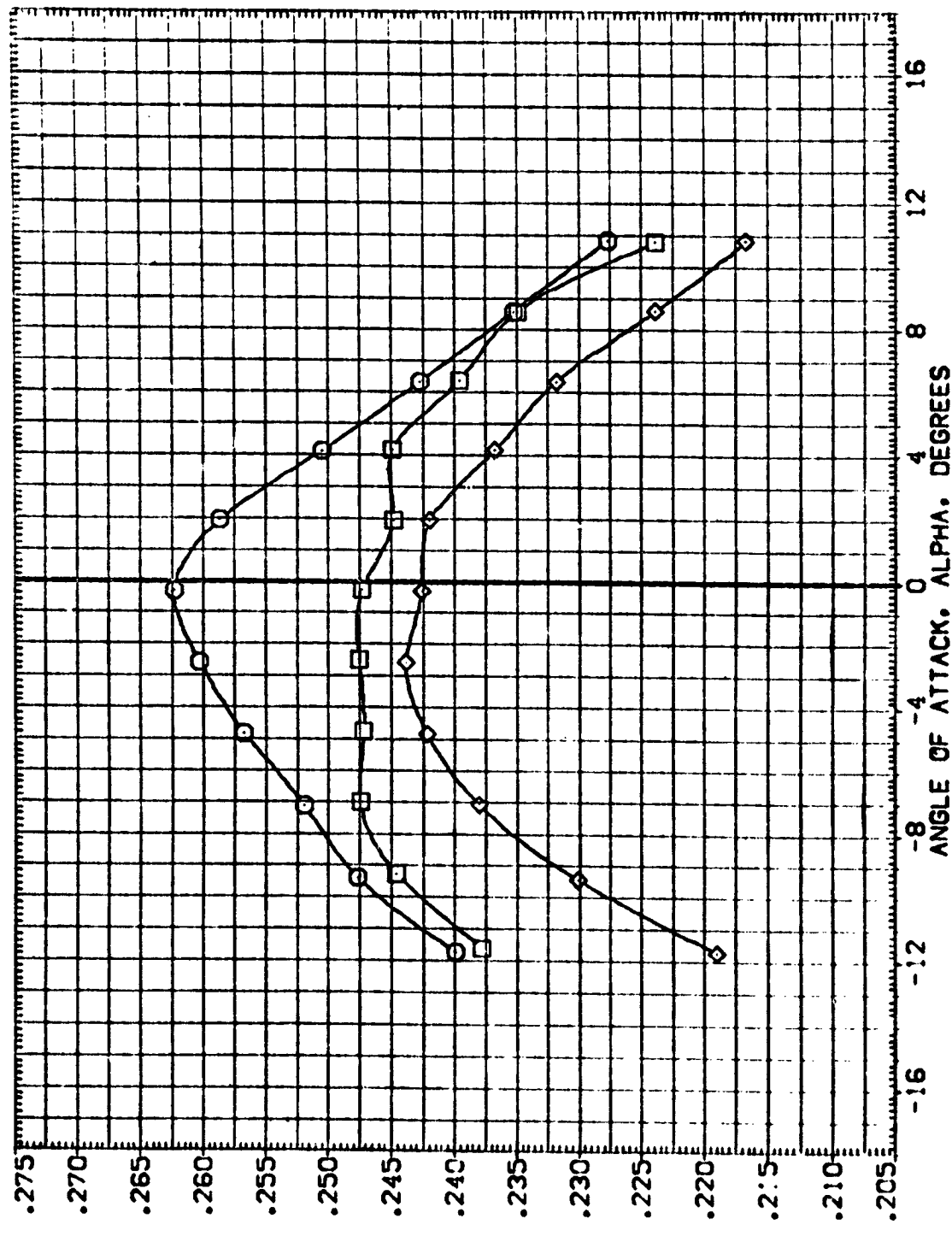
DATA SET SYMBOL: 3-C017  
 CONFIGURATION DESCRIPTION: 8-TPT-833 (1A43)  
 REFERENCE: 976.0000  
 SCALE: 400.0000  
 IN: YI  
 IN: ZI

BETA: -5.000  
 ELV-91: .000  
 ELV-92: .000  
 ELV-93: .000  
 ELV-94: .000  
 ELV-95: .000  
 ELV-96: .000  
 ELV-97: .000  
 ELV-98: .000  
 ELV-99: .000  
 ELV-100: .000

BETA: -5.000  
 ELV-91: .000  
 ELV-92: .000  
 ELV-93: .000  
 ELV-94: .000  
 ELV-95: .000  
 ELV-96: .000  
 ELV-97: .000  
 ELV-98: .000  
 ELV-99: .000  
 ELV-100: .000

DATA SET SYMBOL: 3-C016  
 CONFIGURATION DESCRIPTION: 8-TPT-833 (1A43)  
 REFERENCE: 976.0000  
 SCALE: 400.0000  
 IN: YI  
 IN: ZI

FOREBODY AXIAL FORCE COEFFICIENT, C<sub>AF</sub>

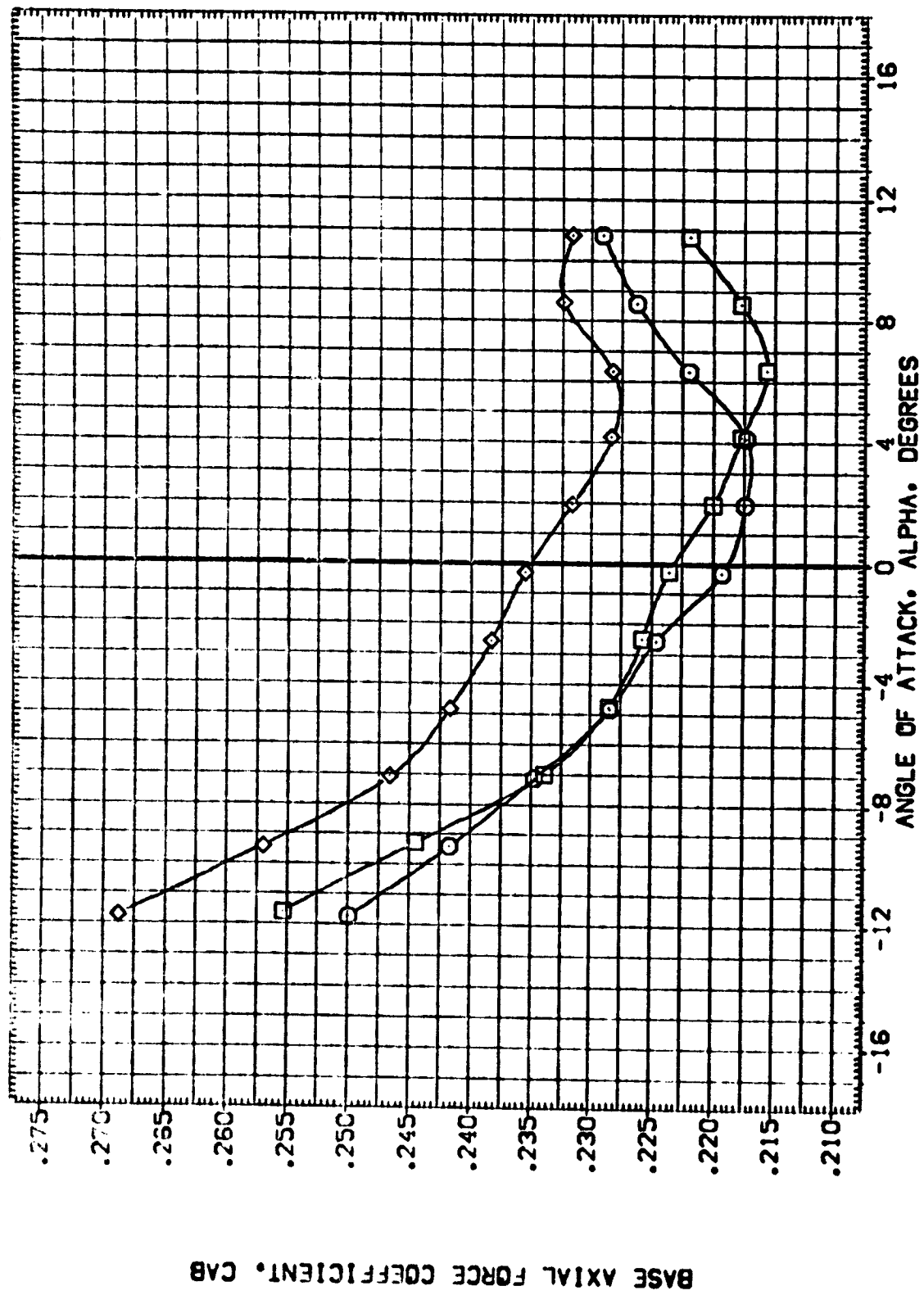


EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(M)MACH = 1.13



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELV-LI	ELV-RI	RUDDER	REFERENCE INFORMATION
[B-CG:17]	LARC 8-TPT-683 [A43] CONF [GURATION 02/14/57	-5.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
[B-CG:18]	LARC 8-TPT-683 [A43] CONF [GURATION 02/14/57	.000	.000	.000	.000	LREF 1290.3000 INCHES
[B-CG:16]	LARC 8-TPT-683 [A43] CONF [GURATION 02/14/57	5.000	.000	.000	.000	BREF 1290.3000 IN. XT
						XMRP 976.0000 IN. YI
						ZMRP 400.0000 IN. ZI
						SCALE .0100



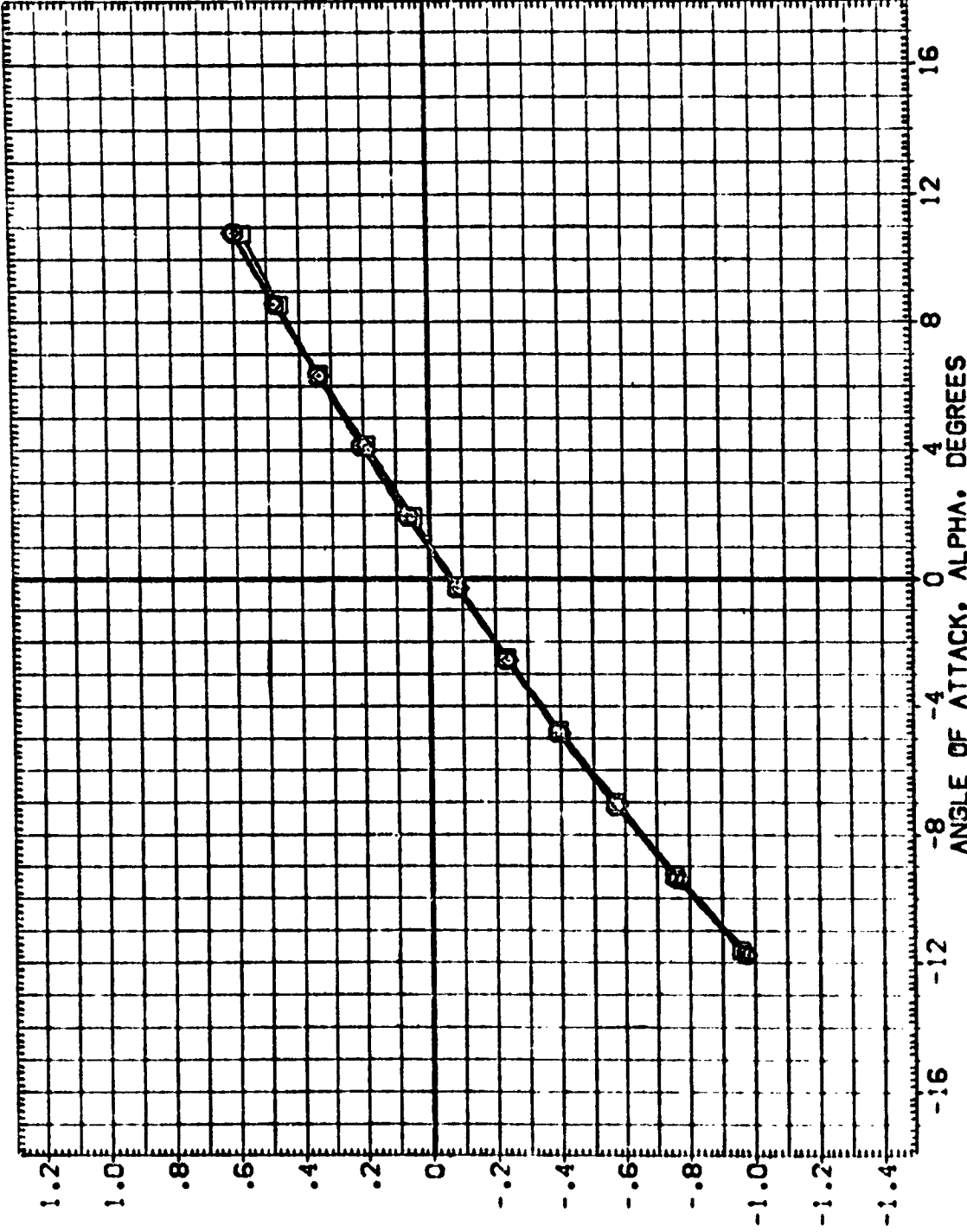
BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(CJ)MACH = 1.13

ORIGINAL PAGE IS  
OF POOR QUALITY

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 3-CC-17 1-1 LARC 8-731-893 (143) CONFIGURATION 02/14/57  
 3-CC-18 2-1 LARC 8-731-893 (143) CONFIGURATION 02/14/57  
 3-CC-19 3-1 LARC 8-731-893 (143) CONFIGURATION 02/14/57  
 SOFT: ON  
 IN: X  
 IN: Y  
 IN: Z  
 REFERENCE: XREF: .000  
 YREF: .000  
 ZREF: .000  
 XPROP: 400.0000  
 YPROP: .0100  
 ZPROP: .0100  
 SCALE: .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

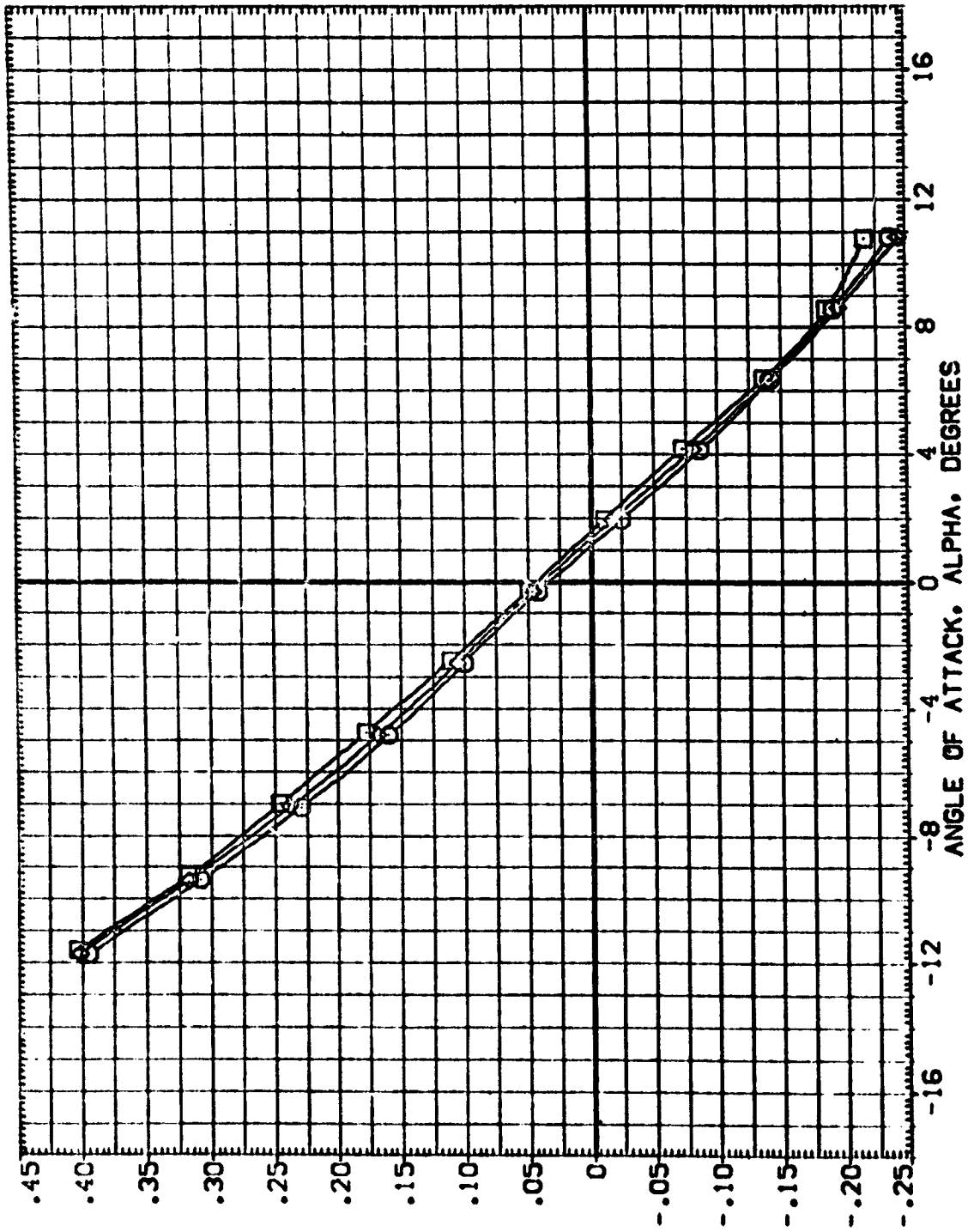




DATA SET SYMBO. CONFIGURATION DESCRIPTION  
 (9-C017) Q (1A43) CONFIGURATION 02/14/57  
 (8-C006) Y (1A43) CONFIGURATION 02/14/57  
 (8-C016) Y (1A43) CONFIGURATION 02/14/57

BETA ELV-L1 ELV-R1 RUDDER  
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 5.000 .000 .000 .000

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 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XPRP 576.0000 IN. Y1  
 YPRP 400.0000 IN. Y1  
 ZPRP .0100 IN. Z1  
 SCALE



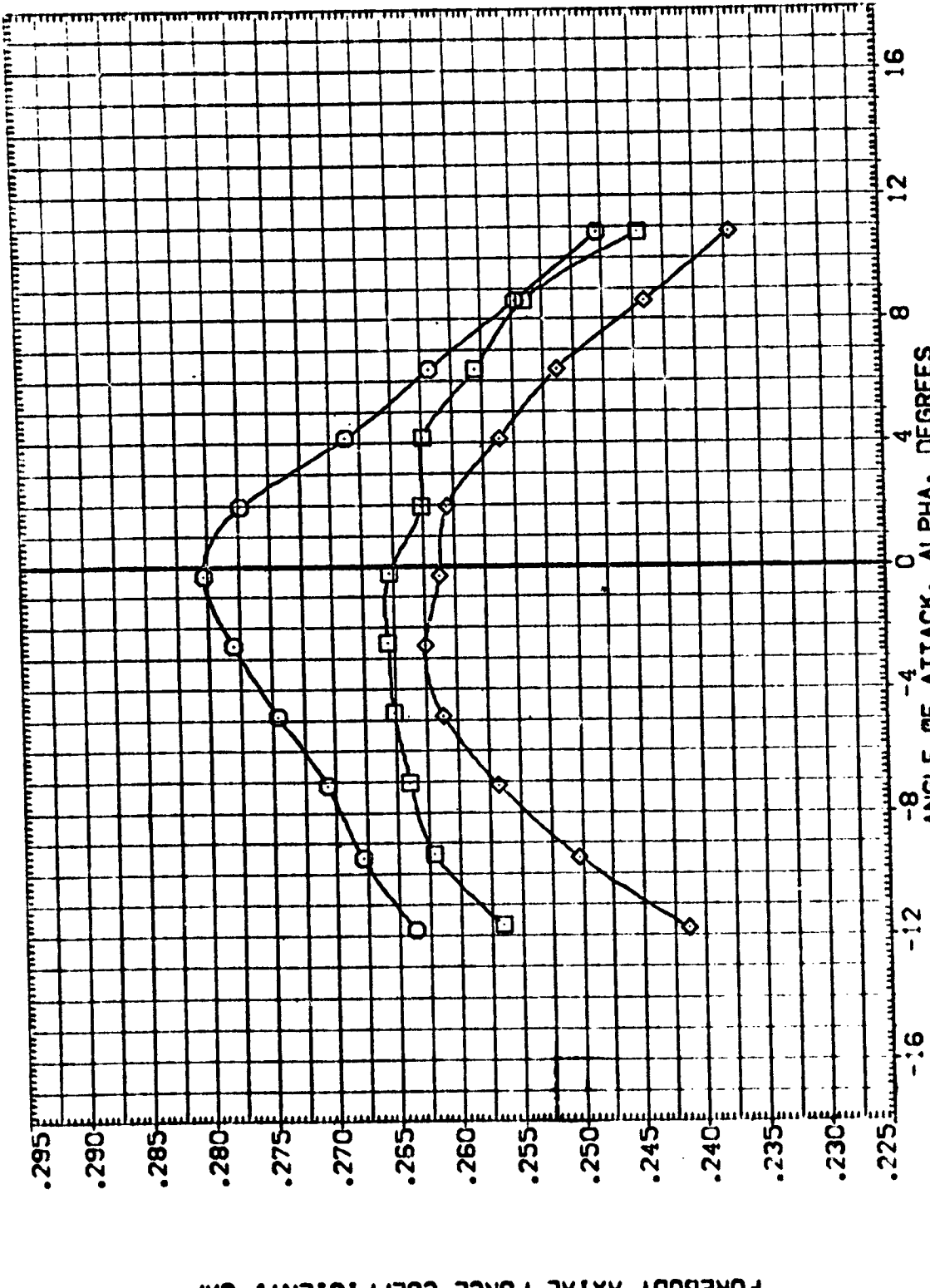
FOREBODY PITCHING MOMENT COEFFICIENT • CLM

ORIGINAL PAGE IS  
OF POOR QUALITY

REF REFERENCE  
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LREF 100  
XREF 100  
YMRP 400.0000  
ZMRP .0100  
SCALE

BETA -5.000  
ELV 1.000  
CL 1.000  
RUDDER 1.000

DATE: 8-17-69  
SYMBOL: A33  
DESCRIPTION: A33  
AFC: 8-17-69  
A33: 8-17-69  
LAFC: 8-17-69  
A33: 8-17-69  
OBSERVATION: 12/14/57  
CALCULATION: 12/14/57



FOREBODY AXIAL FORCE COEFFICIENT, CAF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(E)MACH = 1.20

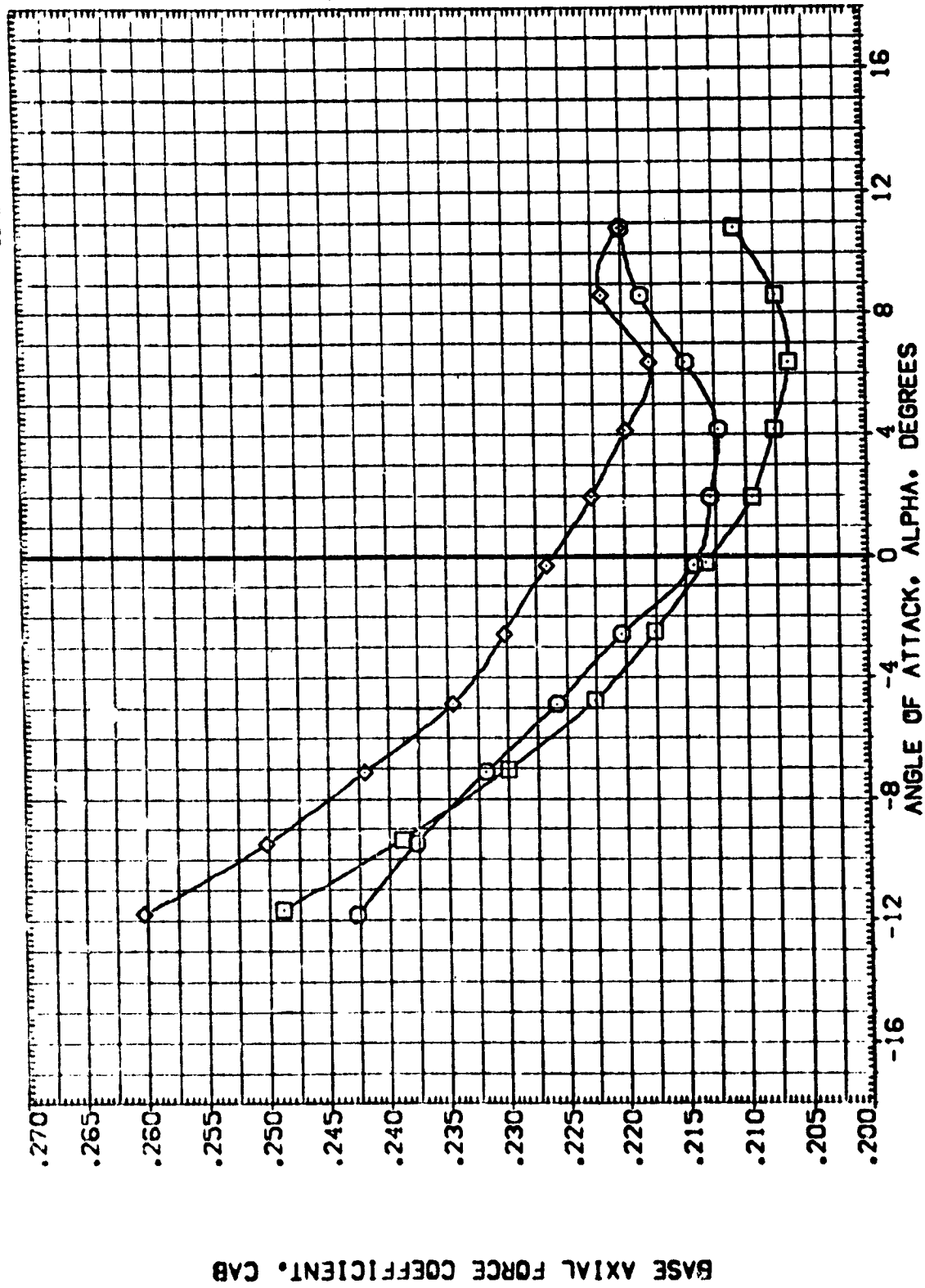
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:B-0017) Q V  
 :B-0006) Q V  
 :B-0016) Q V

-ARC 8-TPT-833 (143) CONFIGURATION 02/14/57  
 -ARC 8-TPT-833 (143) CONFIGURATION 02/14/57  
 -ARC 8-TPT-833 (143) CONFIGURATION 02/14/57

BETA -5.000  
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 ELV-R1 .000  
 RUDDER .000

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 XMRP 976.0000 IN. XT  
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 ZMRP 400.0000 IN. ZT  
 SCALE .0100



BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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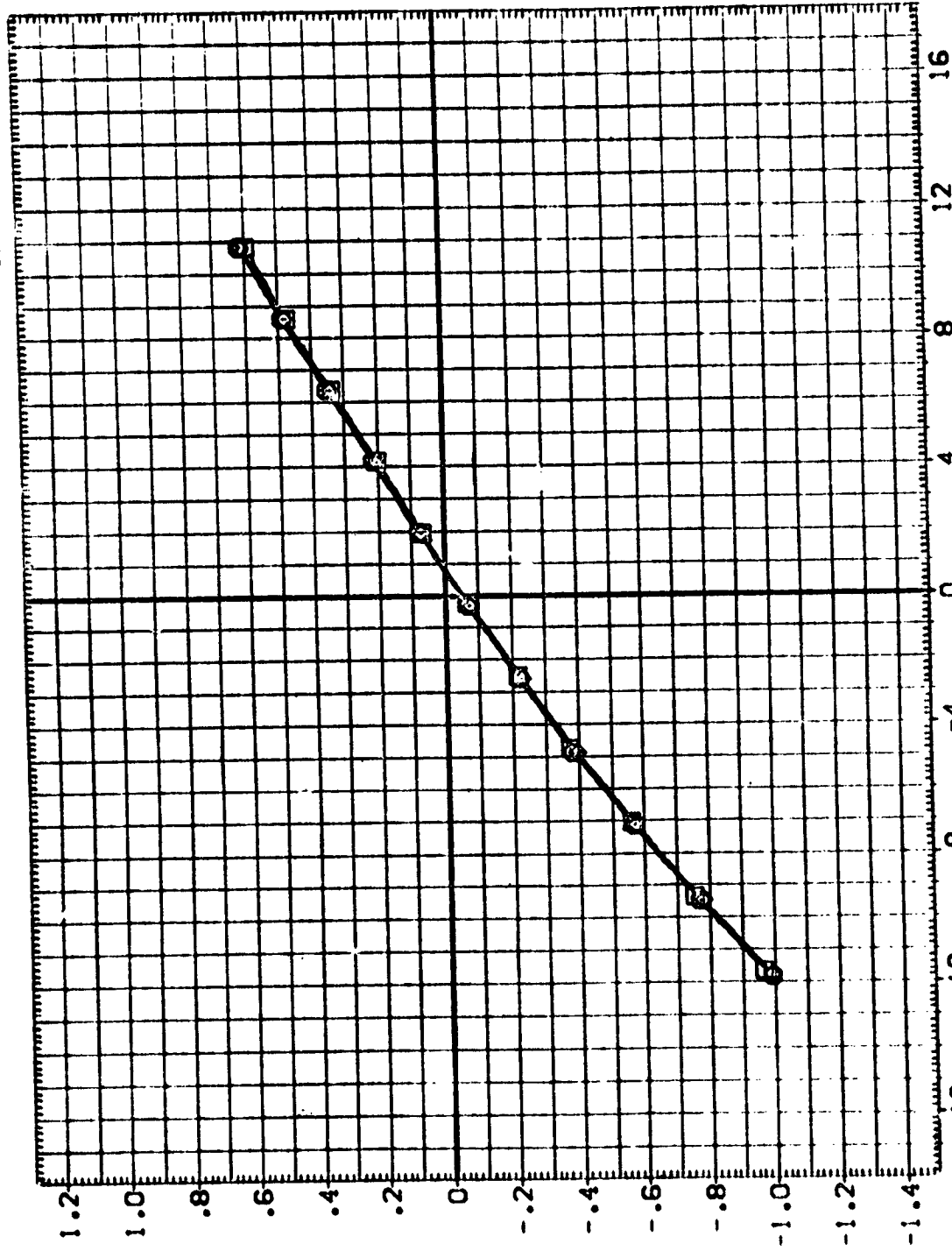
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 IN: YZ  
 IN: XT  
 IN: ZT  
 SCALE .0100

BETS  
 -5.000  
 5.000

02/14/57  
 02/14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
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 LARC 8-TBT-893 (A43) CONF:GURATION  
 LARC 8-TBT-893 (A43) CONF:GURATION

DATA SET SYMBOL  
 9-CELL  
 3-CELL  
 B-CELL



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS



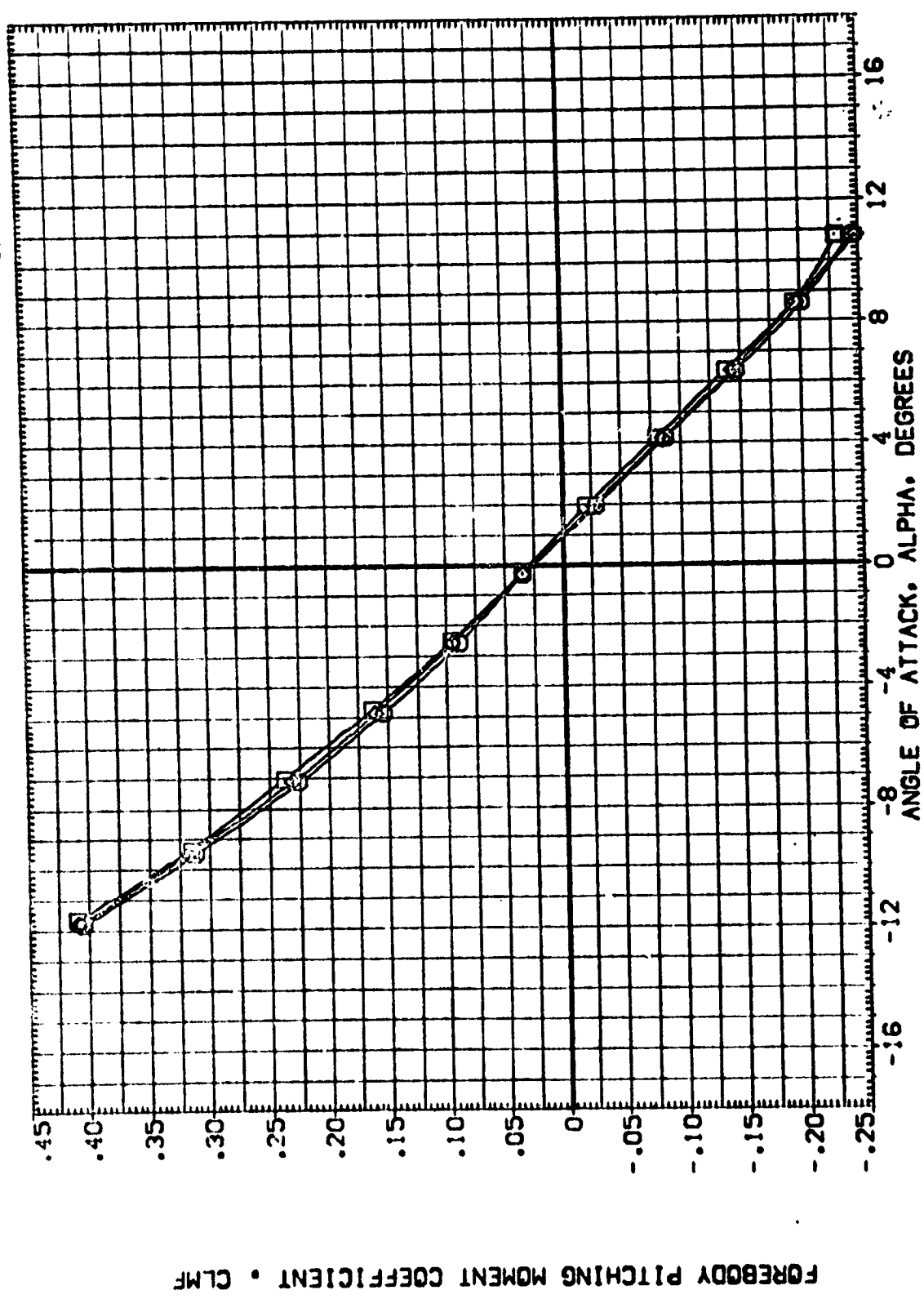
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 SCALE

BETA ELV-LI ELV-RI RUDDER  
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 5.000 .000 .000 .000

02/14/57  
 02/14/57  
 02/14/57

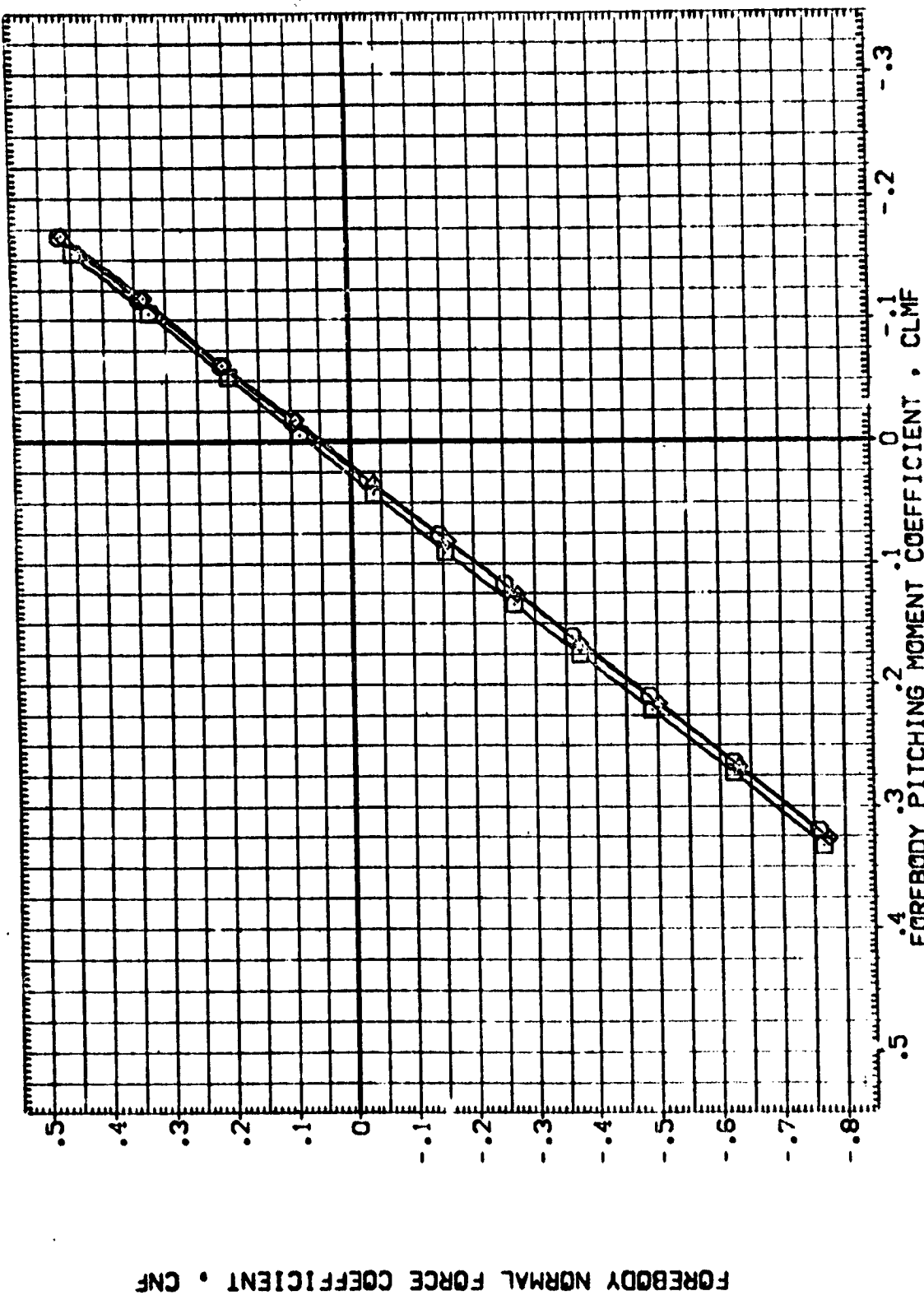
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 LARC 8-TPT-693 (1A43) CONFIGURATION  
 LARC 8-TPT-693 (1A43) CONFIGURATION

DATA SET SYMBOL  
 B-C017  
 B-C006  
 B-C016



EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMB: (B-C017) (B-C006) (B-C016)  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
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 XMRP: 976.0000  
 ZMRP: 400.0000  
 SCALE: .0100  
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 .000  
 .000  
 RUDDER: .000  
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 IN. Y: .0000  
 IN. Z: .0000



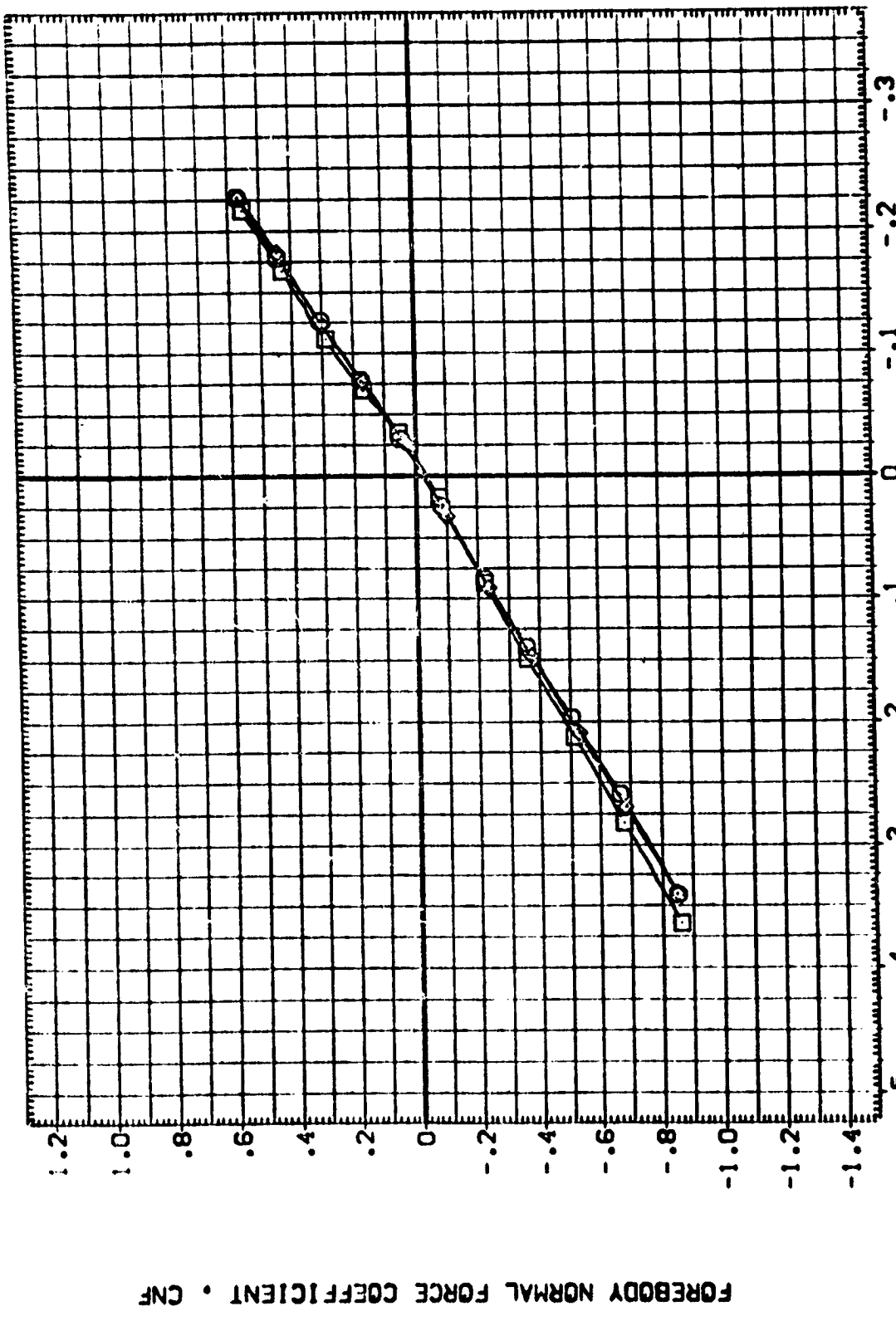
EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION  
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 INCHES IN. XT  
 IN. YT  
 IN. ZT  
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 1290.0000  
 1290.0000  
 576.0000  
 400.0000  
 400.0100

BETA ELV-LI ELV-RI RUDDER  
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 .000 .000 .000 .000  
 5.000 .000 .000 .000

CONFIGURATION DESCRIPTION  
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 LARC 8-TPT-693 (1A43) CONF:GURATION 02/14/57  
 LARC 8-TPT-693 (1A43) CONF:GURATION 02/14/57

DATA SET SYMBOL  
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 (B-C016)

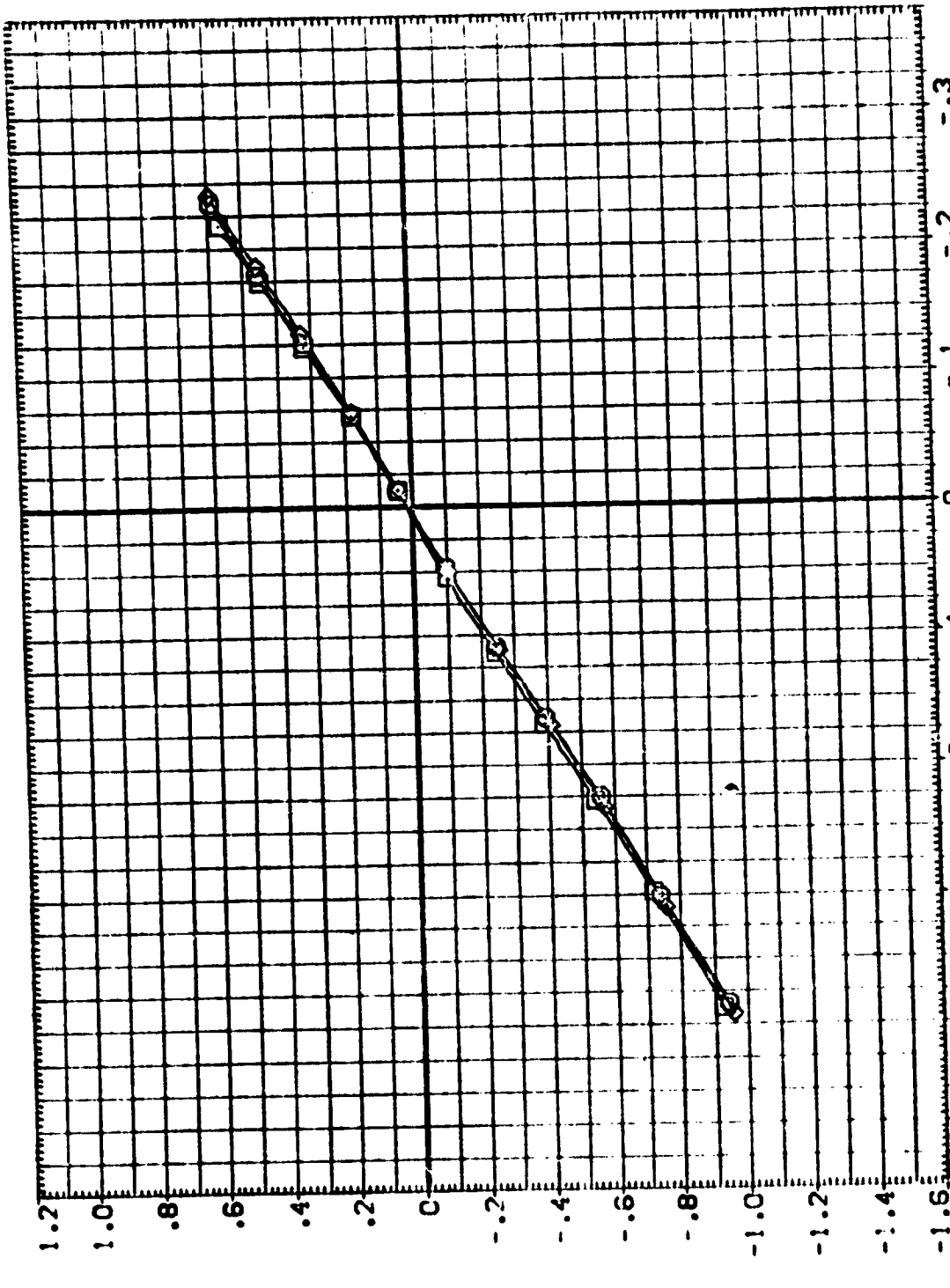


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 OF POOR QUALITY

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATE SET SYMBOL CONFIGURATION DESCRIPTION  
 (B-0017) □ (A13) CONFIGURATION 02/14/57  
 (B-0016) □ (A13) CONFIGURATION 02/14/57  
 (B-0016) □ (A13) CONFIGURATION 02/14/57

BETA ELV-R1 ELV-R2 RUDDER REFERENCE INFLECTION  
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 SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

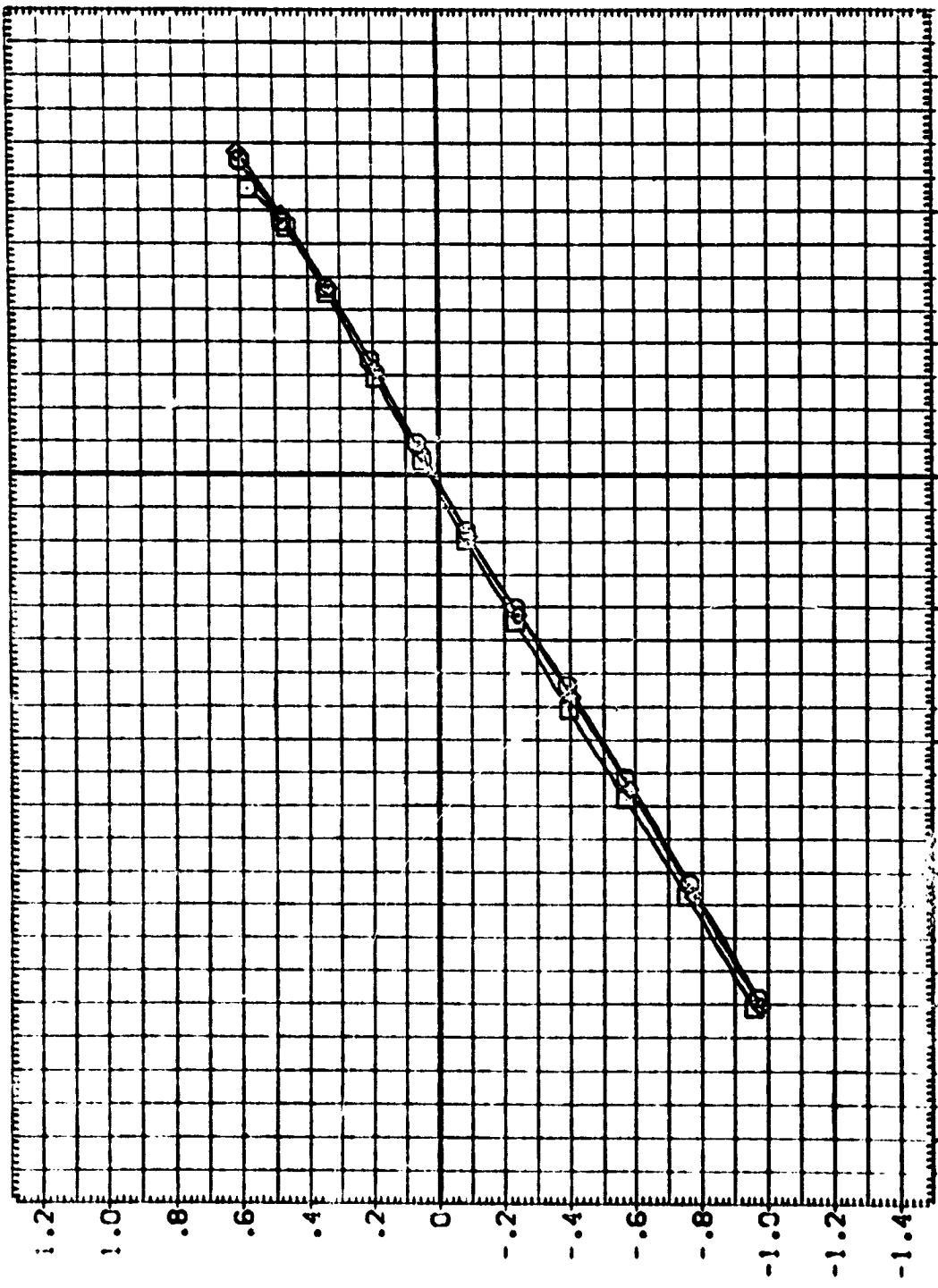
FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .96



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELV-LJ	ELV-RJ	RUDDER	REFERENCE INFORMATION	SO.FT.
0-00171	LARC 8-1PT-693 (1A13) CONFIGURATION 02/14/57	-5.000	.000	.000	.000	SREF	2590.0000
0-00172	LARC 8-1PT-693 (1A13) CONFIGURATION 02/14/57	.000	.000	.000	.000	LREF	1250.3000
0-00173	LARC 8-1PT-693 (1A13) CONFIGURATION 02/14/57	5.000	.000	.000	.000	BREF	1250.3000
						XMRP	976.0000
						YMRP	.0000
						ZMRP	400.0000
						SCALE	.0100



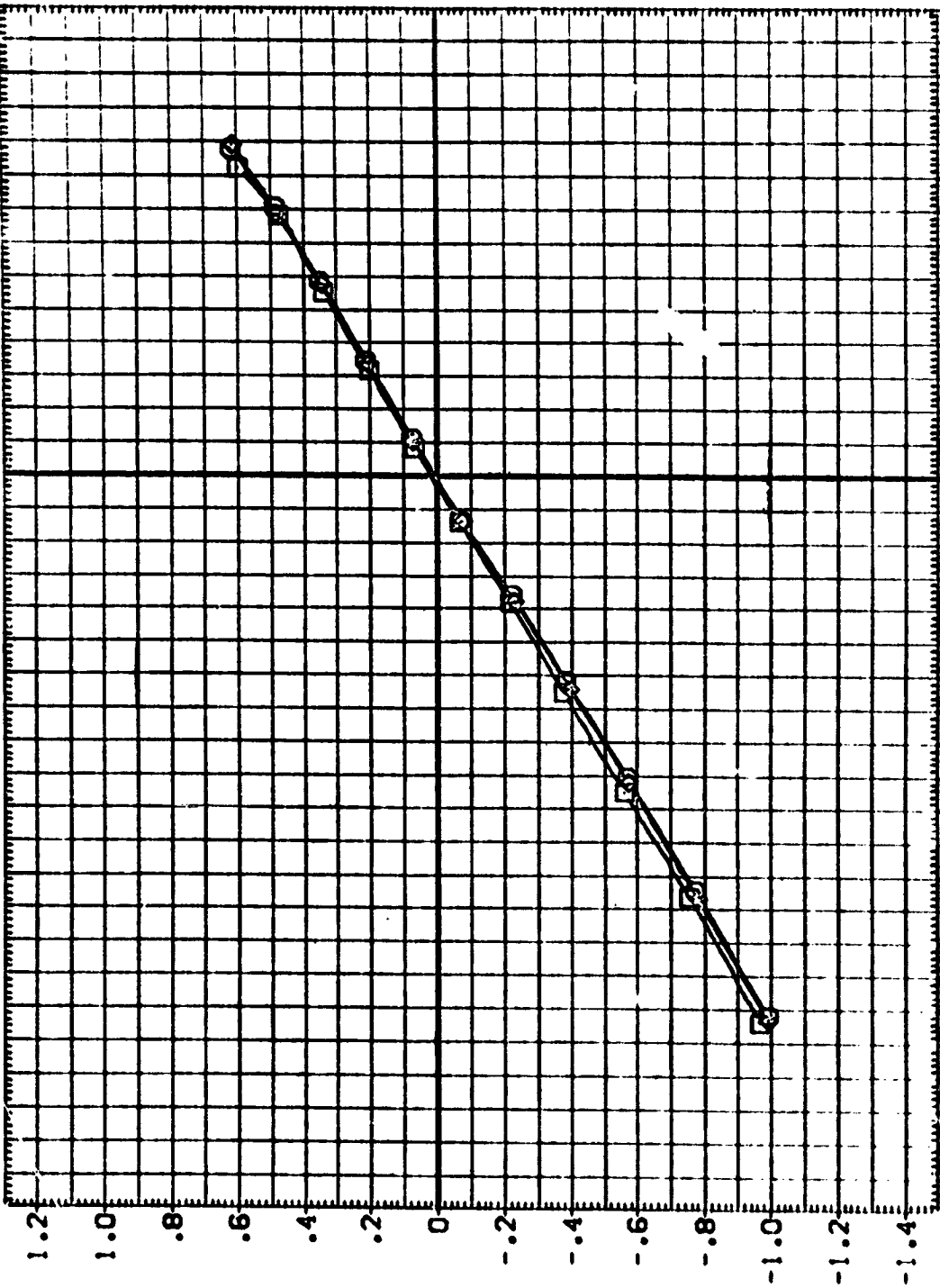
FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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OF POOR QUALITY

DATA SET SYMBOL: [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z]  
 CONFIGURATION DESCRIPTION: [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z]  
 REFERENCE INFORMATION: [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z]



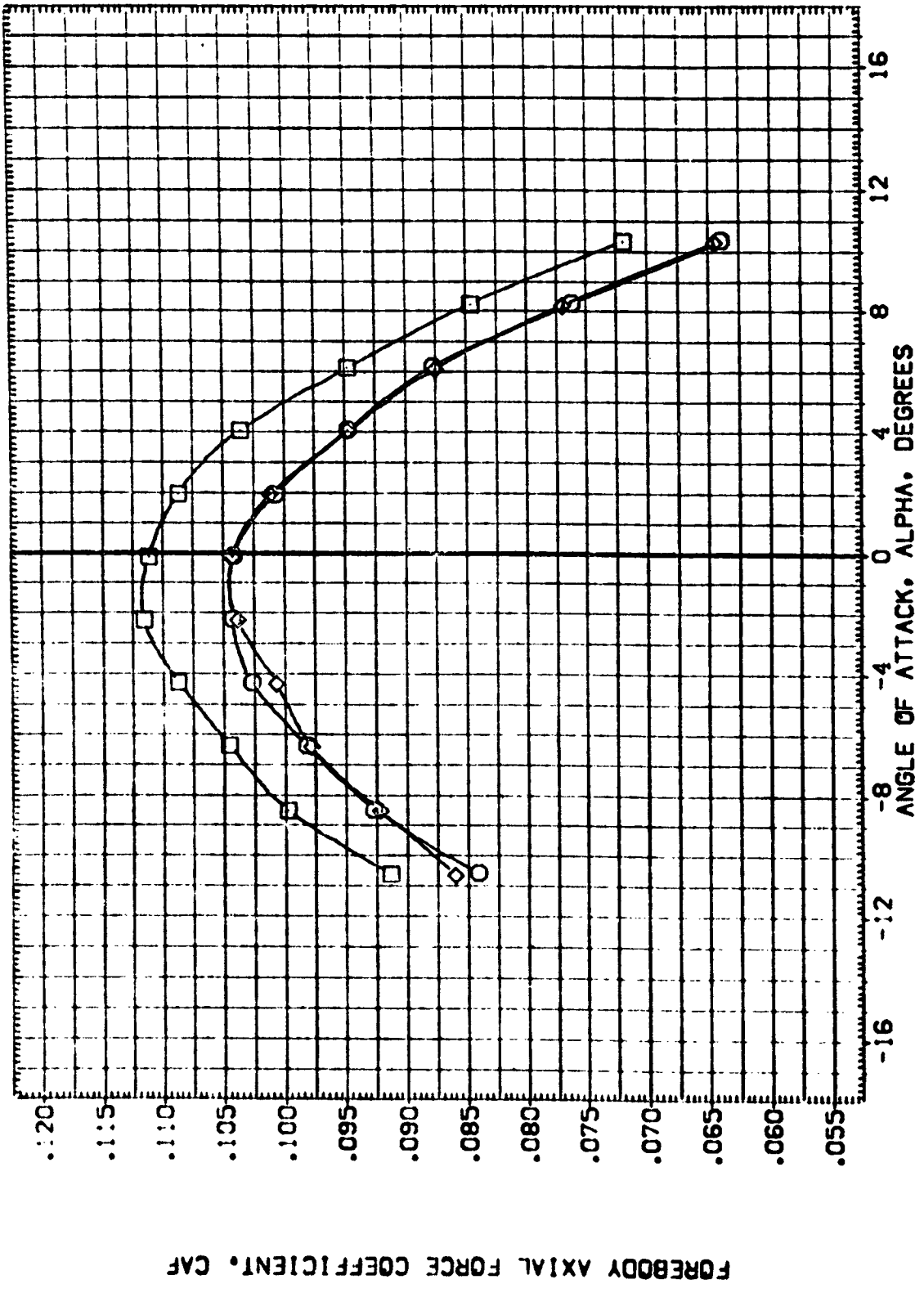
EFFECT OF SIDESLIP ANGLE ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS  
 (M)MACH = 1.20

DATA SET SYMBOL: (9-C006) (9-C007) (9-C002)

CONFIGURATION DESCRIPTION: LANC 8-PT-693 (A43) CONFIGURATION: 02/14/57 LANC 8-PT-693 (A43) CONFIGURATION: 03/14/57 LANC 8-PT-693 (A43) CONFIGURATION: 02/14/58

REFERENCE INFORMATION: SQ.FT. 2690.0000 INCHES 1290.3000 INCHES 1290.3000 IN. XT 976.0000 IN. YT 400.0000 IN. ZT 400.0000 SCALE .0100

ELV-L6 .000 ELV-L1 .000 ELV-R1 .000 ELV-R0 .000

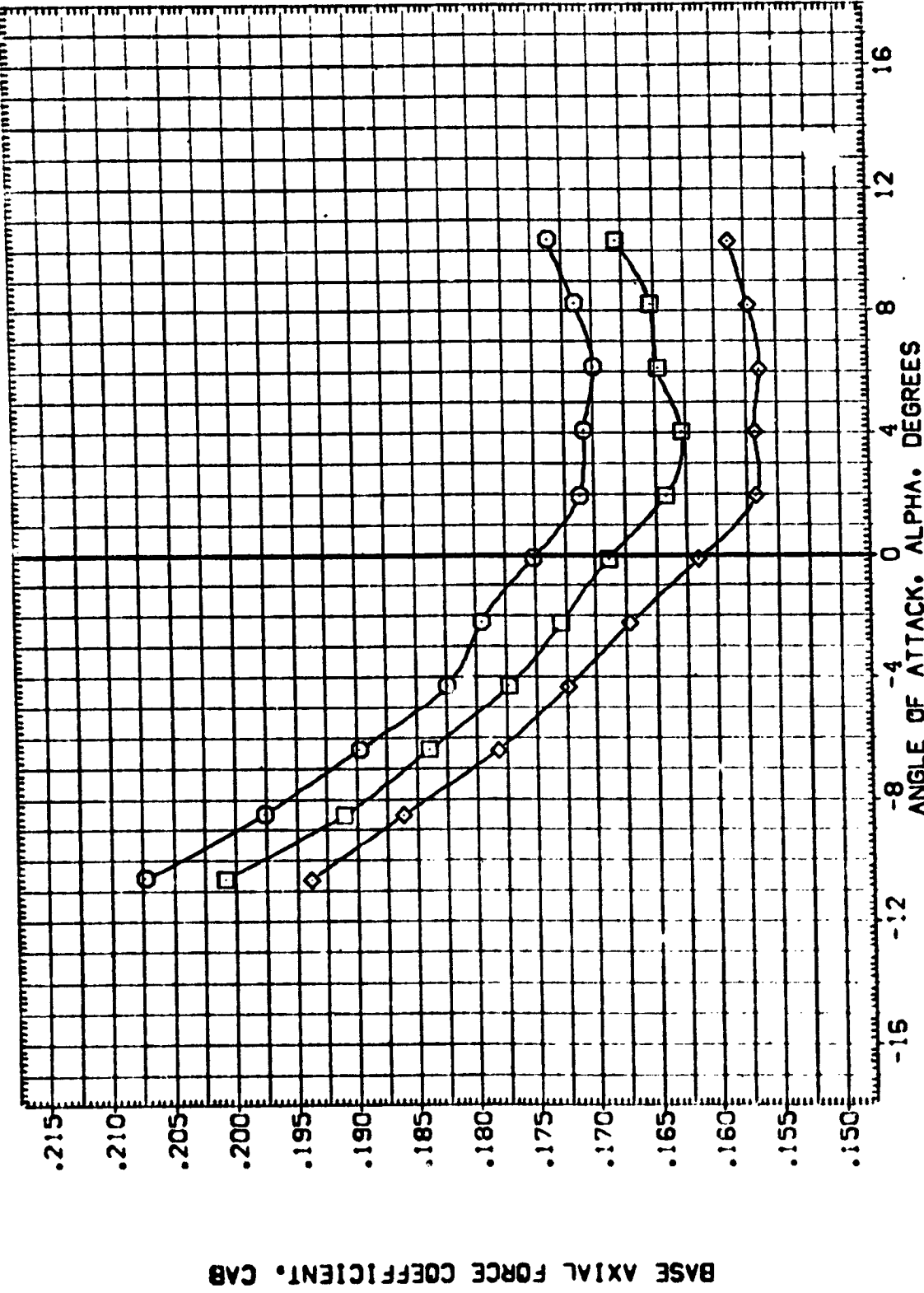


FOREBODY AXIAL FORCE COEFFICIENT, CAF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: 01  
 B-CODES: B-C006, B-C007, B-C002  
 CONFIGURATION DESCRIPTION:  
 LARC 8-TPT-883 (1A3) CONF. DURATION: 02/74/57  
 LARC 8-TPT-883 (1A3) CONF. DURATION: 03/74/57  
 LARC 8-TPT-883 (1A3) CONF. DURATION: 02/74/58  
 REFERENCE: ELEV-00, ELEV-01, ELEV-02, ELEV-03, ELEV-04, ELEV-05  
 SREF: .000, .000, .000, .000, .000  
 LREF: .000, .000, .000, .000, .000  
 BREF: .000, .000, .000, .000, .000  
 XTRP: 400.0000, 400.0000  
 YTRP: .0100  
 ZTRP: .0100  
 SCALE: .0100



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

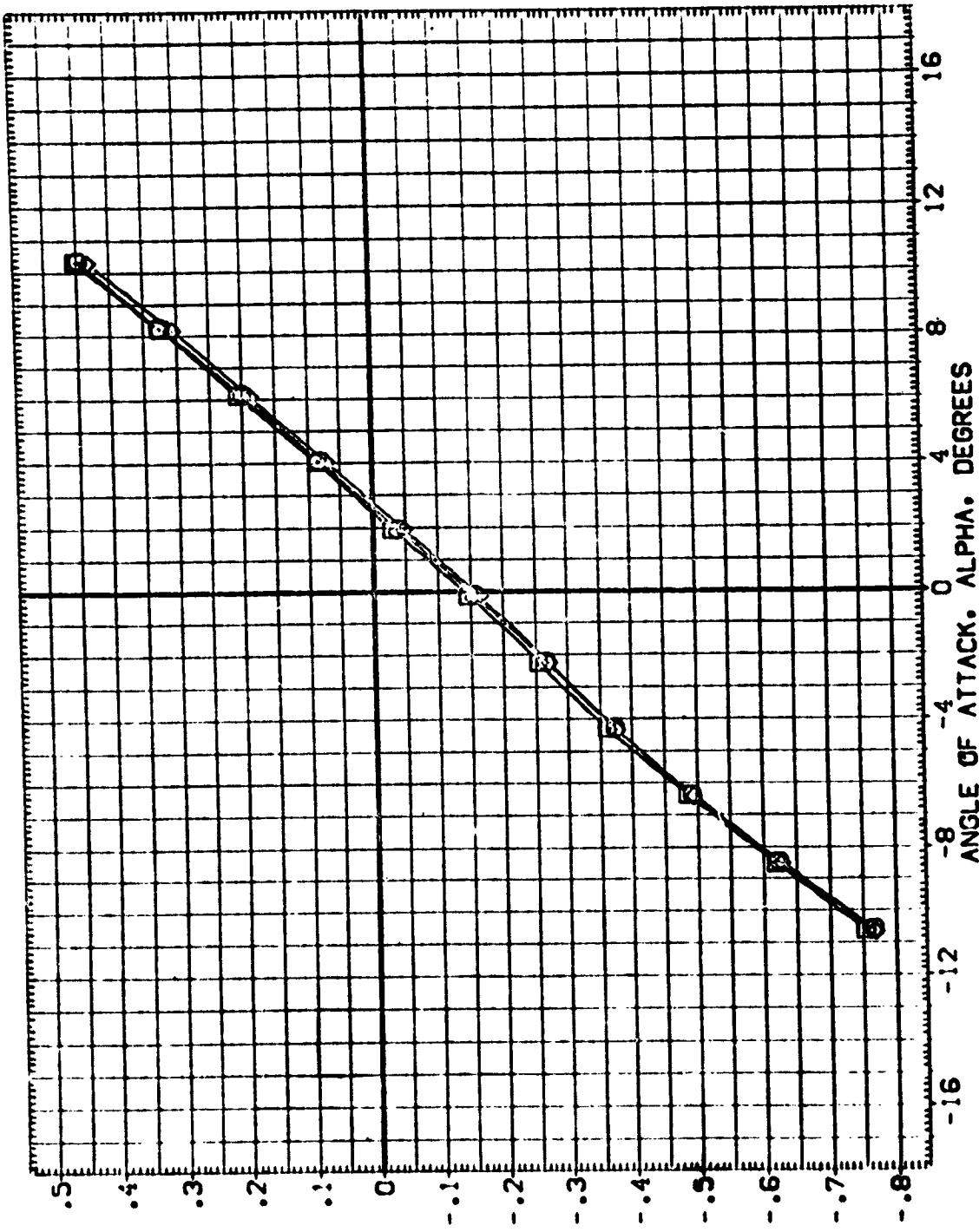


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 BREF 1250.3000 INCHES  
 XTRP 576.0000 IN. XT  
 YTRP .0000 IN. YT  
 ZTRP 400.0000 IN. ZT  
 SCALE 400.0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

02/74/57  
 03/74/57  
 02/74/58

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 (B-C007) LARC 8-TPT-693 (1A13) COF GURAT:ON 03/74/57  
 (B-C002) LARC 8-TPT-693 (1A13) COF GURAT:ON 02/74/58



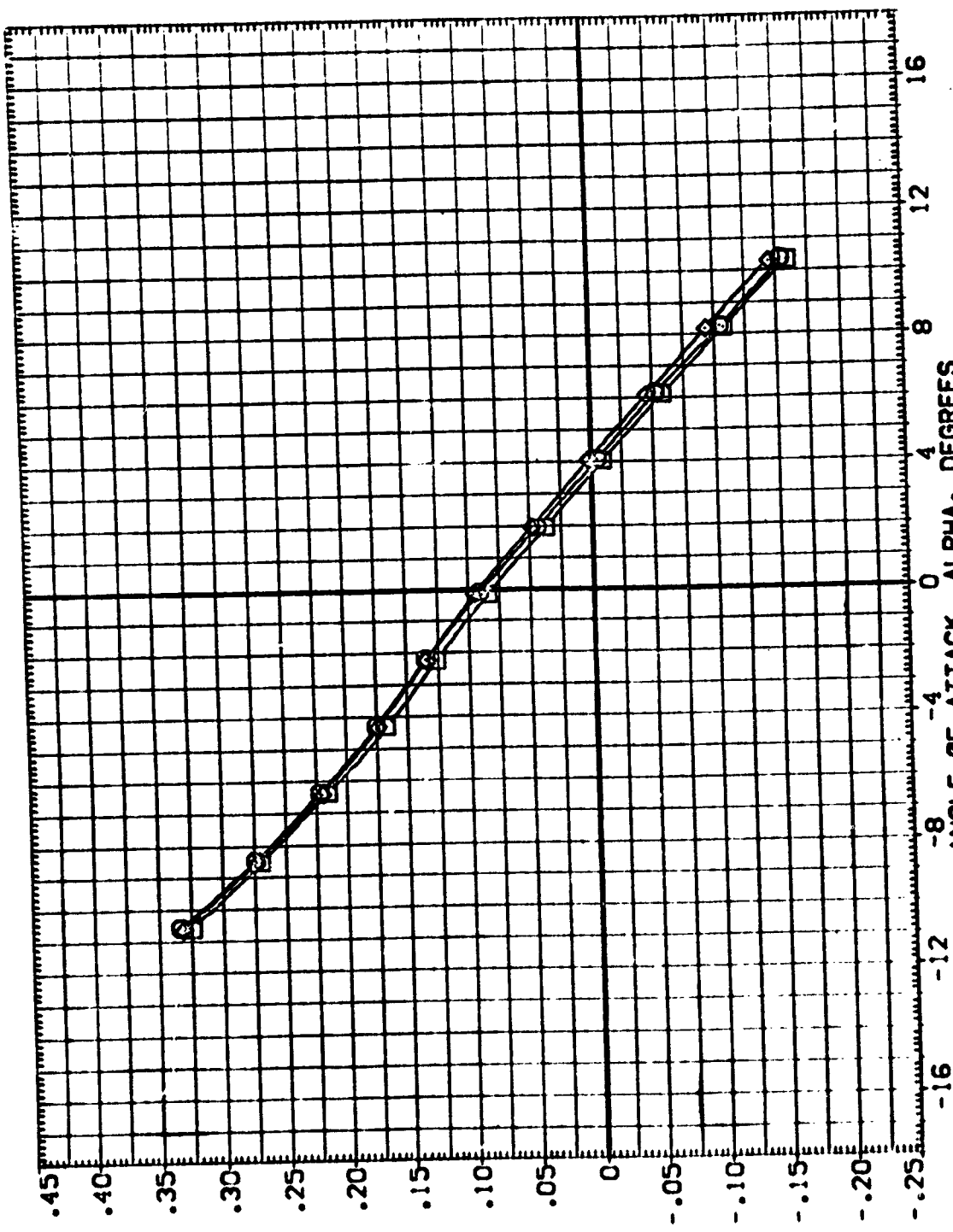
FOREBODY NORMAL FORCE COEFFICIENT • CNF

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OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: [B-C006] [B-C007] [B-C008]  
 CONF GURATION DESCRIPTION: [ARC 8-TP-693] [ARC 8-TP-693] [ARC 8-TP-693]  
 CONF GURATION: [02/14/57] [02/14/57] [02/14/58]  
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 LREF: 1750.3000 LREF: .000 LREF: .000  
 XMRP: 576.0000 XMRP: .000 XMRP: .000  
 YMRP: 400.0000 YMRP: .000 YMRP: .000  
 ZMRP: .0000 ZMRP: .0000 ZMRP: .0000  
 SCALE: .0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL: (9-0006) (B-000) (B-000)

CONFIGURATION DESCRIPTION: LARC 0-TPT-693 (1A13) DATA NOT AVAILABLE

CONFIGURATION: 02/14/57

REFERENCE INFORMATION: SREF 2690.0000, LREF 1290.3000, BREF 1290.3000, XMRP 576.0000, ZMRP 400.0000, SCALE .0100

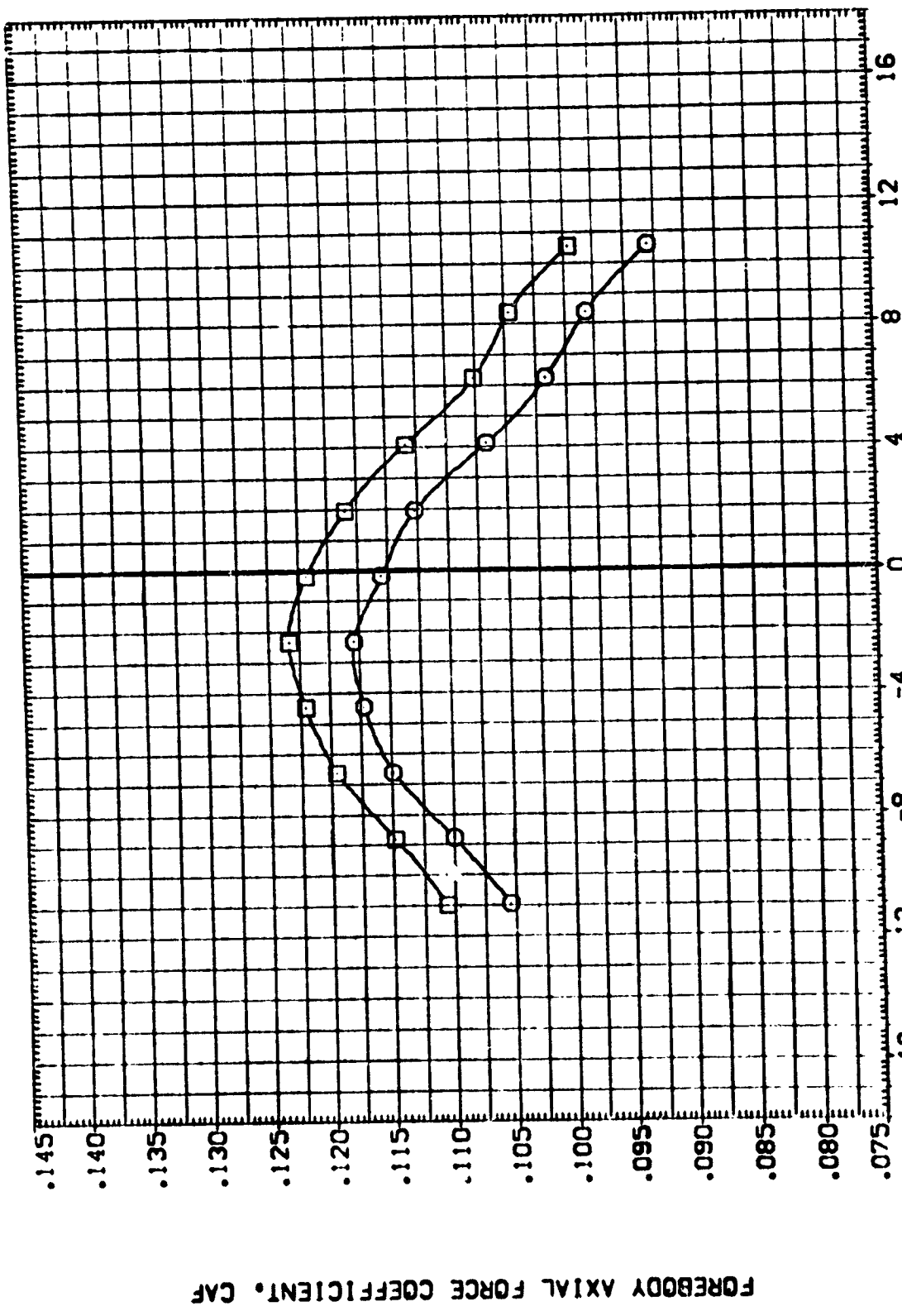
SO.FT: INCHES, IN. XT, IN. ZT

ELV-L0 .000

ELV-LJ .000

ELV-RI .000

ELV-R0 .000



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

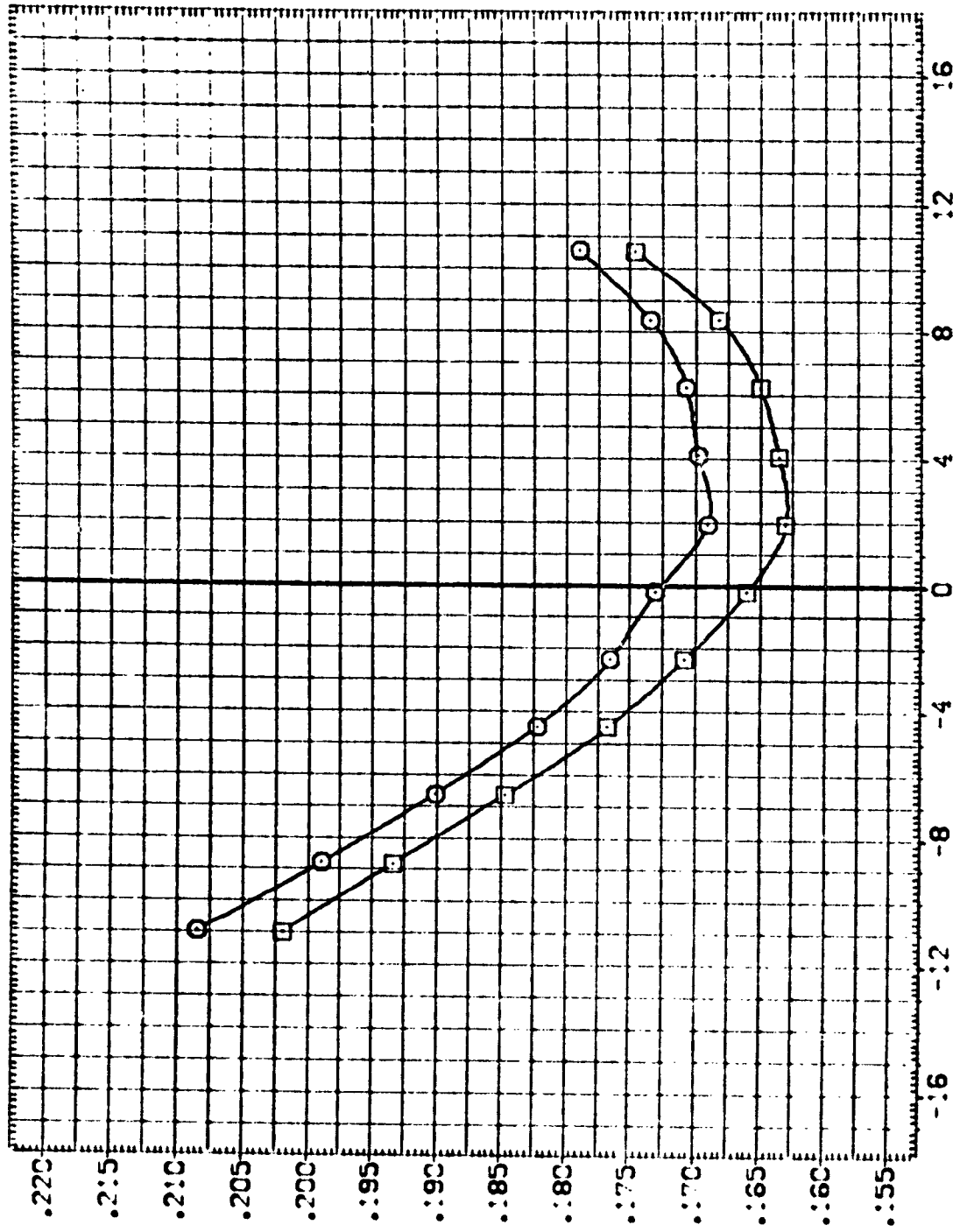
(B)MACH = .80

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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 3-0009 8-PT-893 (MAG) CONFIGURATION: 03/4/5  
 3-0010 8-PT-893 (MAG) CONFIGURATION: 03/4/5

ELVLD ELVLD ELVLD ELVLD  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE CONFIGURATION  
 SIZE .000  
 AREA .000  
 YMRD .000  
 ZMRD .000  
 SCALE 400.0000



BASE AXIAL FORCE COEFFICIENT, CAB

ANGLE OF ATTACK, ALPHA, DEGREES

CMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

C31VAC- = .80

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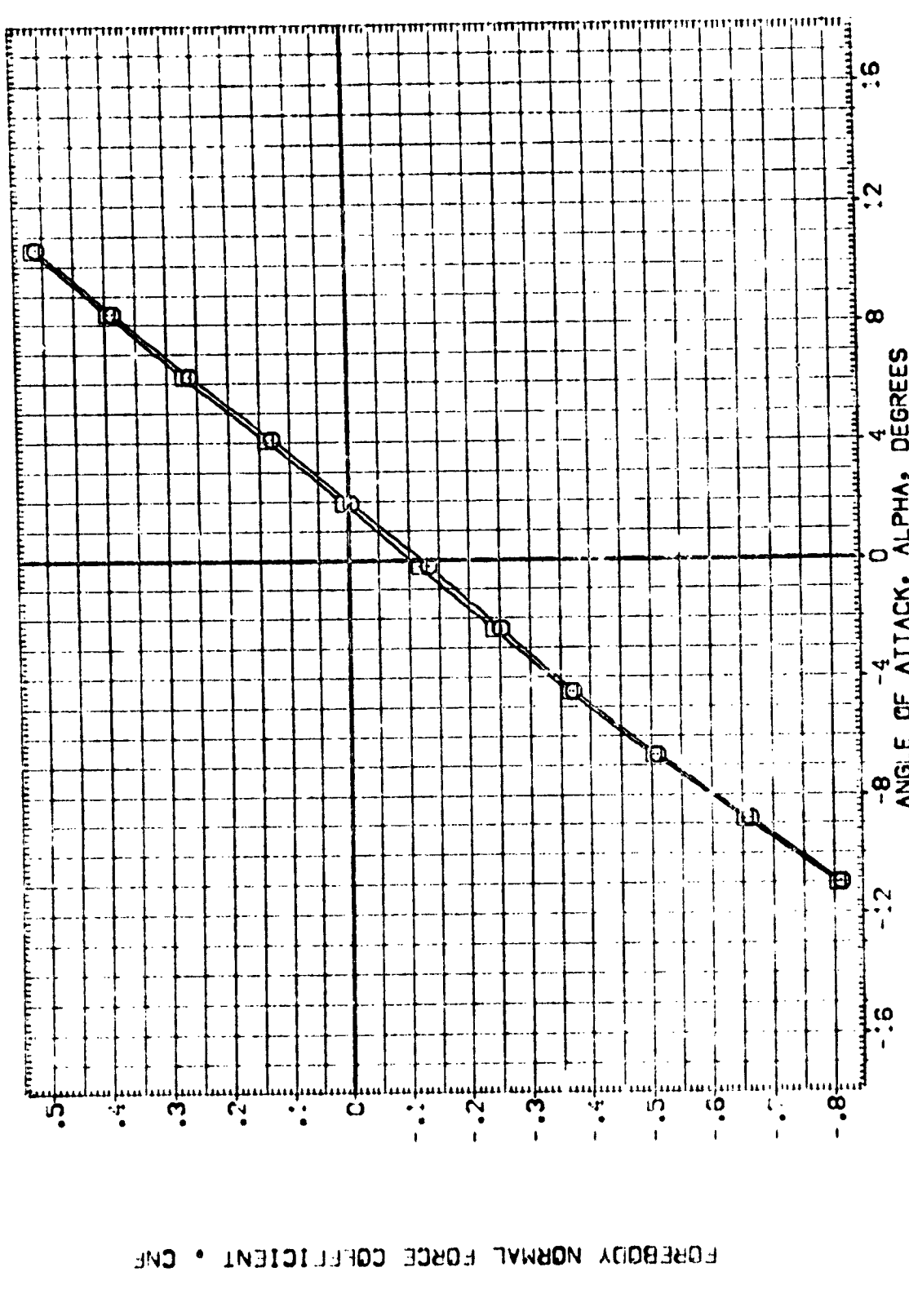




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 BREF 1000 0000  
 VREF 978 0000  
 VREF 400 0000  
 SCALE 100 0000

ELV-L0 .000  
 ELV-L1 .000  
 ELV-R1 .000  
 ELV-R0 .000

CONFIGURATION DESCRIPTION  
 CASE 8-2-63 (143) CONFIGURATION 52/145  
 CASE 8-2-63 (143) CONFIGURATION 53/145  
 DATA AVAILABLE



FOREBODY NORMAL FORCE COEFFICIENT • CNF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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DATA SET SYMBOL: [B-C005] [B-C001] [B-C002]

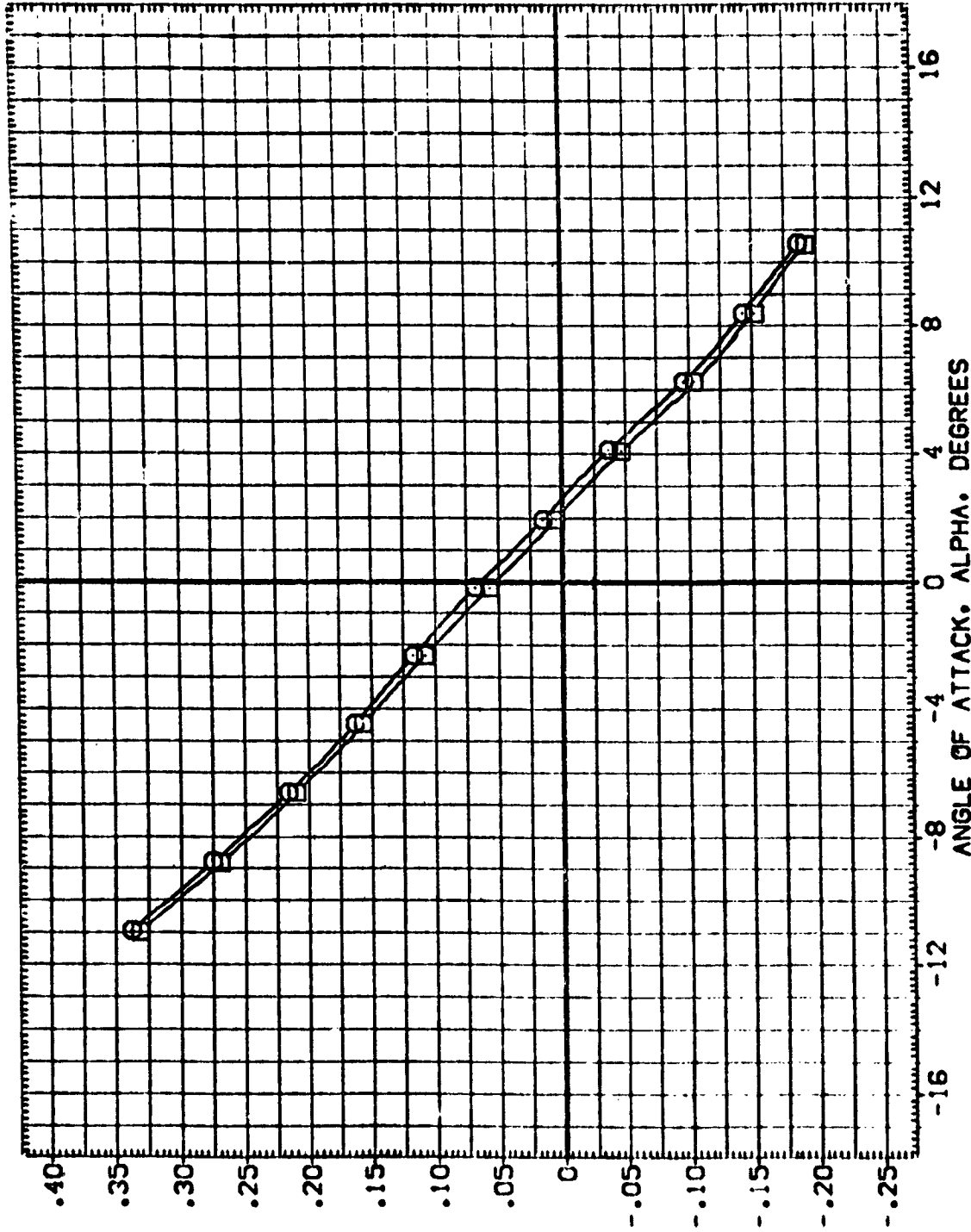
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 LARC B-TPT-693 (1A43) CONFIGURATION 03/14/57  
 DATA NOT AVAILABLE

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
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 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERRAL: SREF: 1.000  
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 YMRP: 976.0000  
 ZMRP: 400.0000  
 SCALE: .0100

SC.FT. 1.000  
 C.F.E.S. 1.000  
 N. X. I  
 N. Y. I  
 N. Z. I

FOREBODY PITCHING MOMENT COEFFICIENT • CLM<sub>F</sub>



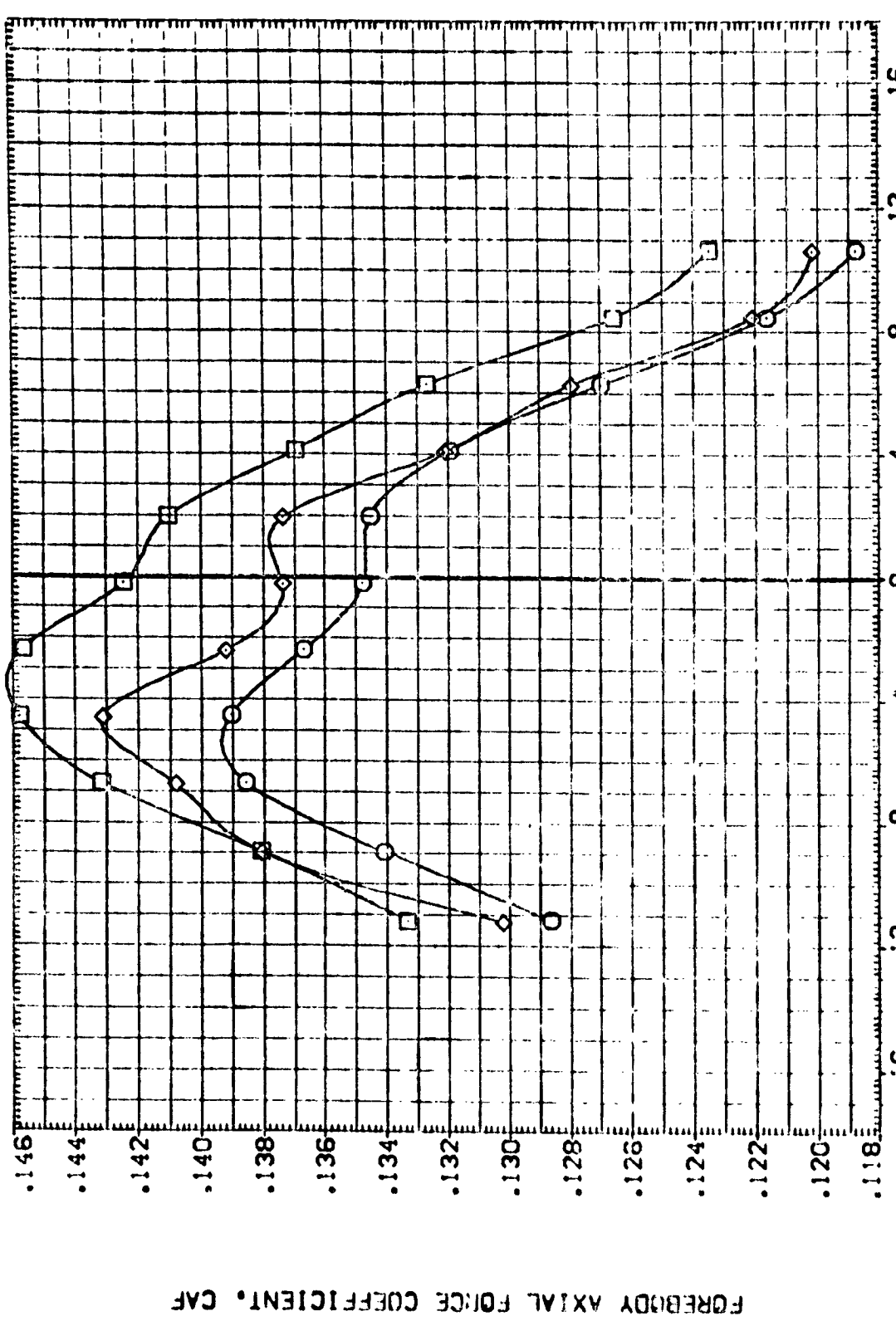
OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 (B 0011) O LARC 8-TPT-691 (1A43) COF DURATION 03/14/57  
 (B 0012) O LARC 8-TPT-653 (1A43) COF DURATION 02/14/58

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
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 BREF .290.3000 INCHES  
 XWRP .976.0000 IN. XT  
 YWRP .000.0000 IN. YT  
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 SCALE .0100



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

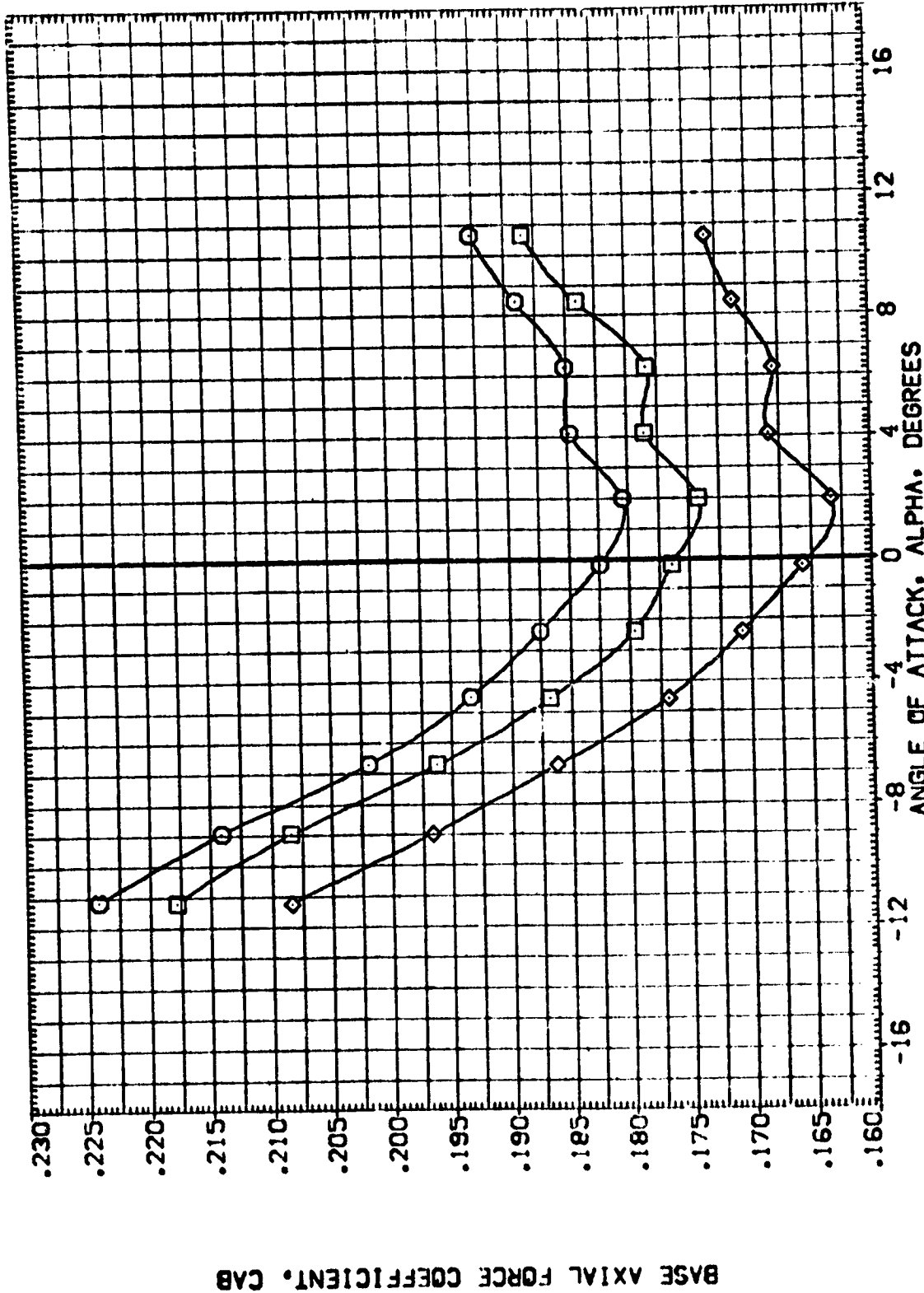
OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

REFERENCE INFORMATION:  
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 SCALE

ELV-R0 .000  
 ELV-R1 .000  
 ELV-L1 .000  
 ELV-L0 .000  
 ELV-R0 .000  
 ELV-R1 .000  
 ELV-L1 .000  
 ELV-L0 .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION  
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 (B-0007) O LARC 8-TPT-893 (1A43) CONF [GURAT] ON 03/14/57  
 (B-0002) O LARC 8-TPT-893 (1A43) CONF [GURAT] ON 02/14/58



BASE AXIAL FORCE COEFFICIENT, CAB

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .90



REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XWRP	576.0000	IN. XT
YWRP	400.0000	IN. YT
ZWRP	400.0000	IN. ZT
SCALE	.0100	

ELV-L0	ELV-L1	ELV-R1	ELV-R0
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.000	.000	.000	.000
.000	.000	.000	.000

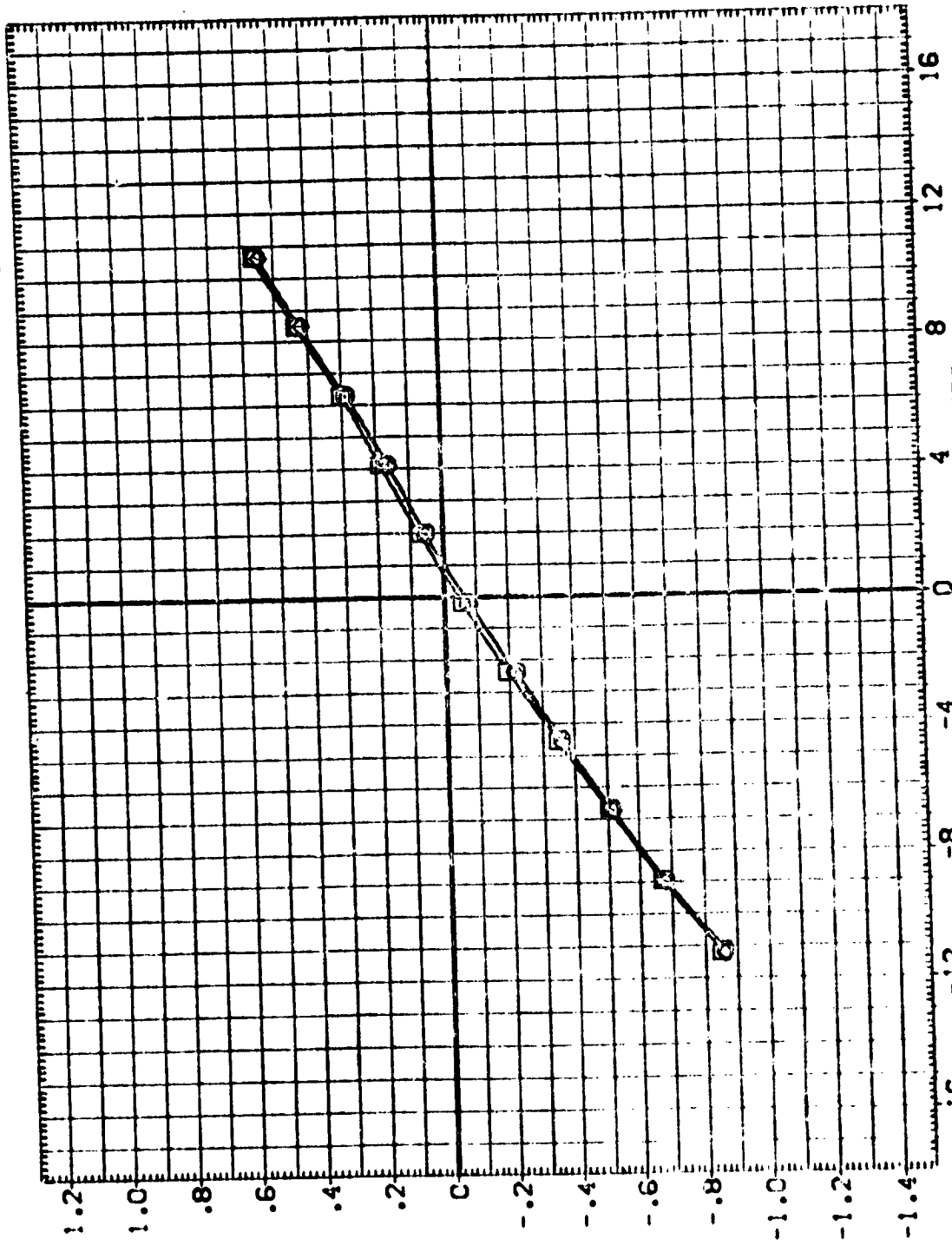
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LARC 8-TPT-693 (1A43)	CONF:GURATION	03/14/57
LARC 8-TPT-693 (1A43)	CONF:GURATION	02/14/58

DATA SET SYMBOL

(B-C013)

(B-C001)

(B-C002)



FOREBODY NORMAL FORCE COEFFICIENT • CNF

ANGLE OF ATTACK, ALPHA, DEGREES

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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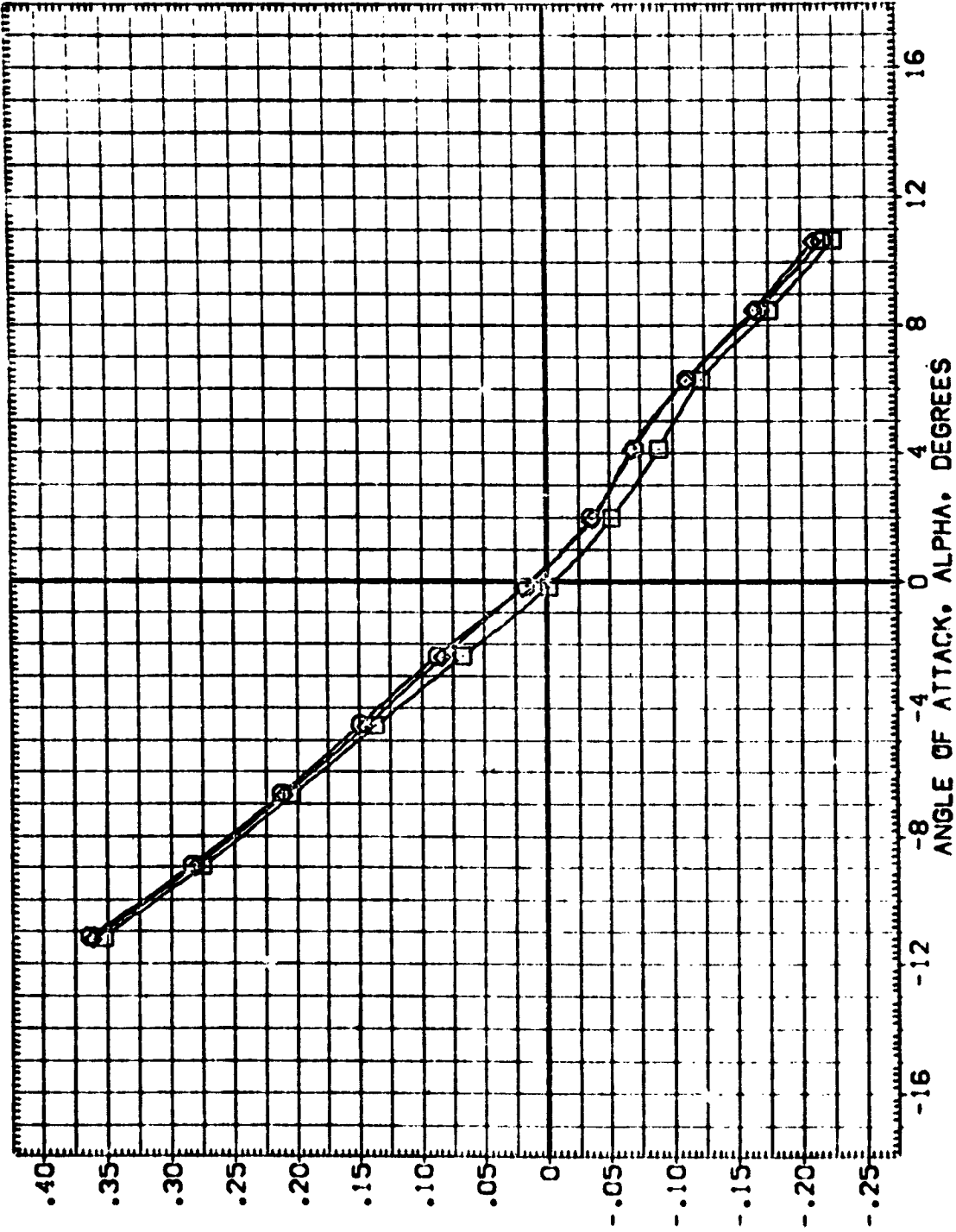
(C)MACH = .90

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DATA SET SYMBOL: (B-C006) □ (B-C007) ◇  
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 LARC 8-TPT-693 (A13) CONFIGURATION 03/14/57  
 LARC 8-TPT-693 (A13) CONFIGURATION 02/14/58

REFERENCE INFORMATION:  
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 LREF: 300  
 BREF: 300  
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 YMRP: 400.0000  
 ZMRP: 0.0000  
 IN. YI: 0.0100  
 IN. ZI: 0.0100

ELV-LB: .000  
 ELV-LD: .000  
 ELV-RC: .000  
 ELV-RD: .000  
 ELV-SI: .000  
 ELV-SR: .000  
 ELV-TI: .000  
 ELV-TR: .000



FOREBODY PITCHING MOMENT COEFFICIENT • CMF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

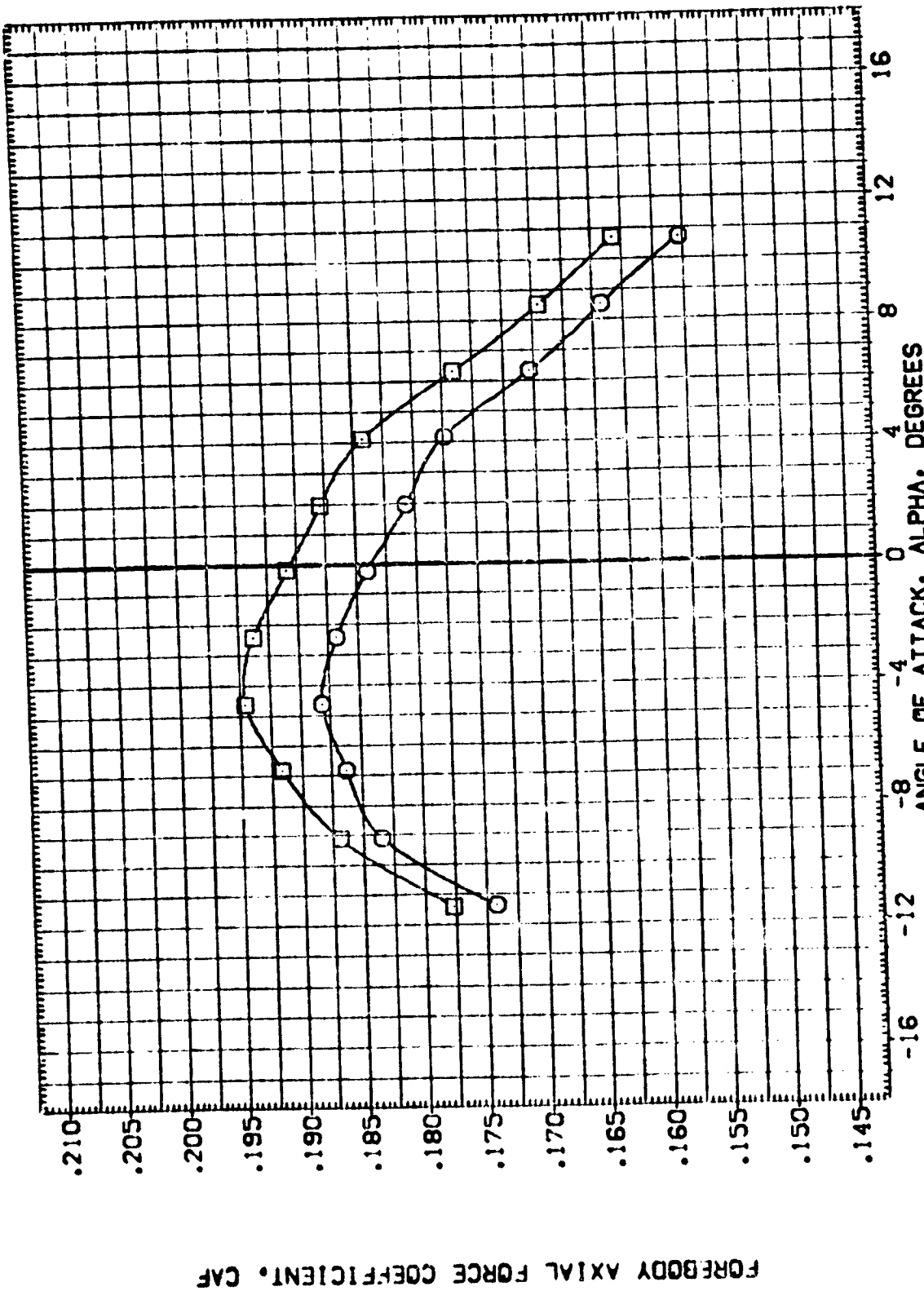


DATA SET SYMBOL: (9-0006) (8-0001) (8-0002)

CONFIGURATION DESCRIPTION:  
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 LARC 8-TPT-653 (1A13) CONFIGURATION 03/14/57  
 DATA NOT AVAILABLE

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION:  
 SREF 2690.0000 SO.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XTRP 576.0000 IN. XT  
 YTRP .0000 IN. ZT  
 ZTRP 400.0000 IN. ZT  
 SCALE 400.0100



FOREBODY AXIAL FORCE COEFFICIENT, CAF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

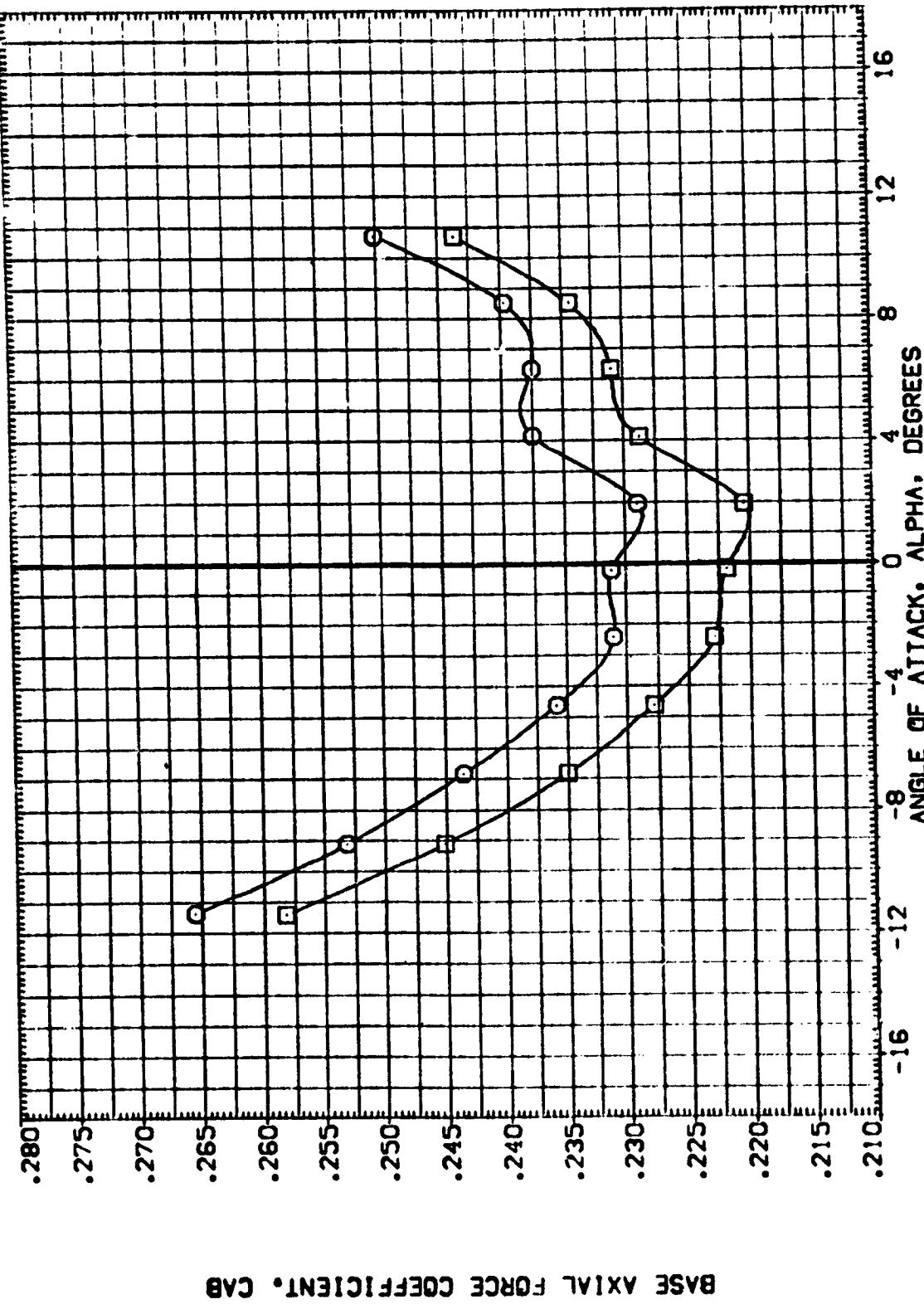
DATA SET SYMBOL: (B-C001) (B-C002) (B-C003)

CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A13) DATA NOT AVAILABLE

CONFIGURATION: 02/T./57 03/14/57

REFERENCE INFORMATION: 2850.0000 50.0 FT. 2850.0000 50.0 FT. 130.0000 INCHES 130.0000 INCHES 976.0000 IN. XT 976.0000 IN. XT 400.0000 IN. ZT 400.0000 IN. ZT SCALE: .0100

ELV-L0: .000  
ELV-L1: .000  
ELV-R1: .000  
ELV-R0: .000



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(O)MACH = .98

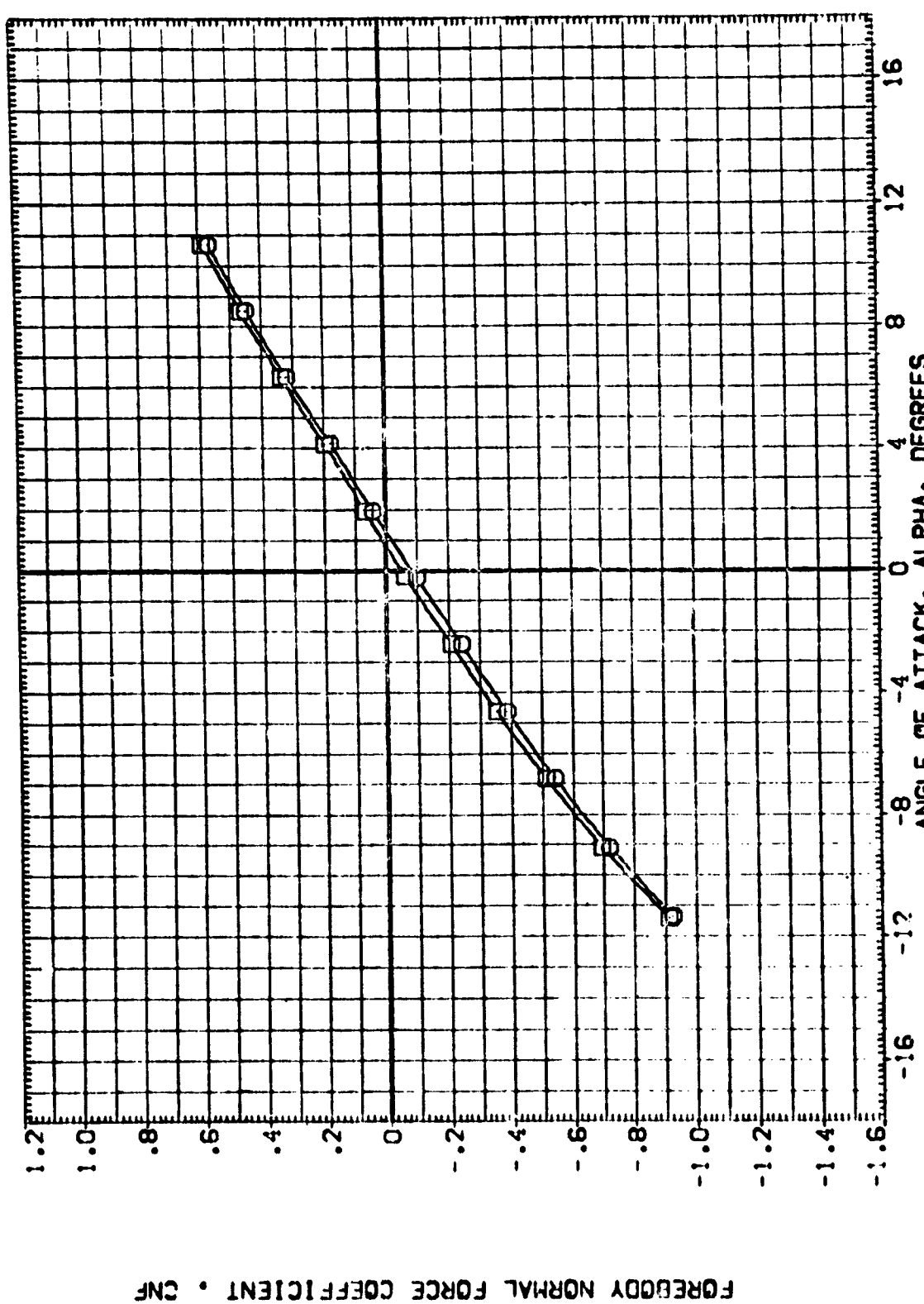




DATA SET SYMBL.    CONFIGURATION DESCRIPTION  
 (B-C005)    LARC 8-TPT-693 (1A13) COF (LARC) 02/14/57  
 (B-C001)    LARC 8-TPT-693 (1A13) COF (LARC) 03/14/57  
 (B-C002)    DATA NOT AVAILABLE

ELV-L0    ELV-L1    ELV-R1    ELV-R0  
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 .000    .000    .000    .000  
 .000    .000    .000    .000

REFERENCE INFORMATION  
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 LREF 1290.3000    IN.-ES  
 BREF 1290.3000    IN.-ES  
 XPRP 576.0000    IN. XT  
 YPRP 400.0000    IN. YT  
 ZPRP 400.0000    IN. ZT  
 SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

ORIGINAL PAGE IS  
OF POOR QUALITY

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

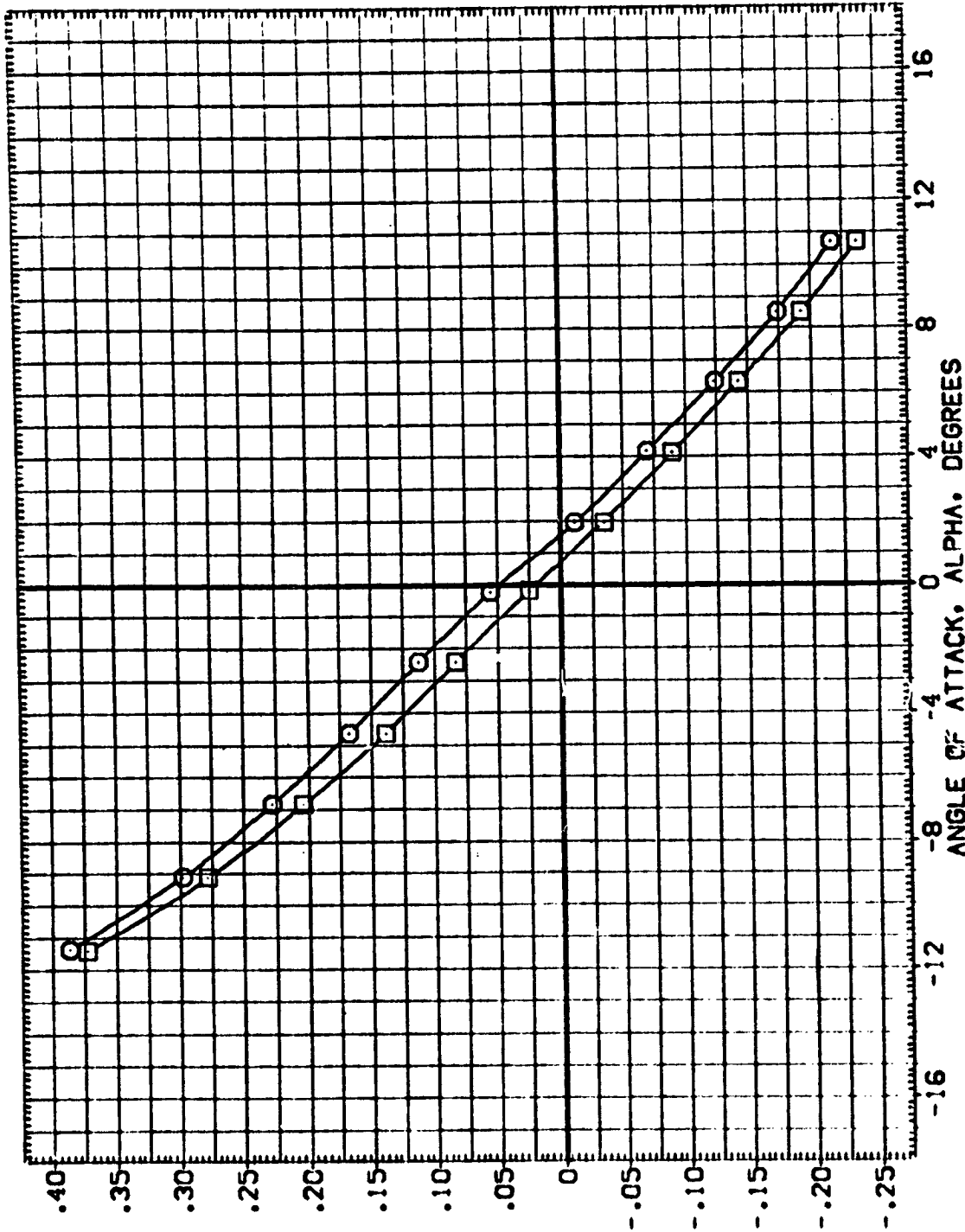
DATA SET SYMBOL: (B-C006) (B-C001) (B-C002)

CONFIGURATION DESCRIPTION: LARC 8-TPT-893 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-893 (1A13) CONFIGURATION 03/14/57  
 DATA NOT AVAILABLE

ELV-L6 .000  
 ELV-LJ .000  
 ELV-RI .000  
 ELV-R0 .000

REFER: SREF .000  
 LREF .000  
 XMRP 576.0000  
 YMRP 400.0000  
 ZMRP .0100

INFORMATION: 76 SQ.FT.  
 150.3000 INCHES  
 576.0000 IN. X  
 400.0000 IN. Z



FOREBODY PITCHING MOMENT COEFFICIENT • CLM

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(0)MACH = .98

PAGE 86



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    DATE OF CONFIGURATION

(B-C006)    □    LARC 8-TPT-893 (1A13)    02/14/57

(B-C001)    ◇    LARC 8-TPT-893 (1A13)    03/14/57

(B-C002)    ○    LARC 8-TPT-893 (1A13)    02/14/58

ELV-L0    ELV-L1    ELV-R1    ELV-R0

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.000    .000    .000    .000

.000    .000    .000    .000

REFERENCE INFORMATION

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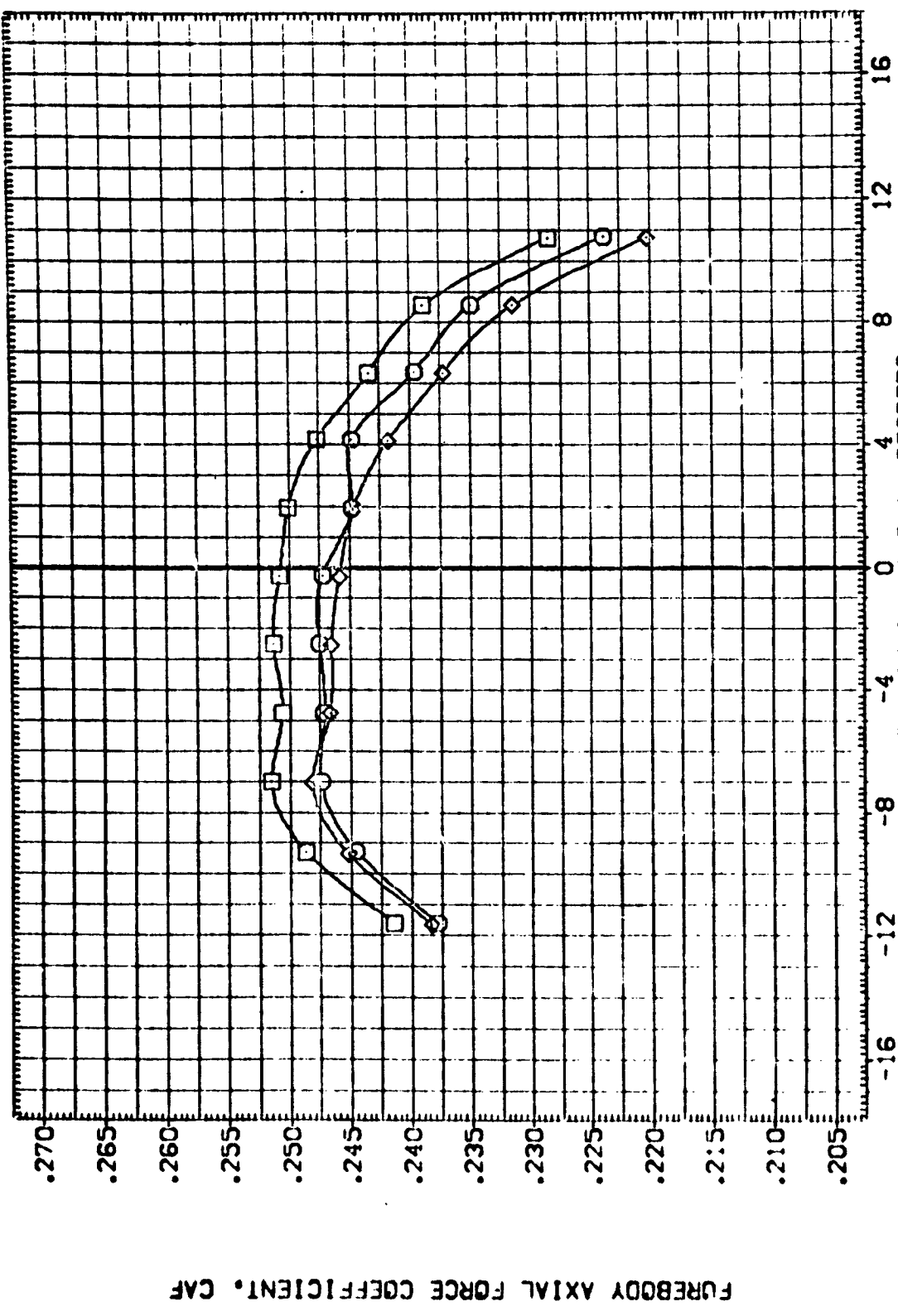
LREF    1290.3000    INCHES

BREF    1290.3000    INCHES

YARP    976.0000    IN. XT

ZARP    400.0000    IN. YT

SCALE    400.0100    IN.



FOREBODY AXIAL FORCE COEFFICIENT, CAF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION DATE OF CONFIGURATION

(B-C006) ○ 8-TPT-693 (1A13) 02/14/57

(B-C001) ◇ 8-TPT-693 (1A13) 03/14/57

(B-C002) ◇ 8-TPT-693 (1A13) 02/14/58

REFERENCE INFORMATION

SREF 290.0000 SO IN. ES

LREF 290.3000 IN. ES

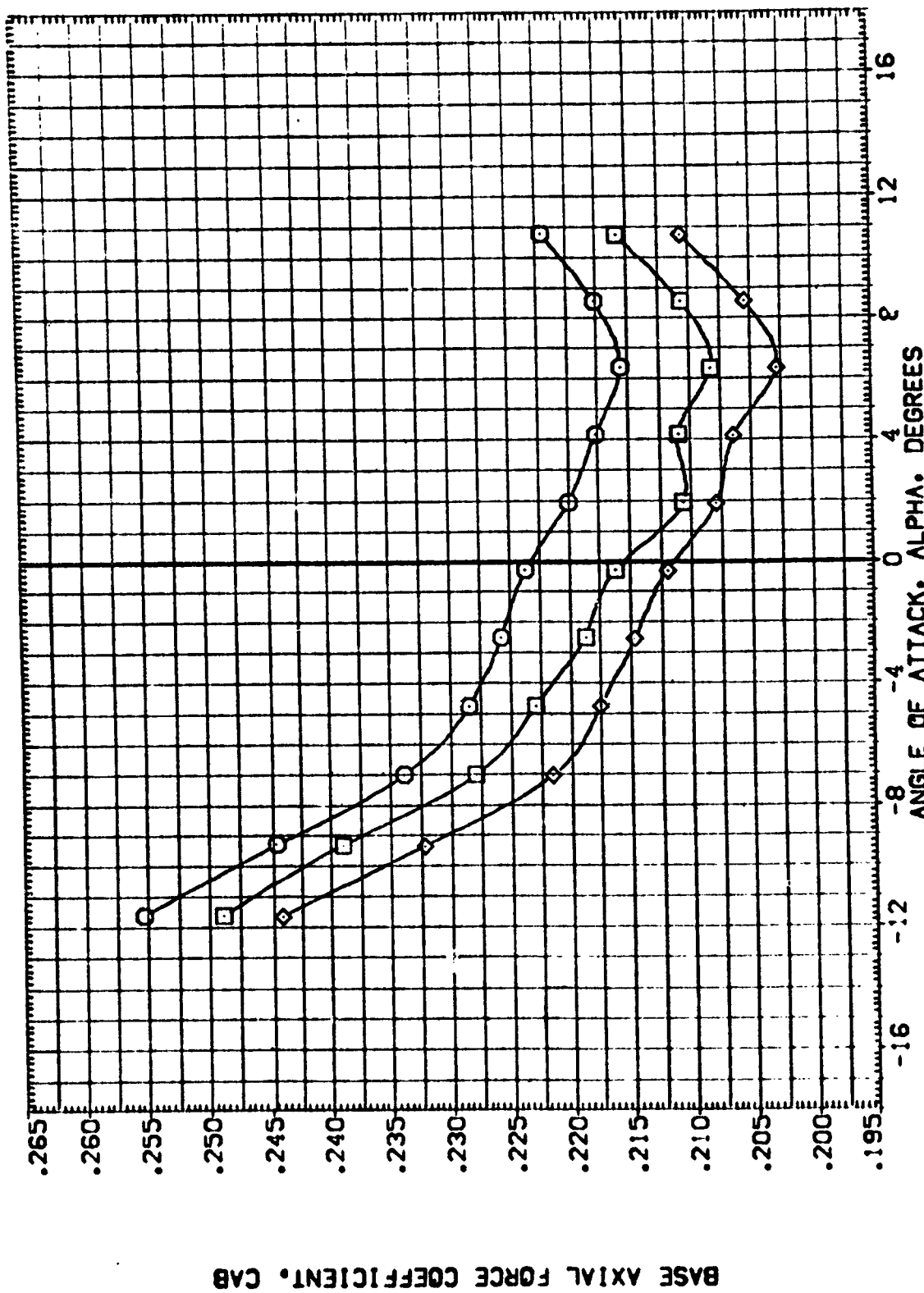
BREF 290.3000 IN. X

XMRP 576.0000 IN. Y

YMRP 400.0000 IN. Z

ZMRP 400.0000 IN. Z

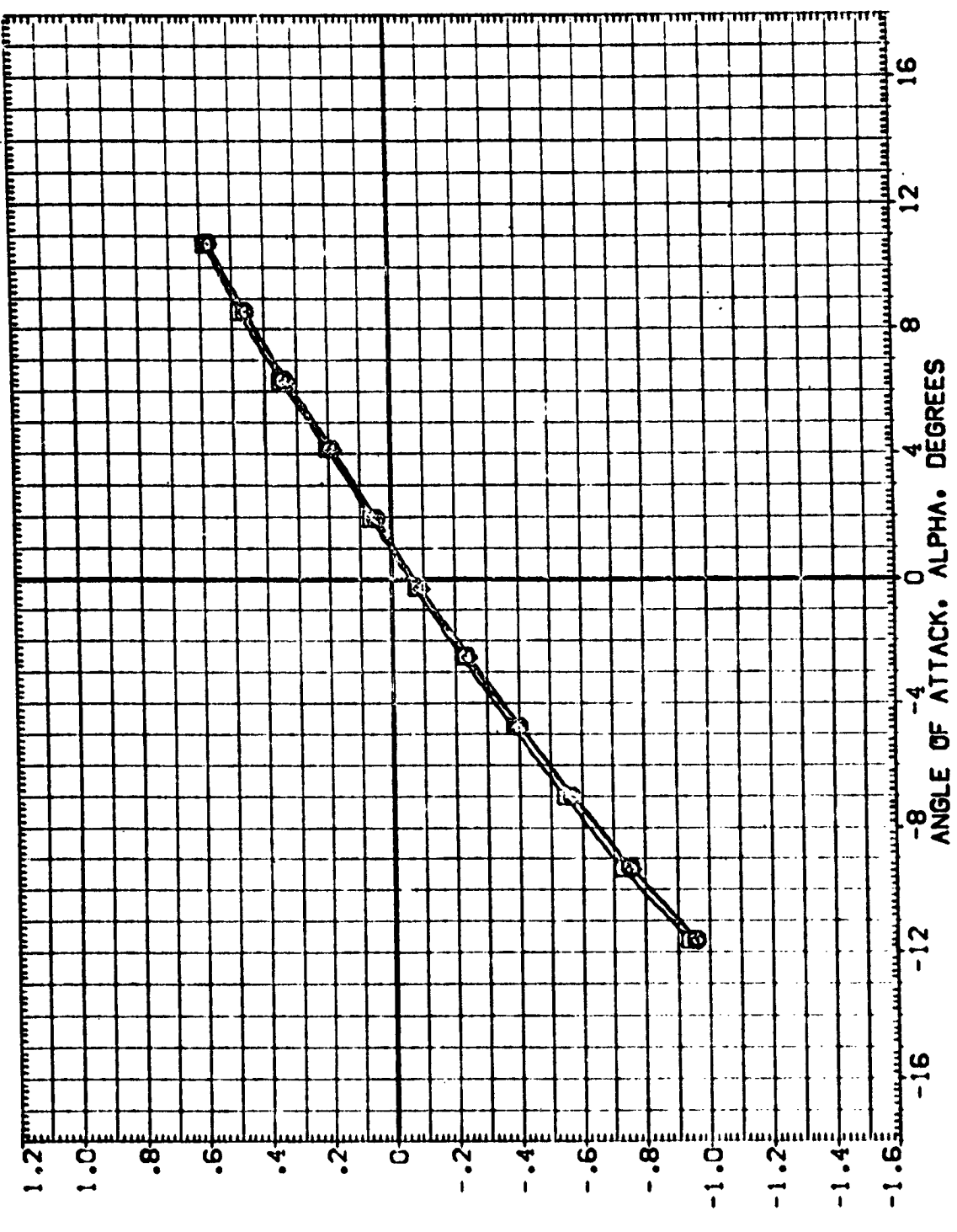
SCALE .0100



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS



DATA SET SYMBOL: (B-C006) (B-C007) (B-C002)  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A43) LARC 8-TPT-693 (1A43) LARC 8-TPT-693 (1A43)  
 CONFIGURATION: 02/TA/57 03/TA/57 02/TA/58  
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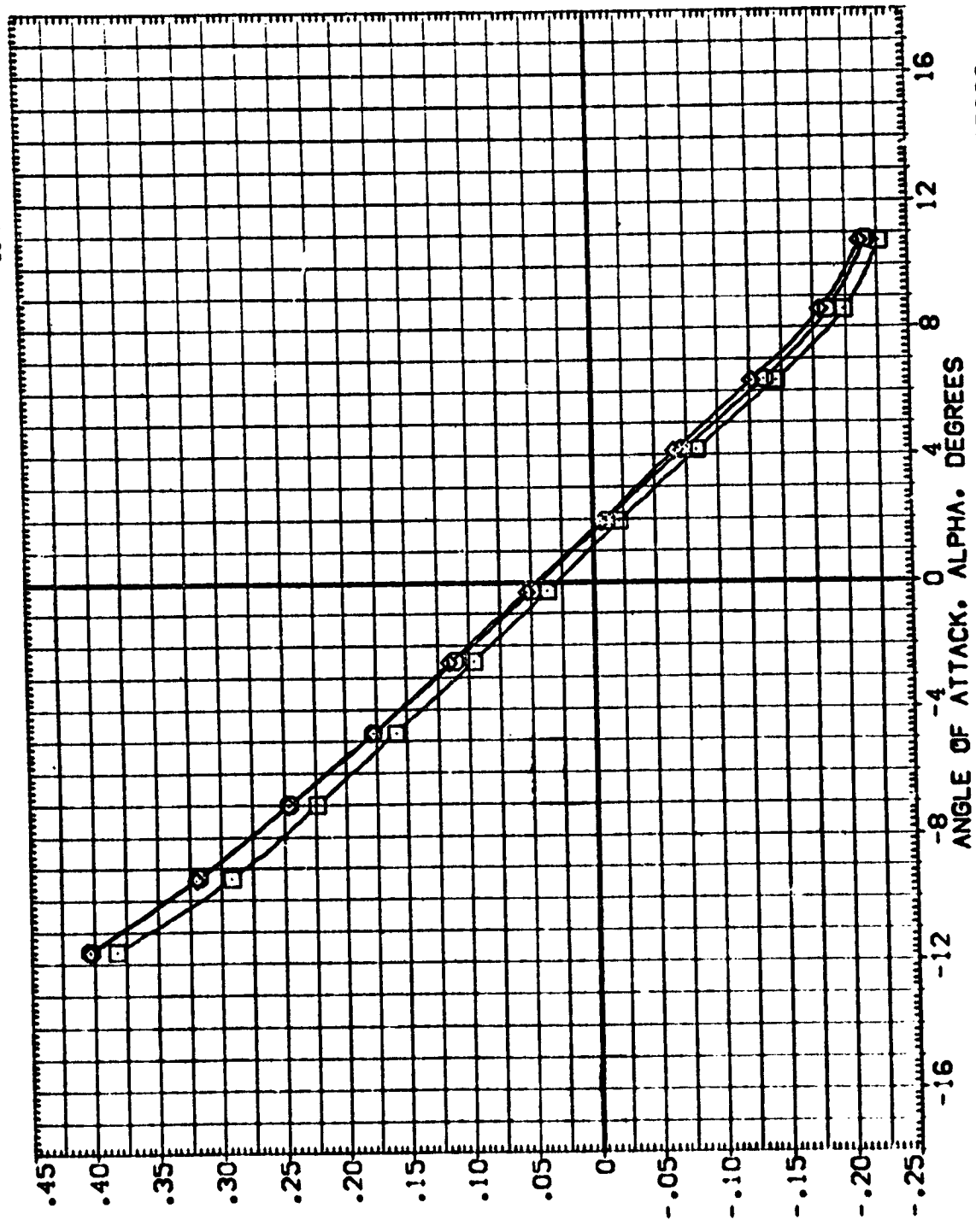
FOREBODY NORMAL FORCE COEFFICIENT • CNF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION  
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 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100

ELV-L0 ELV-L1 ELV-R1 ELV-R6  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

DATA SET SYMB. CONFIGURATION DESCRIPTION  
 {B-C006} □ LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57  
 {B-C007} ◇ LARC 8-TPT-693 (1A43) CONFIGURATION 03/14/57  
 {B-C002} ◊ LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/58



FOREBODY PITCHING MOMENT COEFFICIENT • CLM

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

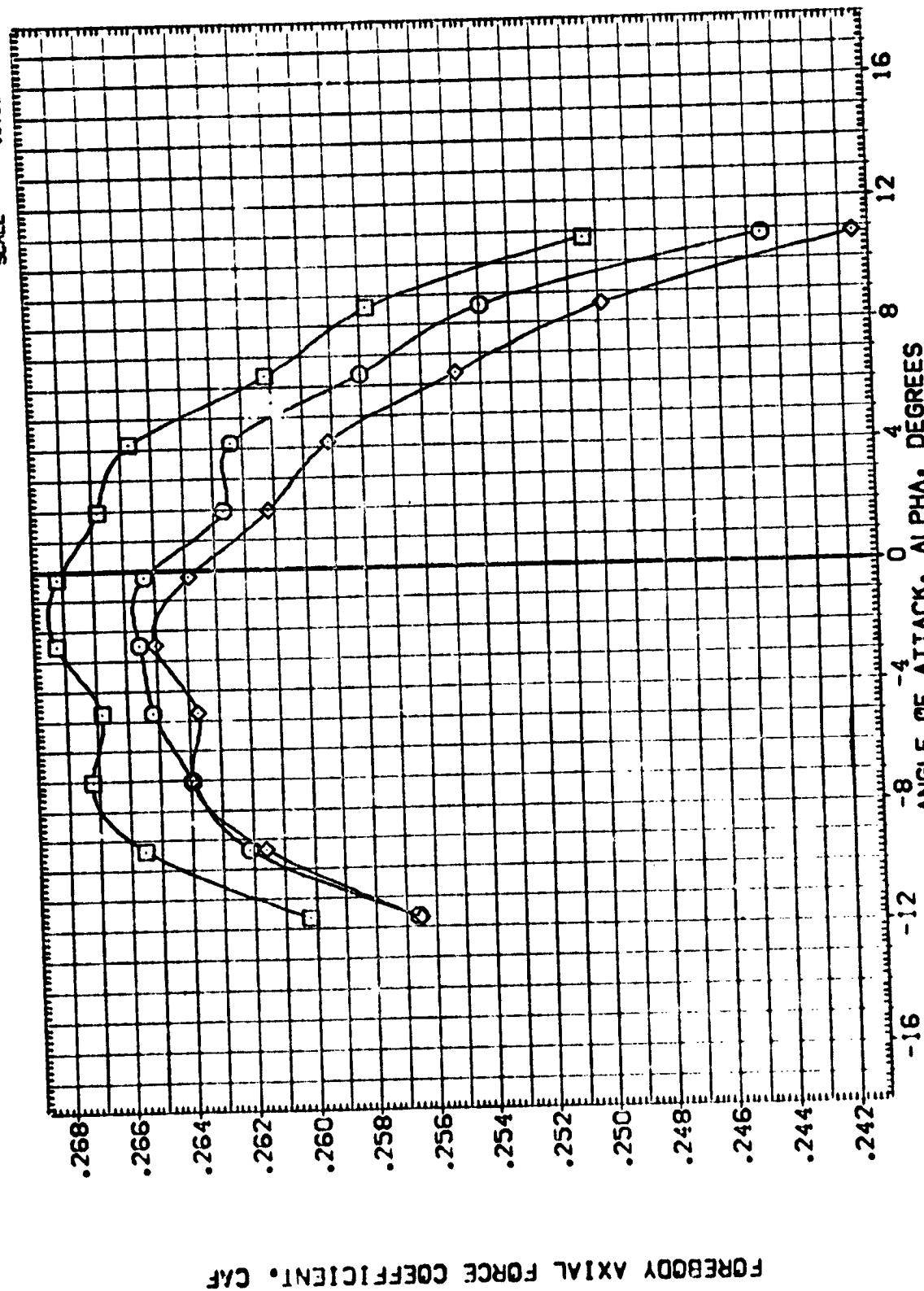
(E)MACH = 1.13



DATA SET SYMBL. CONFIGURATION DESCRIPTION  
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 (B-0001) LARC 8-TPT-693 (1A13) CONFIGURATION 03/14/57  
 (B-0002) LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/58

ELV-L6 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 1290.3000 IN.-ES  
 BREF 1290.3000 IN.-ES  
 XVRP 576.0000 IN. XT  
 YVRP 400.0000 IN. YT  
 ZVRP 400.0000 IN. ZT  
 SCALE .0100



FOREBODY AXIAL FORCE COEFFICIENT, CAF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    DATE OF CONFIGURATION

(B-006)    □    LARC 8-TPT-693 (1A43)    02/14/57

(B-001)    ◇    LARC 8-TPT-693 (1A43)    03/14/57

(B-002)    ◇    LARC 8-TPT-693 (1A43)    02/14/58

ELV-L0    ELV-L1    ELV-R1    ELV-R0

.000    .000    .000    .000

.000    .000    .000    .000

.000    .000    .000    .000

REFERENCE INFORMATION

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LREF    1250.3000    INCHES

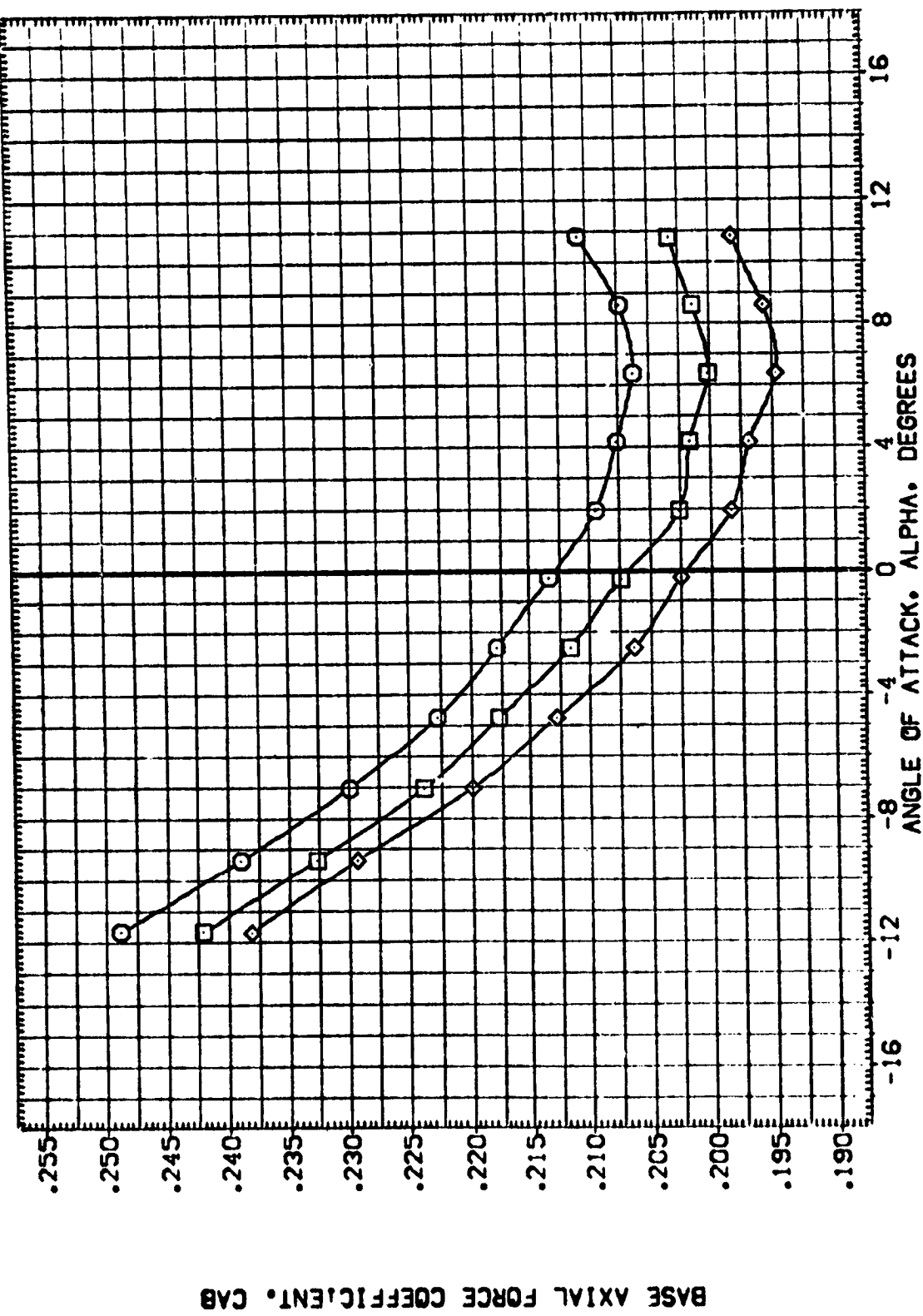
BREF    1250.3000    INCHES

XMRP    976.0000    IN. X1

YMRP    400.0000    IN. Y1

ZMRP    400.0000    IN. Z1

SCALE    .0100



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20



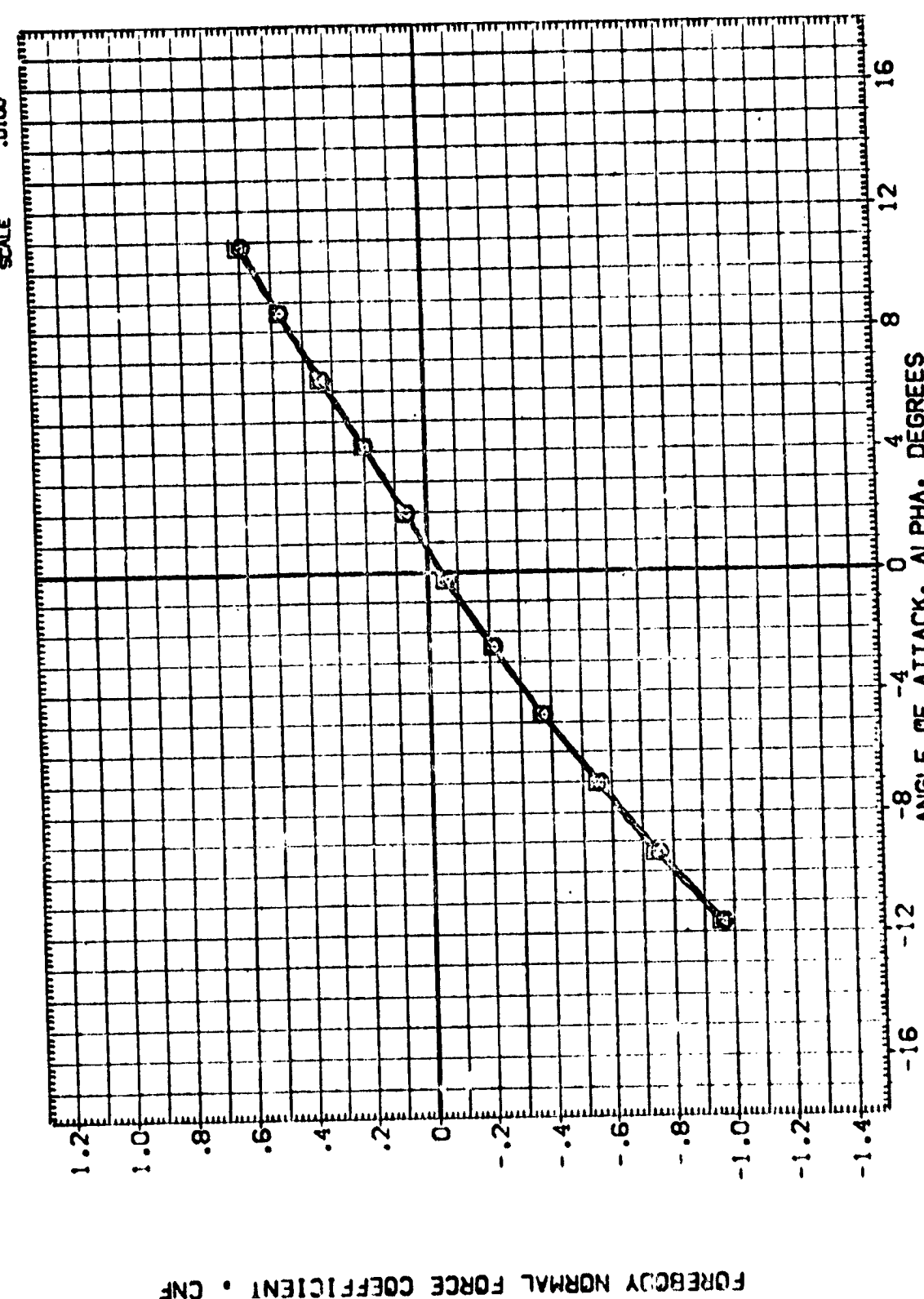


DATA SET SYMBOL: (B-C006) (B-C007) (B-C002)

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 (A43) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (A43) CONFIGURATION 03/14/57  
 LARC 8-TPT-693 (A43) CONFIGURATION 02/14/58

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
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 IN. XT 1290.3000  
 IN. Y1 976.0000  
 IN. Z1 400.0000  
 SCALE 400.0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

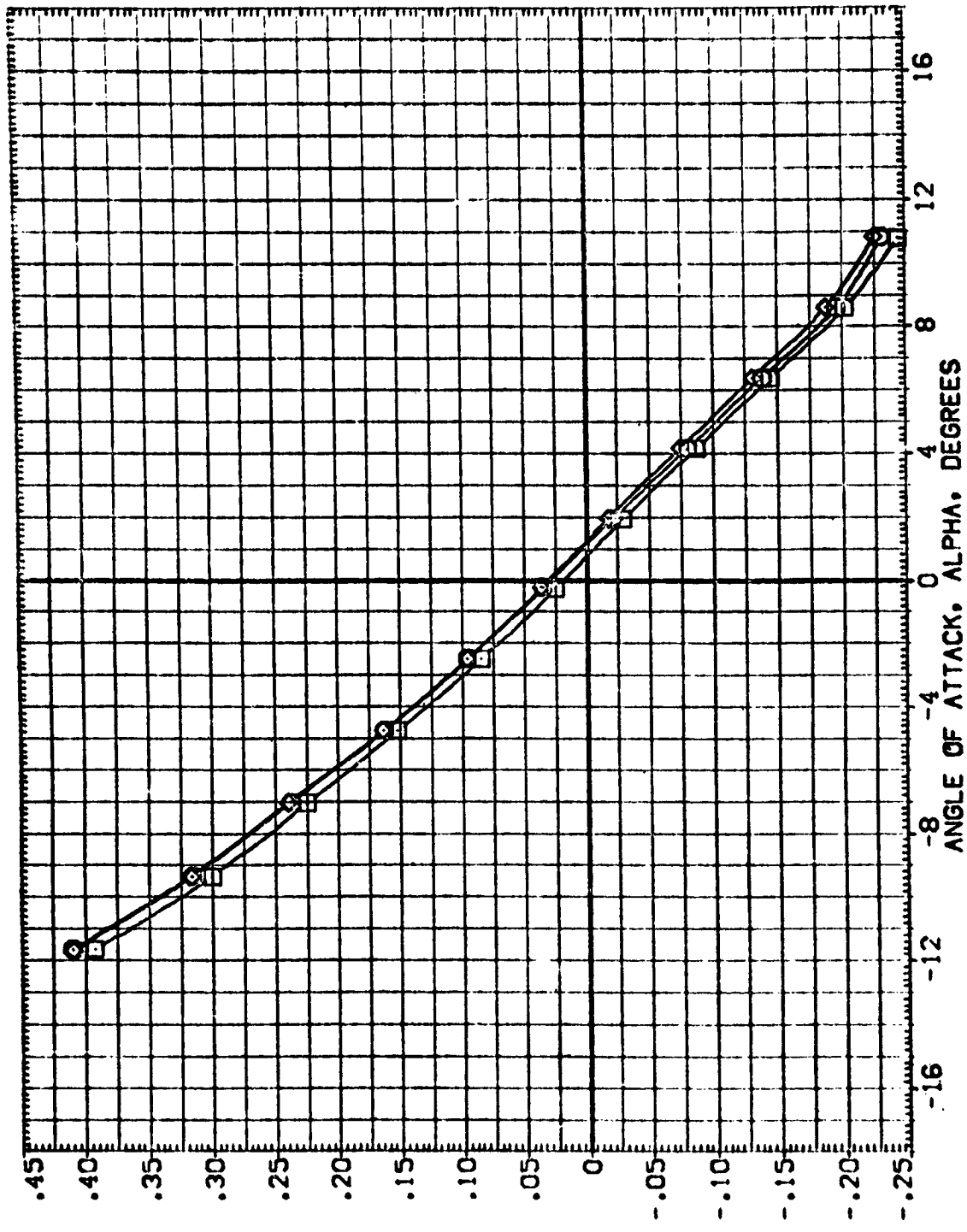
(F)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 (B-C001) ◊ LARC 8-TPT-693 (A13) CONFIGURATION 03/14/57  
 (B-C002) ◊ LARC 8-TPT-693 (A13) CONFIGURATION 02/14/58

ELV-LC ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2890.0000 SQ.FT.  
 LREF 1230.3000 L.C.F.S.  
 SREF 290.3000 L.C.F.S.  
 XPRP 576.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20

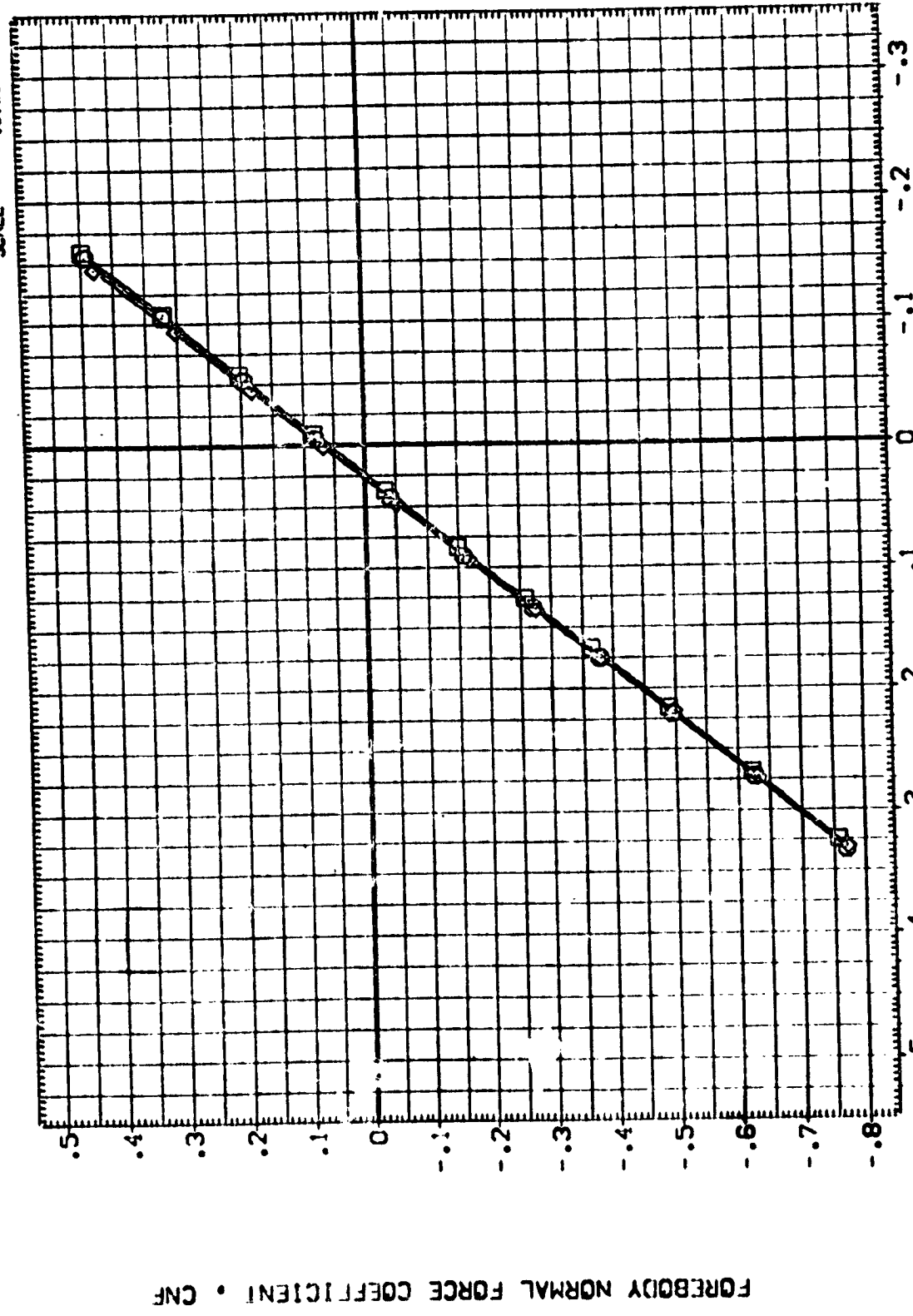


DATA SET SYMBOL: (B-C006) (B-C001) (B-C002)

CONFIGURATION DESCRIPTION:  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TP-693 (1A13) CONFIGURATION 03/14/57  
 LARC 8-TPT-692 (1A13) CONFIGURATION 02/14/58

REFERENCE INFORMATION:  
 SREF 2690.0000 SO.FT.  
 LREF 1290.3000 IN.-ES  
 XMRP 1290.3000 IN.-ES  
 YMRP 576.0000 IN. XT  
 ZMRP 400.0000 IN. ZT  
 SCALE 400.0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000



FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .60

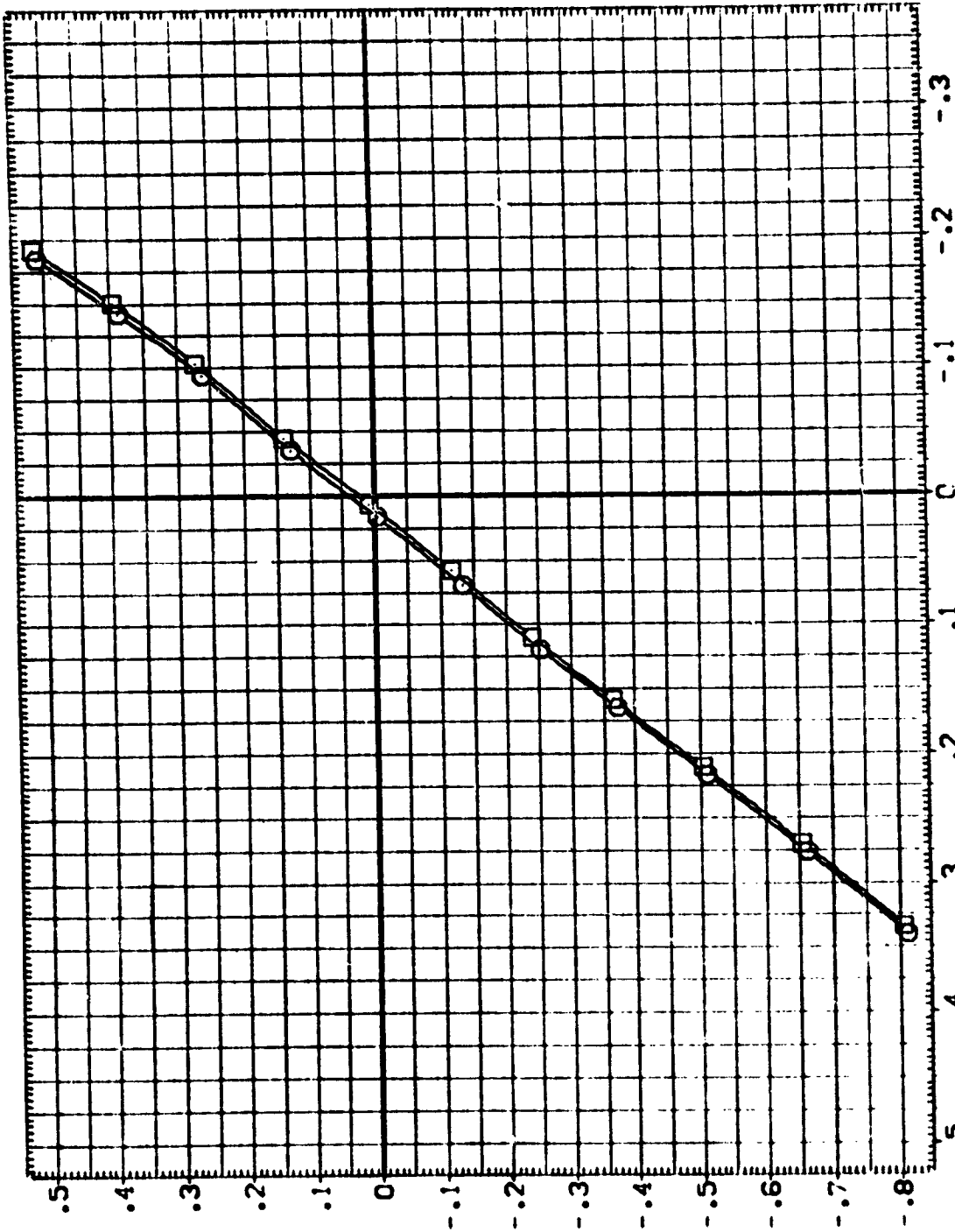
DATA SET SYMBOL: □ (B-C006) □ (B-C001) ◊ (B-C002)

CONFIGURATION DESCRIPTION:  
 LAIRC 8-TPT-693 (1A43) CONFIGURATION 02/14/57  
 LAIRC 8-TPT-693 (1A43) CONFIGURATION 03/14/57  
 DATA NOT AVAILABLE

ELV-LE ELV-RI ELV-RO  
 .000 .000 .000  
 .000 .000 .000  
 .000 .000 .000  
 .000 .000 .000

REFLECT INFORMATION:  
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 LREF 90.0000 IN.CES  
 BREF 290.0000 IN.CES  
 XMRP 976.0000 IN. AT  
 YMRP 400.0000 IN. AT  
 ZMRP 400.0000 IN. AT  
 SCALE .0100

FOREBODY NORMAL FORCE COEFFICIENT • CNF



FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .80



REFERENCE INFORMATION

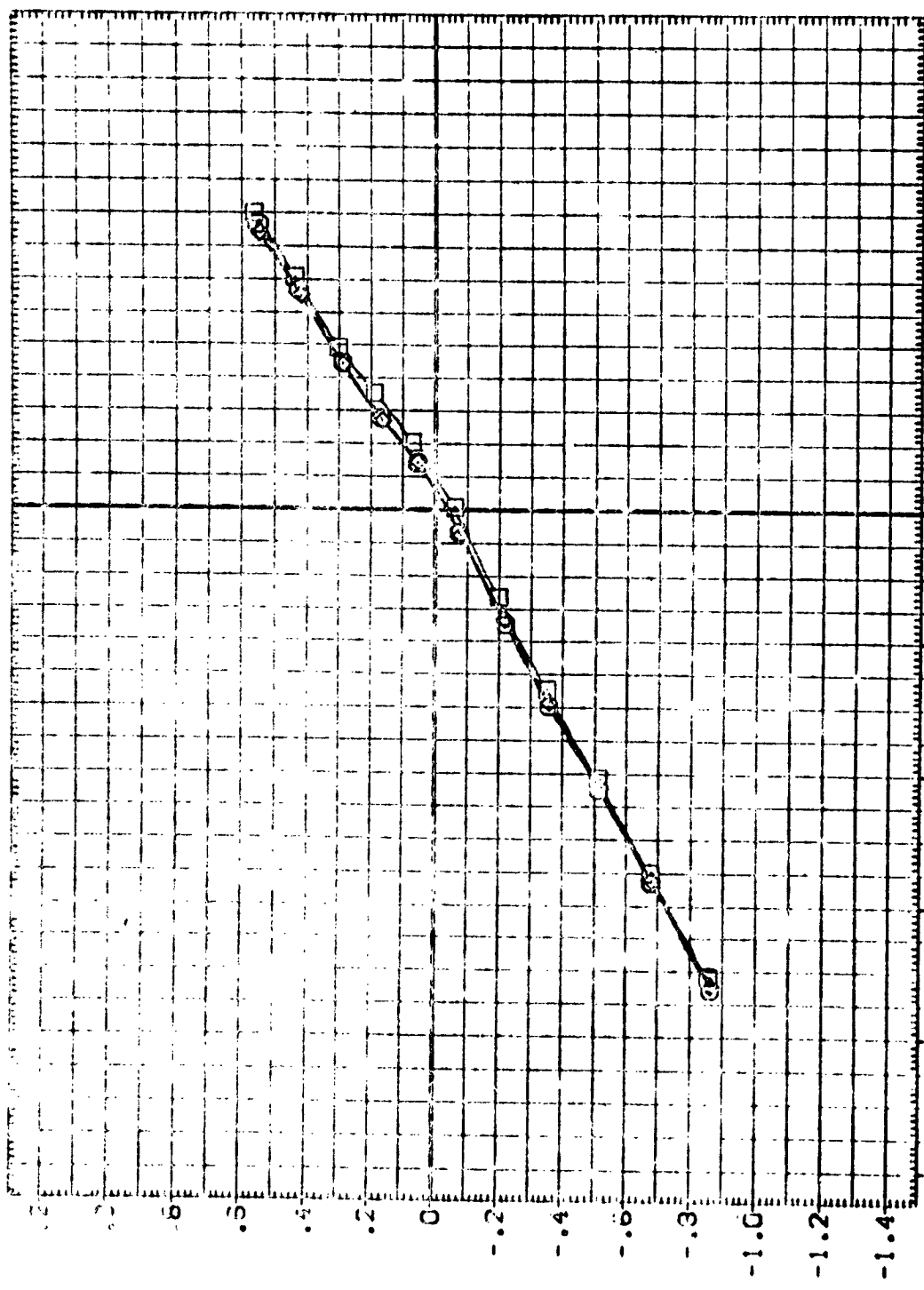
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AVRP	576.0000	IN. X
VMRP	100.0000	IN. Y
ZMRP	100.0000	IN. Z
SCALE	.3100	

ELV-R3	ELV-R1	ELV-L1	ELV-L3
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.500	.000

92 74.97	92 74.97
92 74.97	92 74.97
92 74.97	92 74.97

DESCRIPTION

1	2	3	4	5
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000



FOREBODY NORMAL FORCE COEFFICIENT CLNF

FOREBODY PITCHING MOMENT COEFFICIENT CLMF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = .90

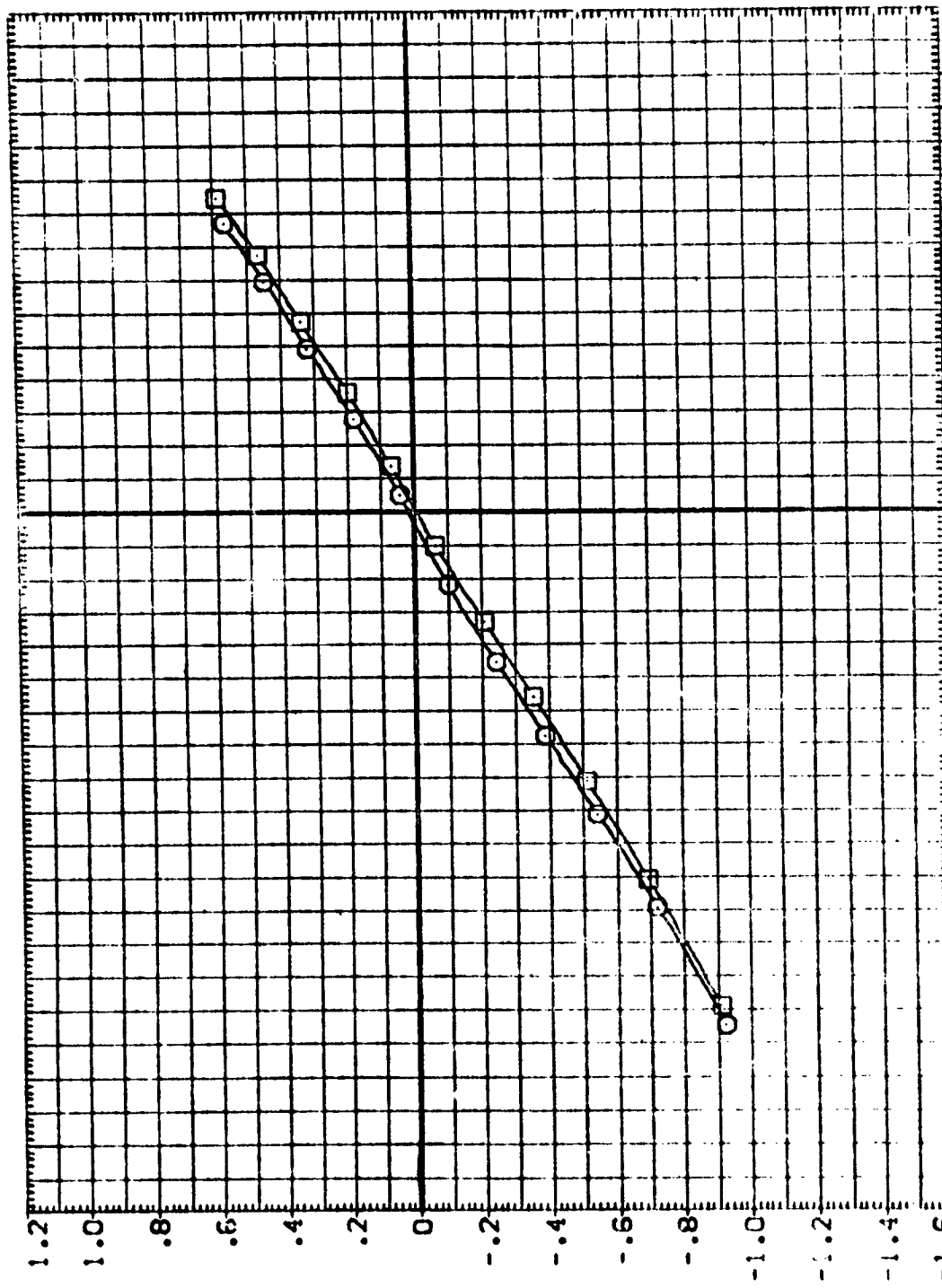
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DATA SET SYMBOL: [B-C005] [B-C001] [B-C002]

CONFIGURATION DESCRIPTION:  
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 LARC 8-TPT-693 (1A43) CONFIGURATION 03/14/57  
 DATA NOT AVAILABLE

REFERENCE INFORMATION:  
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 BREF 1000.0000 INCHES  
 XMRP 976.0000 IN. X1  
 YMRP 400.0000 IN. Y1  
 ZMRP 400.0000 IN. Z1  
 SCALE .0100

ELV-LO .000  
 ELV-LI .000  
 ELV-R1 .000  
 ELV-R2 .000  
 ELV-R3 .000



FOREBODY NORMAL FORCE COEFFICIENT, CNF

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

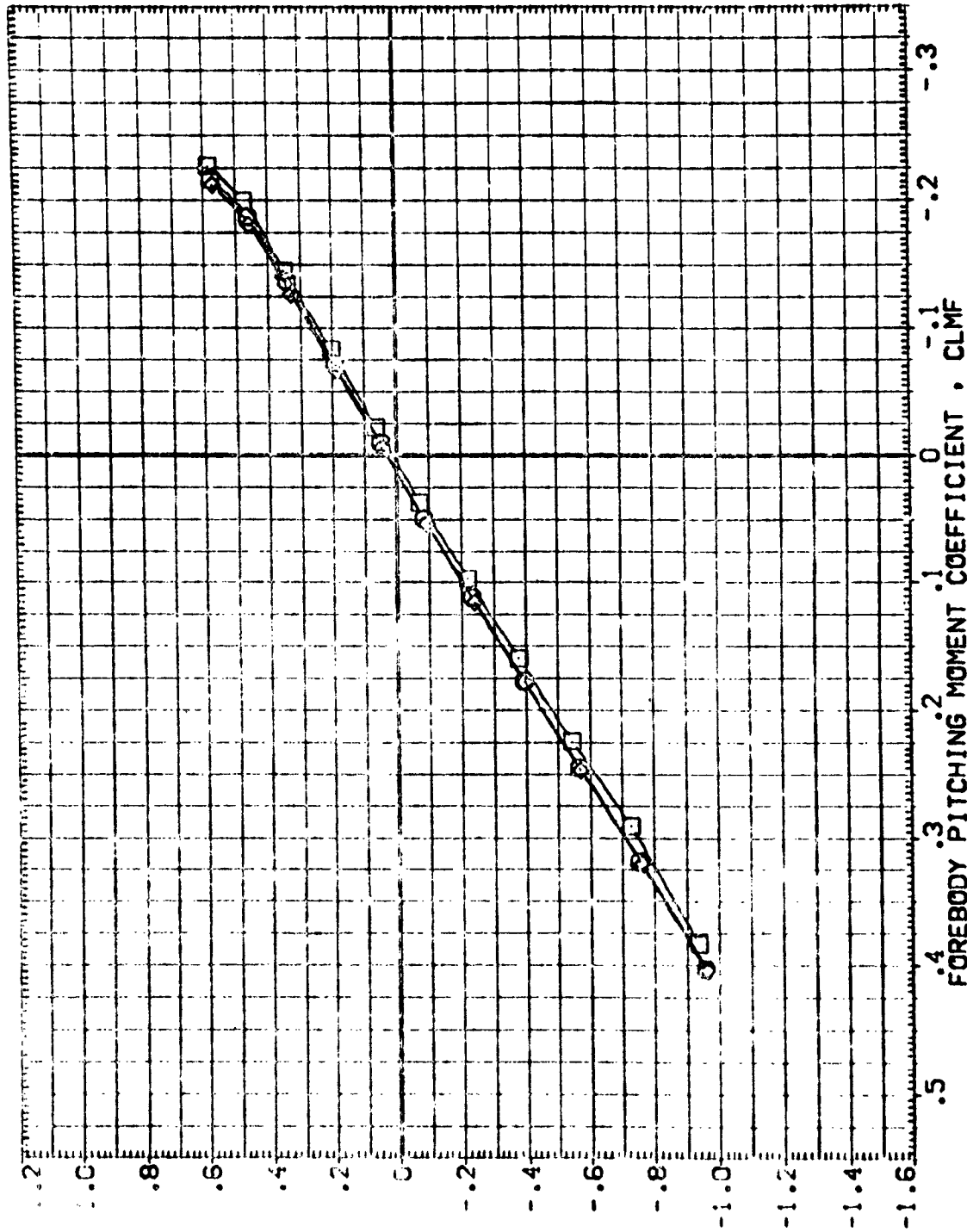
OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS



REFERENCE INFORMATION  
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 IN. XT 976.0000  
 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100

ELV-L0 .000  
 ELV-L1 .000  
 ELV-LI .000  
 ELV-RI .000  
 ELV-R0 .000

DATA DESCRIPTION  
 8-1-63 11-11-63 11-11-63 11-11-63  
 8-1-63 11-11-63 11-11-63 11-11-63  
 8-1-63 11-11-63 11-11-63 11-11-63



FOREBODY NORMAL FORCE COEFFICIENT • Cn

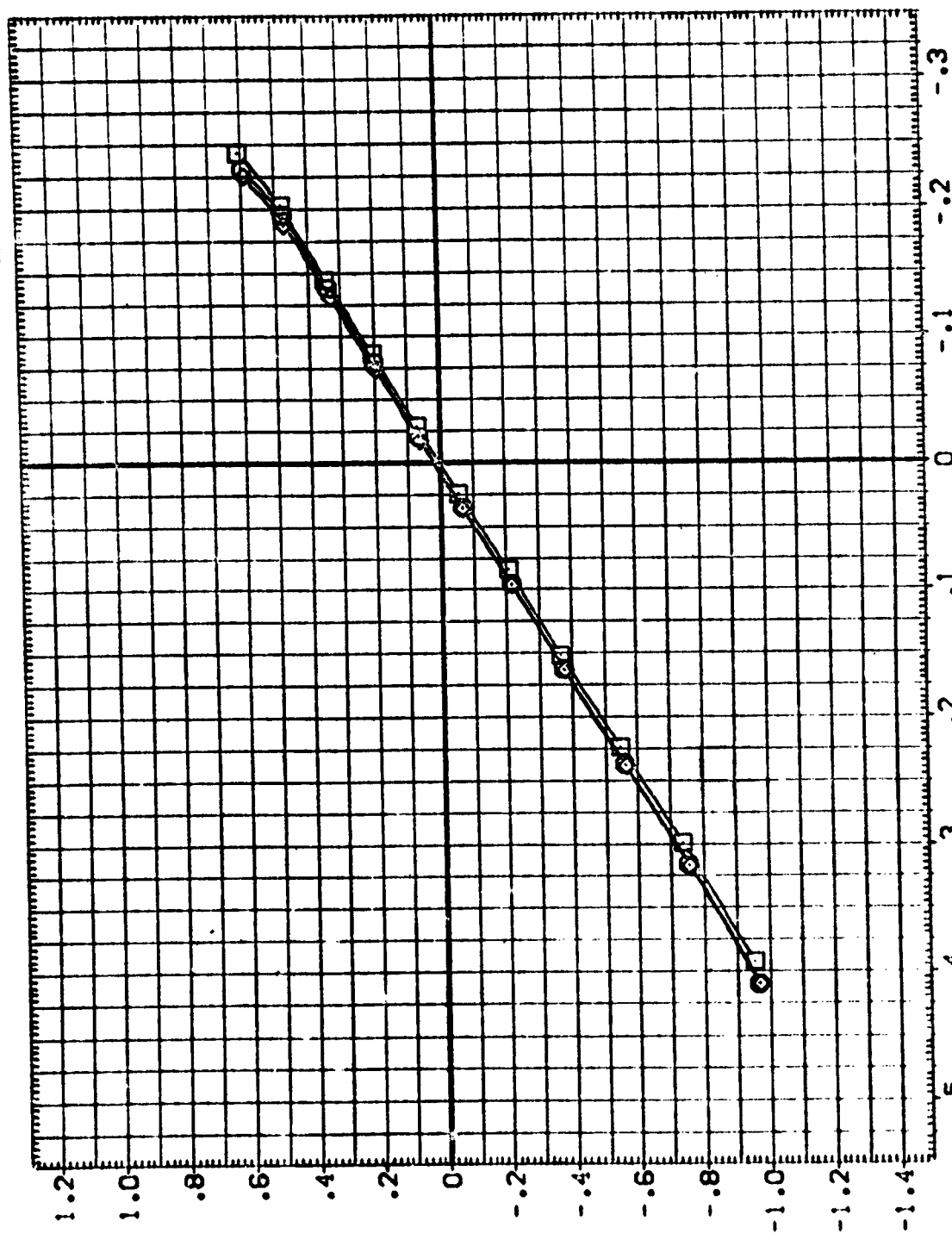
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OF FOUR QUALITY

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION  
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 BREF 1250.3000  
 XTRP 576.0000  
 YTRP .0000  
 ZTRP 400.0000  
 SCALE .0100

ELV-LB ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (B-C006) LARC 8-TPT-693 (1A13) CONF [GURAT] ON 02/14/57  
 (B-C001) LARC 8-TPT-693 (1A13) CONF [GURAT] ON 03/14/57  
 (B-C002) LARC 8-TPT-693 (1A13) CONF [GURAT] ON 02/14/58



FOREBODY NORMAL FORCE COEFFICIENT • CNF

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF

OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(F)MACH = 1.20

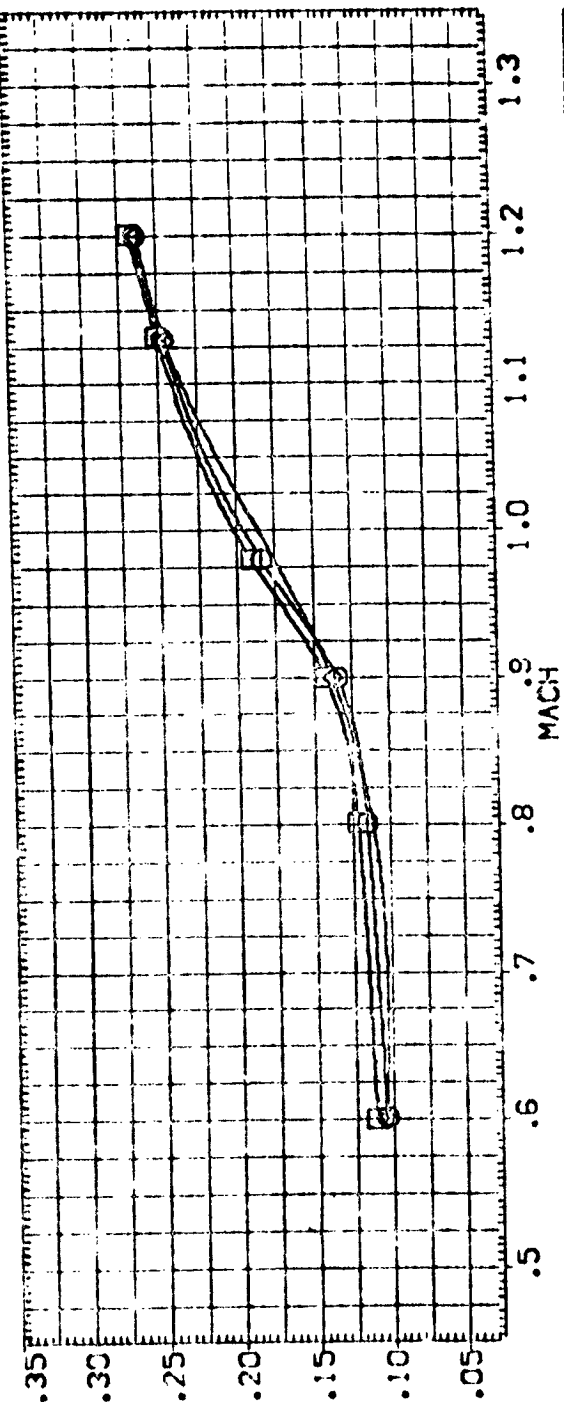


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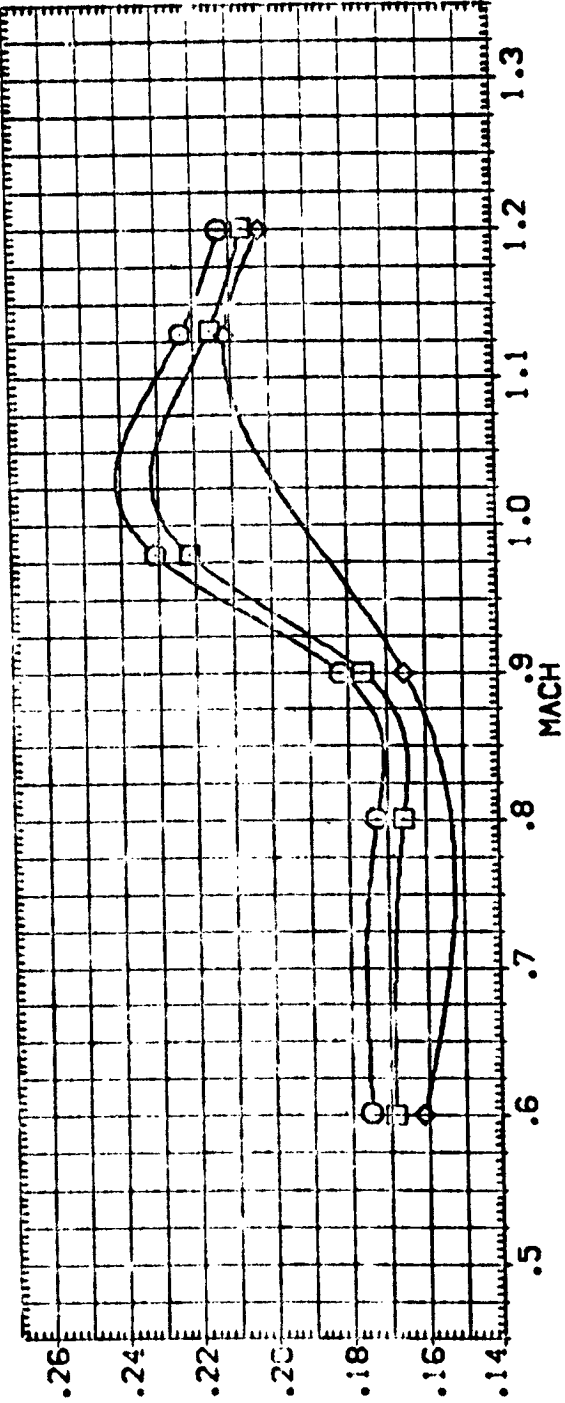
ELEVATION INFORMATION  
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 ELEV-LI .000  
 ELEV-LO .000

CONFIGURATION DESCRIPTION  
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 9-T1-893 (143) CO-16URAT (B) 02/14/57  
 9-T1-893 (143) CO-16URAT (C) 02/14/58

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 0.25  
 0.20  
 0.15  
 0.10  
 0.05



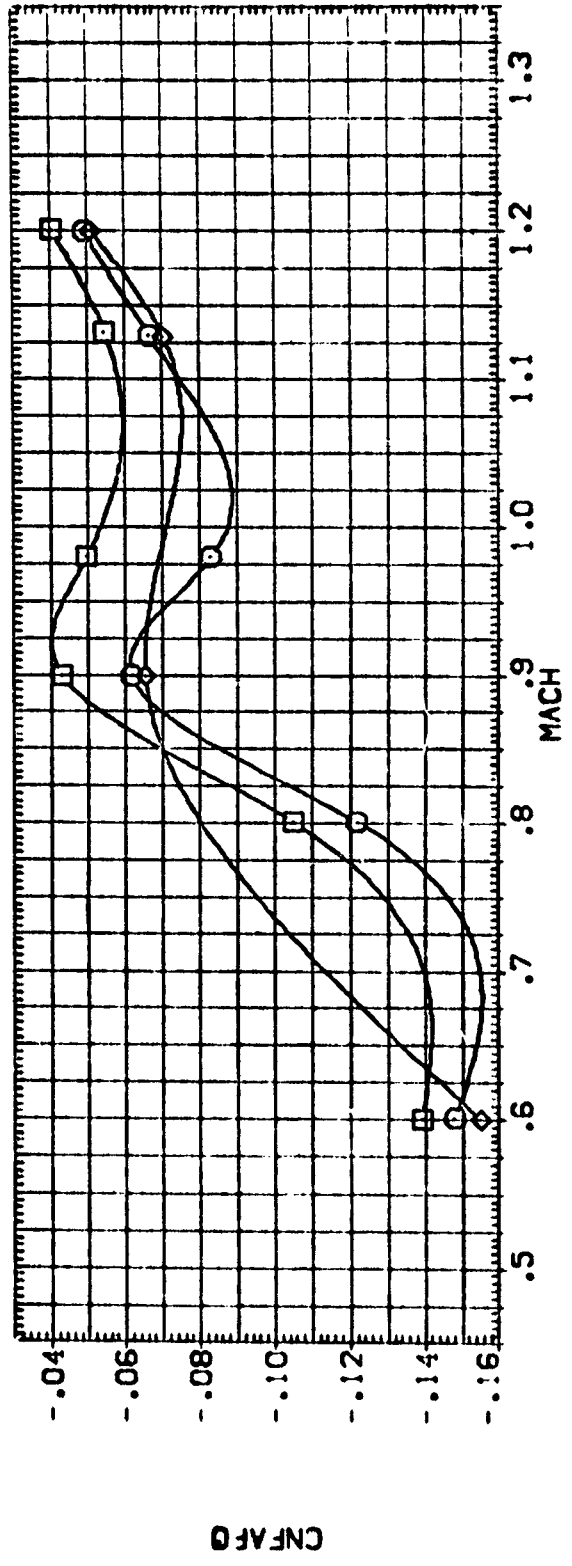
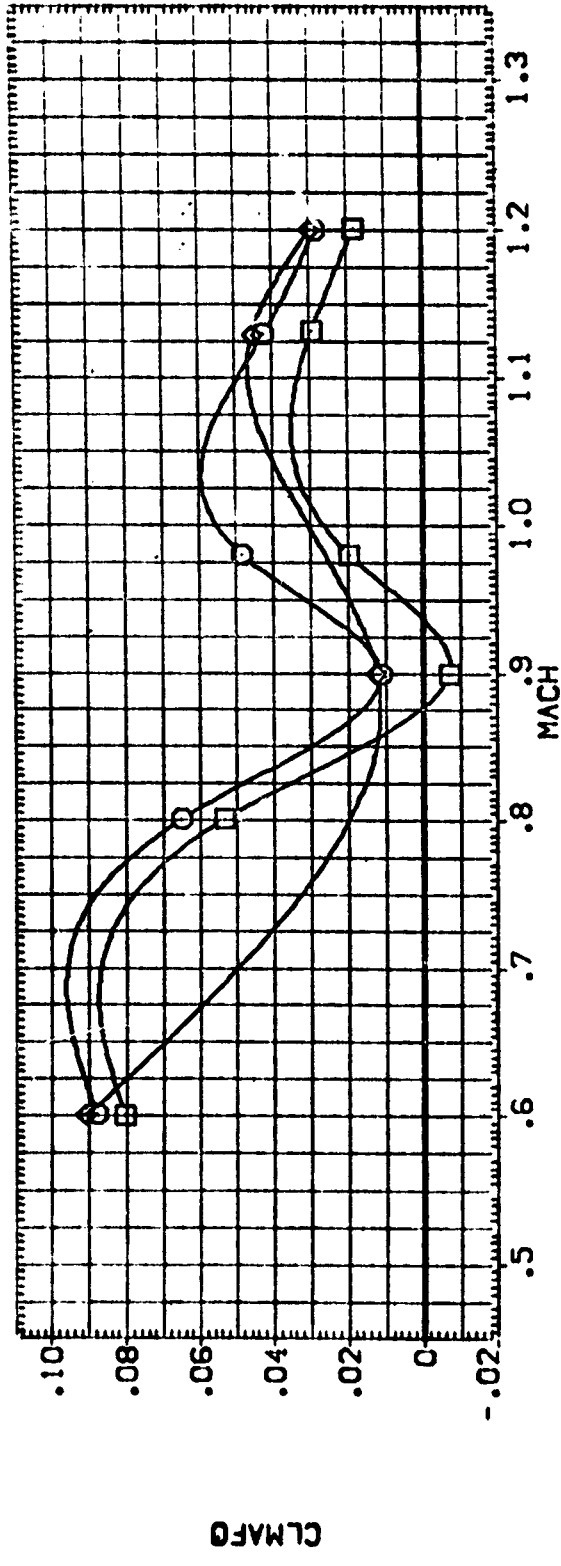
CAL AFD



CARAFD

DATA SET SYMBOL: □ ○  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A13) CONFIGURATION 02/74/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 03/74/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/74/56

REFERENCE INFORMATION:  
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OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

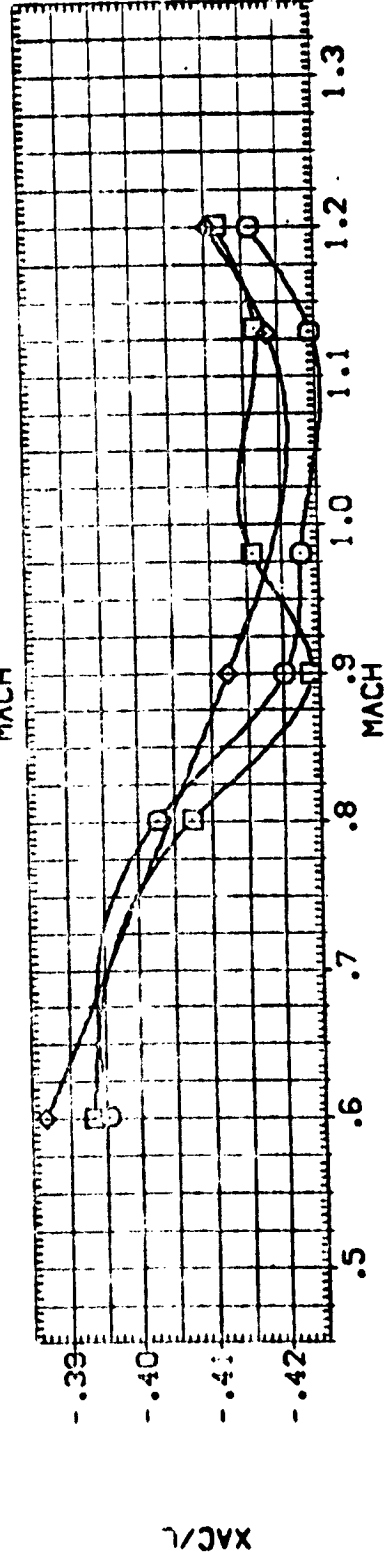
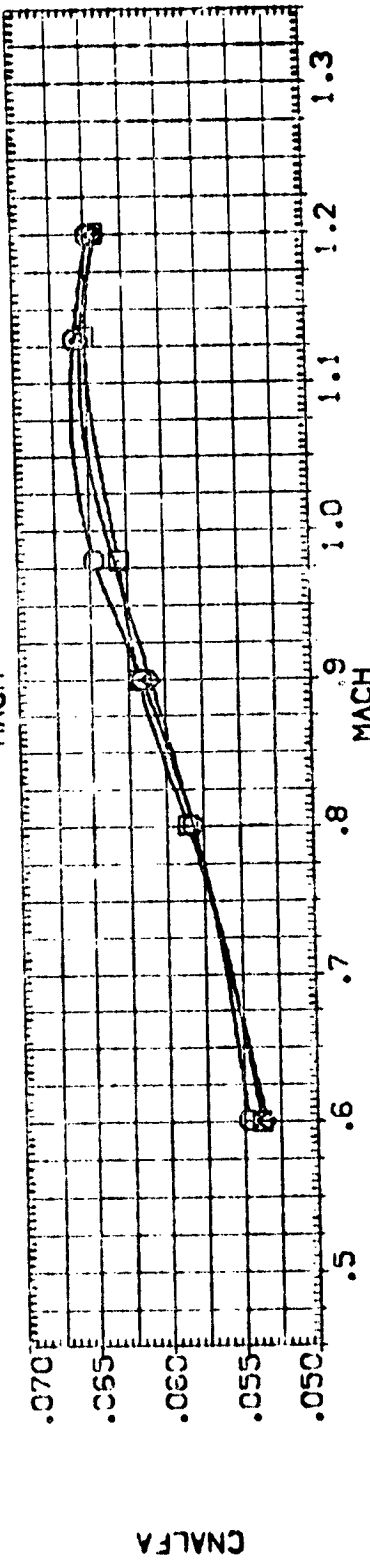
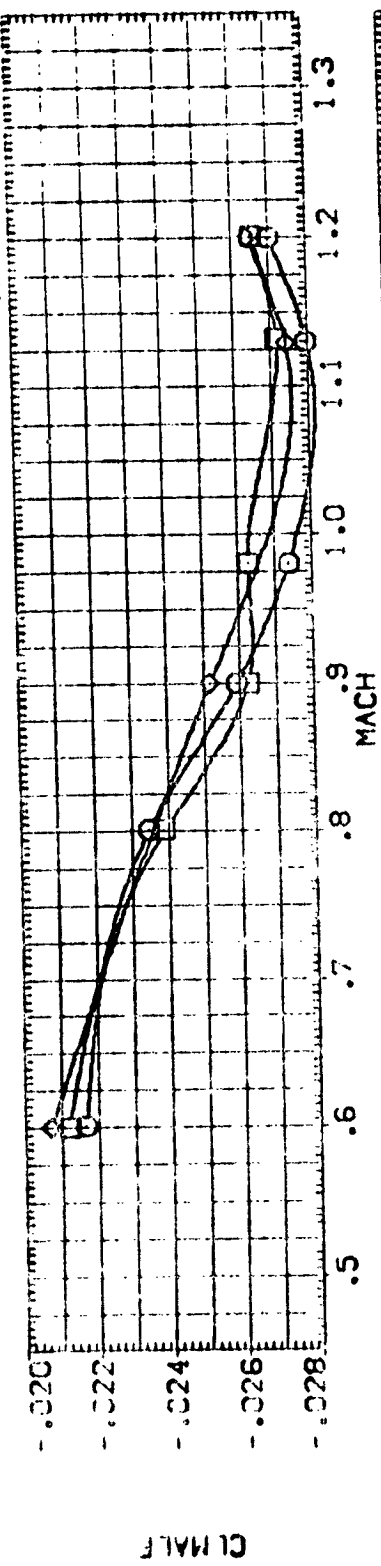


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 IN. Y 976.0000  
 IN. Z 400.0000  
 ZMRP .0100  
 SCALE

ELV-LD .000  
 ELV-LI .000  
 ELV-RI .000  
 ELV-RO .000

02/14/57  
 23/14/57  
 22/14/58

CONFIGURATION DESCRIPTION  
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 CASE 8-TST-883 (A43)  
 CASE 8-TST-883 (A43)



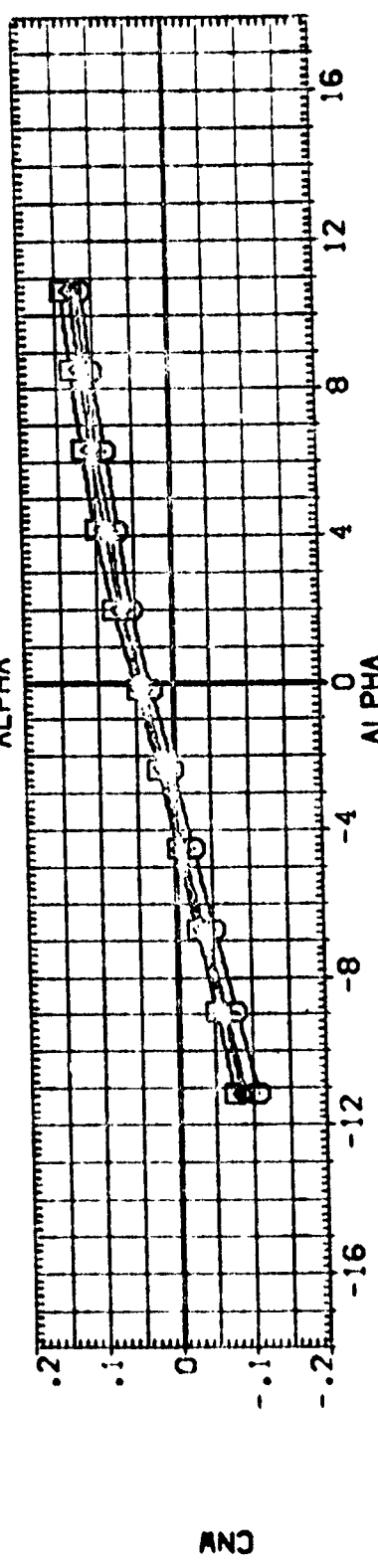
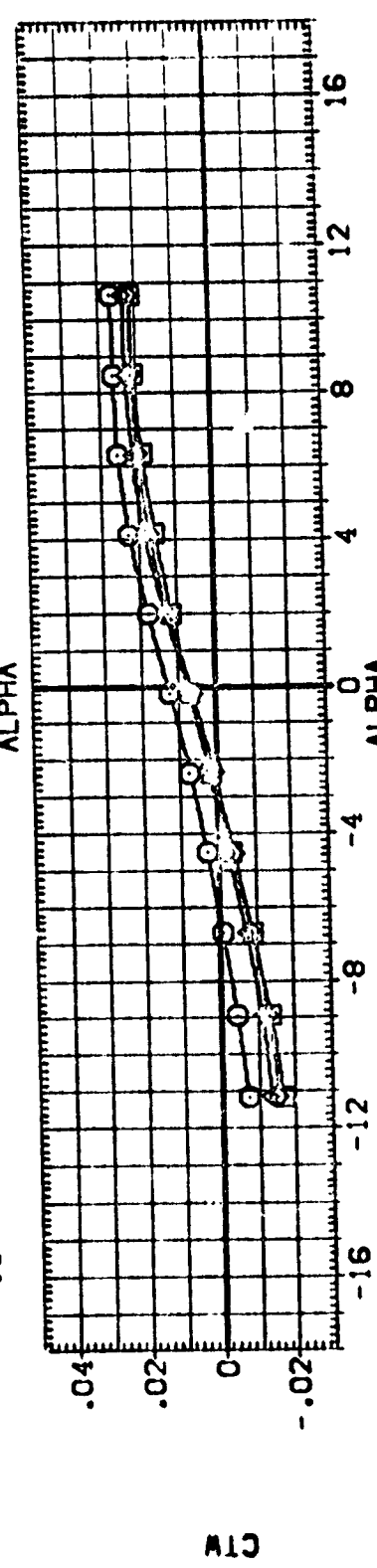
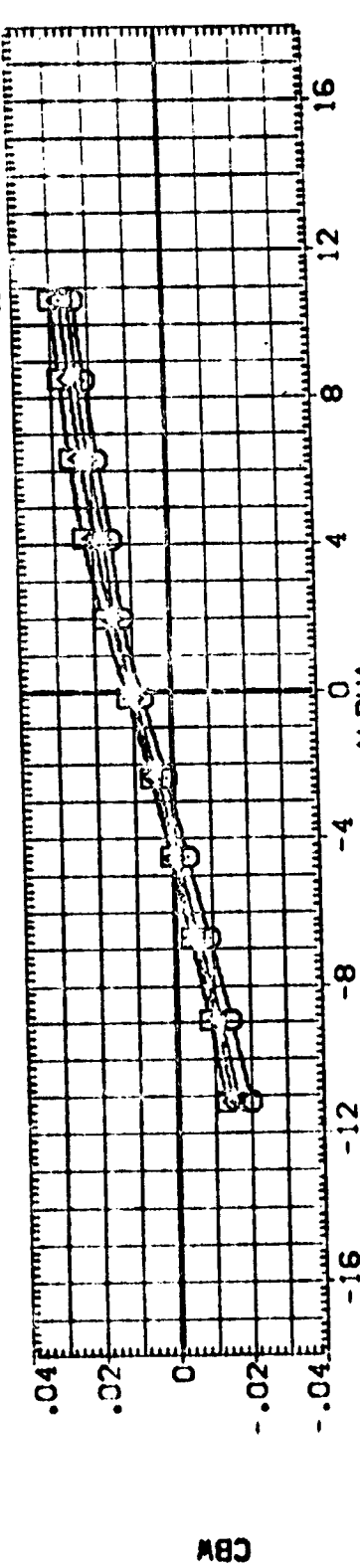
ORIGINAL PAGE IS  
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REFERENCE INFORMATION  
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ELV-LC ELV-LI ELV-RI ELV-RD  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 [A43] CONF:IGRATION 02/14/57  
 LARC 8-TPT-693 [A43] CONF:IGRATION 02/14/57  
 LARC 8-TPT-693 [A43] CONF:IGRATION 02/14/57  
 LARC 8-TPT-693 [A43] CONF:IGRATION 02/14/57

DATA SET SYMBOL  
 P-C-06  
 P-C-13  
 P-C-14  
 P-C-15



EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 4 DEGREES

(A)MACH = .90

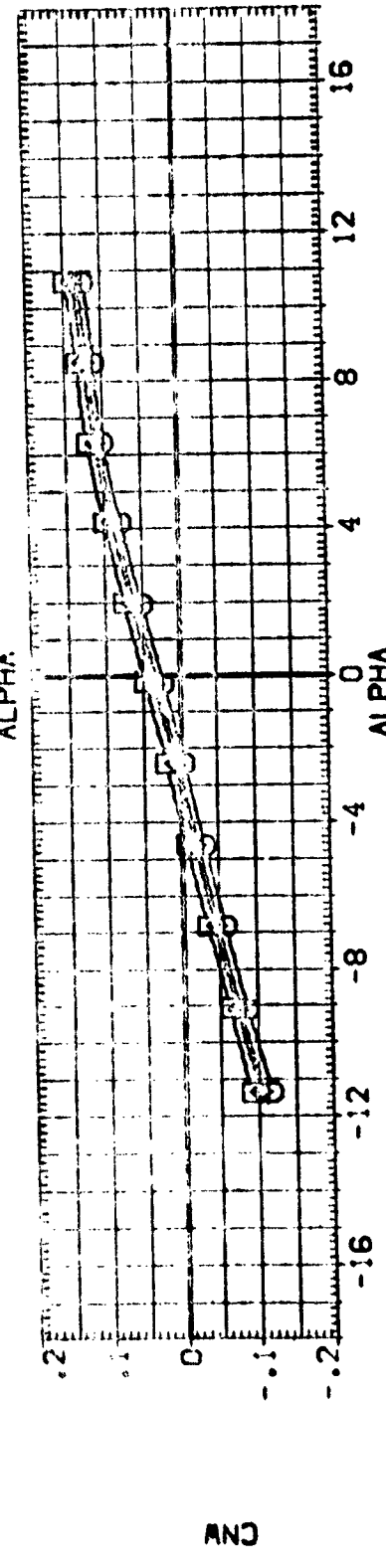
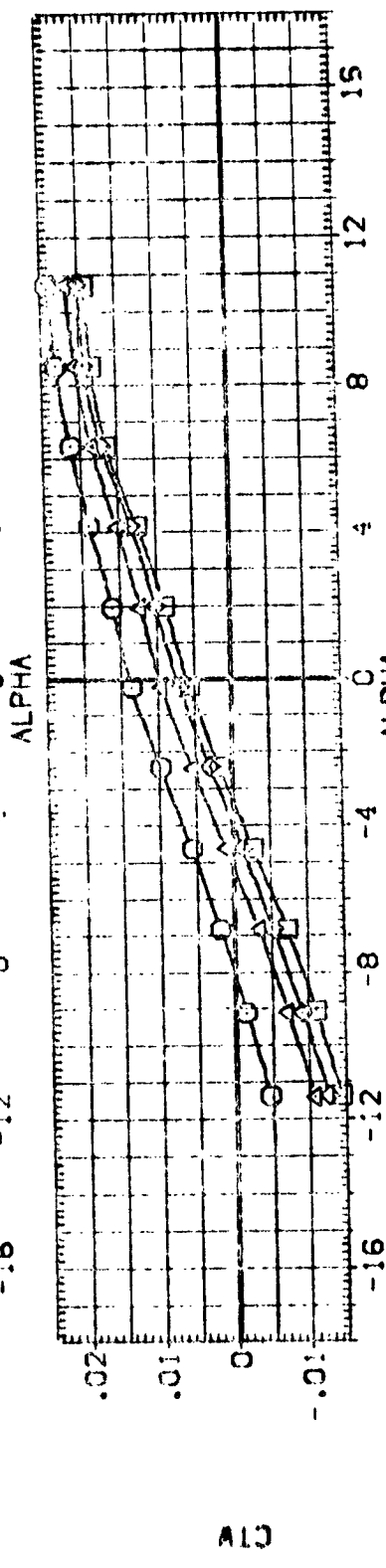
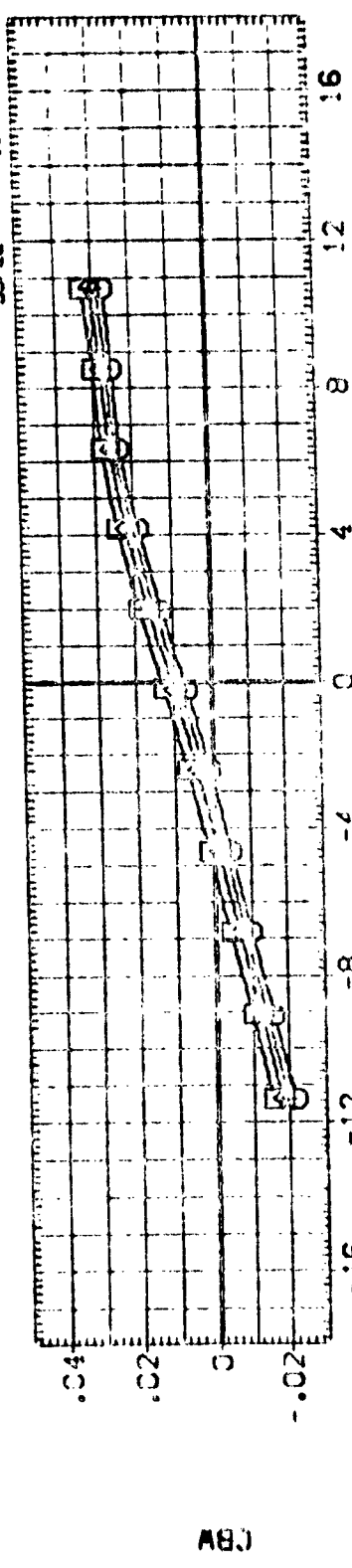


DATA SET SYMBOL  
 (P. 0005)  
 (P. 0006)  
 (P. 0007)  
 (P. 0008)

CONFIGURATION DESCRIPTION  
 LABE 8-101-693 (1A13) COF (SUR) 10N  
 LABE 8-101-693 (1A13) COF (SUR) 10N  
 LABE 8-101-693 (1A13) COF (SUR) 10N  
 LABE 8-101-693 (1A13) COF (SUR) 10N

ELV-L6 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 8.000 4.000 4.000 8.000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000

REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 1250.3000 IN.-ES  
 BREF 1250.3000 IN.-ES  
 XREF 976.0000 IN. X  
 YREF 400.0000 IN. Y  
 ZREF 400.0000 IN. Z  
 SCALE .0100

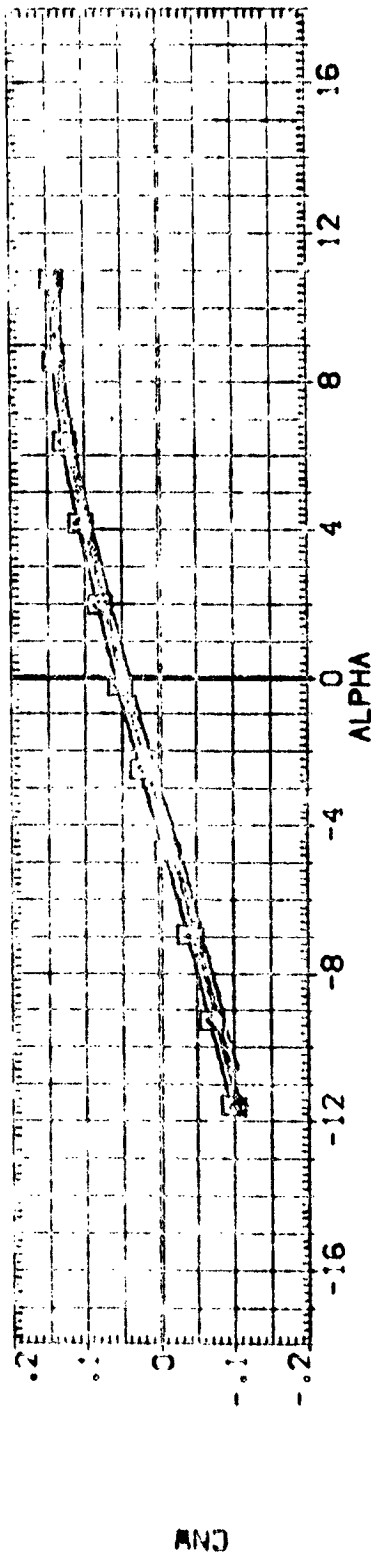
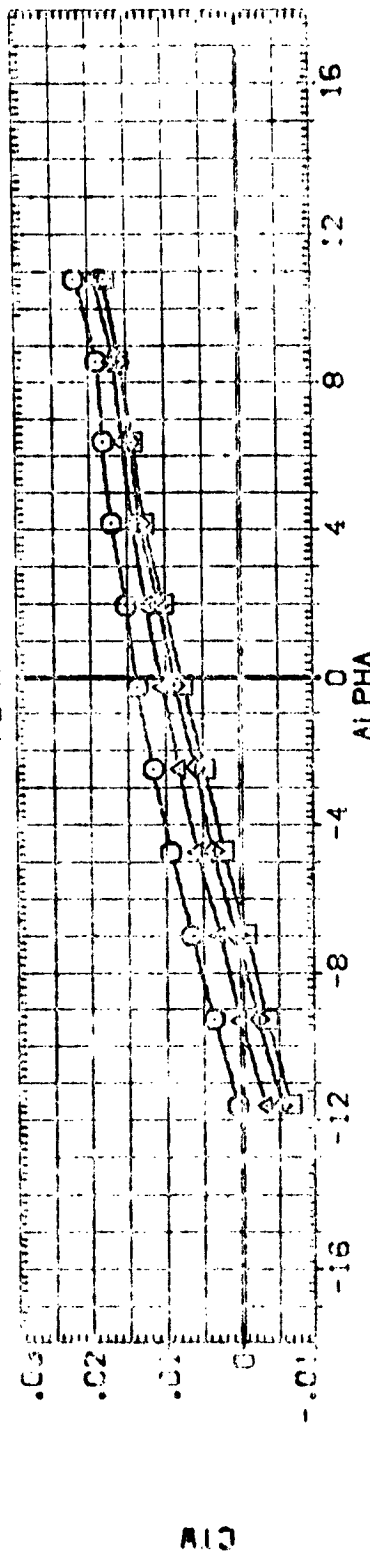
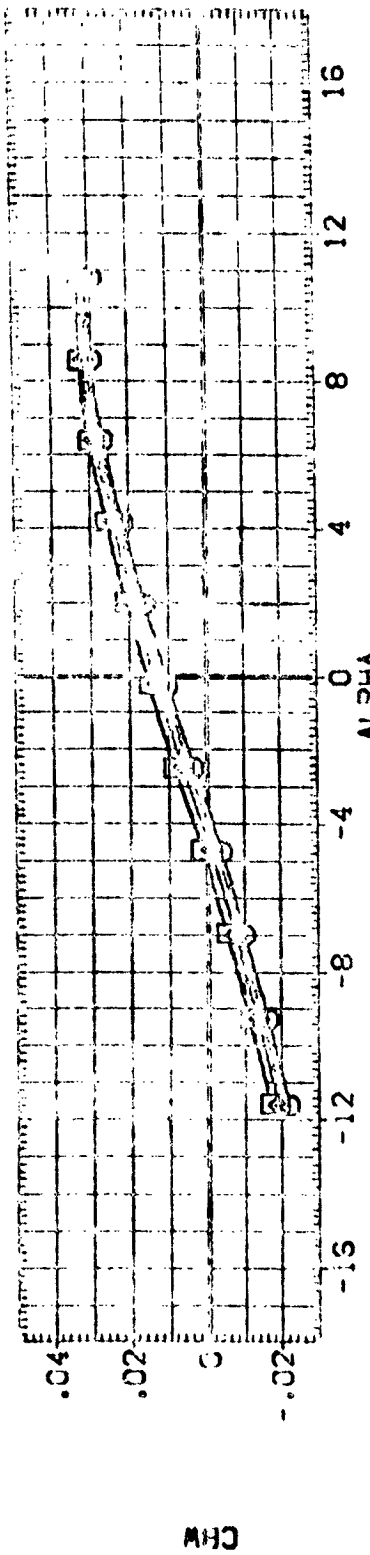


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EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 4 DEGREES

(B)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 [R-008] O 8-TPT-833 (1A3) CDF IGRATION 5/14/57  
 [R-013] O 8-TPT-833 (1A3) CDF IGRATION 5/14/57  
 [R-014] O 8-TPT-833 (1A4)



EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 4 DEGREES



DATA SET 51-80L  
 51-806  
 51-807  
 51-808  
 51-809

CONFIGURATION DESCRIPTION  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57

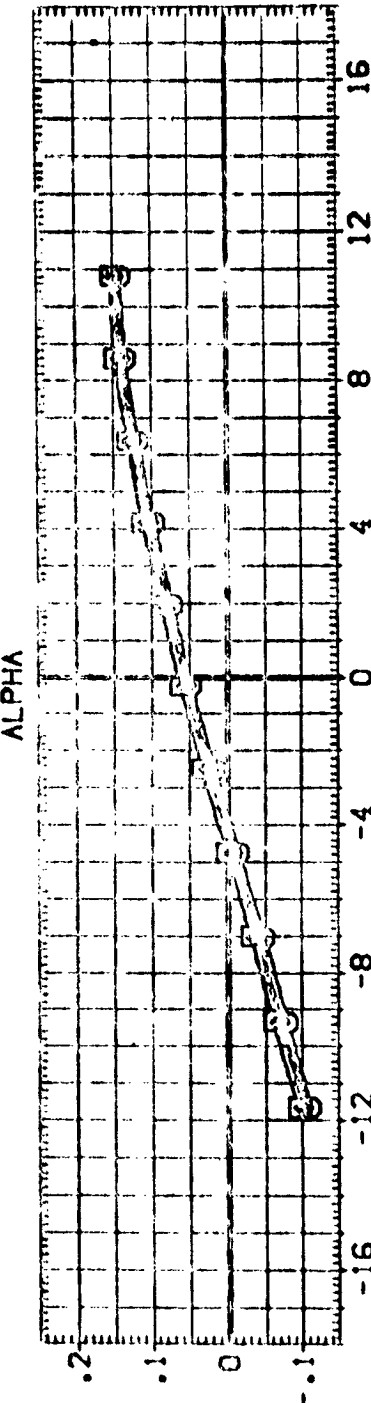
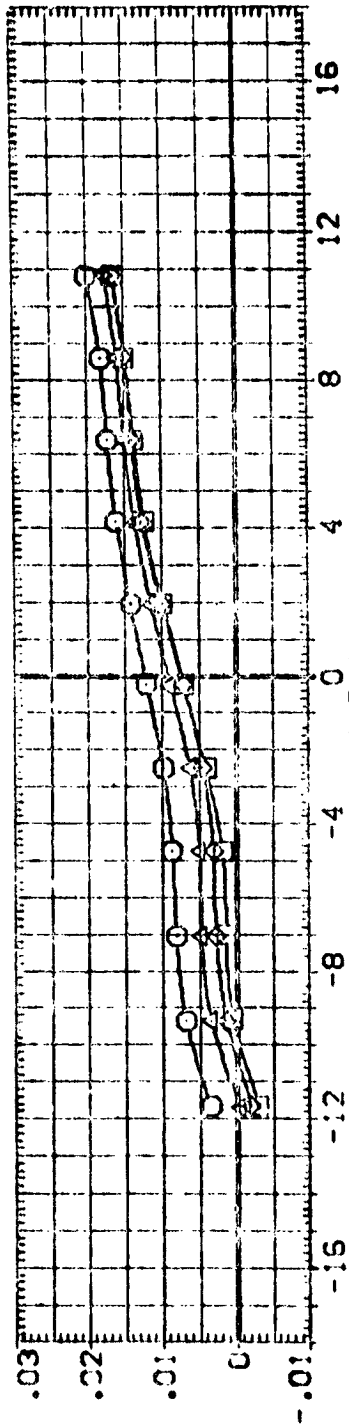
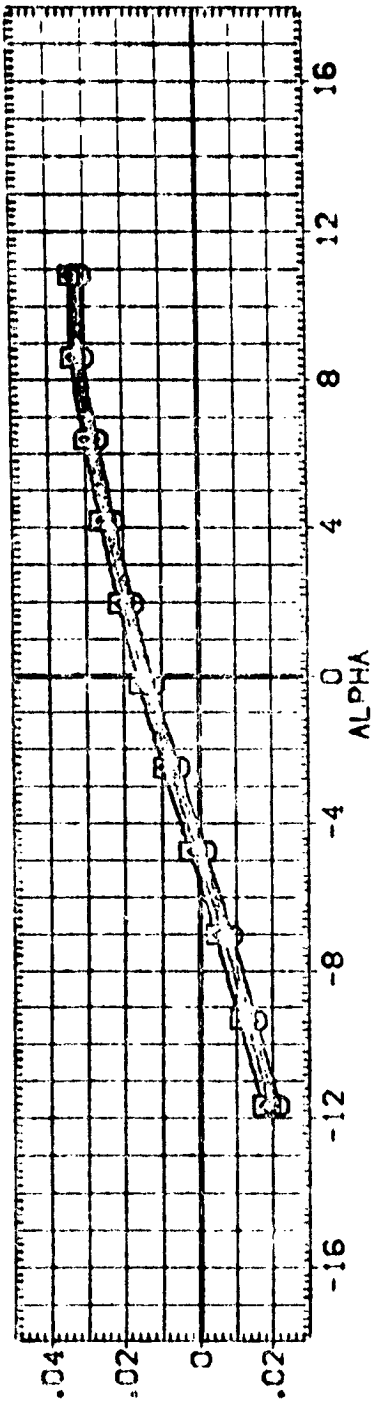
ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 0.000 4.000 4.000 0.000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000

02/14/57  
 02/14/57  
 02/14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57  
 LARC 8-T2-853 (1A3) CONFIGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 .000 .000 .000  
 0.000 4.000 4.000 0.000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000

REFERENCE INFORMATION  
 SIZE 2650.0000 SO.FT.  
 LIFE 1250.3000 INCHES  
 BREF 1250.3000 INCHES  
 XMRP 976.0000 IN. AT  
 YMRP 400.0000 IN. AT  
 ZMRP 400.0000 IN. AT  
 SCALE .0100



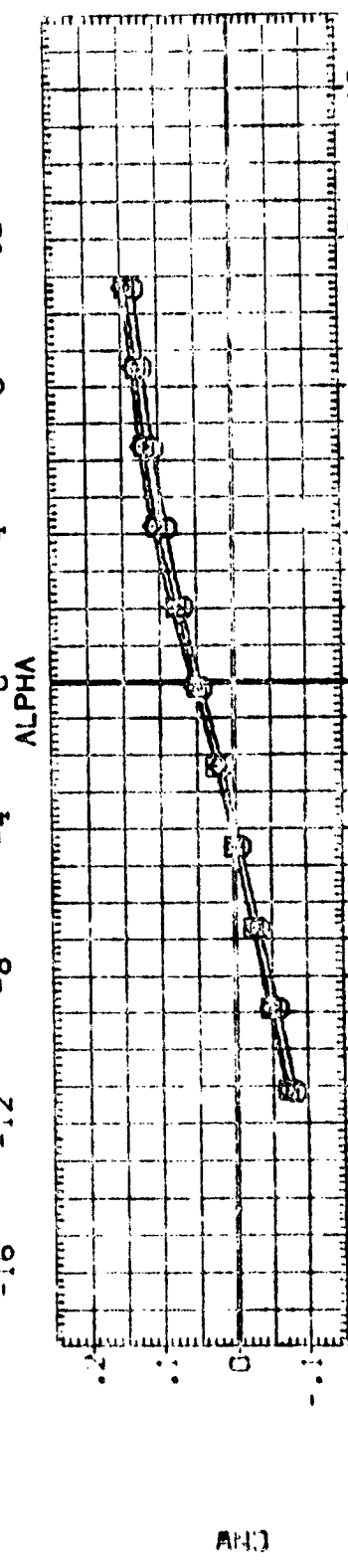
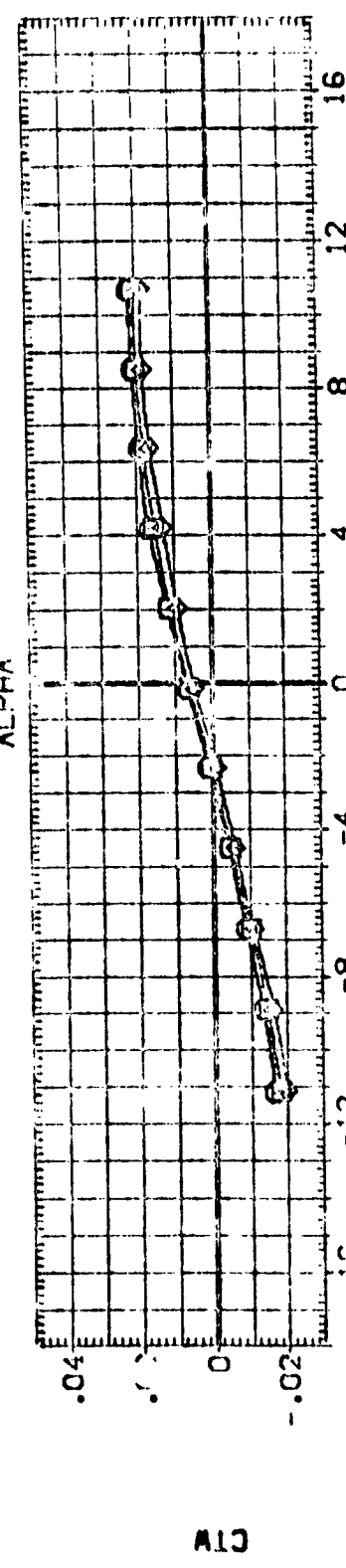
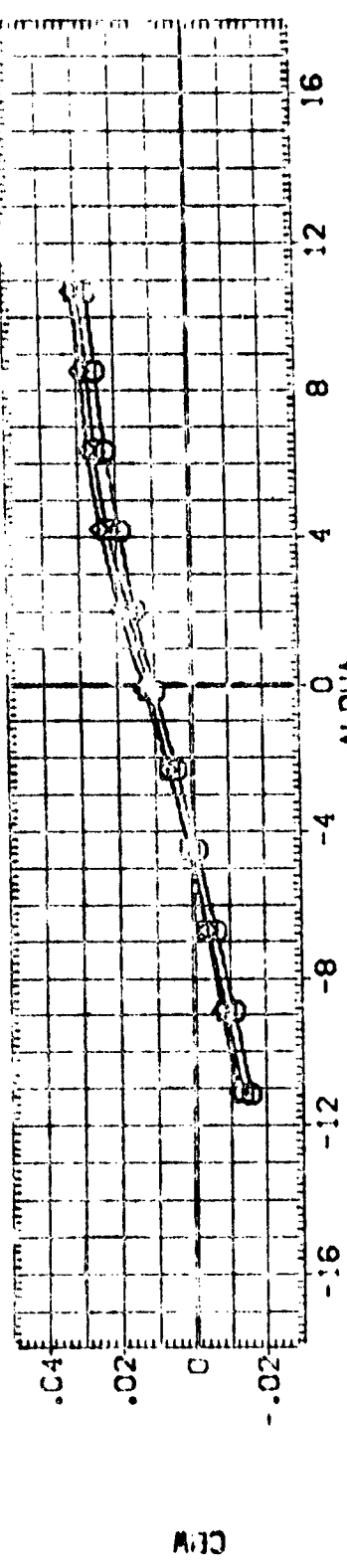
EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 4 DEGREES

CDMACH = 1.20

DATA SET SYMBOL: C10  
 (R-C-10)  
 (R-C-11)  
 (R-C-12)

COEFFICIENT: DESCRIPTION  
 LARC 8-PT-830 (1A3) COEFFICIENT  
 LARC 8-PT-830 (1A3) COEFFICIENT  
 LARC 8-PT-830 (1A3) COEFFICIENT

REFERENCE: ELEV-R1 ELEV-R2  
 DATE: 02/14/57  
 TIME: 02/14/57  
 USER: 02/14/57  
 XREF: 02/14/57  
 YREF: 02/14/57  
 ZREF: 02/14/57  
 SCALE: 100.0000  
 100.0000  
 100.0000



EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 8 DEGREES

(A)MACH = .90

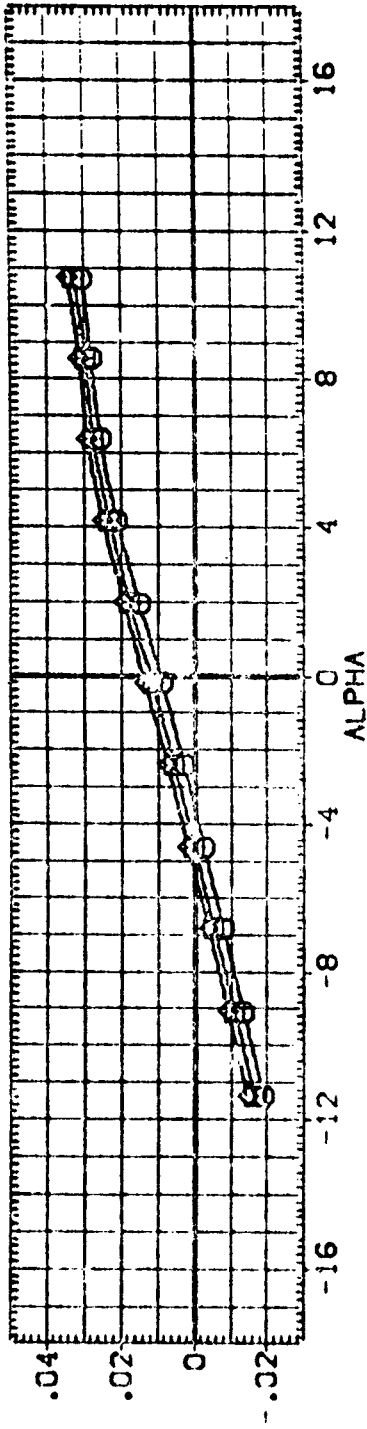




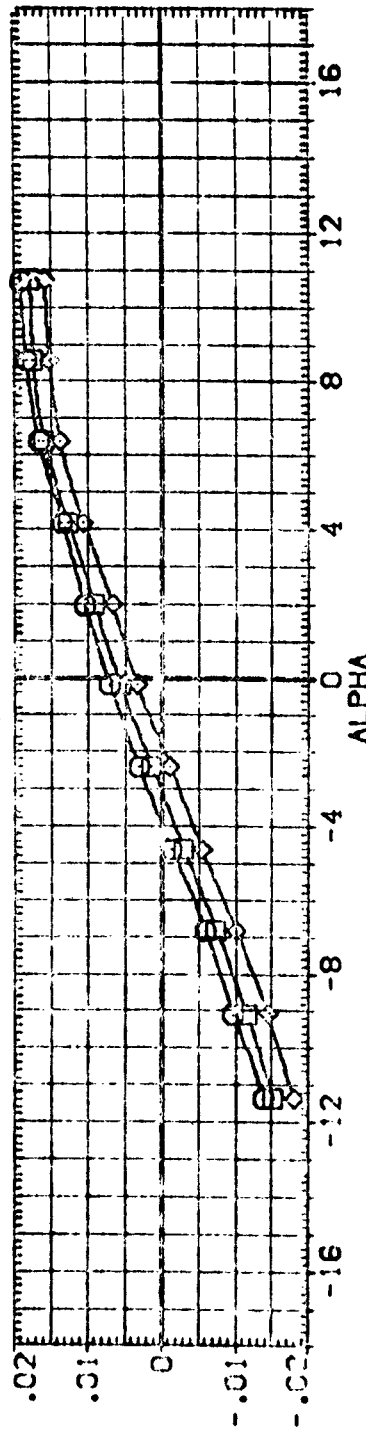
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (R-CM10) LARC 8-TPT-593 (A43) CONFIGURATION 02/14/57  
 (R-CM11) LARC 8-TPT-593 (A43) CONFIGURATION 02/14/57  
 (R-CM12) LARC 8-TPT-593 (A43) CONFIGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 8.000 8.000 .000  
 4.000 8.000 4.000 8.000  
 8.000 8.000 8.000 8.000

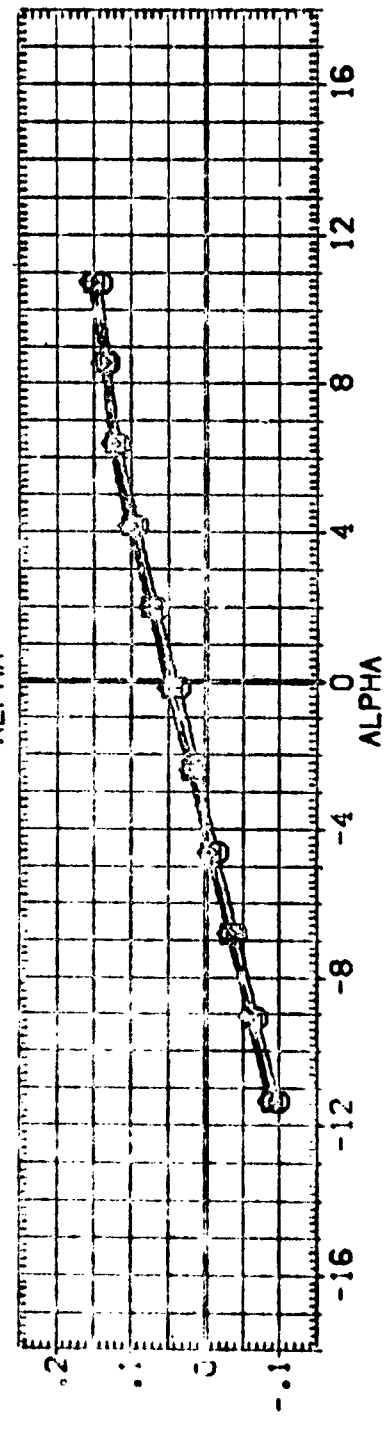
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 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XTRP 976.0000 IN. XT  
 YTRP 400.0000 IN. YT  
 ZTRP 400.0000 IN. ZT  
 SCALE .0100



CM



CM

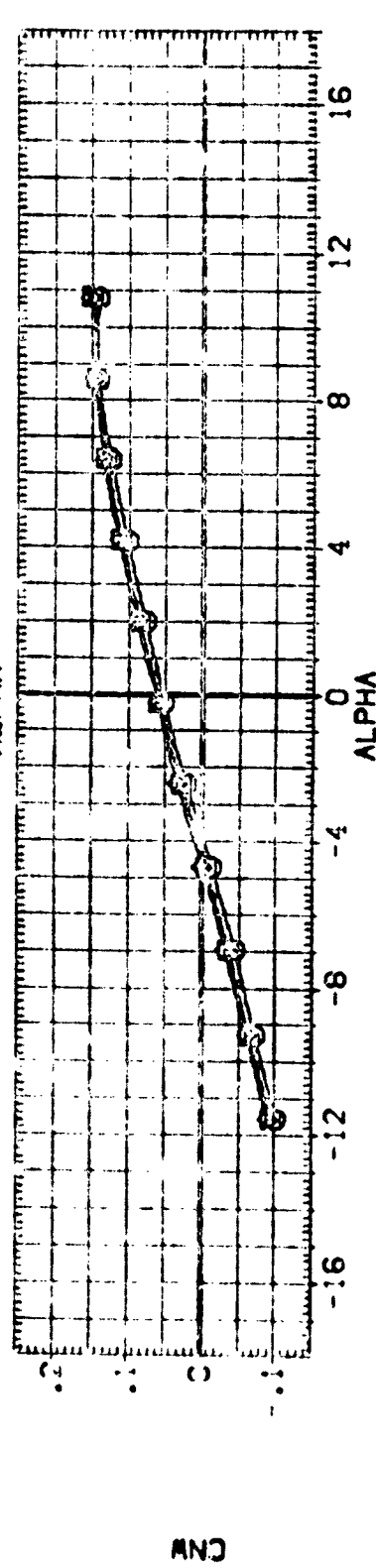
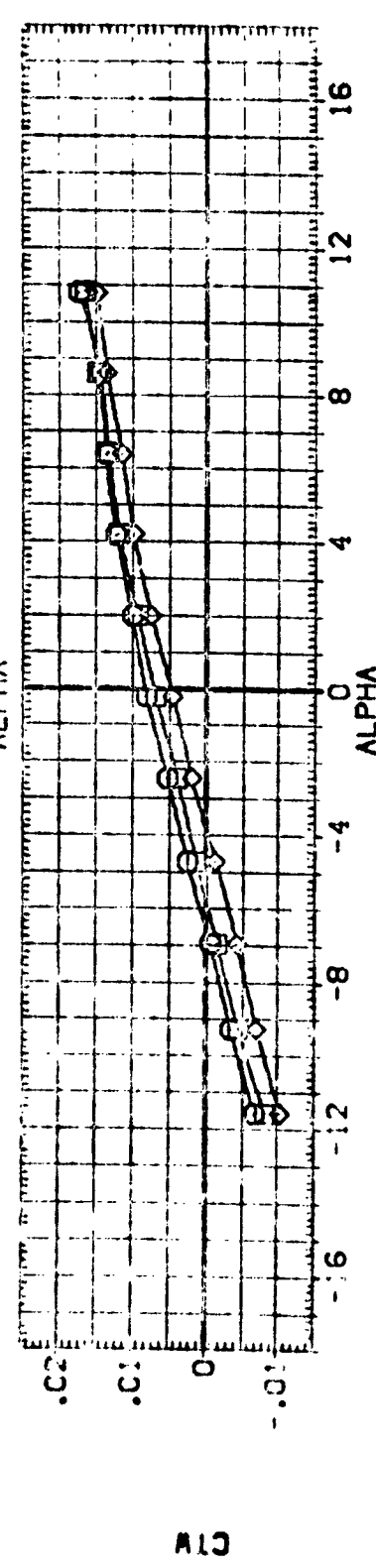
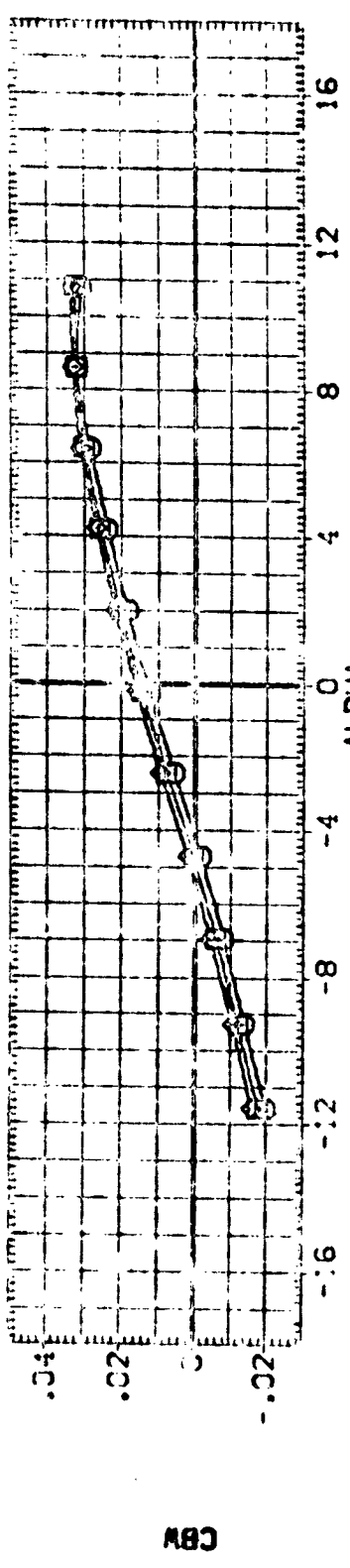


CM

EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 8 DEGREES

(B)MACH = .98

DATA SET SYMBOL    CONFIGURATION    DESCRIPTION    REFERENCE    ELEVATION    ELEV-RG    ELEV-SI    ELEV-LI    ELEV-LO    ELEV-HI    ELEV-HO    SQ.FT.    INCHES  
 (9-0410)    O    8-TPT-693 (143)    CONFIGURATION    02/14/57    SREF    1000    1000    1000    1000    1000    1000    1000  
 (9-0411)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    LREF    1200    1200    1200    1200    1200    1200    1200  
 (9-0412)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    BREF    1300    1300    1300    1300    1300    1300    1300  
 (9-0413)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    XMRP    976.0000    976.0000    976.0000    976.0000    976.0000    976.0000    976.0000  
 (9-0414)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    YMRP    400.0000    400.0000    400.0000    400.0000    400.0000    400.0000    400.0000  
 (9-0415)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    ZMRP    400.0000    400.0000    400.0000    400.0000    400.0000    400.0000    400.0000  
 (9-0416)    X    8-TPT-693 (143)    CONFIGURATION    02/14/57    SCALE    .0100    .0100    .0100    .0100    .0100    .0100    .0100

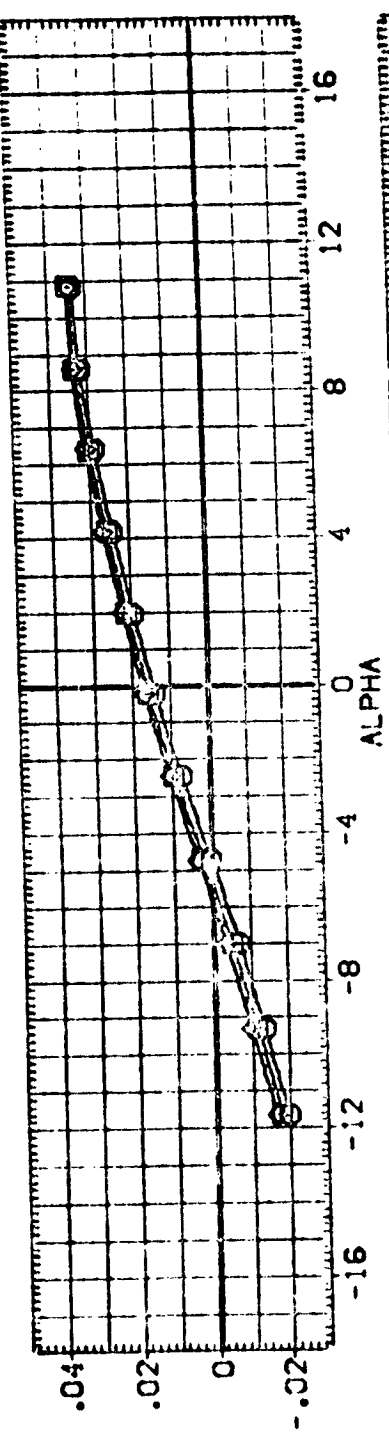


EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 8 DEGREES

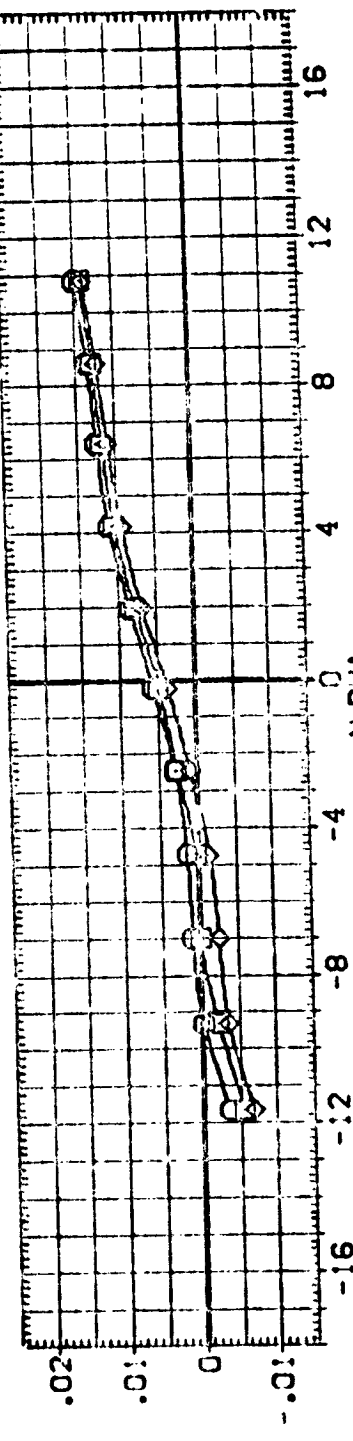
(C)MACH = 1.13



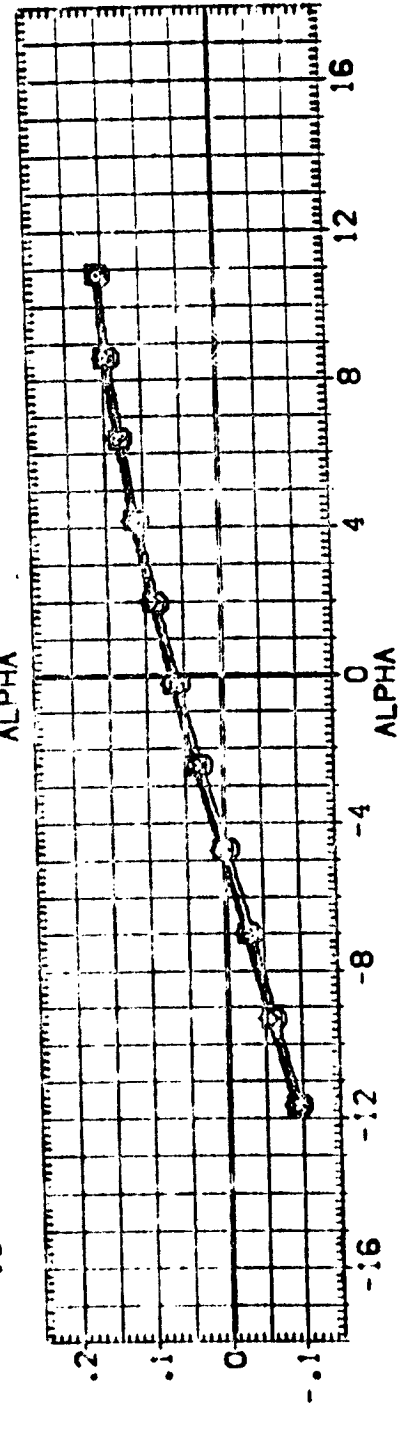
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
0-C-01	LARC 8-TPT-893 (1A13) COF DURAT. 02/14/57	.000	8.000	8.000	.000	50.FT. 2690.0000
0-C-11	LARC 8-TPT-893 (1A43) COF DURAT. 02/14/57	4.000	8.000	8.000	4.000	INCHES 1290.3000
0-C-12	LARC 8-TPT-893 (1A43) COF DURAT. 02/14/57	8.000	8.000	8.000	8.000	INCHES 1290.3000
						IN. XT 976.0000
						IN. YT 400.0000
						SCALE .0100



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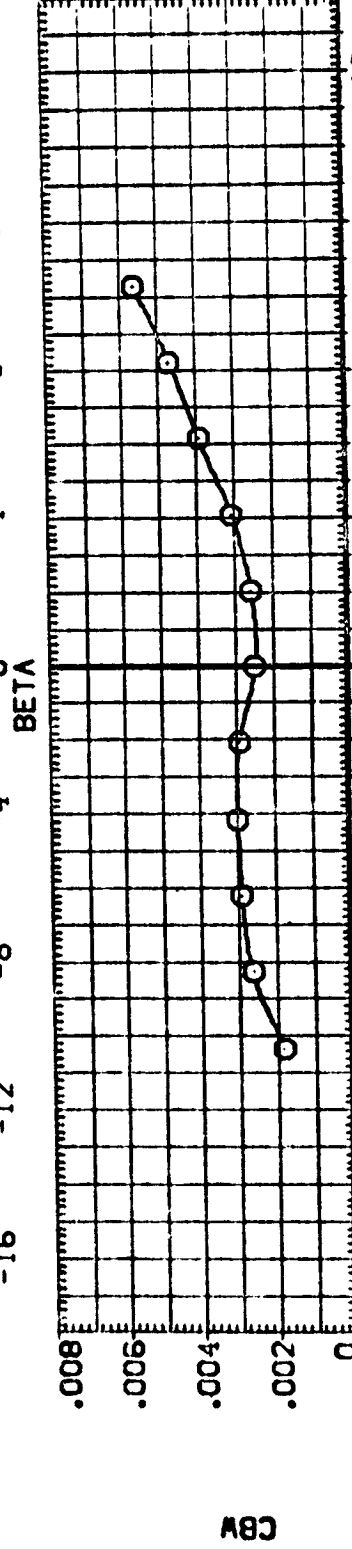
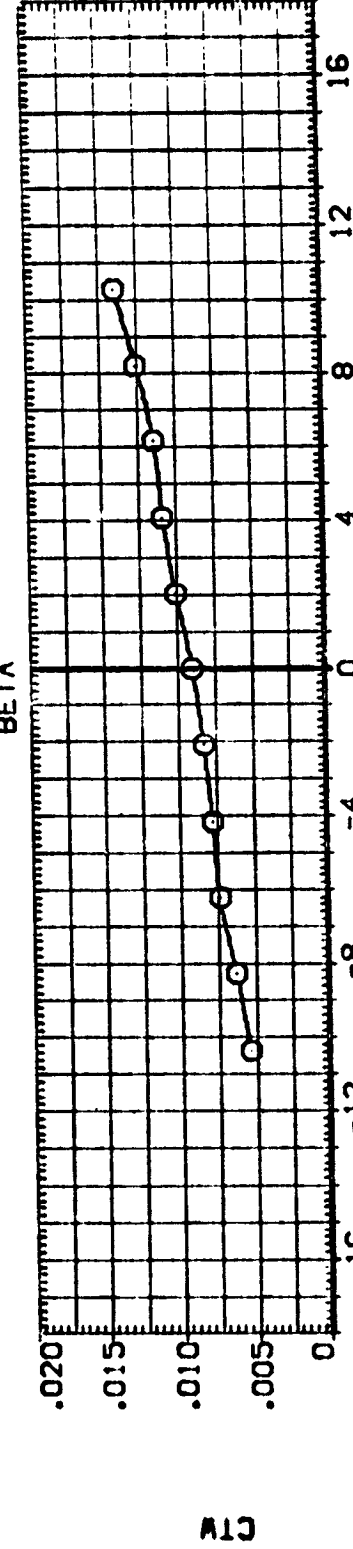
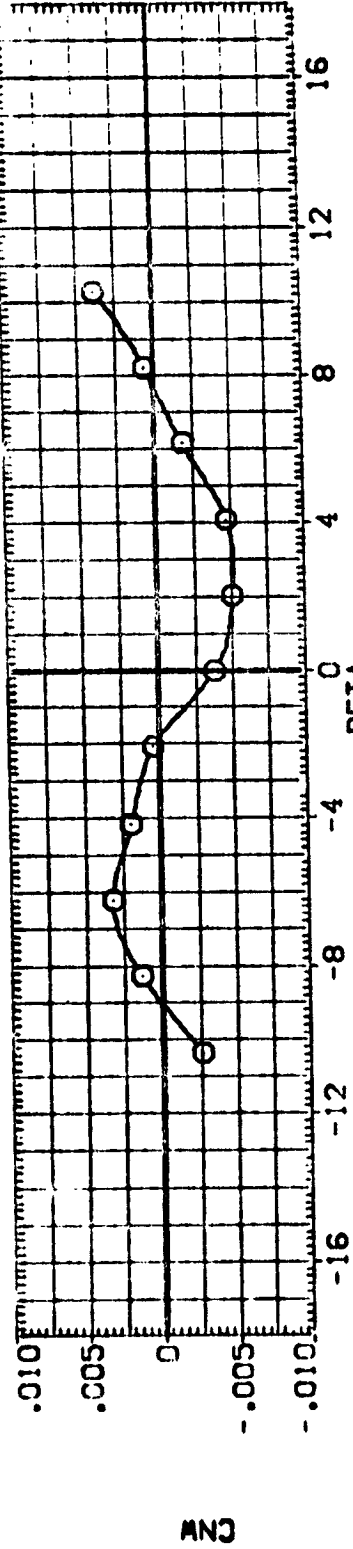
EFFECT OF ELEVONS ON WING LOADS WITH INBOARDS AT 8 DEGREES

DDMACH = 1:20

DATA SET SYMBOL: C  
 CONFIGURATION DESCRIPTION: LARC 9-TPT-693 (1A43) CONFIGURATION 02/14/57  
 REFERENCE: 100.0000  
 SREF: 100.0000  
 LREF: 290.3000  
 BREF: 576.0000  
 YMRP: 400.0000  
 ZMRP: 400.0000  
 SCALE: .0100

ELV-LC: .000  
 ELV-LL: .000  
 ELV-RL: .030  
 ELV-R0: .000

REFERENCE: 100.0000  
 SREF: 100.0000  
 LREF: 290.3000  
 BREF: 576.0000  
 YMRP: 400.0000  
 ZMRP: 400.0000  
 SCALE: .0100



EFFECT OF SIDESLIP ANGLE ON WING LOADS, ALPHA= 0.

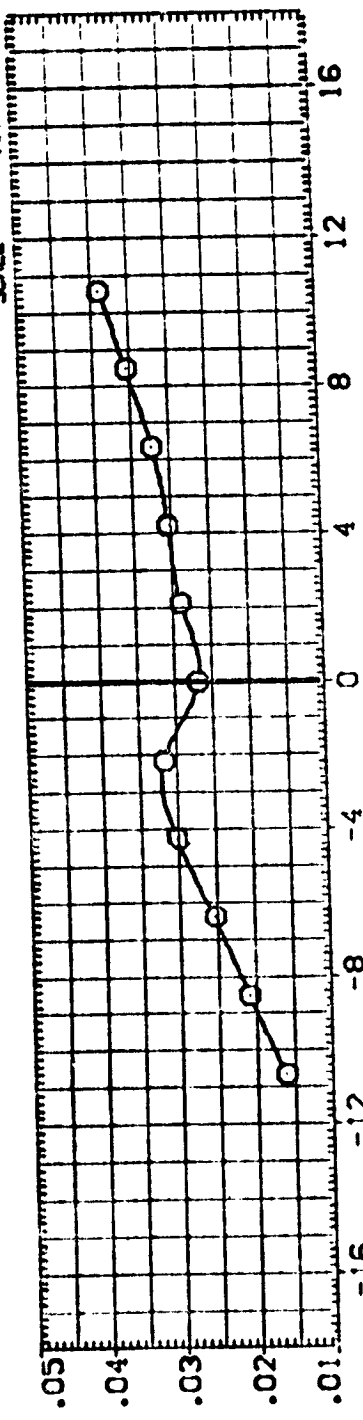
(A)MACH = .60



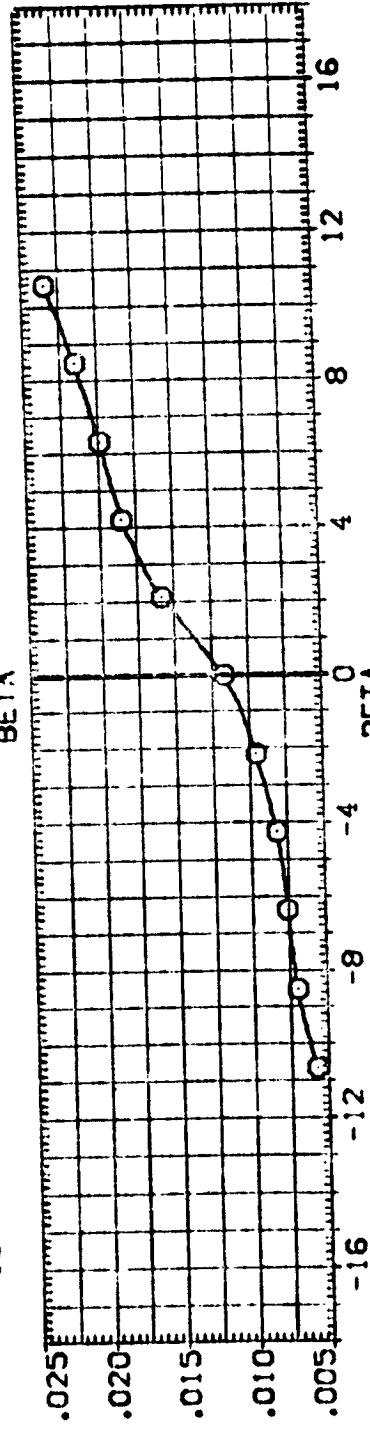
DATA SET SYMBOL: 0-071  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-223 (1A13) CONFIGURATION 02/14/57

ELV-L0 .000  
 ELV-L1 .000  
 ELV-R1 .000  
 ELV-R0 .000

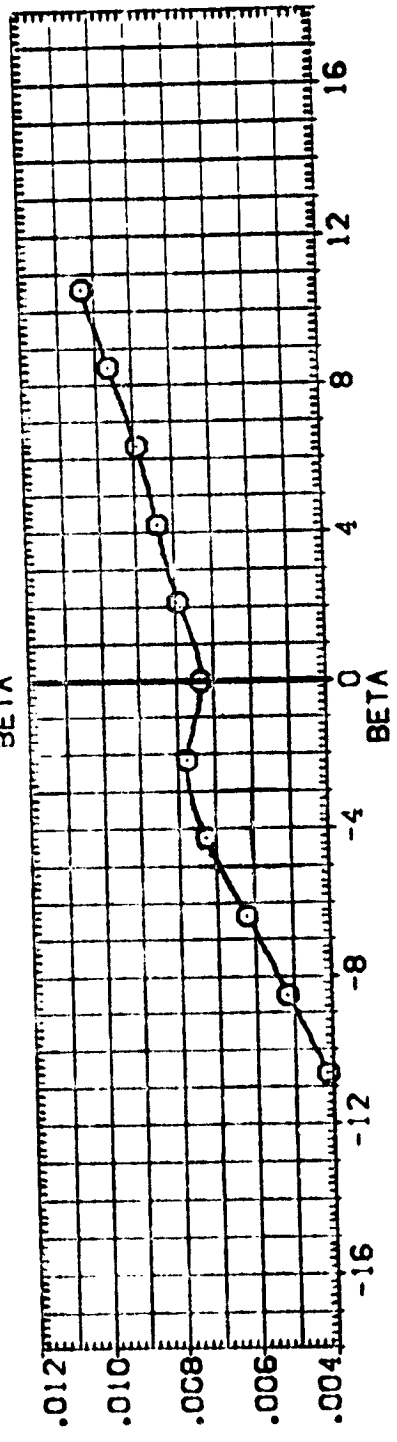
REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XPRP 976.0000 IN. XT  
 YPRP .0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100



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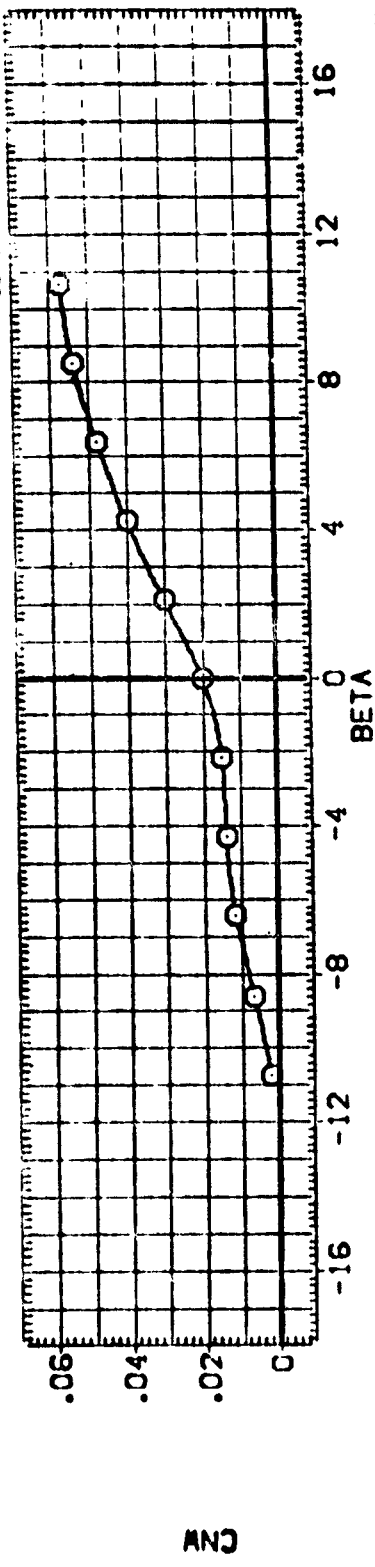
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EFFECT OF SIDESLIP ANGLE ON WING LOADS, ALPHA = 0.

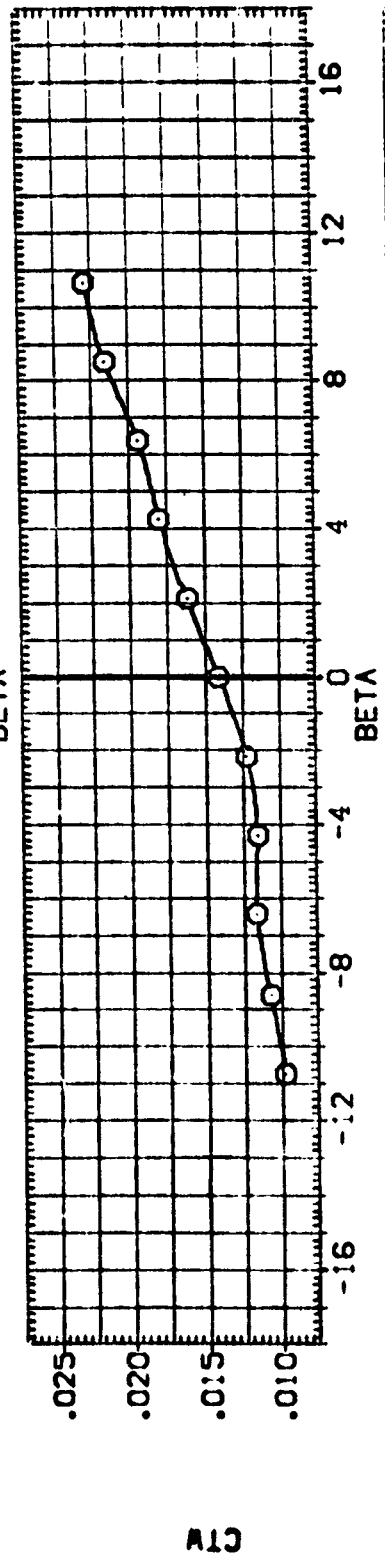
MACH = .90

DATE: SET SYMBOL: CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57

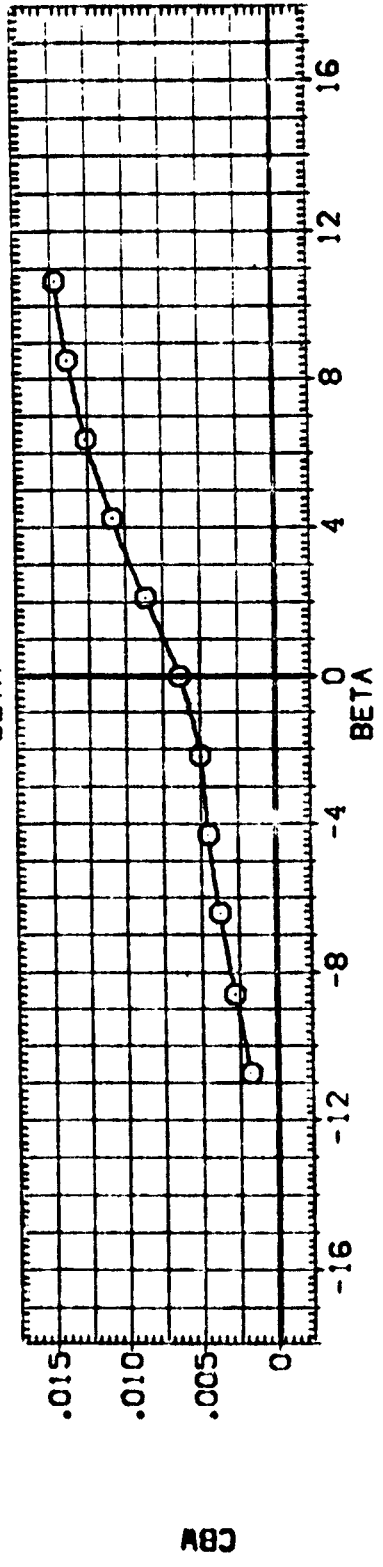
REFERENCE INSTRUCTIONS:  
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 LREF: .000  
 BREF: .000  
 XMRP: 97%.0000  
 YMRP: .0000  
 ZMRP: .0000  
 SCALE: 400.0000  
 IN: Y1  
 IN: Z1



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EFFECT OF SIDESLIP ANGLE ON WING LOADS, ALPHA= 0.

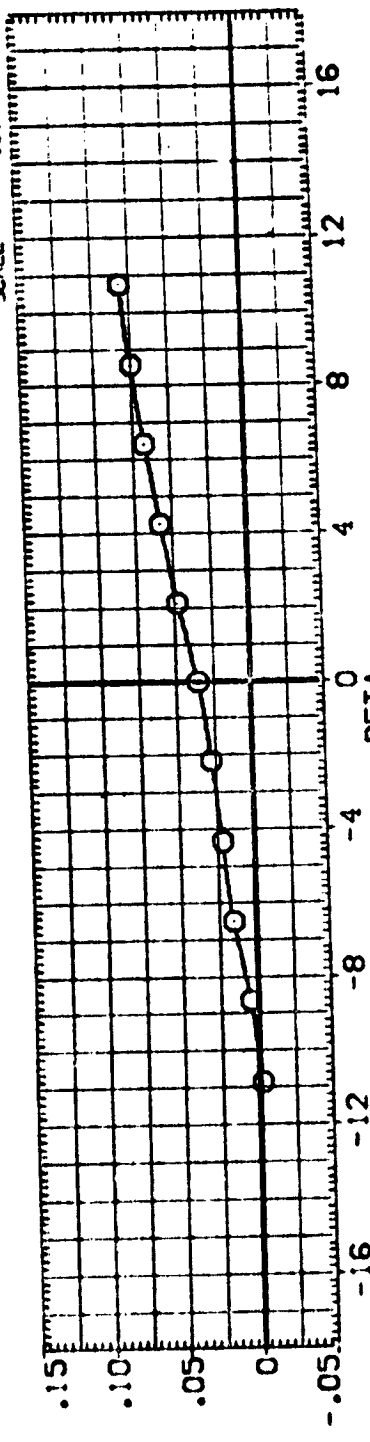
(C)MACH = .98



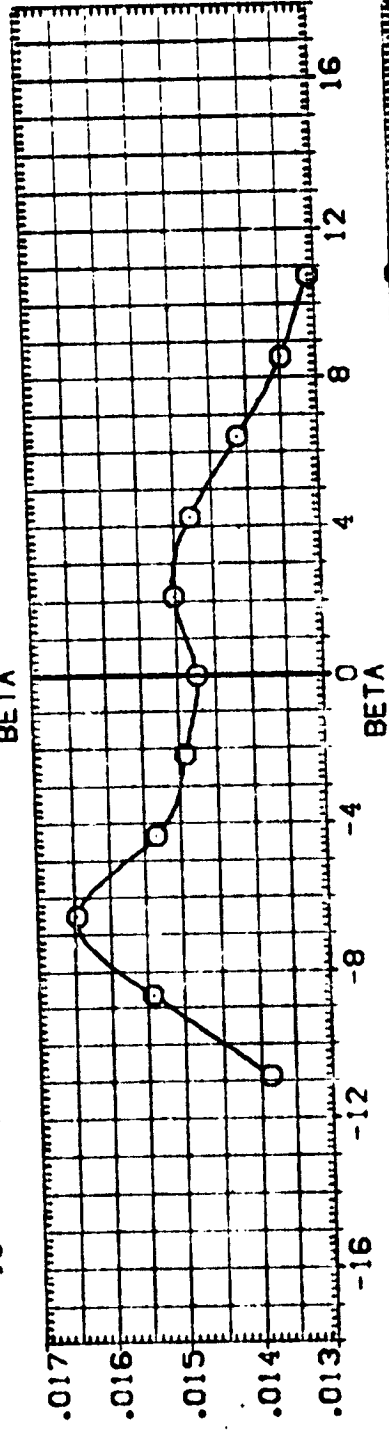
DATA SET SYMBOL: (A-C-07) O  
 CONFIGURATION DESCRIPTION: LARC 8-PT-693 (1A43) CONFIGURATION 02/14/57

ELV-L0 .000  
 ELV-L1 .000  
 ELV-R1 .000  
 ELV-R0 .000

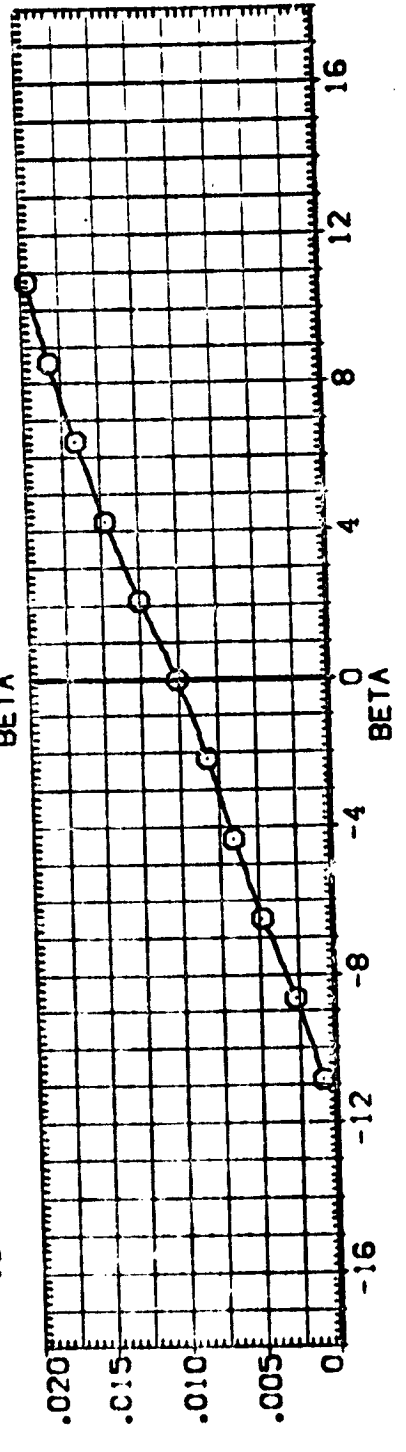
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 INCHES 1290.3000  
 L.REF. 1290.3000  
 BREF. 1290.3000  
 IN. XT 976.0000  
 Y-PRP 400.0000  
 Z-PRP .0100  
 SCALE .0100



ANO



ANJ



ANB

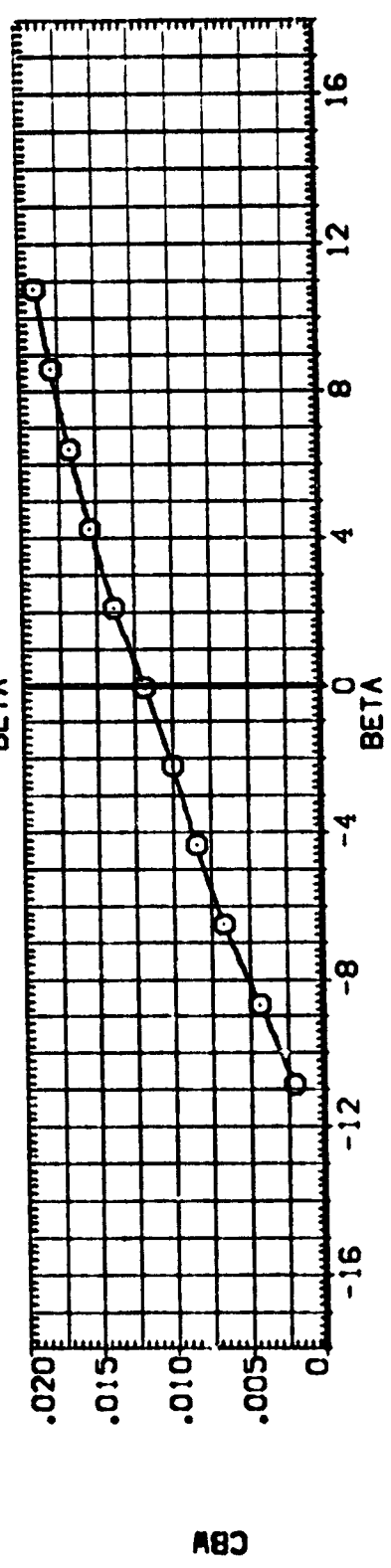
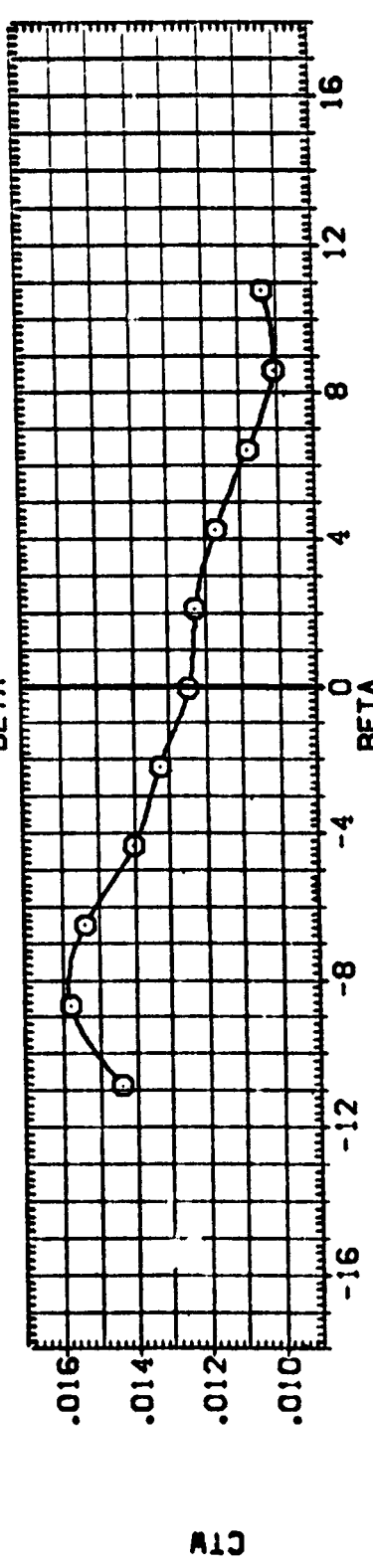
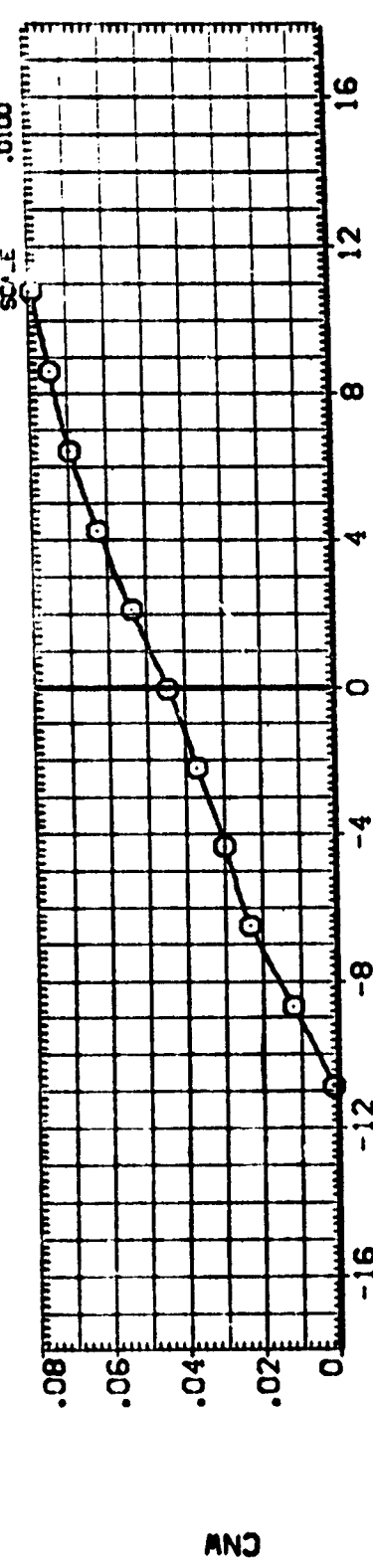
EFFECT OF SIDESLIP ANGLE ON WING LOADS, ALPHA= 0.

COMACH = 1.13

DATA SET SYMBOL: (R-007)  $\odot$  LARC 8-TPT-533 (1413) CONFIGURATION: 02/14/57

REFERENCE INFORMATION:  
 SREF: 290.0000 SQ.FT.  
 LREF: 1290.3000 INCHES  
 BREF: 1290.3000 INCHES  
 XTRP: 576.0000 IN. XT  
 YTRP: 400.0000 IN. YT  
 ZTRP: 400.0000 IN. ZT  
 SCALE: .0100

ELV-L0: .000  
 ELV-L1: .000  
 ELV-R1: .000  
 ELV-R0: .000



EFFECT OF SIDESLIP ANGLE ON WING LOADS, ALPHA = 0.

(E)MACH = 1.20





LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RHCM06)

SYMBOL:  $\square$   $\diamond$   $\circ$   $\square$   $\square$   $\square$

ALPHA -11.165  
 MACH .900  
 ELV-L0 .000  
 RUDDER .000  
 50FLAP .000  
 -8.938  
 -6.725  
 -4.515  
 -2.360  
 -.165

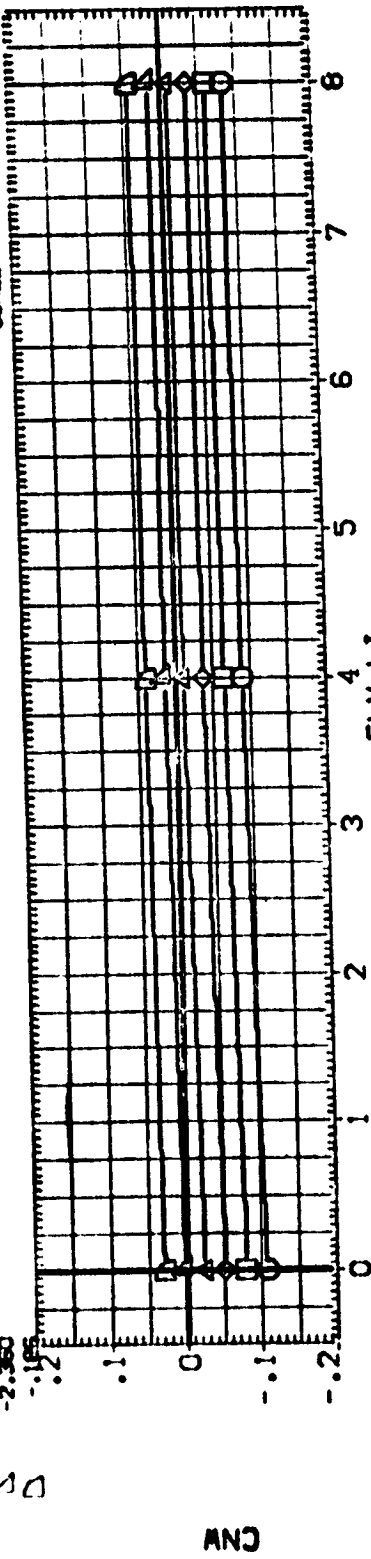
PARAMETRIC VALUES  
 BETA .000  
 ELV-R0 .000  
 SPOBRK .000

DATA SOURCE  
 ELV-L1 .000  
 R-CH15 8.000

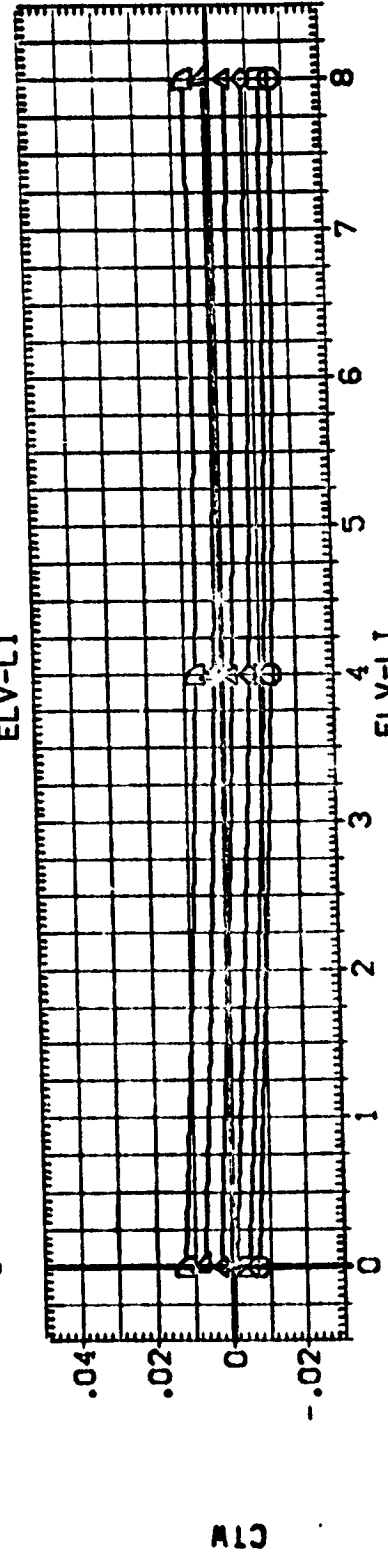
DATASET  
 ELV-L1 4.000  
 R-CH15

REFERENCE INFORMATION  
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 LREF 1290.3000  
 XMRP 976.0000  
 YMRP 400.0000  
 ZMRP .0100  
 SCALE

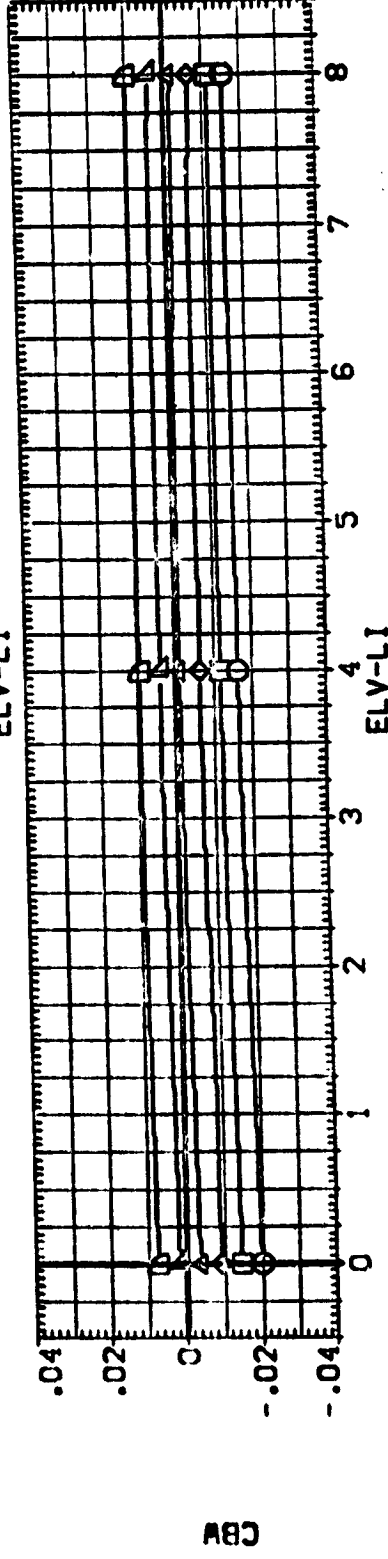
SO.FT.  
 IN-OES  
 IN. XT  
 IN. YT  
 IN. ZT



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WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING

LARC 8-TPT-693 (A43) CONFIGURATION 02/14/87 (RHC06)

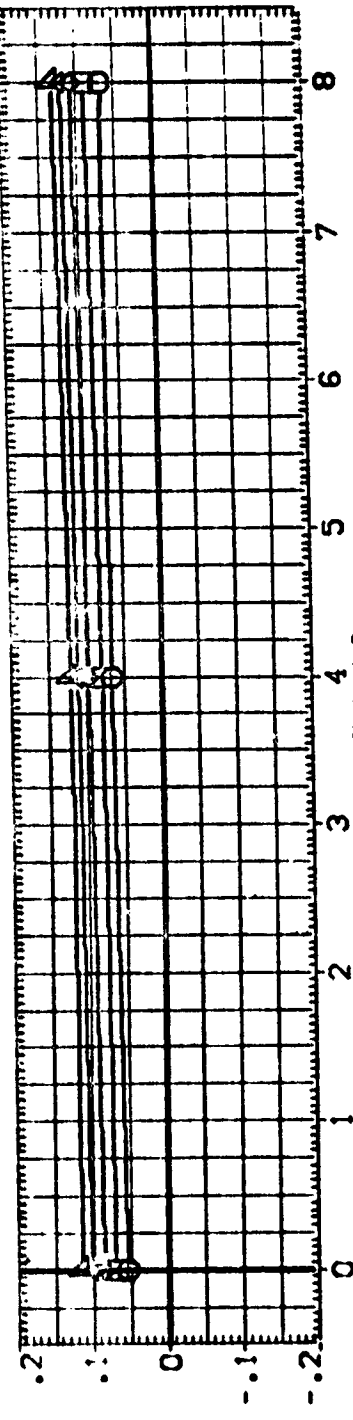
SYMBOL 01044

ALPHA 1.591  
 4.110  
 6.313  
 8.485  
 10.643

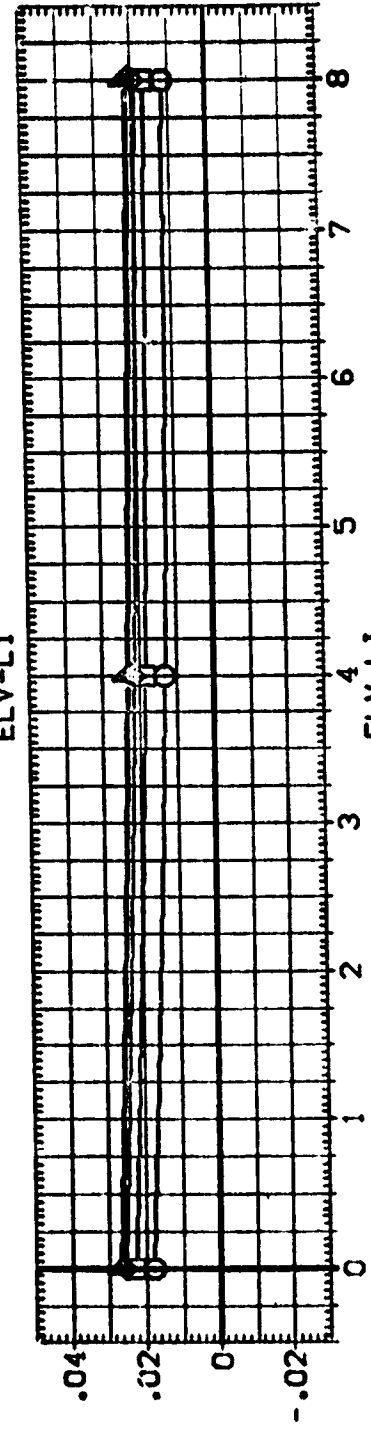
PARAMETRIC VALUES  
 MACH .900  
 ELV-LO .300  
 RUDDER .300  
 BOTLAP .000  
 BETA .900  
 ELV-HI .300  
 SPCSRK .000

DATA SOURCE  
 ELV-LI .000  
 R-CH10 .000  
 R-CH06 .000  
 R-CH15 8.000

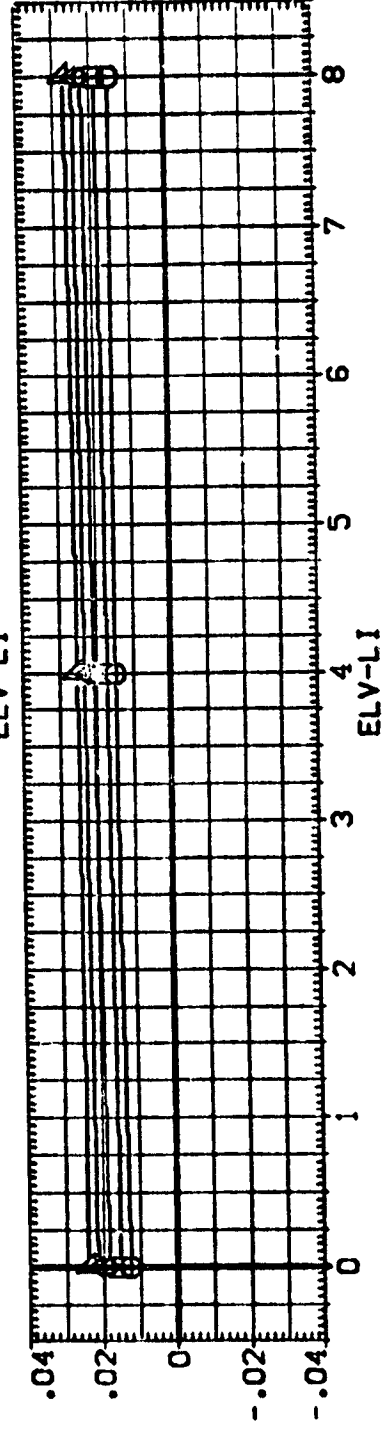
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 XREF 25.0000  
 YREF 10.0000  
 ZREF 5.0000  
 SCALF .0100



CNM



CTM



CBM

WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING



LARC 2-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM06)

SYMBOL  
 00000000

ALPHA  
 -11.382  
 -9.110  
 -6.847  
 -4.634  
 -2.424  
 -0.223

MACH  
 ELV-L0  
 R-RODR  
 BD'LAP

PARAMETRIC VALUES  
 BETA  
 ELV-R0  
 SPOBRK

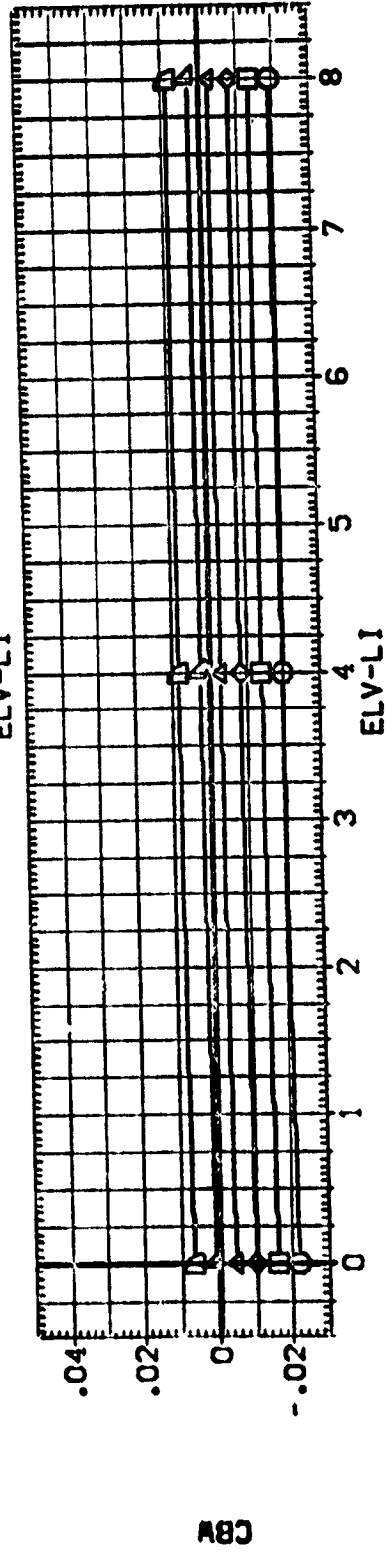
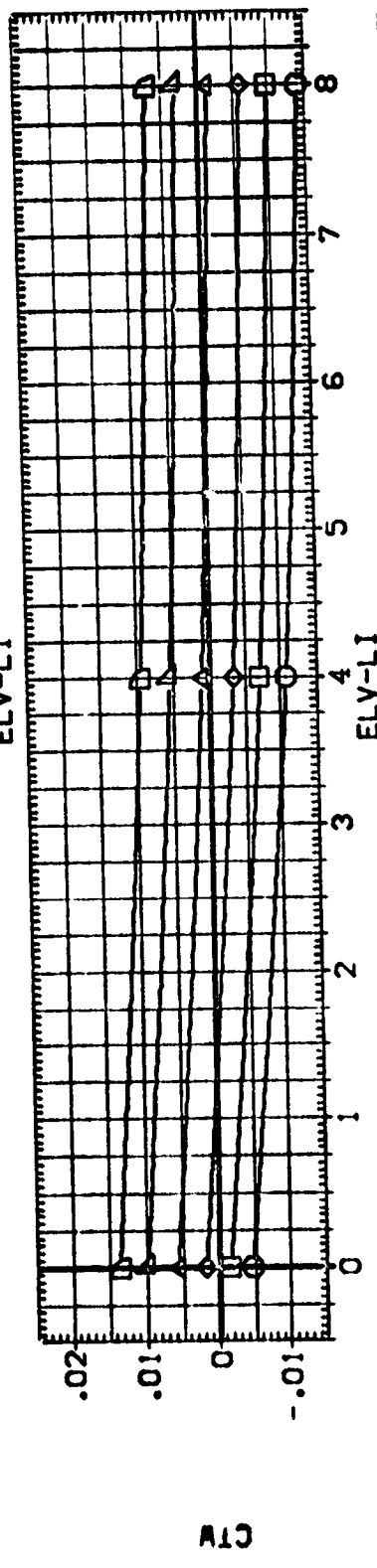
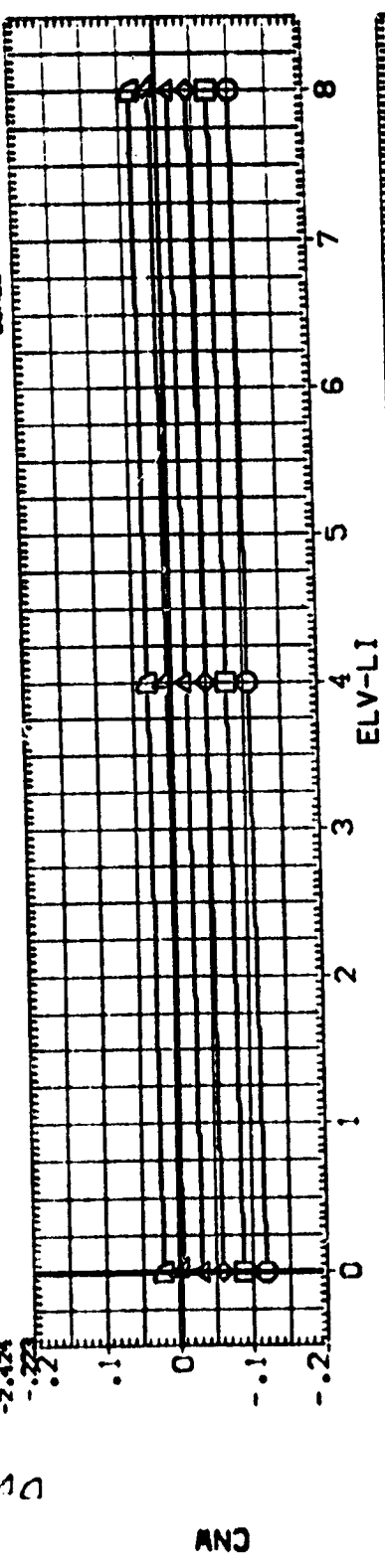
.000 DATASET  
 .000 R-CH06  
 .000 R-CH10

DATA SOURCE  
 ELV-L1  
 8.000

DATASET  
 R-CH15

ELV-L1  
 4.000

REFERENCE INFORMATION  
 SQ.FT  
 2690.0000  
 INCHES  
 1253.3000  
 IN. XT  
 1290.3000  
 IN. YT  
 976.0000  
 IN. ZT  
 400.0000  
 SCALE  
 .0100



WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING

ARC 8-TPT-593 (IA43) CONFIGURATION 02/14/57 (RHC06)

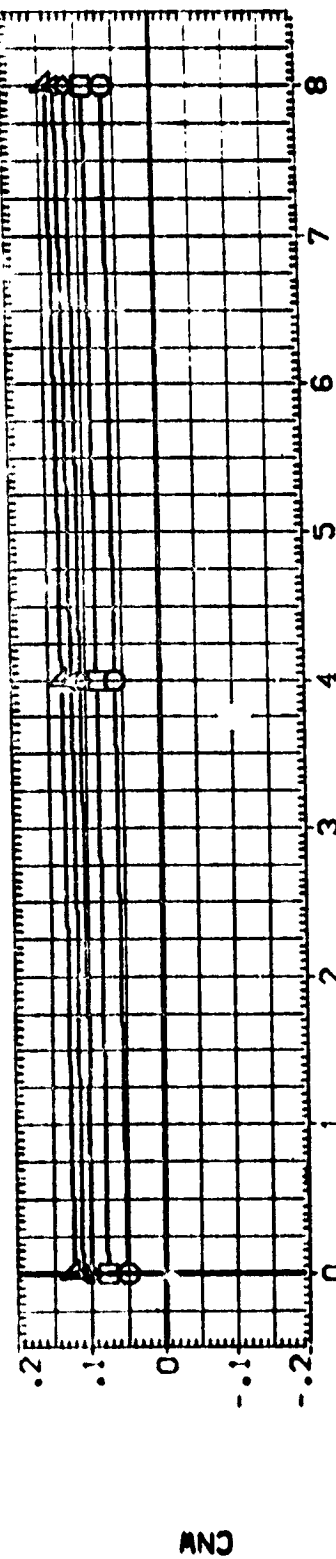
REFERENCE INFORMATION  
 SO. ELV. 0.000  
 NO. OF 3000  
 INCHES 3000  
 IN. Y 576.0000  
 IN. Z 400.0000  
 IN. ZT .0100

DATA SOURCE DATASET ELV-LI  
 R-CH15 4.000  
 R-CH10 6.700

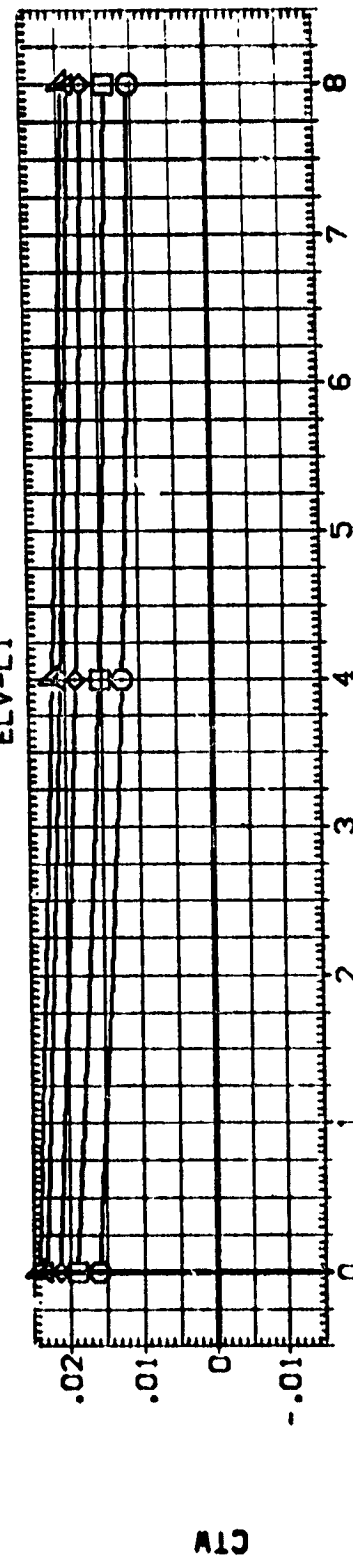
PARAMETRIC VALUES  
 BETA .980  
 ELV-RO .000  
 S-DERR .000  
 S-DERR .000

MACH ELV-L0  
 ELV-L0 ELV-RO  
 RUDER S-DERR  
 BDFLAP .000

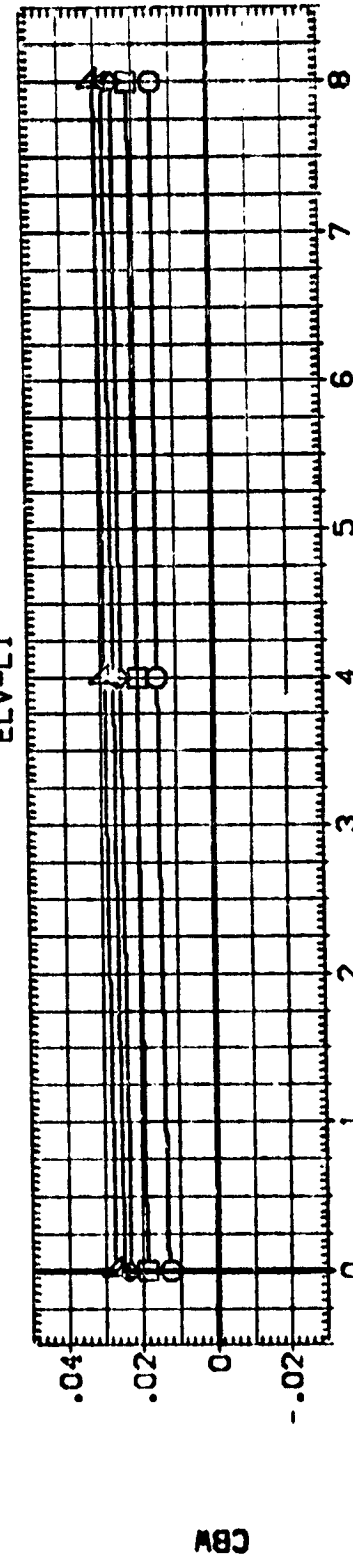
ALPHA  
 1.563  
 4.158  
 6.333  
 8.527  
 10.703



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WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING



LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RHC06)

SYMBOL: 177  
 REFERENCE INFORMATION: SQ.FT. 2690.0000, INCHES 1290.3000, IN. XT 576.0000, IN. ZT 400.0000, SCALE 0100

PARAMETRIC VALUES: MACH 1.130, BETA 1.000, ELV-LO 0.000, ELV-RG 0.000, SPOBRK 0.000, BOFLAP 0.000

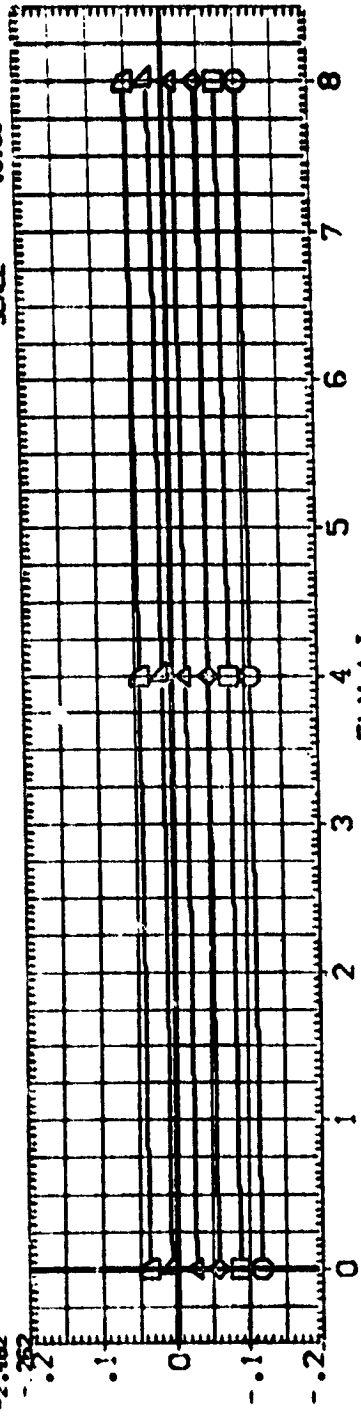
DATA SOURCE: ELV-LI 0.000, DATASET R-CH15, ELV-LI 4.000, DATASET R-CH10, ELV-LI 8.000

PARAMETRIC VALUES: MACH 1.130, BETA 1.000, ELV-LO 0.000, ELV-RG 0.000, SPOBRK 0.000, BOFLAP 0.000

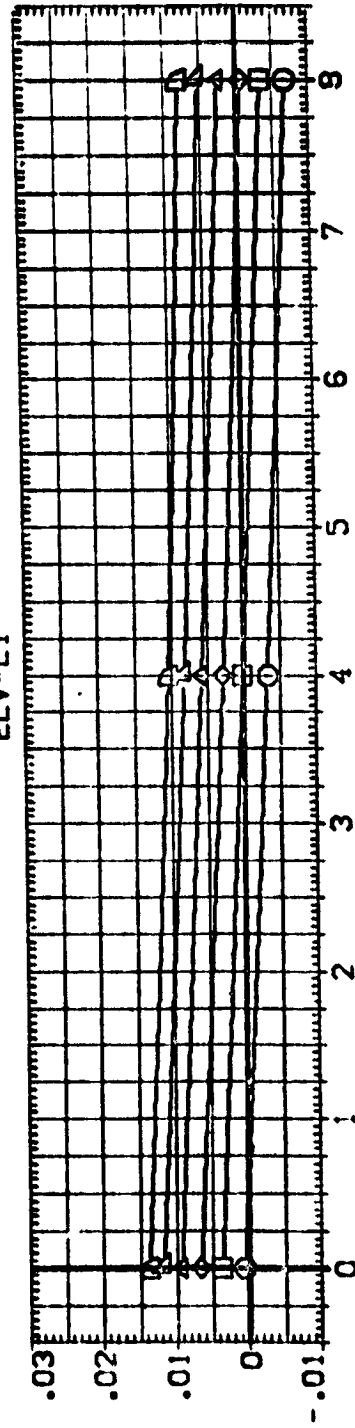
DATA SOURCE: ELV-LI 0.000, DATASET R-CH15, ELV-LI 4.000, DATASET R-CH10, ELV-LI 8.000

PARAMETRIC VALUES: MACH 1.130, BETA 1.000, ELV-LO 0.000, ELV-RG 0.000, SPOBRK 0.000, BOFLAP 0.000

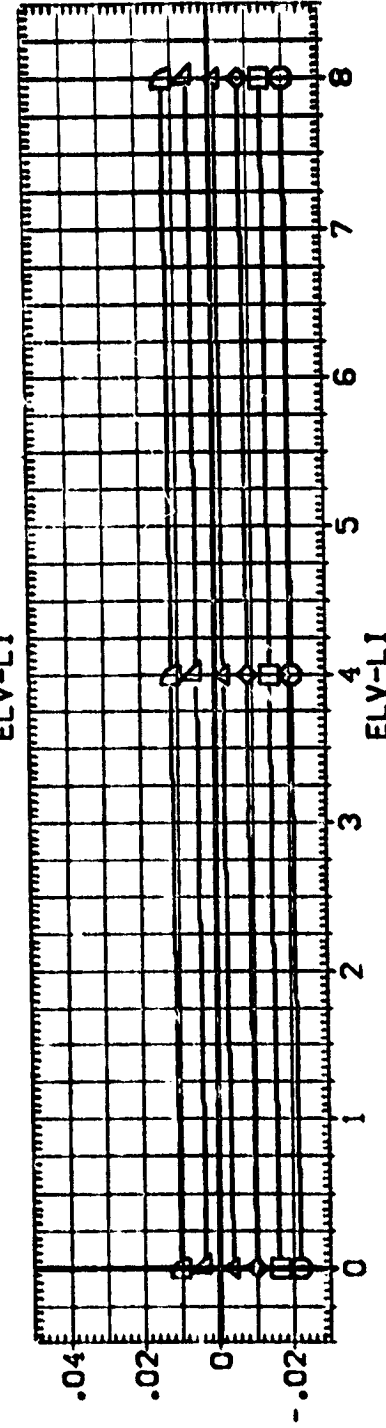
SYMBOL: 177



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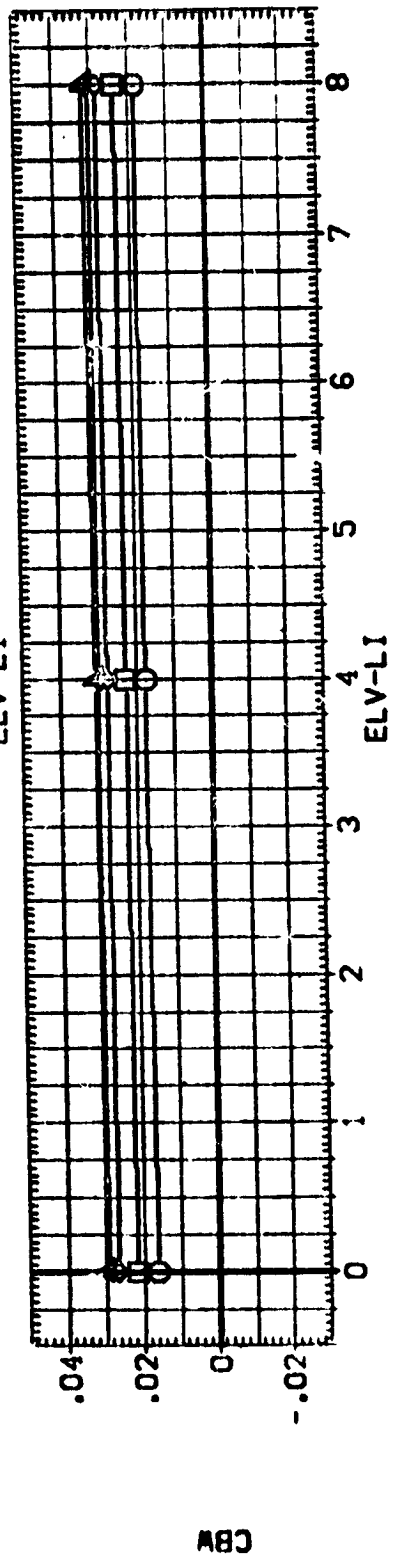
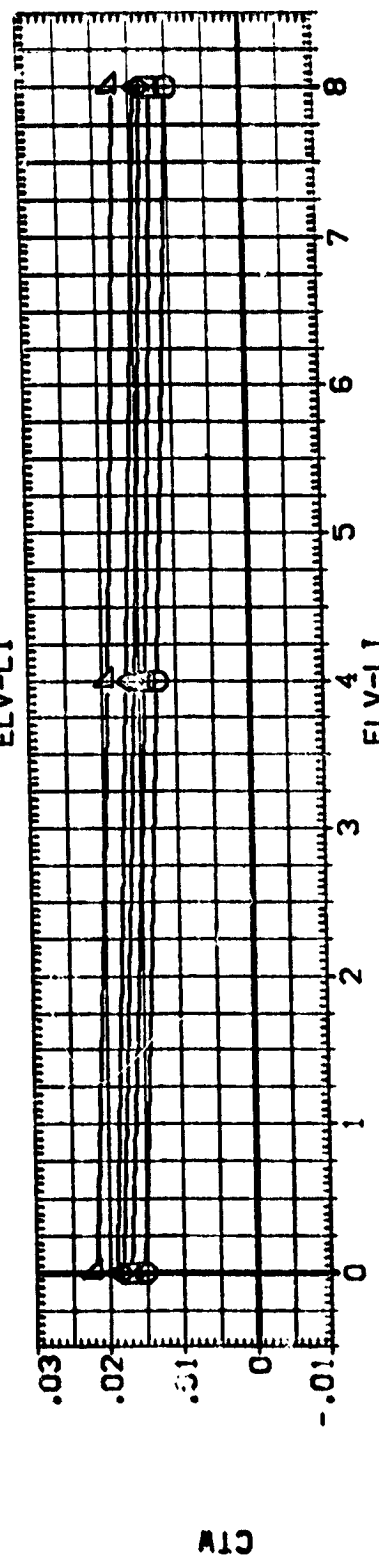
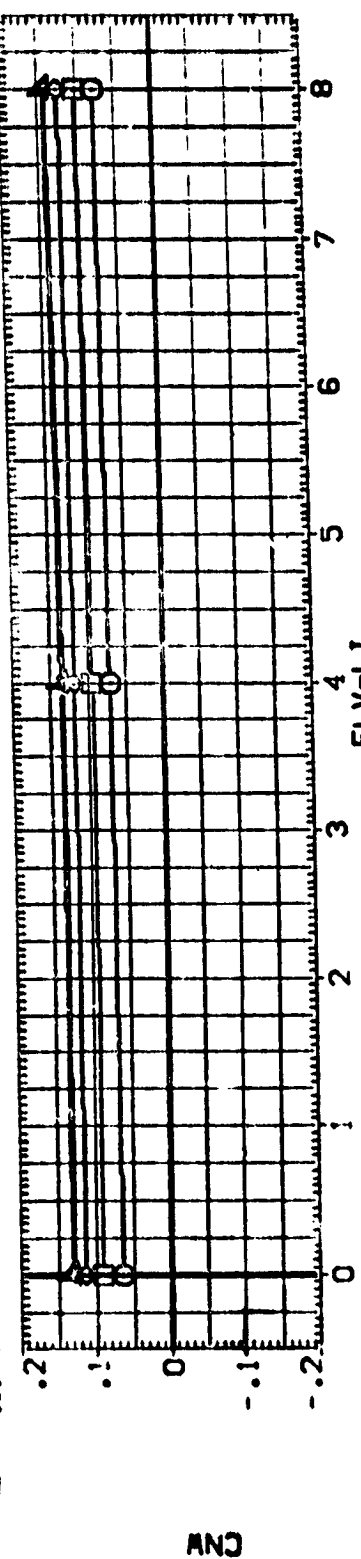
WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (RHCMD6)

SYMB. ALPHA MACH PARAMETRIC VALUES DATA SOURCE REFERENCE INFORMATION

▽	1.952	MACH	1.130	BETA	.000	DATASET	ELV-LI	SREF	200.0000
◇	4.161	ELV-L0	.000	ELV-R0	.000	R-CM05	4.000	LREF	1200.0000
◇	6.382	RUDDER	.000	SPOBRK	.000	R-CM15	6.000	XMRP	1000.0000
◇	8.580	BOFLAP	.000					YMRP	575.0000
▽	10.772							ZMRP	400.0000
								SCALE	.0100

REF. 1: 0.0000  
REF. 2: 0.0000  
REF. 3: 0.0000  
REF. 4: 0.0000  
REF. 5: 0.0000  
REF. 6: 0.0000  
REF. 7: 0.0000  
REF. 8: 0.0000

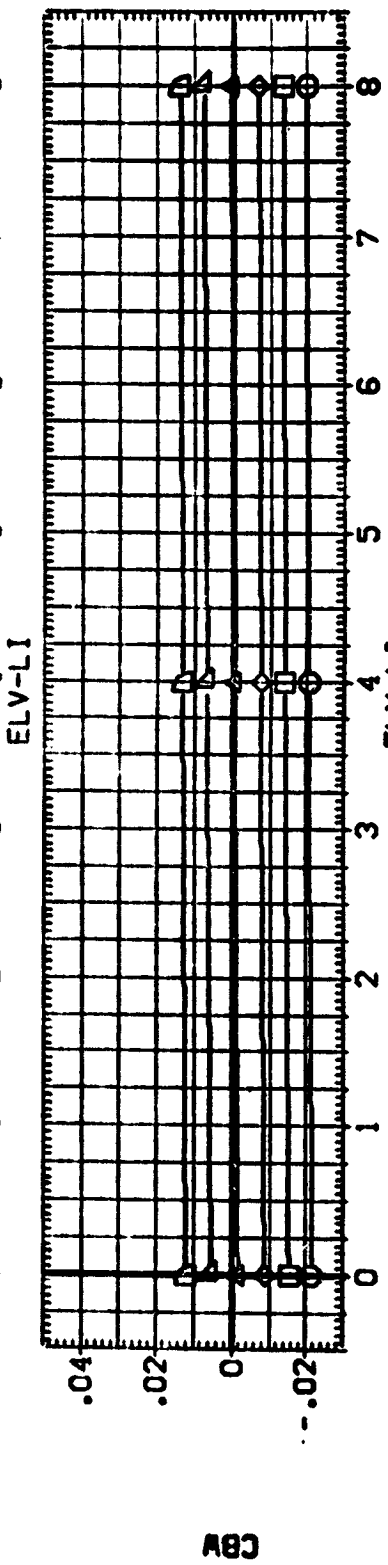
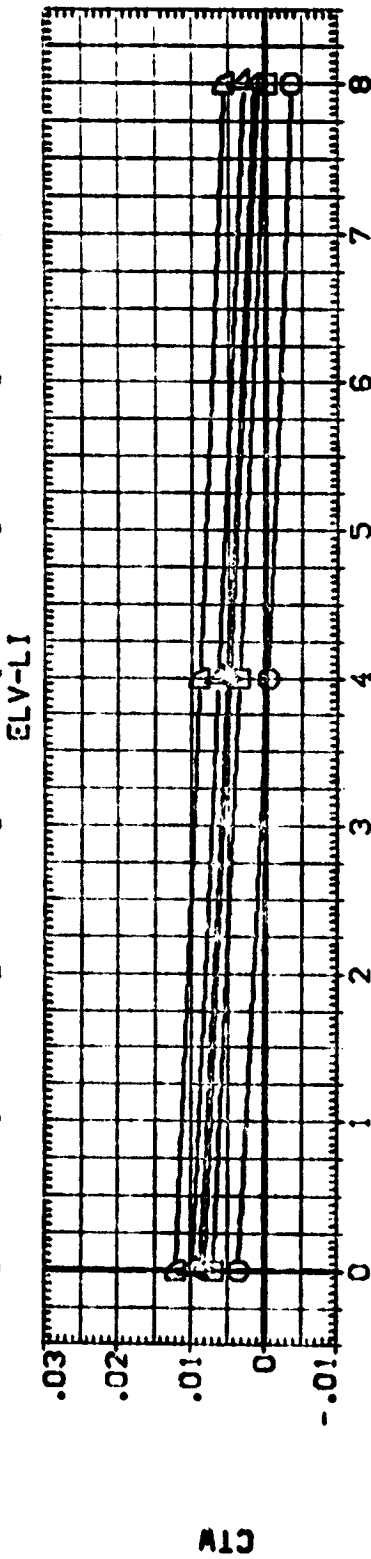
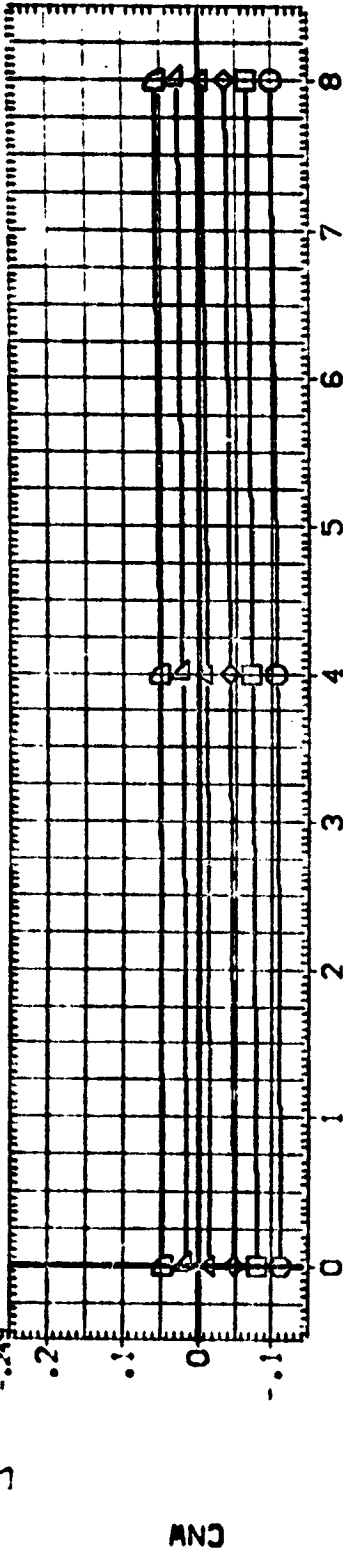


WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING



LARC 6-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM06)

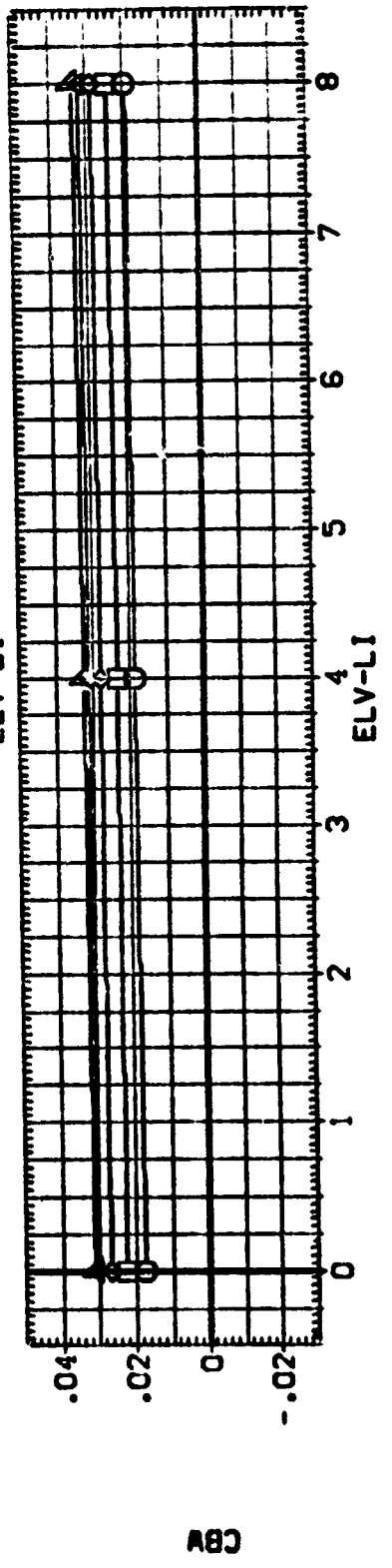
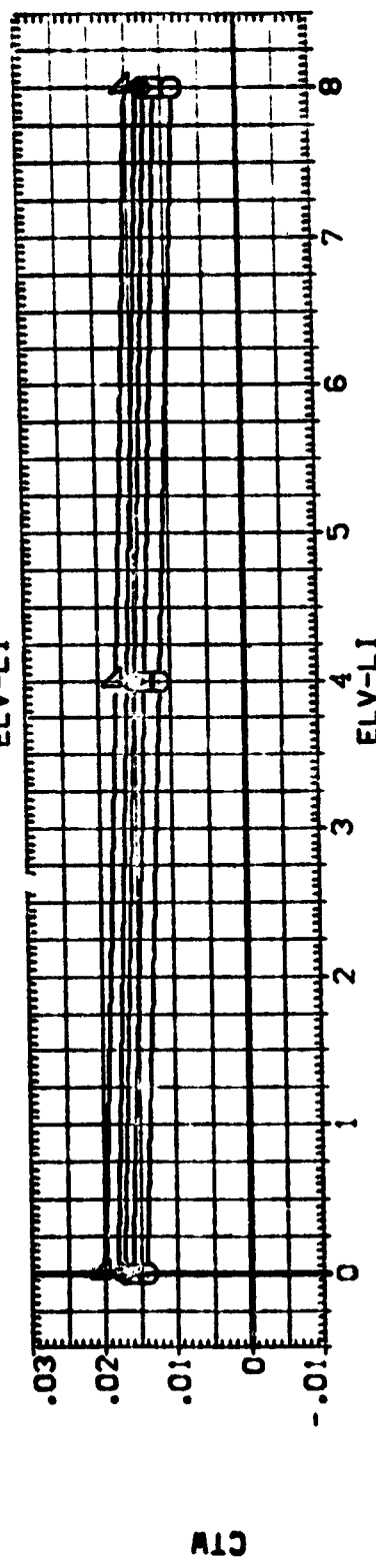
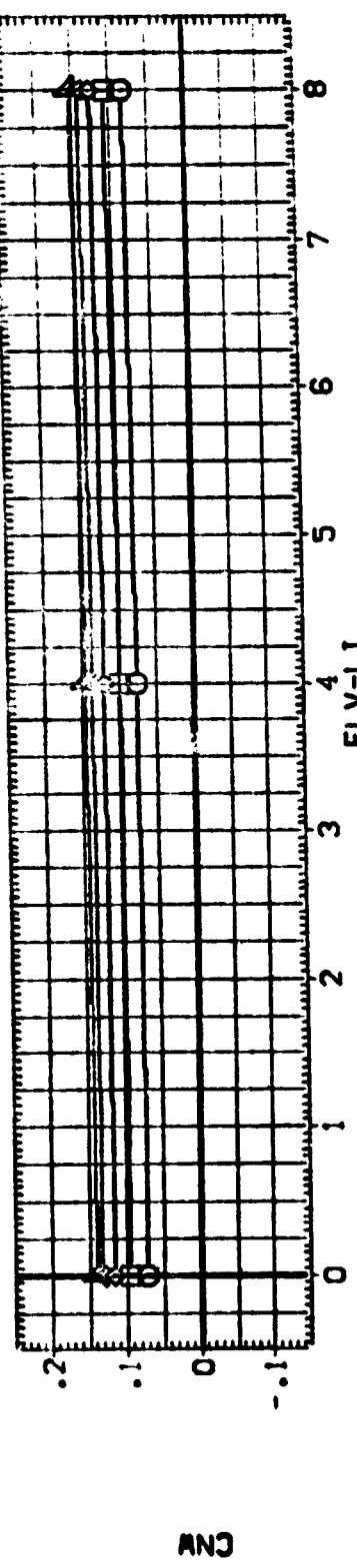
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		DATASET		REFERENCE INFORMATION	
0010442	-11.663		1.700	BETA	.000	ELV-LI	R-CH15	SREF	2650.0000	SO.FT.
	-9.336	ELV-L3	.000	ELV-R0	.000	R-CH06	R-CH15	LREF	1250.3000	INC-ES
	-7.034	R-ODER	.000	SPDRK	.000	R-CH10	R-CH15	BREF	1250.3000	INC-ES
	-4.745	EDFLAP	.000					YMRP	975.0000	IN. XT
	-2.504							ZMRP	400.0000	IN. ZT
	-0.249							SCALE	.0100	



WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (RHC06)

SYMBL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
□	1.952	1.200	BETA	.000	DATASET	ELV-LI	SREF	SO.FT.
◇	1.169	.000	ELV-L0	.000	RHC06	4.000	REF	20.300
◇	6.386	.000	ELV-R0	.000	R-CH15	8.000	BASE	50.300
◇	8.594	.000	RUDLER	.000	R-CH10		WARP	56.000
◇	10.810	.000	EDFLAP	.000			ZWRP	100.000
							SCALE	IN. 2



WING LOAD FOR CONSTANT OUTBOARD ELEVON SETTING



LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (RHCM15)

SYMBOL: 024400

ALPHA: -11.161  
 -9.937  
 -6.731  
 -4.532  
 -2.345  
 -1.168

PARAMETRIC VALUES  
 M/DV: .900  
 ELV-LI: 4.000  
 P/DJLR: .000  
 BDF LAP: .000

BETA: .000  
 ELV-RI: .000  
 S/DJRN: .000

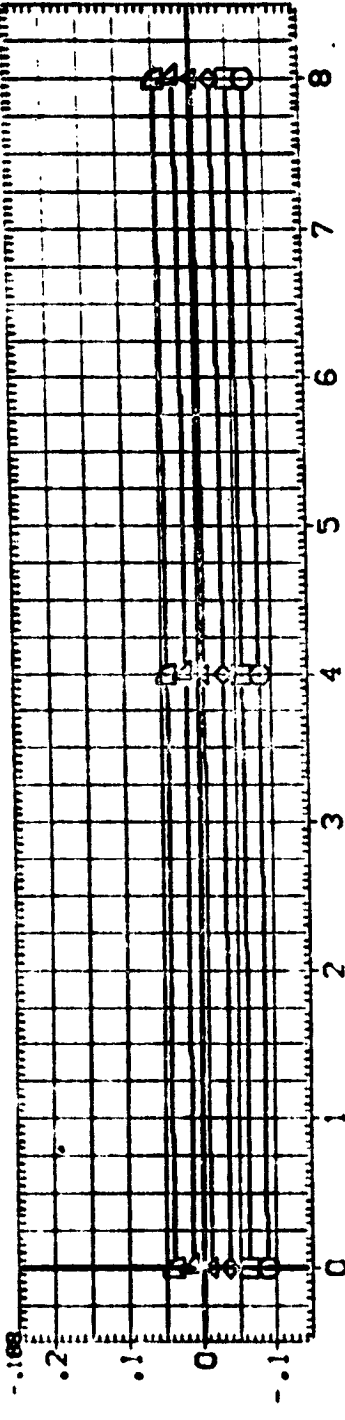
DATA SOURCE  
 ELV-L0: .000  
 RHCM15: 4.000  
 RHCM13: 8.000

DATASET  
 RHCM14: 4.000

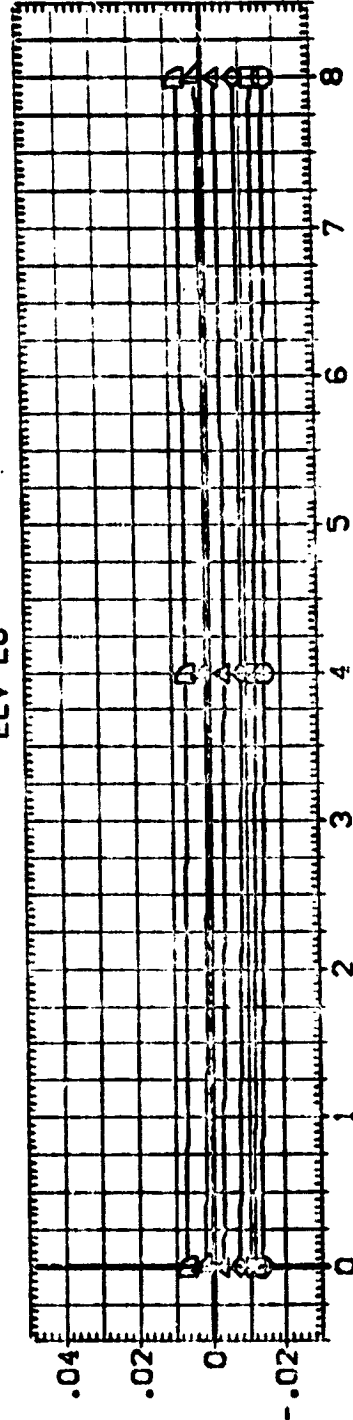
ELV-L0: 4.000

REFERENCE INFORMATION  
 SREF: 2690.0000  
 LREF: 1790.3000  
 BREF: 1290.3000  
 XMRP: 976.0000  
 YMRP: 400.0000  
 ZMRP: 400.0100  
 SCALE: .0100

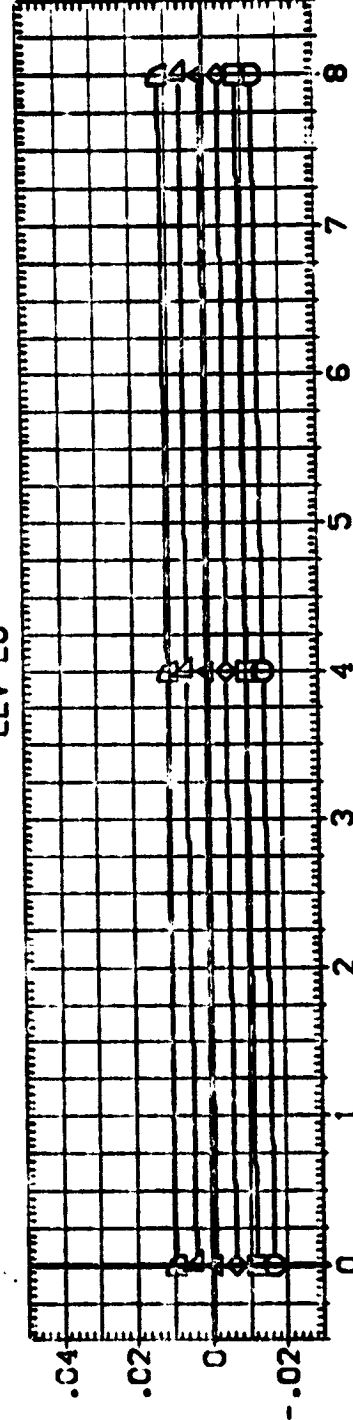
SO.PT: INO-ES  
 INO-ES  
 IN. XT  
 IN. XT  
 IN. ZT



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

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LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/S7 (RHCM15)

SYMBOL  
 □ □ ◇ △ ▽

ALPHA  
 1.592  
 4.143  
 6.320  
 8.486  
 10.656

MACH  
 ELV-L1  
 RUDDER  
 BOFLAP

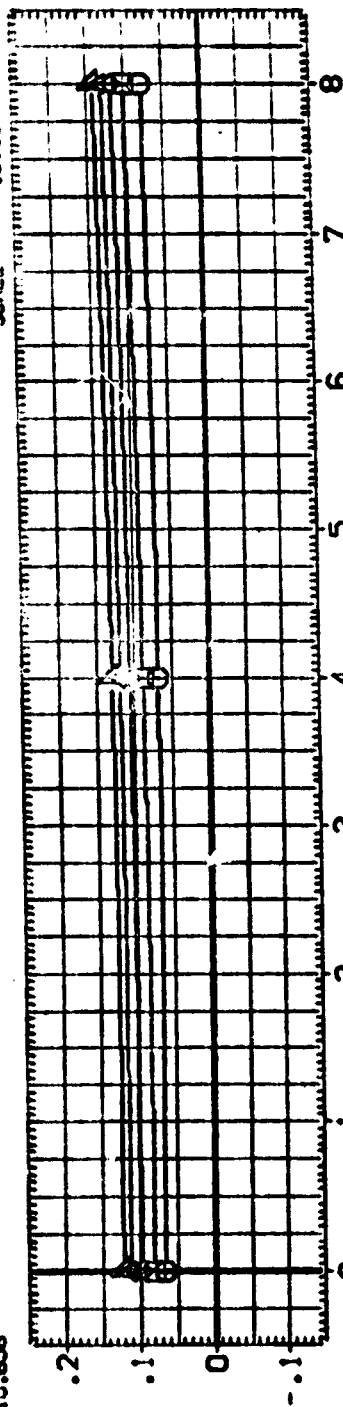
PARAMETRIC VALUES  
 BETA  
 ELV-R1  
 SPOBRK  
 .500  
 4.000  
 .000  
 .000

.000 DATASET  
 R-CH15  
 R-CH13

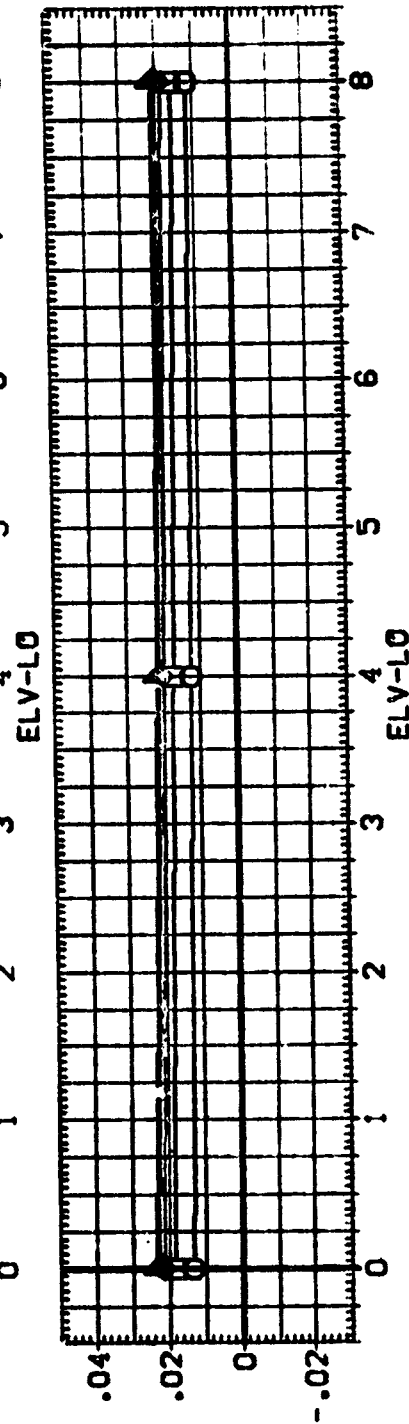
DATA SOURCE  
 ELV-L0  
 .000  
 8.000

ELV-L0  
 4.000  
 REF  
 X-TRP  
 Y-TRP  
 Z-TRP  
 SCALE

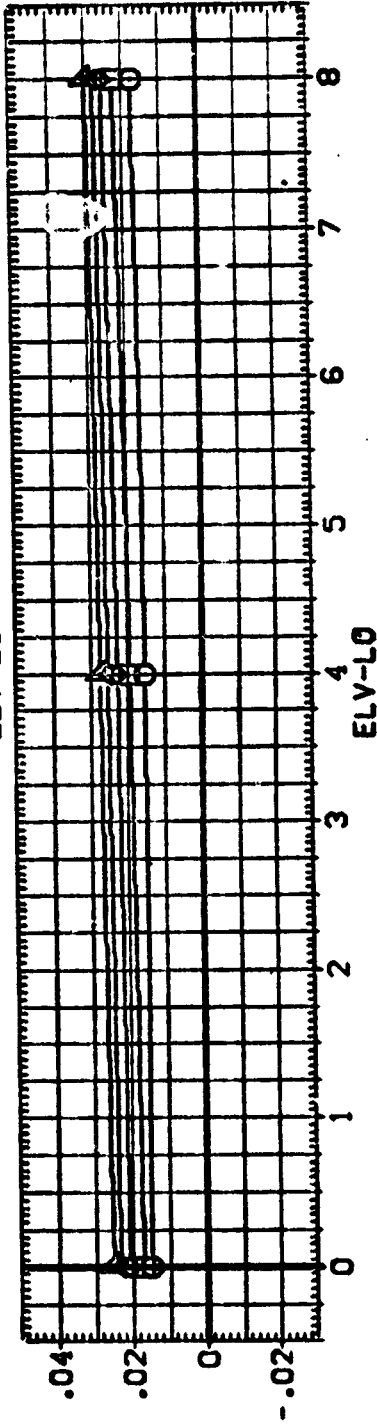
REFERENCE INFORMATION  
 27.0.0000  
 1290.3000  
 1290.3000  
 1276.0000  
 400.0000  
 .0100



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING



LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM15)

SYMBOL: D V D O I I O

ALPHA  
-11.300  
-9.108  
-6.865  
-4.630  
-2.430  
-0.205

MACH  
ELV-L1  
RUDDER  
EDFLAP

PARAMETRIC VALUES  
BETA  
ELV-R1  
SPDRK

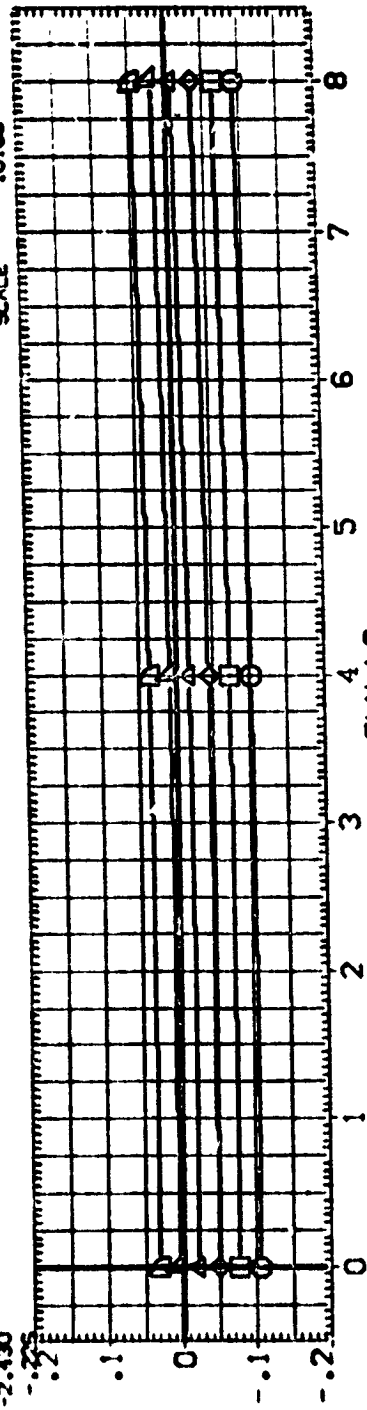
.000 DATASET  
4.000 R-CH15  
.000 R-CH13

DATA SOURCE  
ELV-L0  
8.000

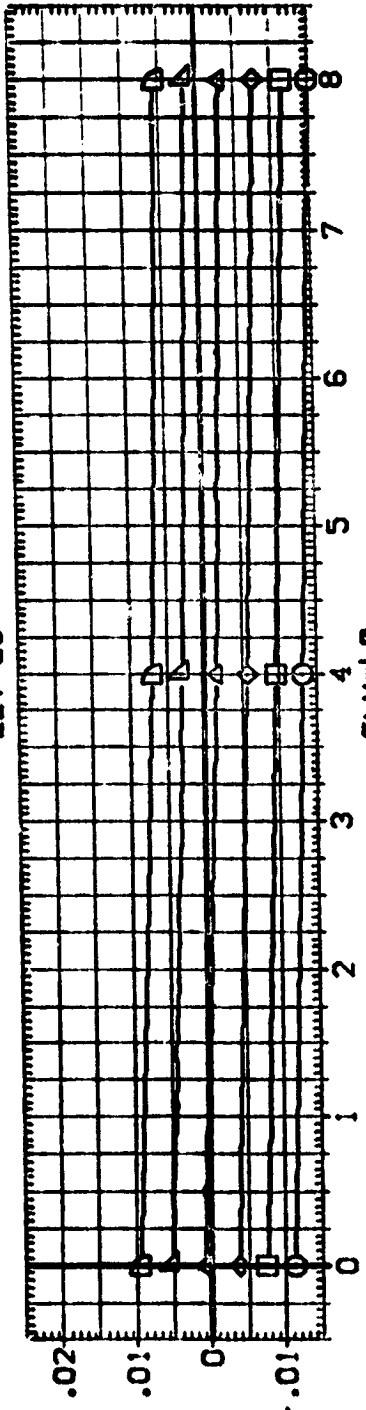
DATASET  
R-CH14  
4.000 ELV-L0

REFERENCE INFORMATION  
2690.0000 SREF  
1290.3000 LREF  
1290.3000 BREF  
976.0000 YREF  
400.0000 ZREF  
SCALE .0100

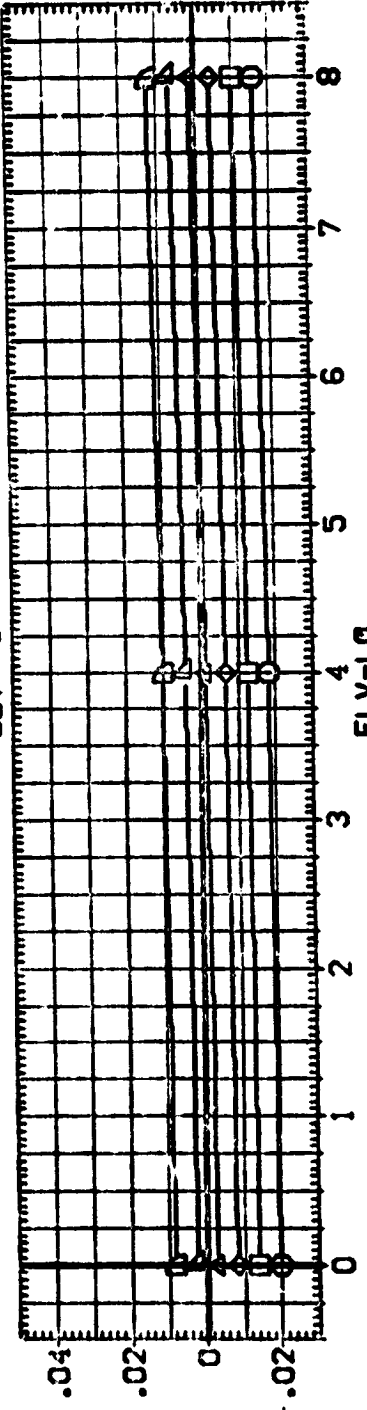
50. FT.  
IN. ES  
IN. XT  
IN. YT  
IN. ZT



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

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LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM15)

SYMBOL  
 □ ◇ △

ALPHA  
 1.962  
 4.140  
 6.308  
 8.528  
 10.709

PARAMETRIC VALUES  
 MACH .580  
 ELV-LI 4.000  
 RUDDER .000  
 BETA 4.000  
 ELV-RI 4.000  
 SPODBK .000  
 EDFLAP .000

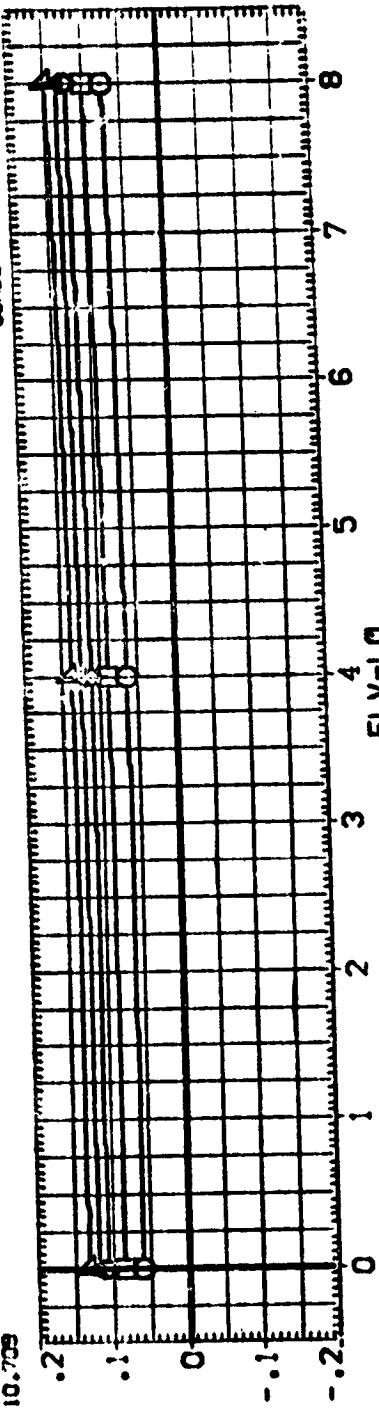
.000 DATASET  
 4.000 R-CH15  
 .000 R-CH13

DATA SOURCE  
 ELV-L0  
 .000  
 8.000

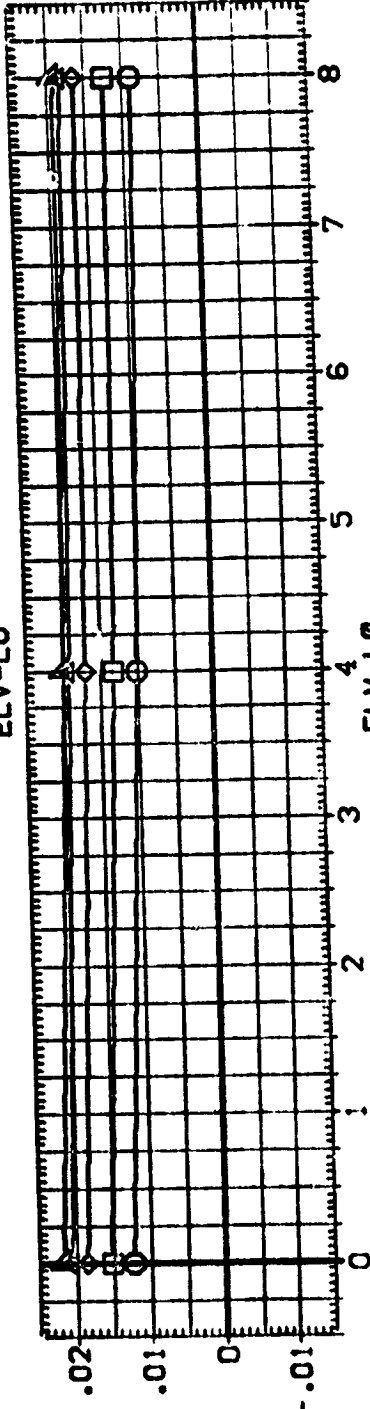
DATASET  
 R-CH14

ELV-L0 4.000  
 LREF  
 XREF  
 YREF  
 ZREF  
 SCALE

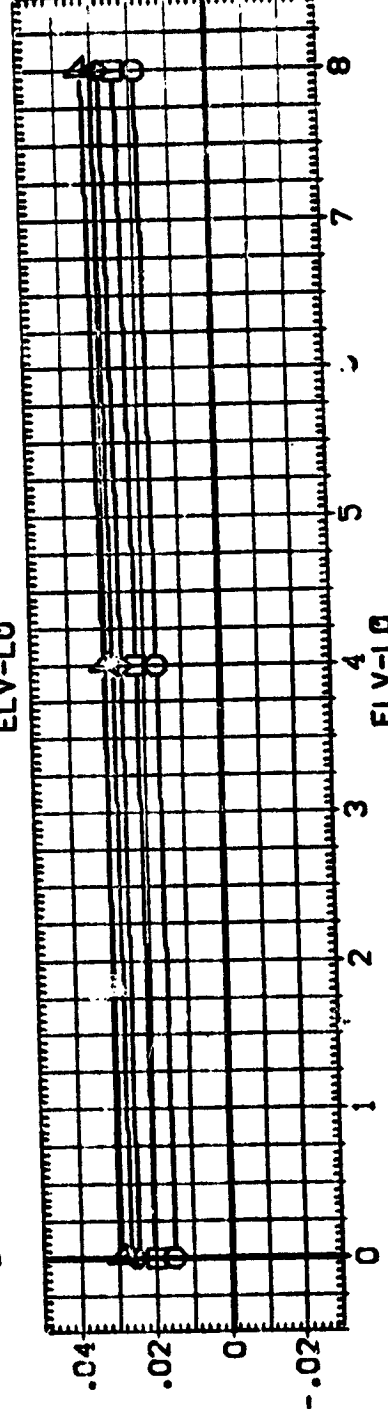
REFERENCE INFORMATION  
 SQ.FT. 250.0000  
 INCHES 120.0000  
 IN. XT 120.0000  
 IN. YI 376.0000  
 IN. ZI 400.0000  
 SCALE .0100



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM15)

REFERENCE INFORMATION  
 SO.FT. 2690.0000  
 INCHES 1290.0000  
 IN. XT 1290.0000  
 IN. YT 576.0000  
 IN. ZT 400.0000  
 SCALE .0100

PARAMETRIC VALUES  
 MACH 1.130 BETA  
 ELV-L1 4.000 ELV-R1  
 RUDDER .000 SPOBRK  
 BOFLAP .000

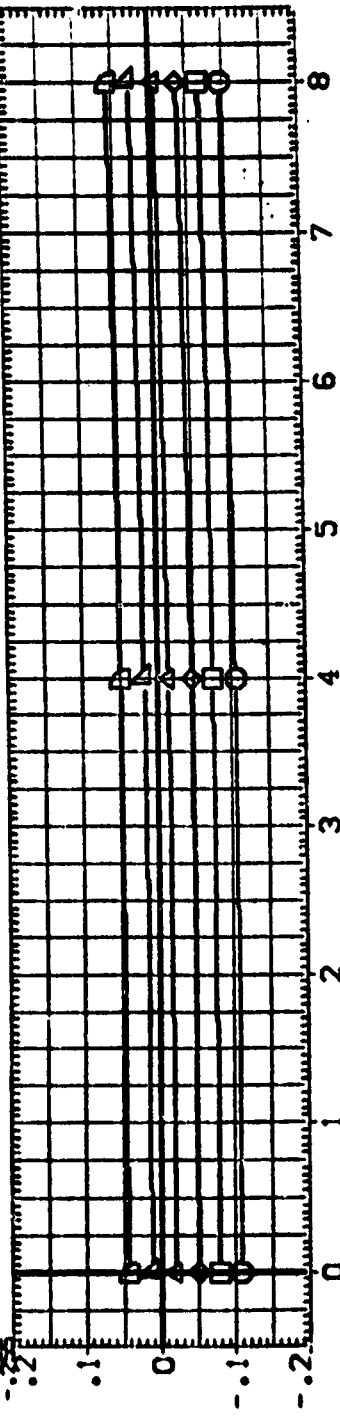
DATA SOURCE  
 ELV-LO .000  
 R-CH14 6.000

DATASET  
 .000 R-CH15  
 .000 R-CH13

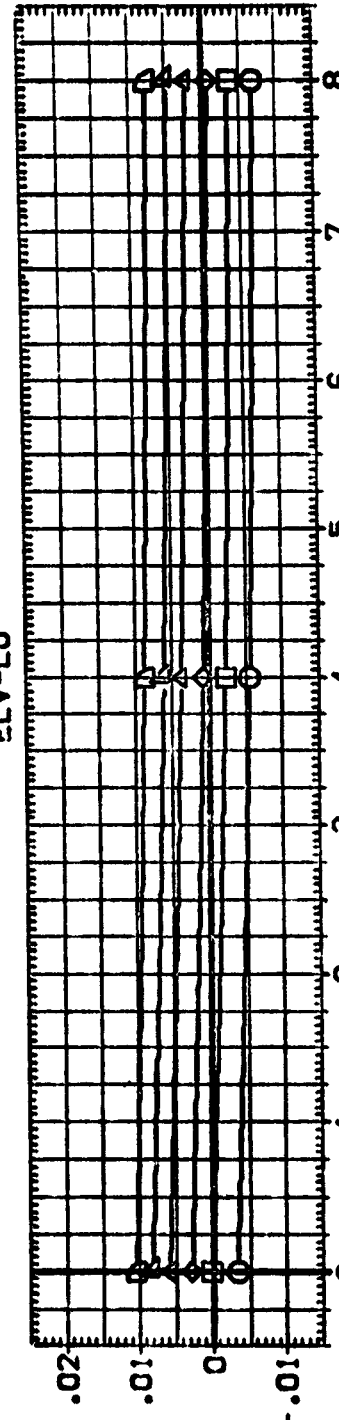
ELV-LO 4.000  
 X-REF  
 Y-REF  
 Z-REF

ALPHA -11.611  
 -9.301  
 -7.000  
 -4.741  
 -2.487

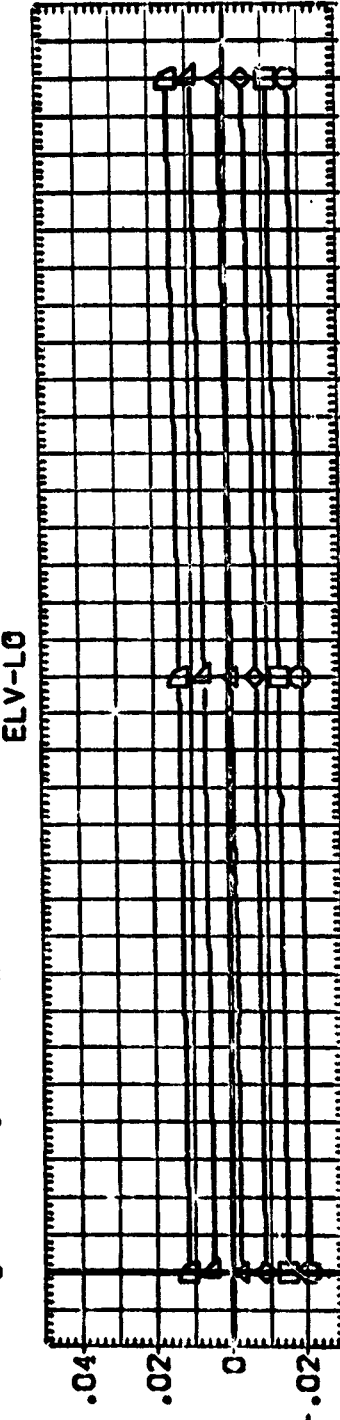
SYMBOL  
 □ ◊ ◀ ▶ ▽ ▿



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C13



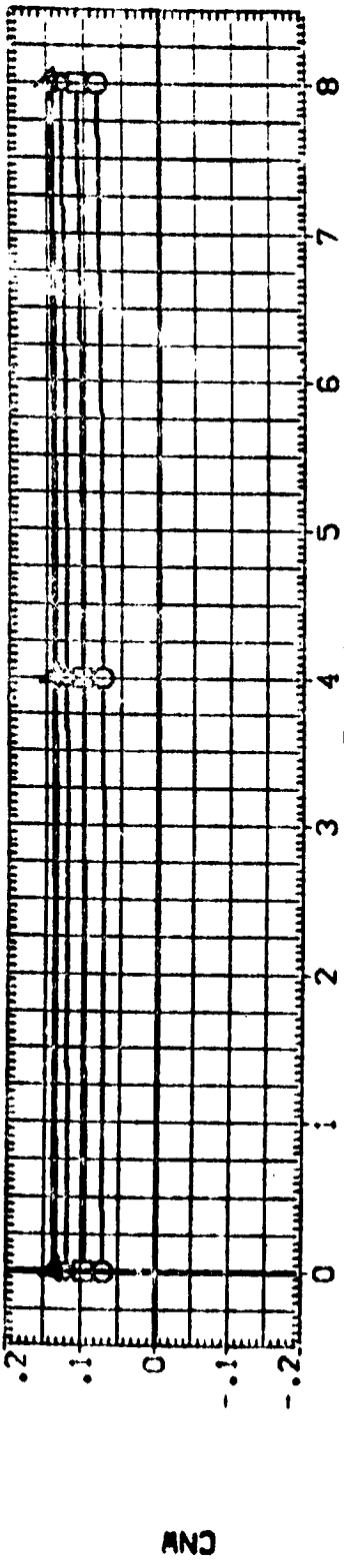
CB3

WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

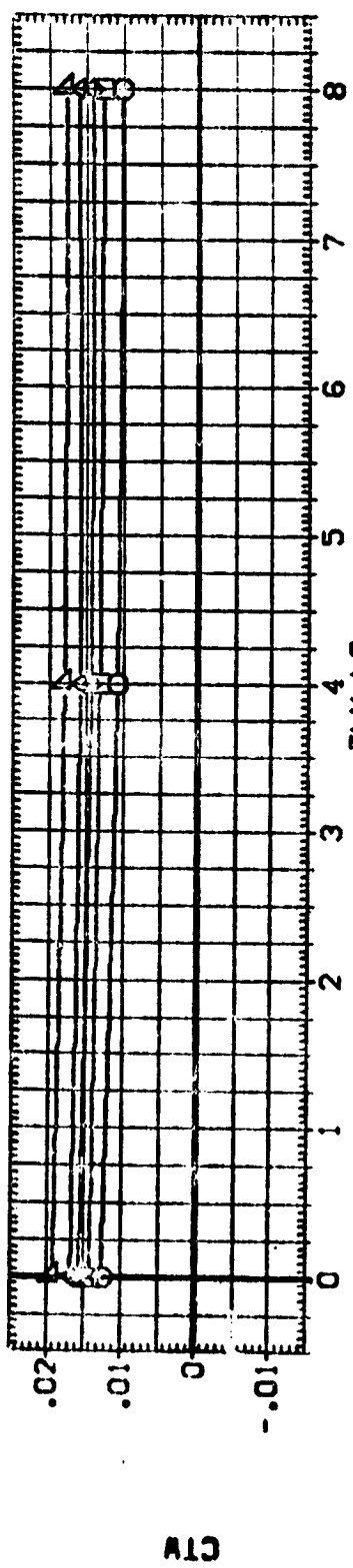
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LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM15)

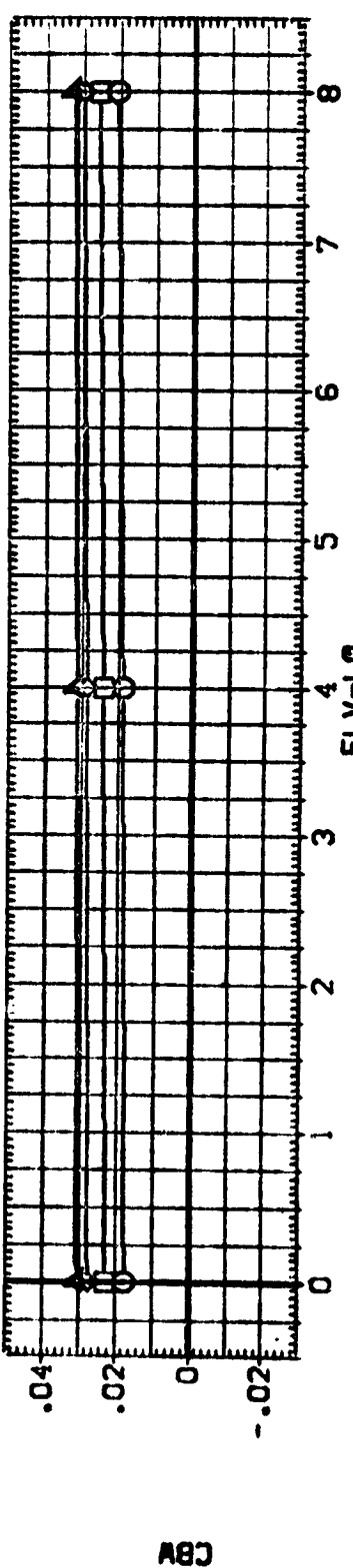
SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	1.952	MACH 1.130	ELV-LO	2600.0000 SC.FT
□	4.151	BETA 4.000	ELV-L0	1290.3000 INCHES
◇	6.374	ELV-L1 4.000	RHCM15	1290.3000 INCHES
△	8.563	RUDDER .000	RHCM13	576.0000 IN. VT
	10.763	SPOBRK .000	8.000	400.0000 IN. VT
		BDFLAP .000	SCALE	.0100



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING



LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RHCM15)

SYMB. 01010440  
 REFERENCE INFORMATION  
 SQ.FT. 2680.0000  
 INCHES 1257.3000  
 INCHES 1250.3000  
 IN. XT 976.0000  
 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100

PARAMETRIC VALUES  
 MACH 1.201  
 BETA 4.000  
 ELV-RI .000  
 SPOBRK .000

DATA SOURCE  
 ELV-LO .000  
 DATASET RHCM15  
 ELV-LO 8.000

ELV-LO 4.000  
 DATASET RHCM14

SYMB. 01010440  
 REFERENCE INFORMATION  
 SQ.FT. 2680.0000  
 INCHES 1257.3000  
 INCHES 1250.3000  
 IN. XT 976.0000  
 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100

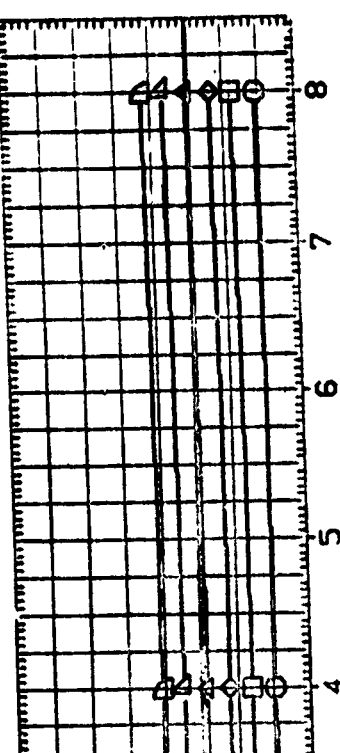
PARAMETRIC VALUES  
 MACH 1.201  
 BETA 4.000  
 ELV-RI .000  
 SPOBRK .000

DATA SOURCE  
 ELV-LO .000  
 DATASET RHCM15  
 ELV-LO 8.000

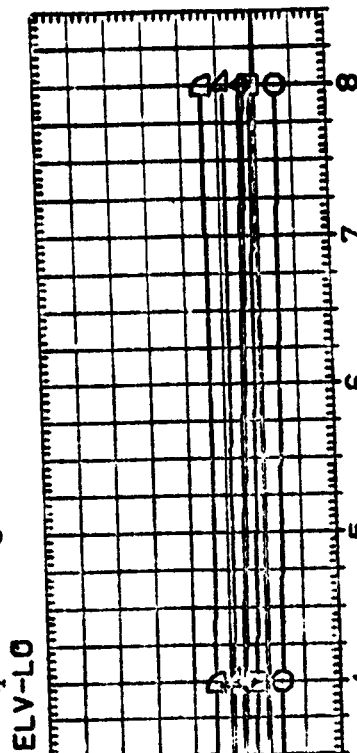
ELV-LO 4.000  
 DATASET RHCM14

SYMB. 01010440  
 REFERENCE INFORMATION  
 SQ.FT. 2680.0000  
 INCHES 1257.3000  
 INCHES 1250.3000  
 IN. XT 976.0000  
 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100

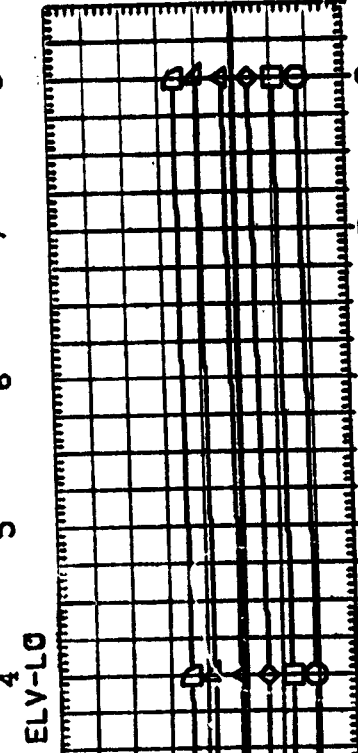
PARAMETRIC VALUES  
 MACH 1.201  
 BETA 4.000  
 ELV-RI .000  
 SPOBRK .000



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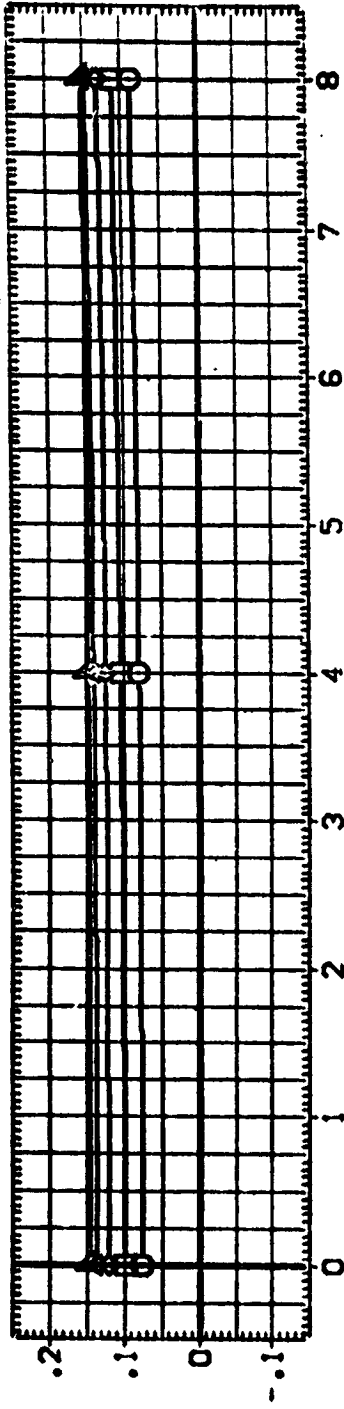
CBW

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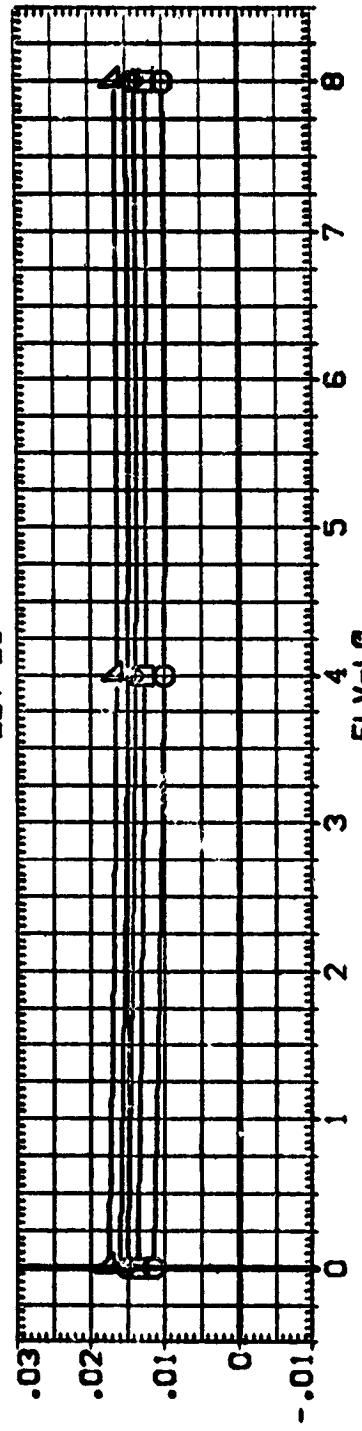
WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

LARC 8-TPT-693 (JA43) CONFIGURATION 02/T4/S7 (RHCM15)

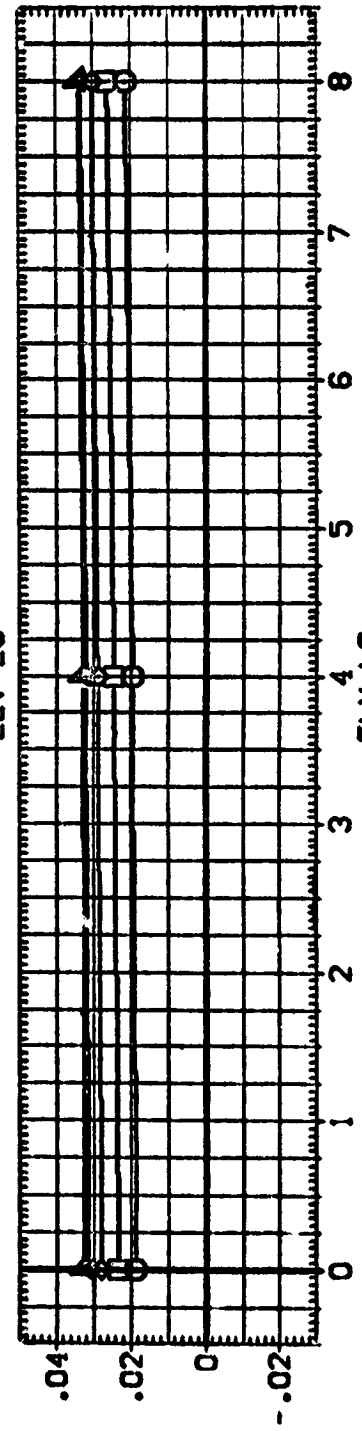
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	1.564	ELV-LI	.000 BETA	ELV-L0	2650.0000 SO.FT.
◇	4.156	RUDDER	4.000 ELV-RI	R-CH14	1250.3000 INCHES
△	6.367	DEF.LAP	.000 SPOBRK	R-CH15	1250.3000 IN. XT
▽	8.562		.000	R-CH13	976.0000 IN. YT
	10.807			ZWRP	400.0000 IN. ZT
				SCALE	.0100



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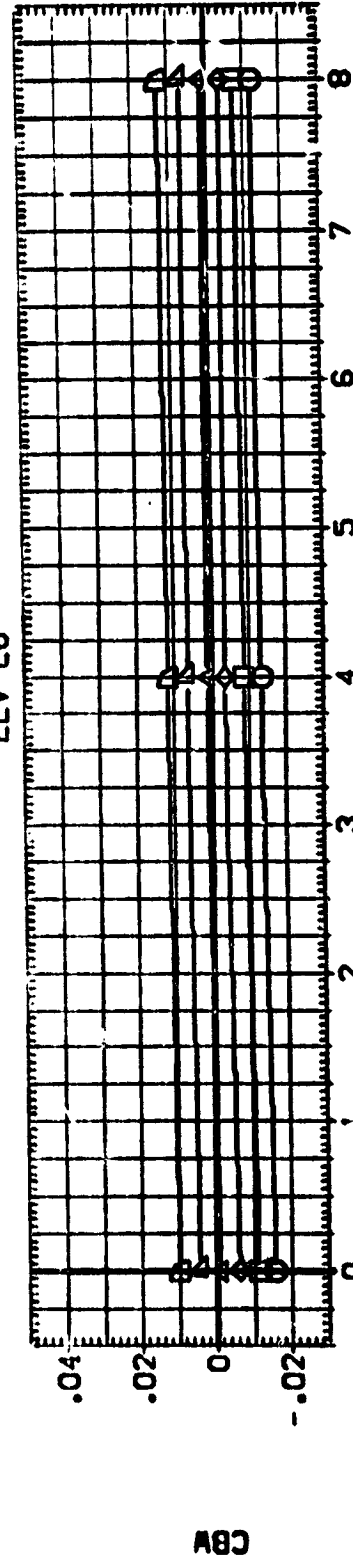
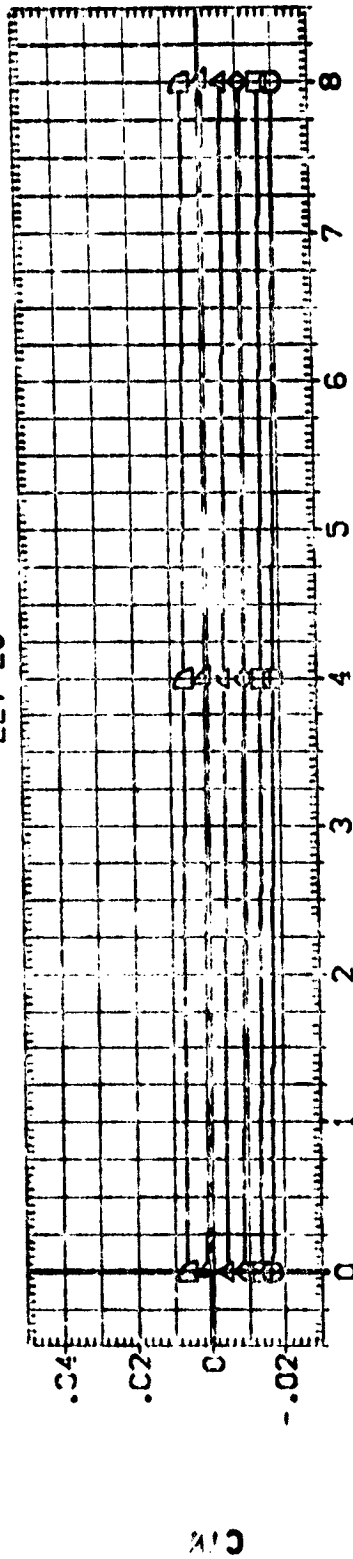
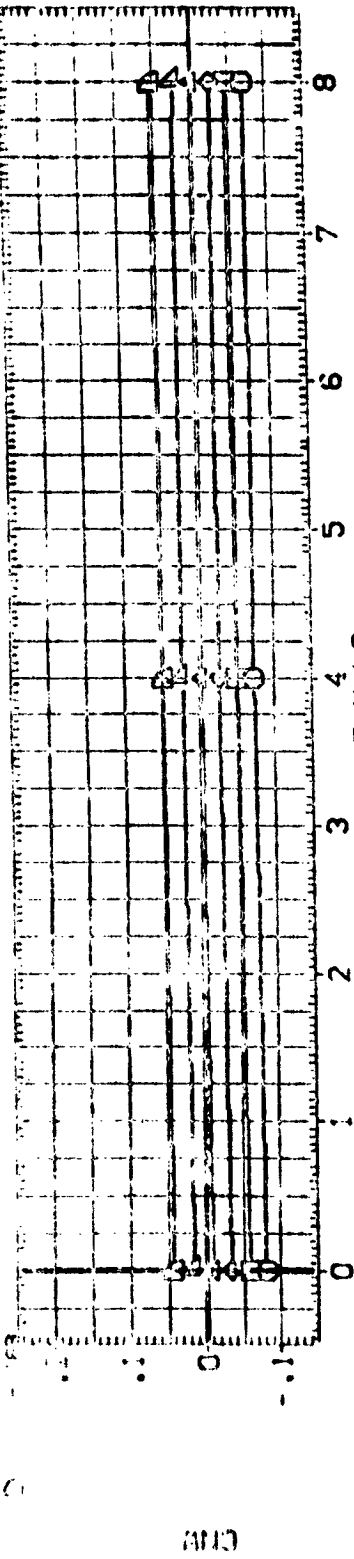
WING LOAD FOR CONSTANT INBOARD ELEVON SETTING





LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RCHM10)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	.000	DATASET	ELV-L0	DATA SOURCE	DATASET	ELV-L0	SREF	REFERENCE INFORMATION
012440	-11.136	.570	BETA	8.000	R-CHM10	.000	R-CHM11	4.000	LREF	2650.0000	SO.FT.
	-8.901	.000	ELV-R1	.000	R-CHM12	8.000			LREF	1290.3000	INC-ES
	-5.711	.000	SPDRK	.000					XMRP	1250.3000	INC-ES
	-4.516	.000							VMRP	976.0000	N. Y.
	-2.319								ZMRP	400.0000	N. Y.
									SCALE	.0100	N. Z.



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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (RHCM10)

REFERENCE INFORMATION  
 SQ.FY 2630.0000  
 INCHES 1230.3000  
 IN. XT 1280.3000  
 IN. YT 576.0000  
 IN. ZT 400.0000  
 SCALE .0100

DATA SOURCE  
 ELV-LO 4.000  
 R-CH11 8.000

PARAMETRIC VALUES  
 BETA .900  
 ELV-RI 8.000  
 SPOBRK .000

MACH 2.013  
 ELV-L1 4.166  
 RUDDER 6.341  
 BOFLAP 8.529  
 10.668

DATA SOURCE  
 ELV-LO .000  
 R-CH10 8.000

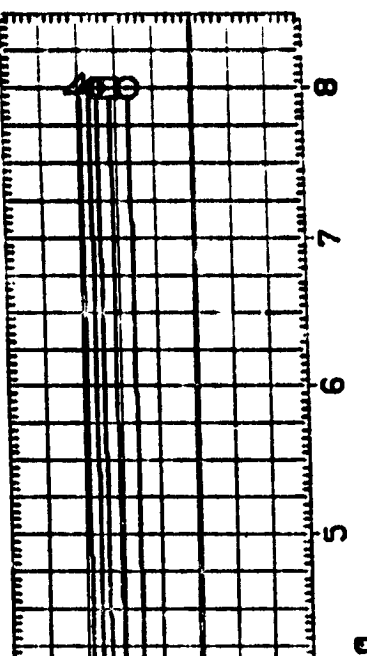
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 SPOBRK .000

MACH 2.013  
 ELV-L1 4.166  
 RUDDER 6.341  
 BOFLAP 8.529  
 10.668

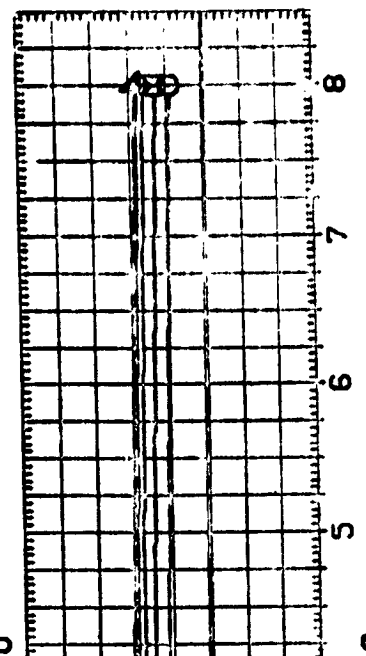
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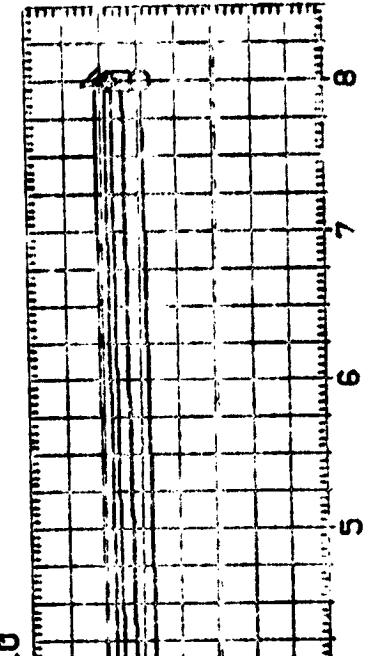
MACH 2.013  
 ELV-L1 4.166  
 RUDDER 6.341  
 BOFLAP 8.529  
 10.668



CNC



C10



C11

WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

ARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RHCMI0)

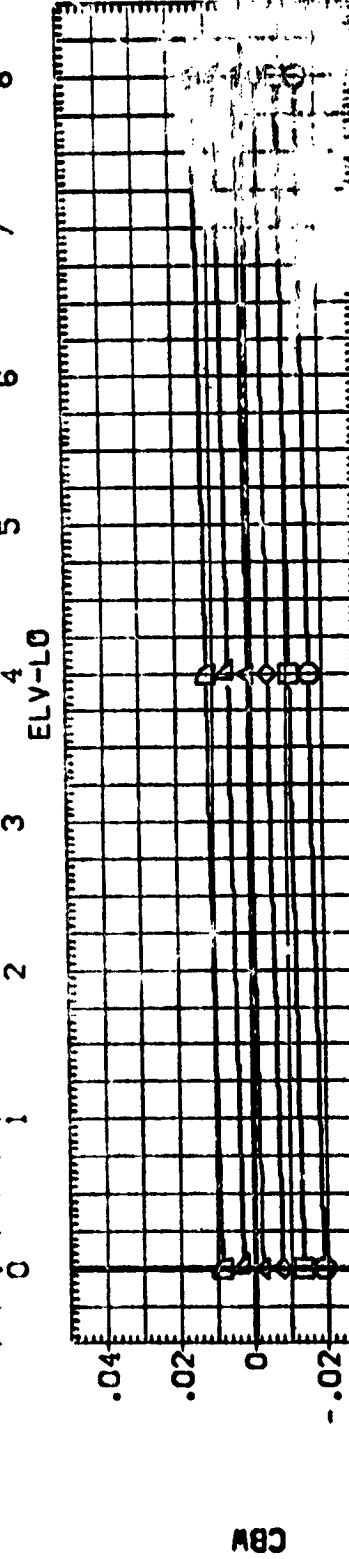
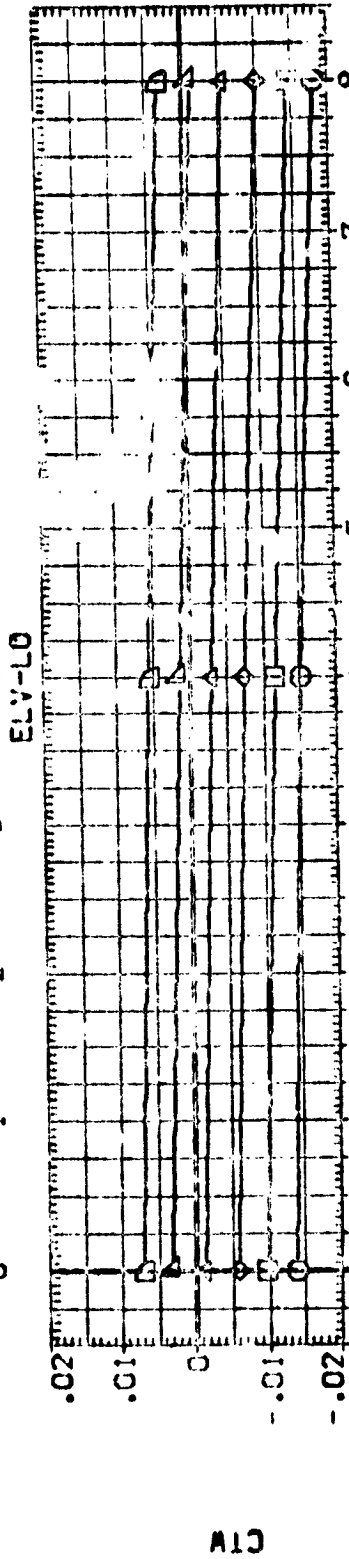
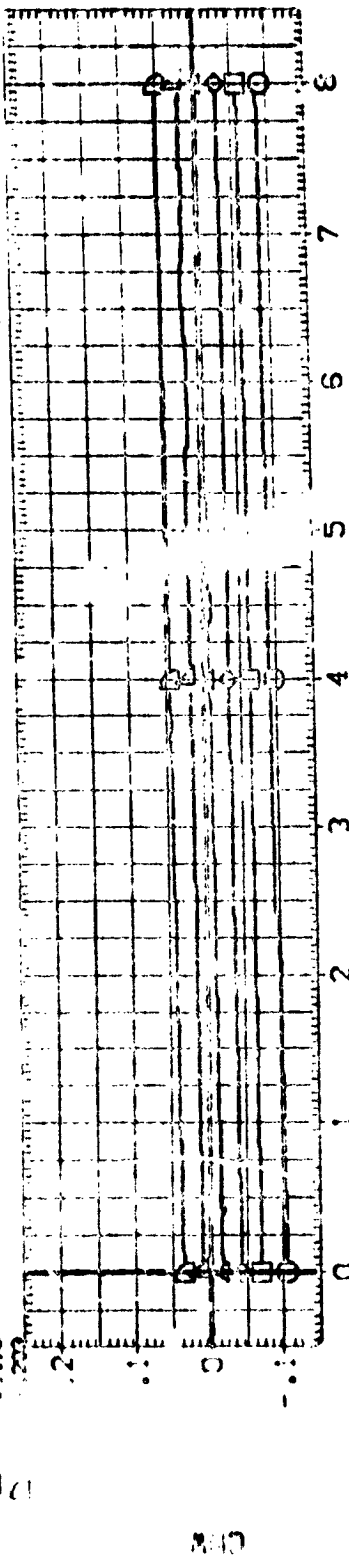
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 INCHES 2590.0000  
 IN. AT 2590.0000  
 IN. VY 2590.0000  
 IN. ZT 2590.0000  
 SREF 2590.0000  
 LREF 2590.0000  
 XREF 2590.0000  
 YREF 2590.0000  
 ZREF 2590.0000  
 SCALE .0100

DATA SOURCE  
 ELV-LO 4.000  
 RCH-11 8.000  
 DATASET RCH-11  
 RCH-12

PARAMETRIC VALUES  
 BEA .000  
 RCH-11 8.000  
 RCH-12 8.000  
 ELV-LO 4.000  
 ELV-PT 8.000  
 SPDRK .000  
 EDV-LO .000

ALFA 11.369  
 BETA 9.283  
 GAMMA 6.837  
 DELTA 4.630  
 EPSILON 2.413

SP003 0015440

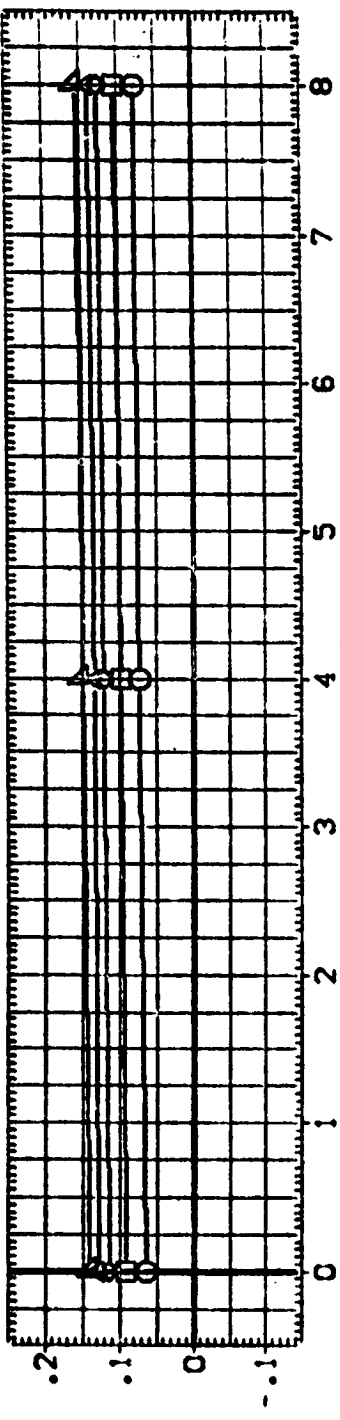


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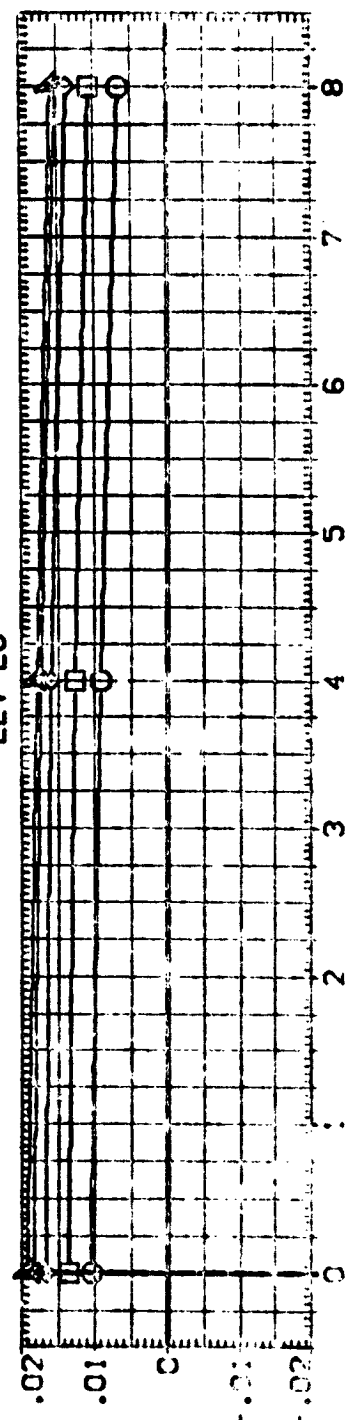
WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

ARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (RHCMI0)

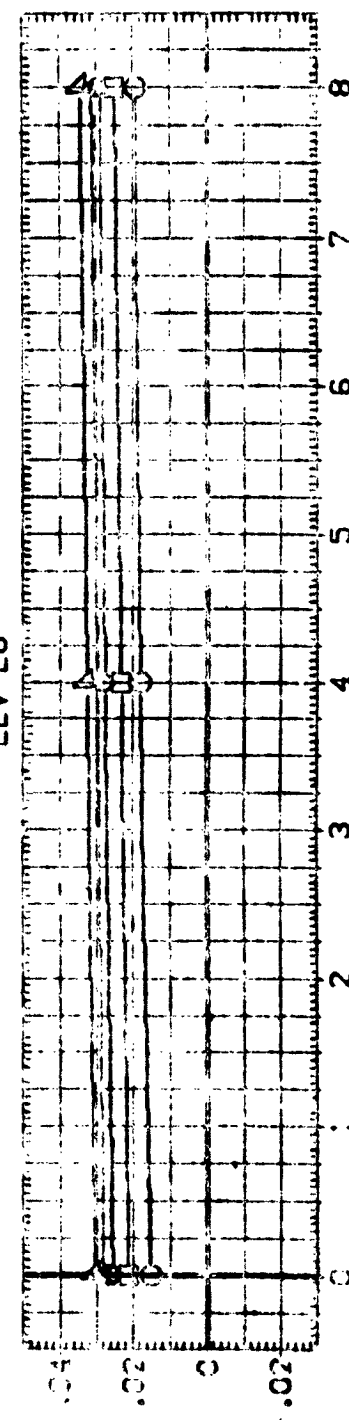
SYMB.		PARAMETRIC VALUES				DATA SOURCE		DATASET		ELV-LO		SREF		REFERENCE INFORMATION	
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◇	△	ELV-LI	0.000	ELV-RI	0.000	R-CH10	0.000	R-CH12	0.000	LREF	1250.3000	INCHES	IN. YI	IN. ZI	
		RUDER	.000	SPOBRK	.000	R-CH12	0.000			BREF	1250.3000	IN. XT	IN. YI	IN. ZI	
		BDFLAP	.000							XWRP	976.0000	IN. YI	IN. ZI		
										ZWRP	400.0000	IN. YI	IN. ZI		
										SCALE	.0100				



CNW



C10

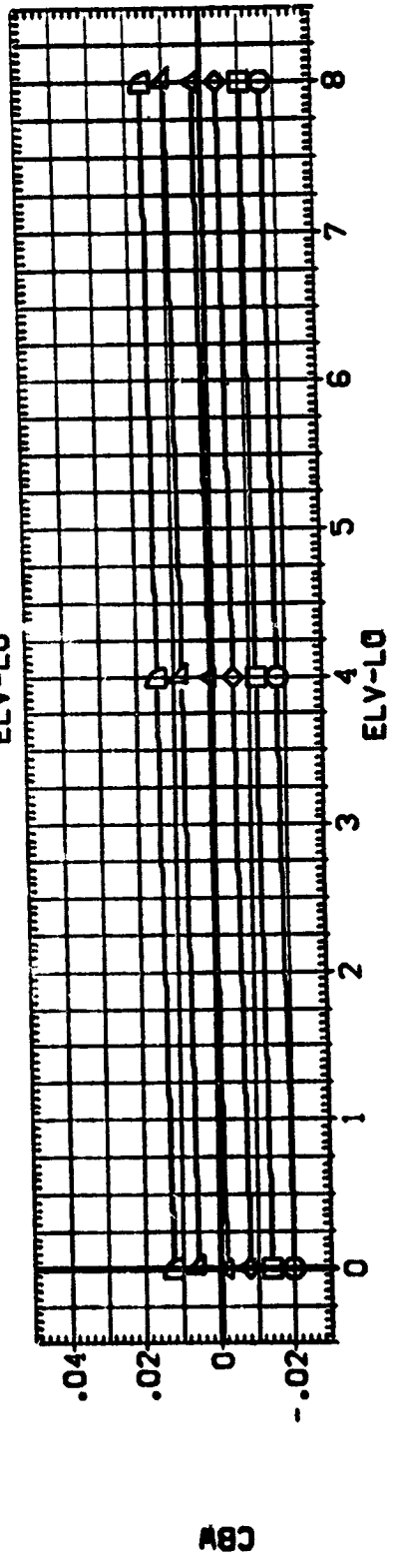
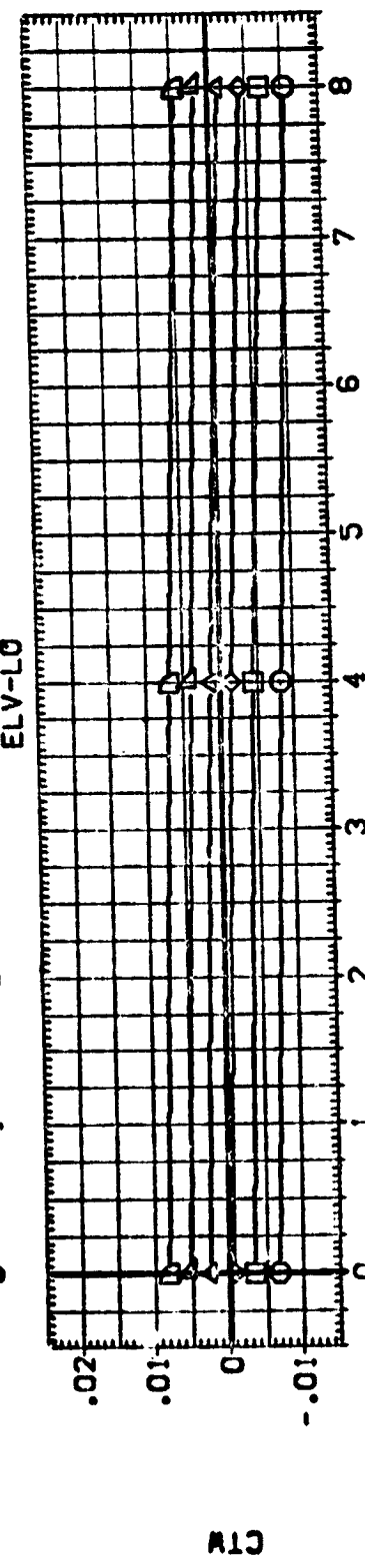
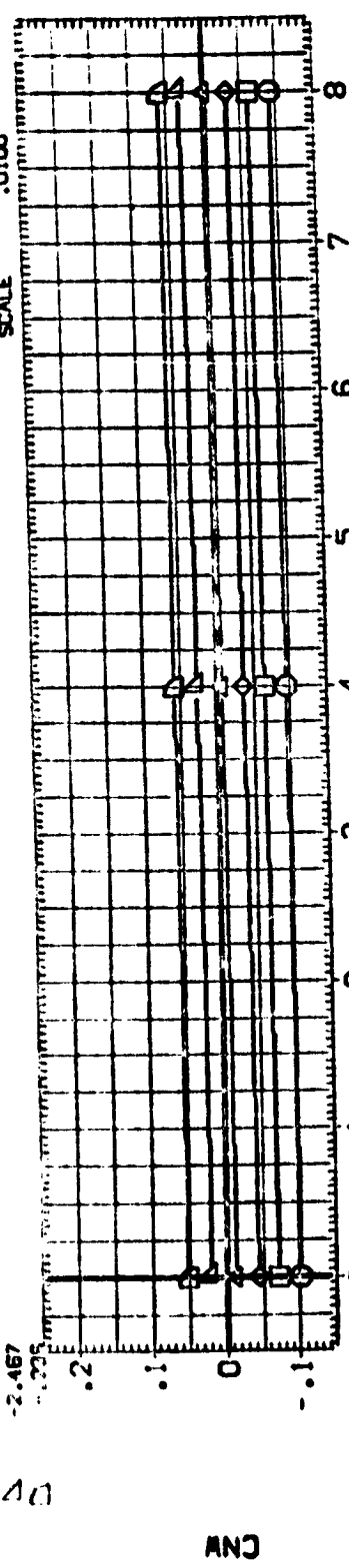


C12

WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

ARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (RHCM10)

SYMBL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATASET	ELV-L0	SREF	REFERENCE INFORMATION
	-11.552	1.120	BETA	ELV-L0	R-CH11	4.000	2690.0000	SO.FT.
	-9.273	8.000	ELV-R1	.000	R-CH10	.000	1290.3000	INC-ES
	-6.963	.000	SPOBRK	8.000	R-CH12	8.000	1290.3000	INCL-ES
	-4.711	.000					575.0000	IN. XT
	-2.467	.000					400.0000	IN. YT
							.0100	IN. ZT
								SCALE

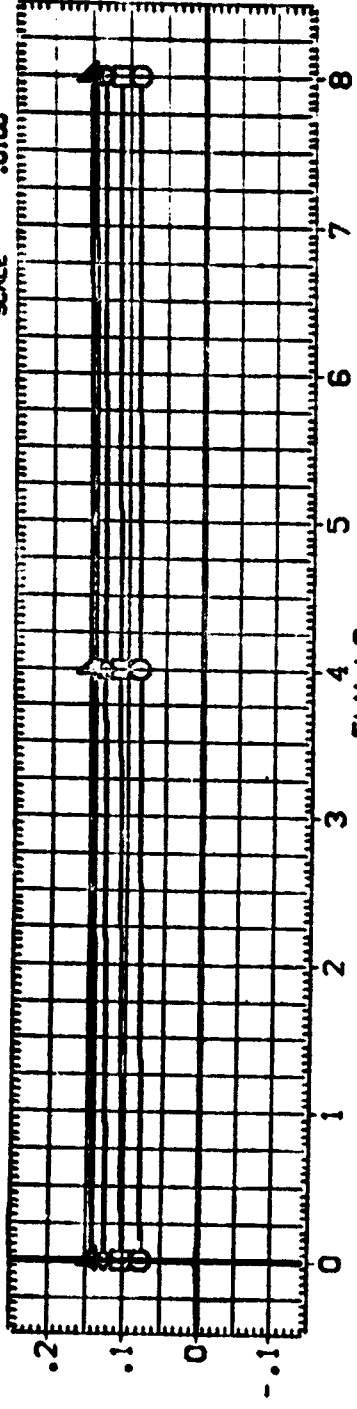


WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

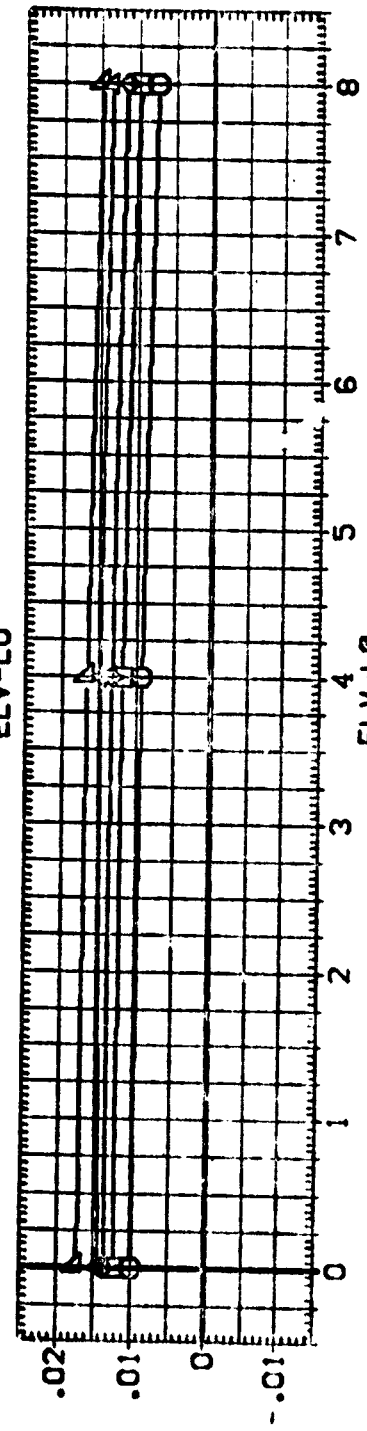
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ARC 3-15-69 (A43) CONFIGURATION 12/1/57 (RFDM10)

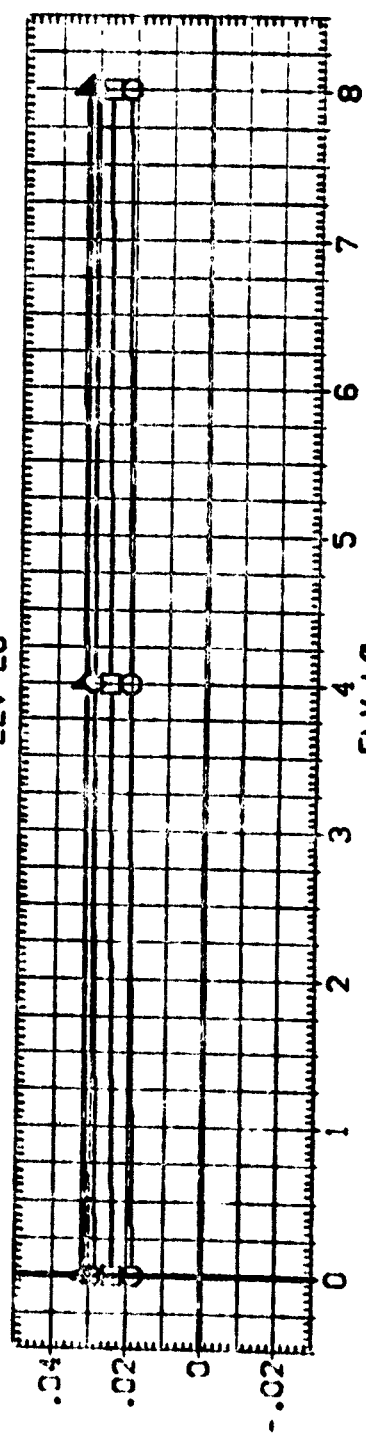
SYMBOL	PARAMETRIC VALUES	DATA SOURCE	DATASET	REFERENCE INFORMATION
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□	BETA 8.000	ELV-L1	R-CH12	1150.3000 INCHES
◇	ELV-LI 8.000	ELV-L2		1230.3000 INCHES
△	RUDER .000	R-CH13		576.0000 IN. XT
△	SPOBRK .000	R-CH14		400.0000 IN. YI
△	EDFLAP .000	R-CH15		400.0000 IN. ZI
				SCALE .0100



CNM



CMJ



CBW

WING LOAD FOR CONSTANT INBOARD ELEVON SETTING



LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (RHCM10)

SYMBOL  
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 044000  
 044000  
 044000  
 044000

ALPHA  
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 -9.102  
 -7.303  
 -4.714  
 -2.469

MACH  
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 0.000  
 0.000  
 0.000  
 0.000

ELV-LI  
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 0.000  
 0.000  
 0.000  
 0.000

RJGGER  
 0.000  
 0.000  
 0.000  
 0.000  
 0.000

BDFLAP  
 0.000  
 0.000  
 0.000  
 0.000  
 0.000

PARAMETRIC VALUES  
 BETA  
 ELV-RI  
 SPUSRK

DATA SOURCE  
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 0.000  
 0.000

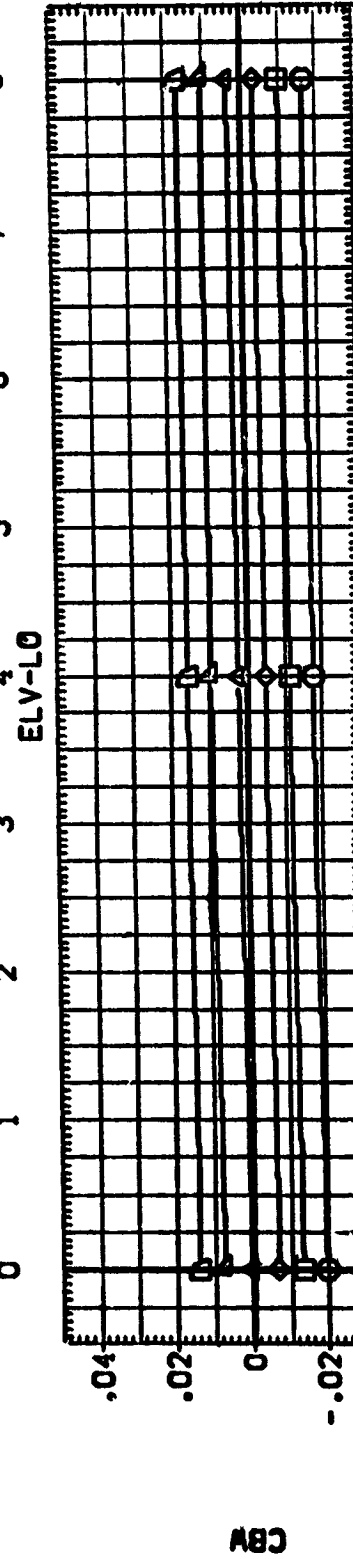
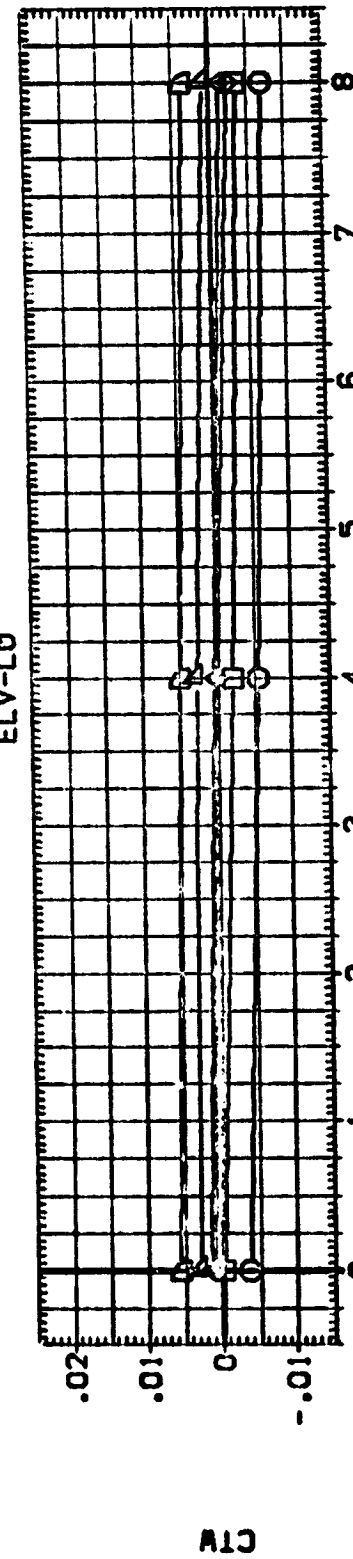
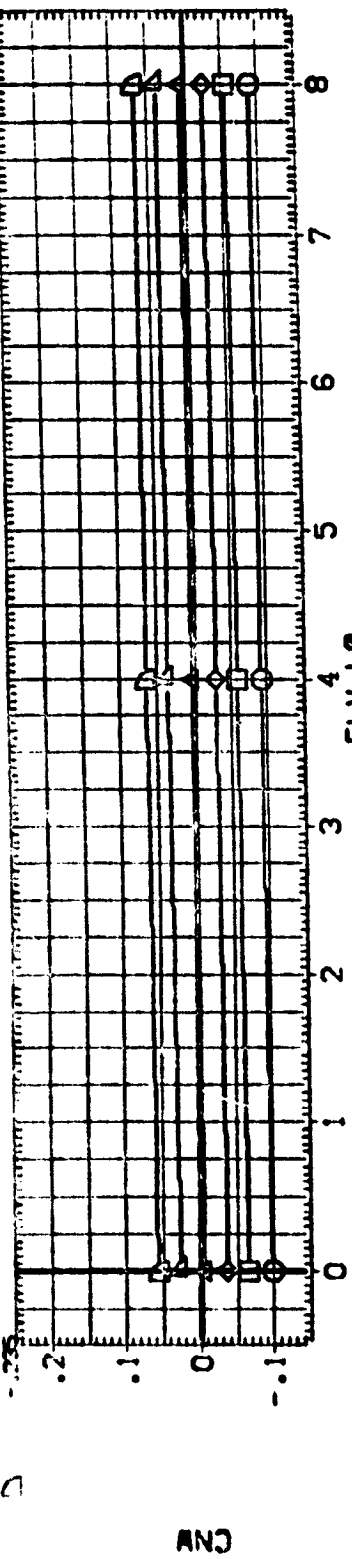
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DATA SET  
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 RHCM11  
 RHCM12

STREF  
 LREF  
 BREF  
 XMRP  
 YMRP  
 ZMRP  
 SCALE

2690.0000  
 1290.3000  
 1290.3000  
 376.0000  
 400.0000  
 .0100

SO.FT  
 INCHES  
 IN. XT  
 IN. YT  
 IN. ZT

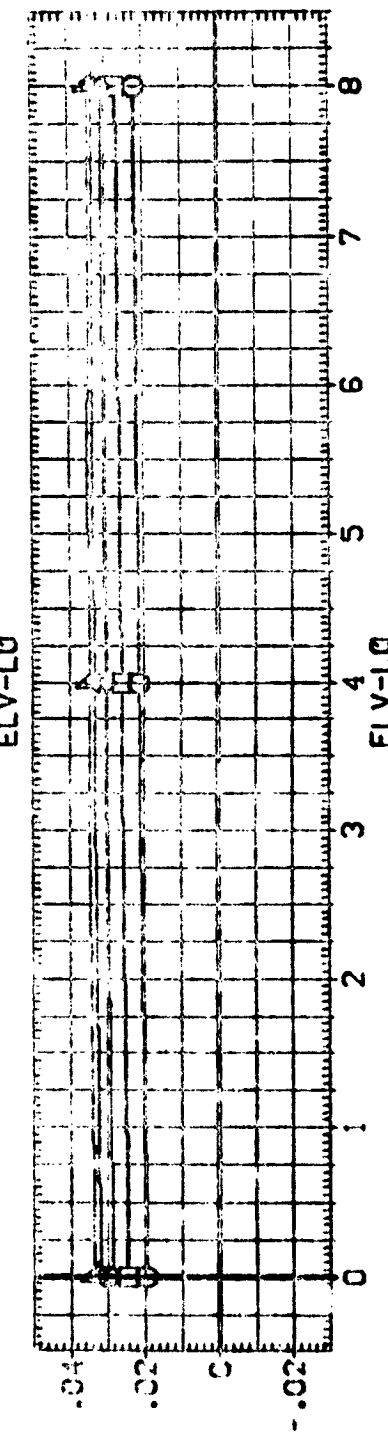
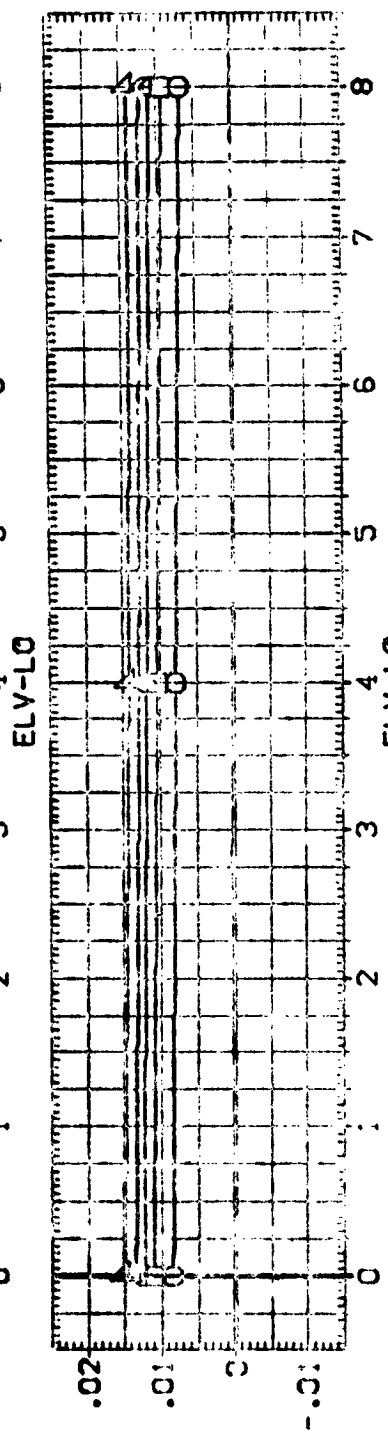
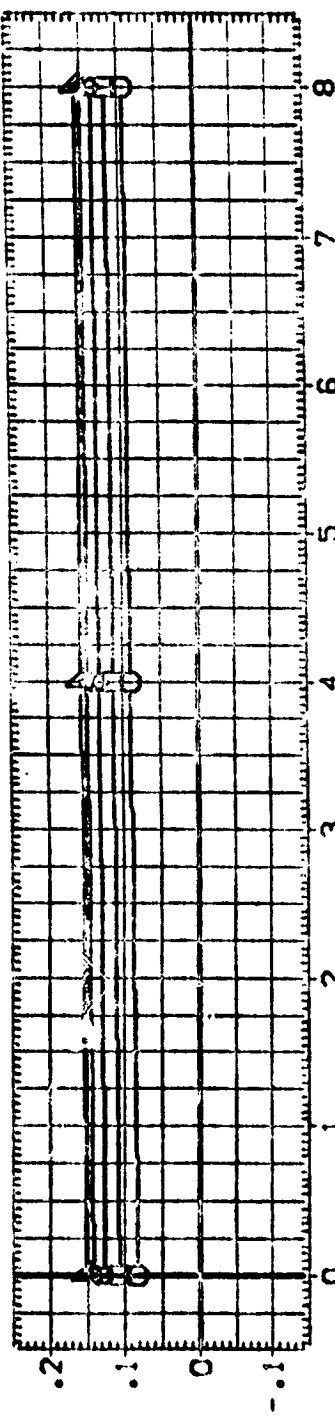


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WING LOAD FOR CONSTANT INBOARD ELEVON SETTING

LARC 8-TPT-693 (IA43) CONFIGURATION 02/24/57 (RHCM10)

ST030  
 011044  
 ALPHA 1.959 MACH 1.700 BETA .000 DATASET ELV-LO 4.000 SREF 0.000  
 4.180 ELV-LI 8.000 ELV-RI 8.000 R-CH11 R-CH11 4.000 L-REF 120.000  
 6.407 RUDDER .000 SPOBRK .000 R-CH12 8.000 BREF 120.000  
 8.582 BDFLAP .000 XMRP 376.00000 N. XT  
 10.815 ZMRP 100.00000 N. YI  
 N. ZI  
 REFERENCE INFORMATION  
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 SCALE .0100



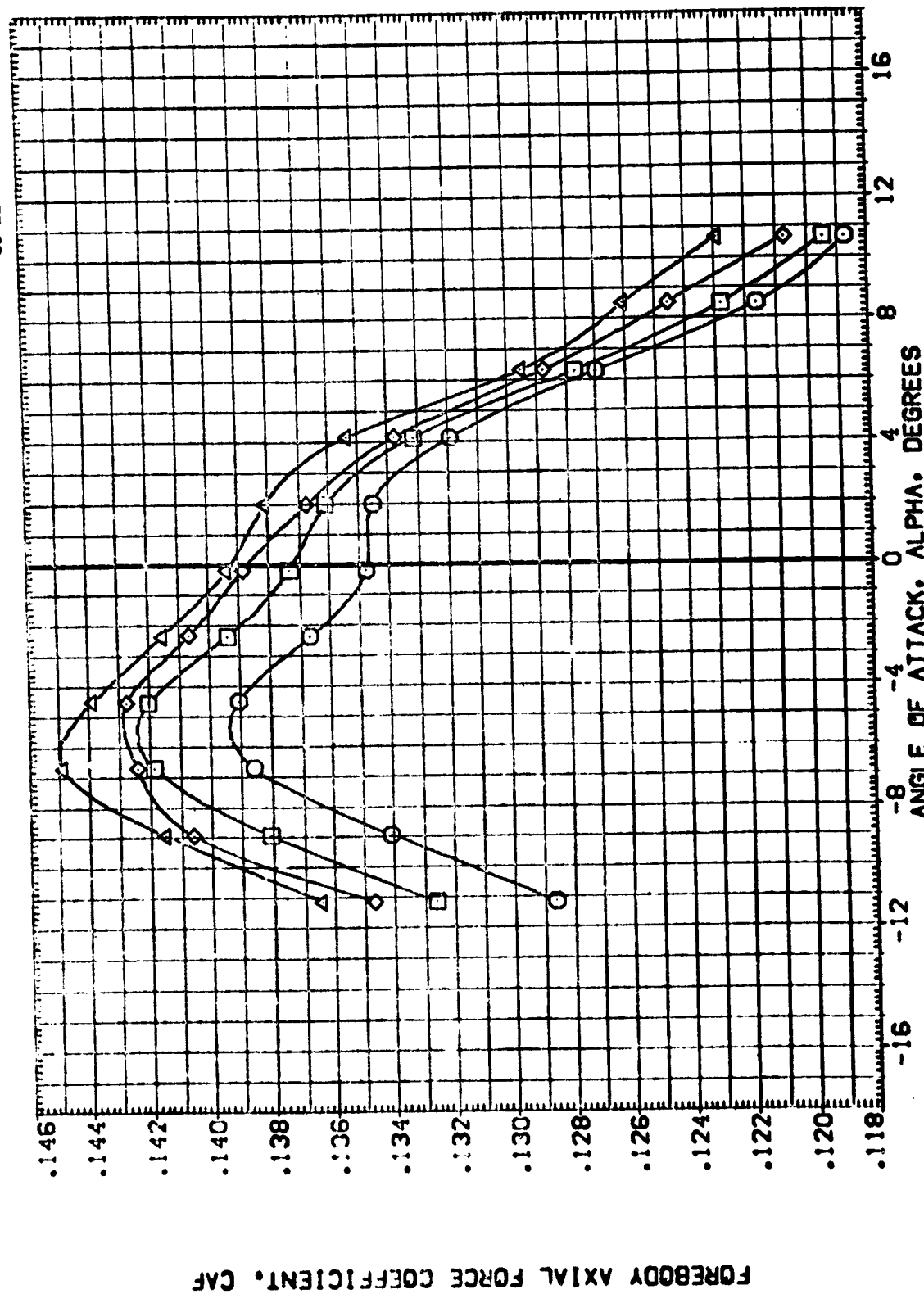
WING LOAD FOR CONSTANT INBOARD ELEVON SETTING



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 XPRP 975.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
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 4.000 4.000 4.000 4.000  
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CONFIGURATION DESCRIPTION  
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 LARC 8-TPT-893 (1A43) 02/14/57  
 LARC 8-TPT-893 (1A43) 02/14/57  
 LARC 8-TPT-893 (1A43) 02/14/57



FOREBODY AXIAL FORCE COEFFICIENT, CAF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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 [B-C014]  
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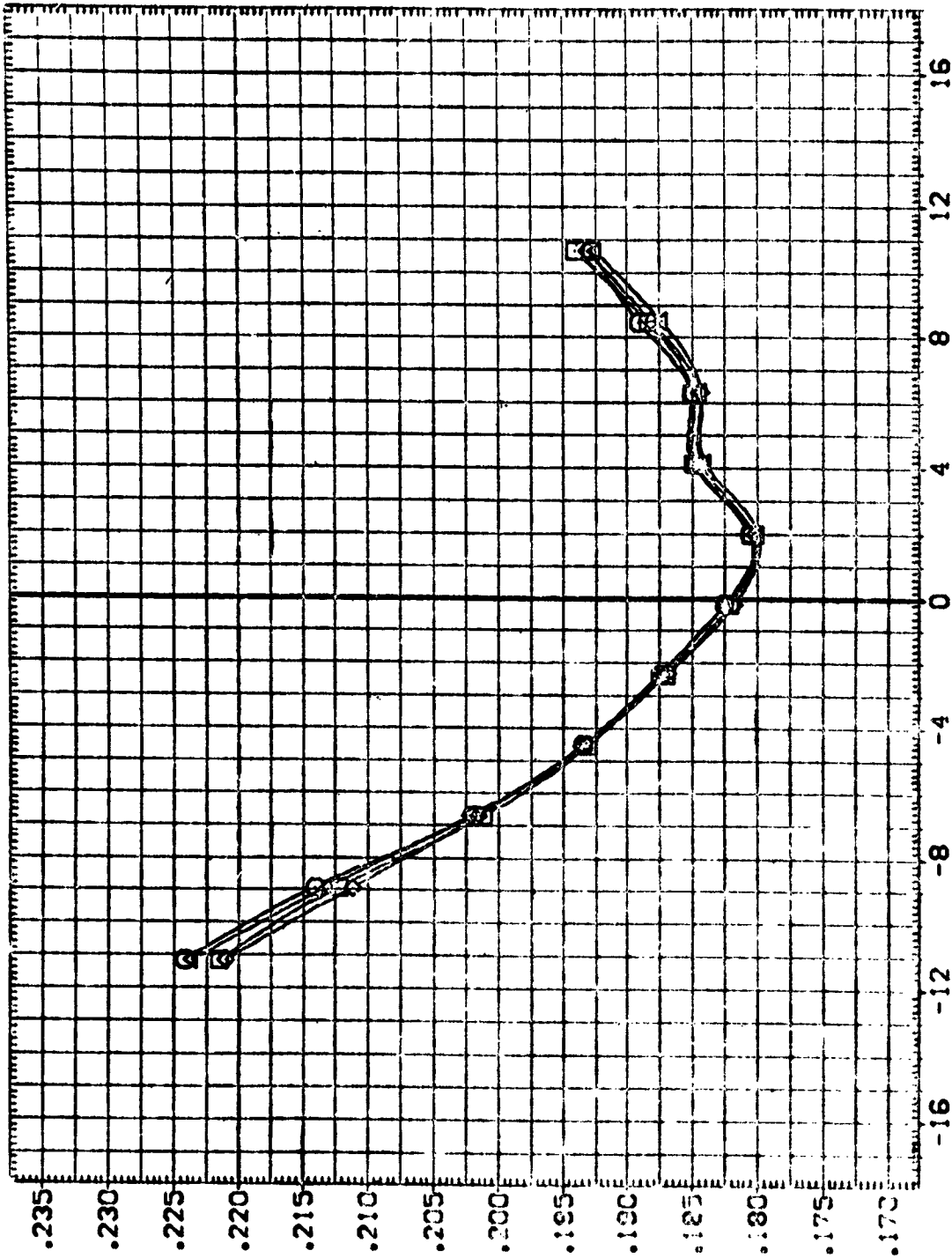
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ELV-LD ELV-LI ELV-RJ ELV-RD  
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 .000 4.000 .000 .000  
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REFERENCE INFORMATION  
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 BREF 1290.3000  
 XMRP 976.0000  
 ZMRP 400.0000  
 SCALE .0100

IN. FT.  
 IN. IN.  
 IN. FT.  
 IN. FT.

BASE AXIAL FORCE COEFFICIENT, CAB



EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .90

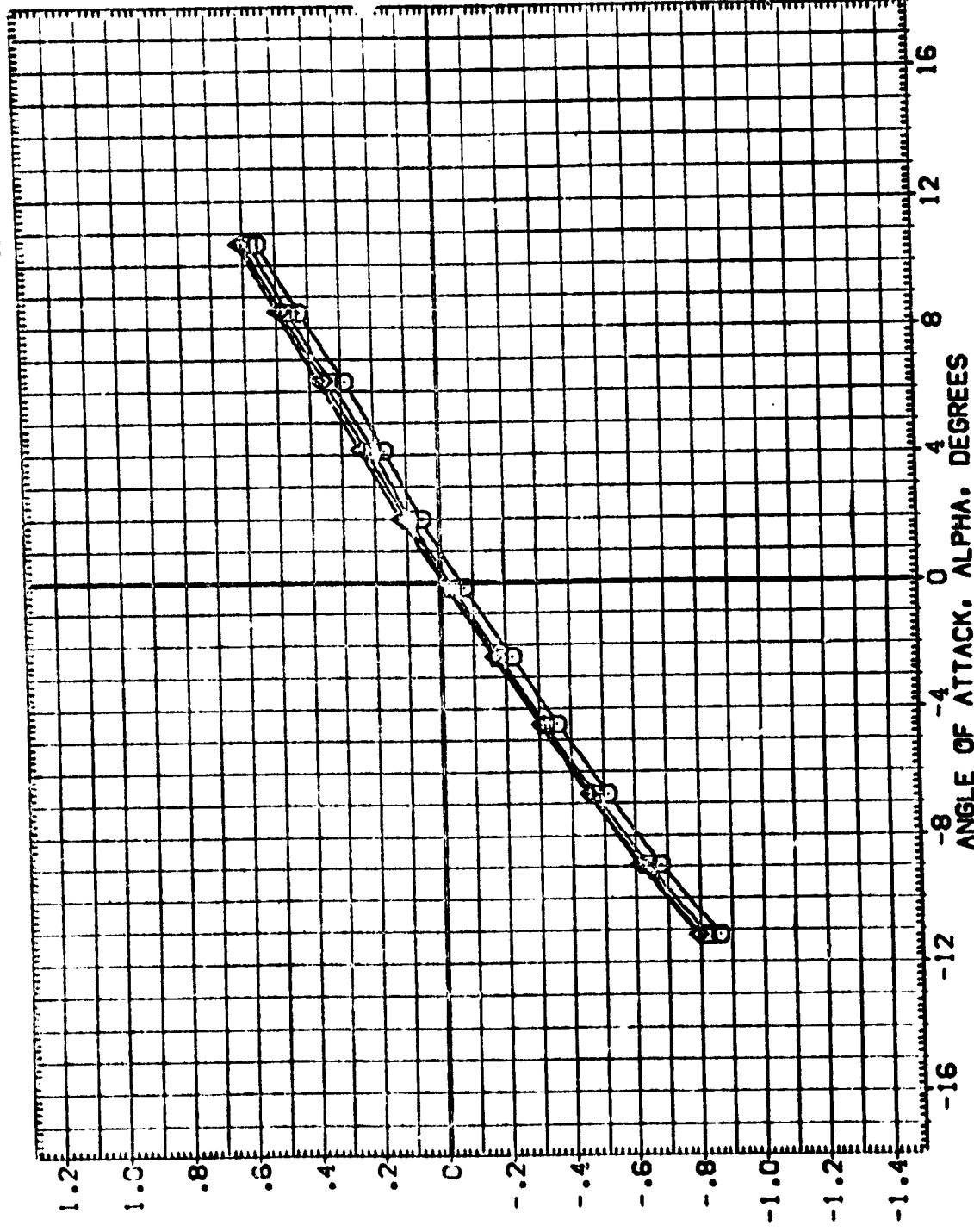
PAGE 142



REFERENCE INFORMATION  
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 IN. XT 1250.0000  
 IN. YI 975.0000  
 IN. ZI 400.0000  
 SCALE .0100

ELV-LB ELV-LI ELV-RI ELV-RB  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

CONFIGURATION DESCRIPTION  
 CASE 01-PT-533 (1443) COV. SURFACE  
 CASE 01-PT-533 (1443) COV. SURFACE  
 CASE 01-PT-533 (1443) COV. SURFACE  
 CASE 01-PT-533 (1443) COV. SURFACE  
 DATE 02/14/57  
 DATE 02/14/57  
 DATE 02/14/57  
 DATE 02/14/57



FOREBODY NORMAL FORCE COEFFICIENT • CNF

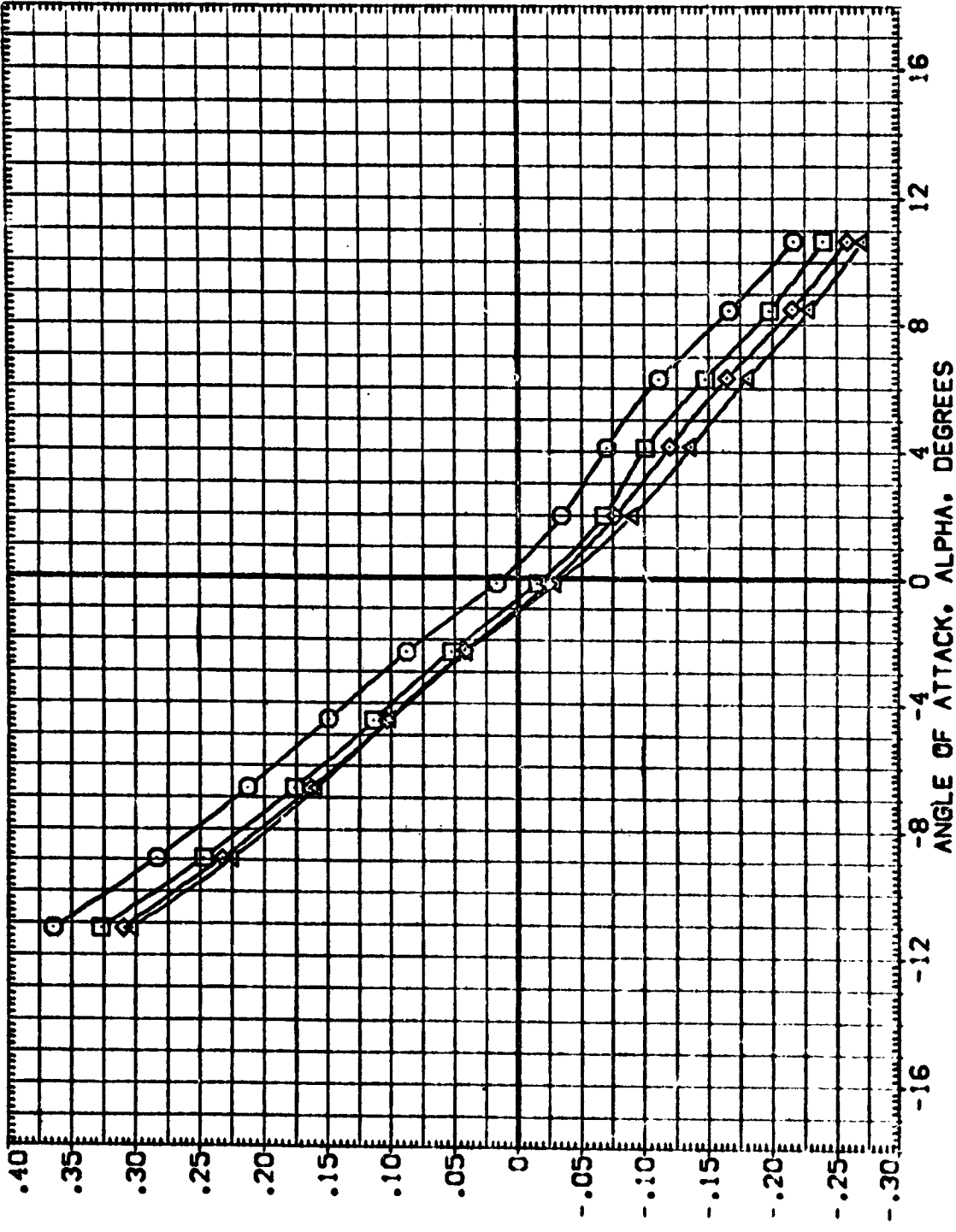
EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    DATE  
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 {B-C015}    LARC 8-TPT-693 {A43} CONFIGURATION    02/14/57  
 {B-C014}    LARC 8-TPT-693 {A43} CONFIGURATION    02/14/57  
 {B-C013}    LARC 8-TPT-693 {A43} CONFIGURATION    02/14/57

ELV-L0    ELV-L1    ELV-R1    ELV-R0  
 .000    .000    .000    .000  
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 4.000    4.000    4.000    4.000  
 8.000    4.000    8.000    8.000

REFERENCE INFORMATION  
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 BREF    1250.3000    INCHES  
 XMRP    976.0000    IN. XT  
 ZMRP    400.0000    IN. ZT  
 SCALE    400.0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLMP



EFFECT OF EELON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .90

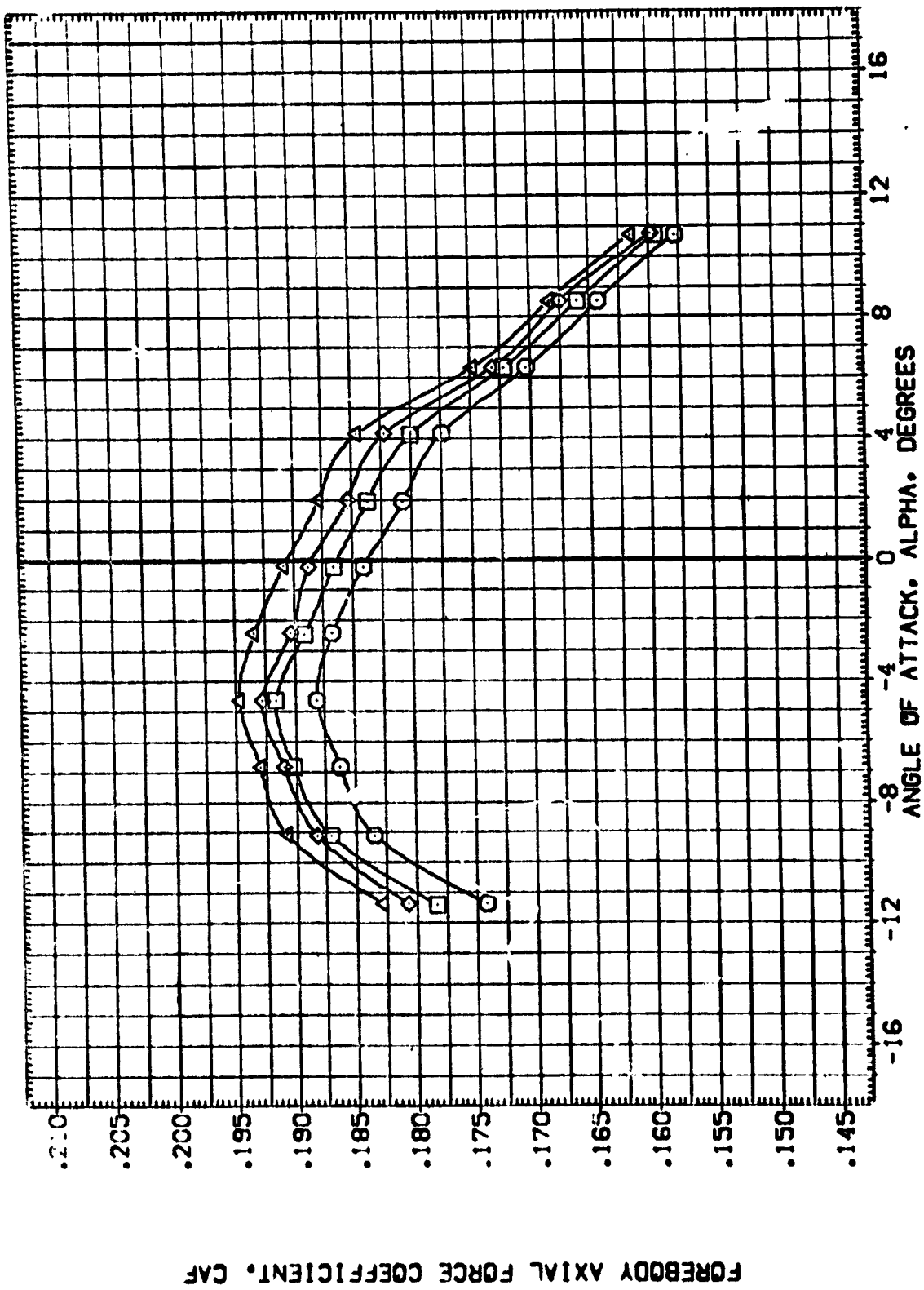
PAGE 144



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 BREF 1280.3000 INCHES  
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 Y-RRP 400.0000 IN. YT  
 Z-RRP 400.0000 IN. ZT  
 SCALE .0100

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 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 (02-001) LANC 8-TPT-693 (A43) CONFIGURATION 02/14/57  
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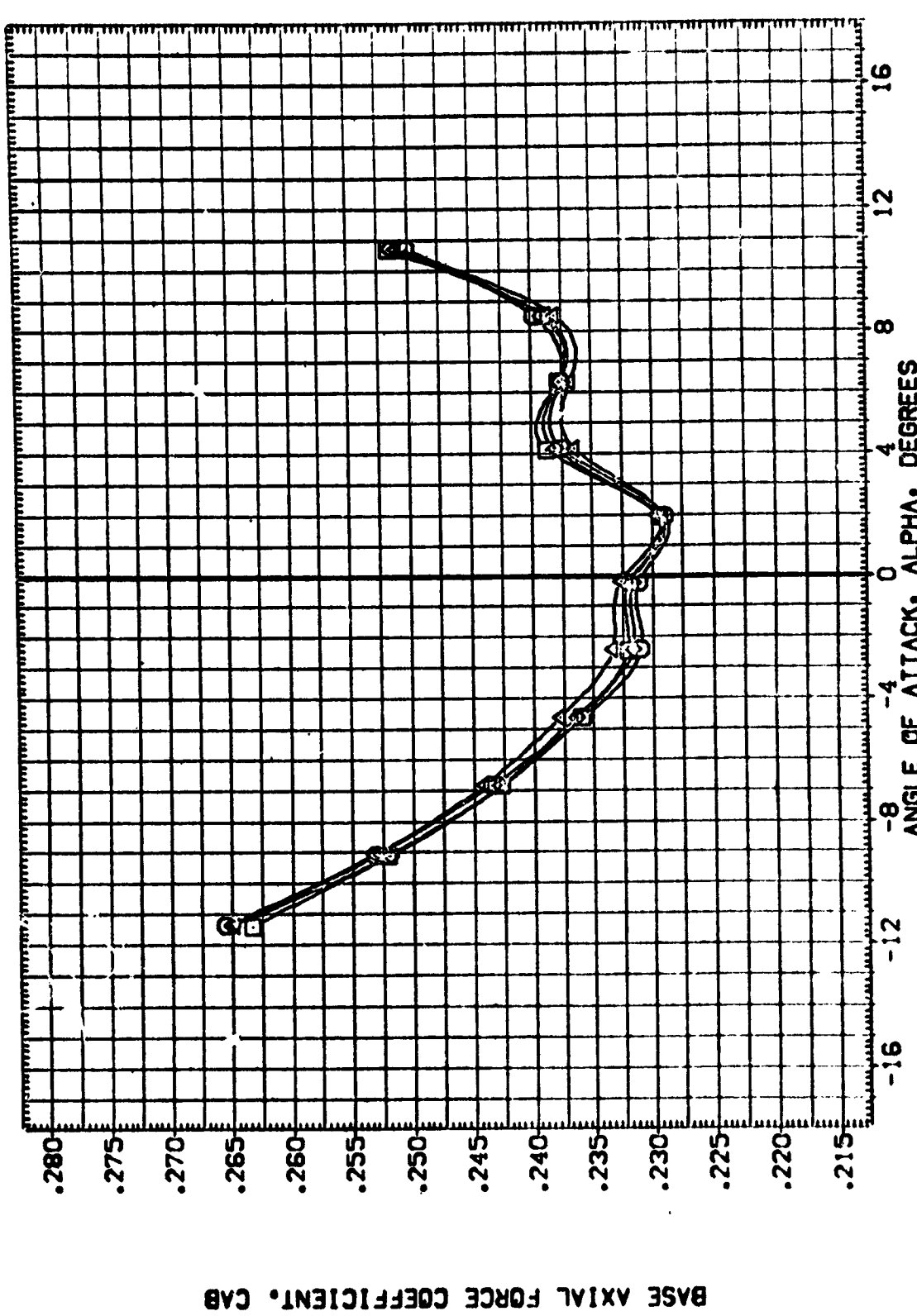
FOREBODY AXIAL FORCE COEFFICIENT, CAF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .98

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 DATE: 02/14/57, 02/14/57, 02/14/57, 02/14/57  
 REFERENCE INFORMATION: SREF 1530.0000 SO.FT., LREF 1290.3000 INCHES, BREF 1290.3000 IN. XT, XTRP 576.0000 IN. XT, YTRP 400.0000 IN. ZT, ZTRP 400.0100 SCALE



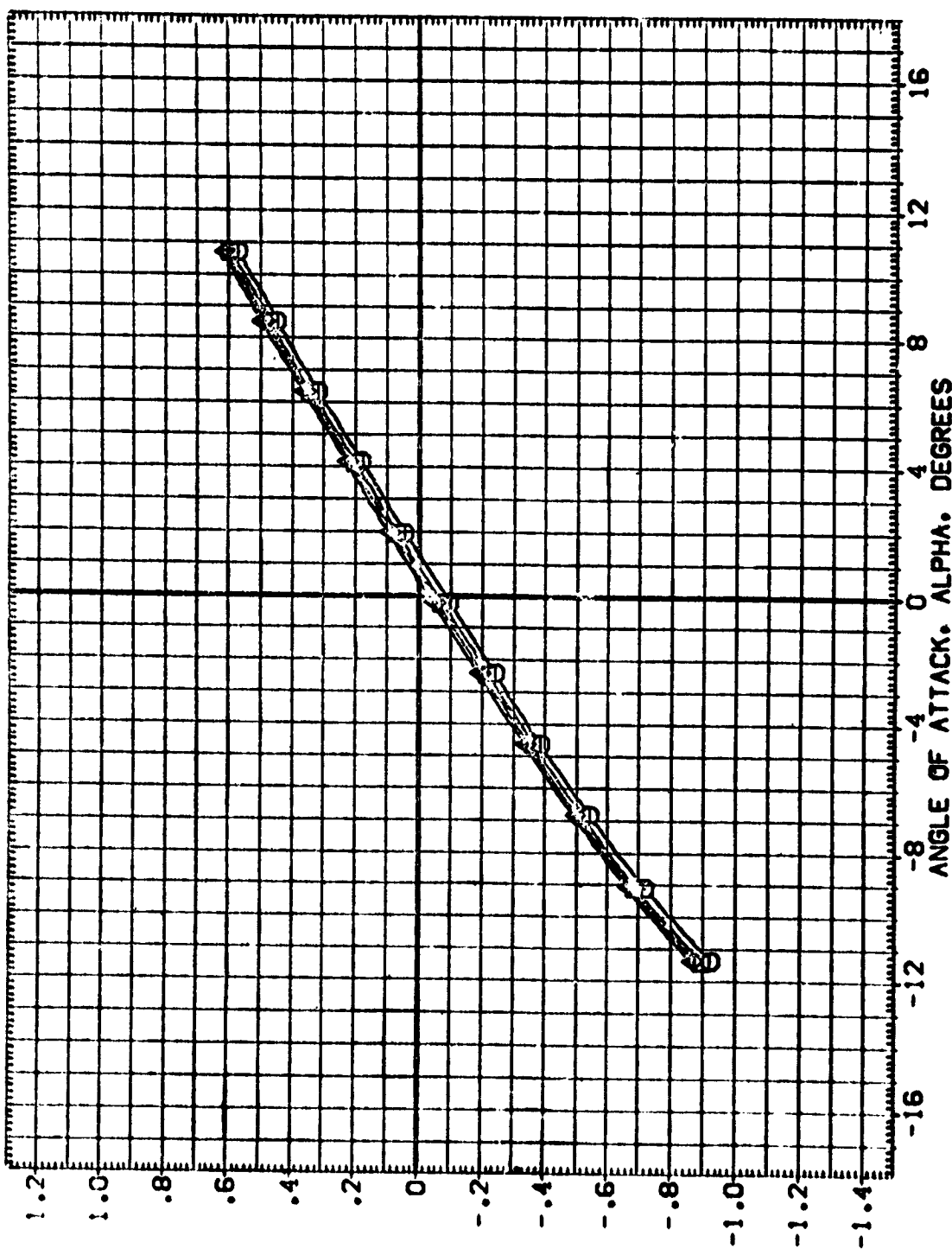
BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .98



DATA #	SYMBOL	CONFIGURATION DESCRIPTION	ELV-L6	ELV-L1	ELV-R1	ELV-R6	REFERENCE INFORMATION
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2	X	LAC 8-TPT-693 (A43) CONFIGURAT (N)	.000	4.000	4.000	.000	LREF 1250.3000 INCH-ES
3	X	LAC 8-TPT-693 (A43) CONFIGURAT (N)	4.000	4.000	4.000	4.000	BREF 1250.3000 INCH-ES
4	X	LAC 8-TPT-693 (A43) CONFIGURAT (N)	8.000	4.000	4.000	8.000	XTRP 576.0000 IN. XT
							ZTRP 400.0000 IN. ZT
							SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(9)MACH = .98

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 (9-0015)  
 (9-0014)  
 (9-0013)

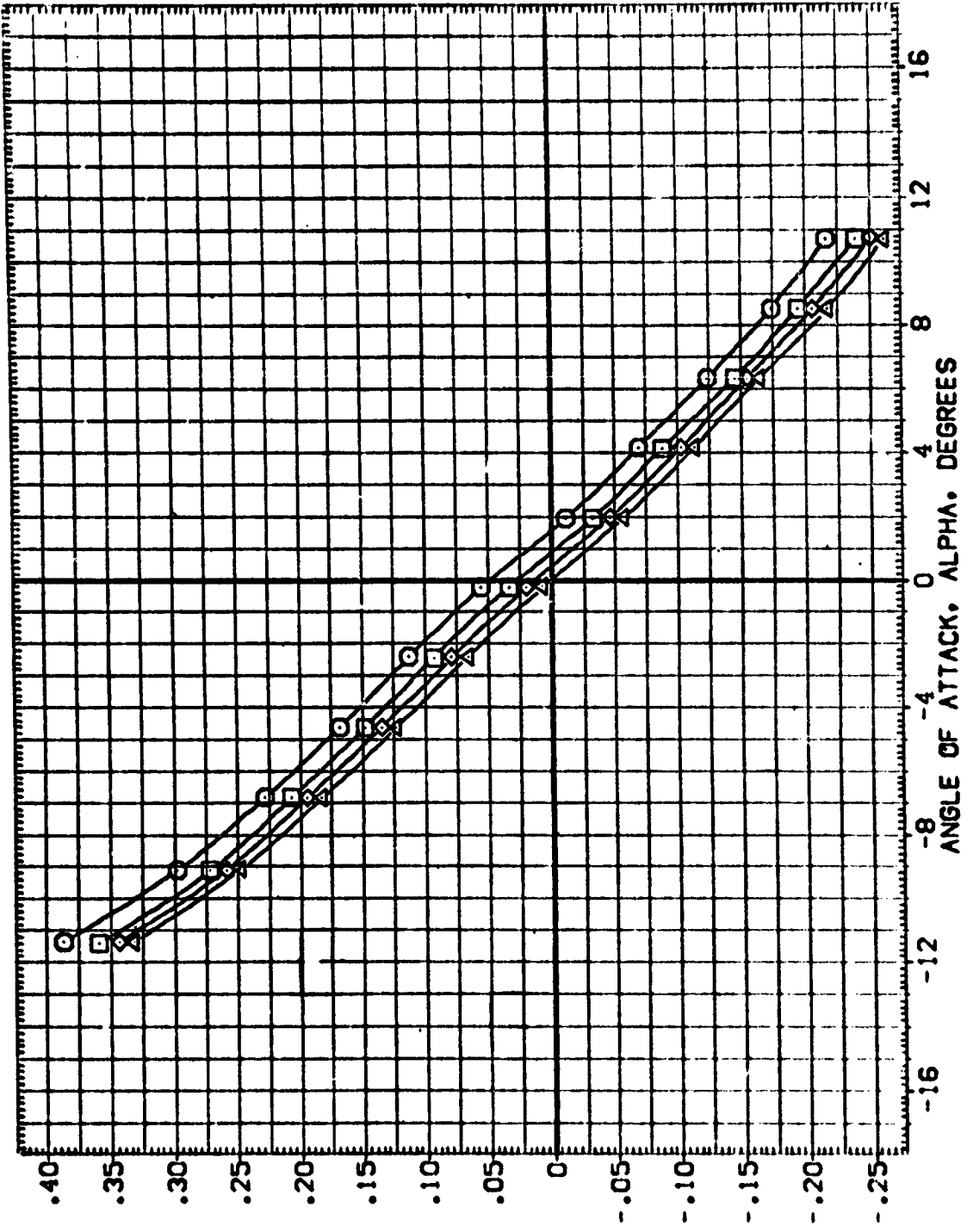
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 LARC 8-TPT-693 (A43)  
 LARC 8-TPT-693 (A43)  
 LARC 8-TPT-693 (A43)

CONFIGURATION  
 02/14/57  
 02/14/57  
 02/14/57  
 02/14/57

ELV-L5 ELV-L7 ELV-R1 ELV-R3  
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 8.000 8.000 8.000 8.000

REFERENCE DIMENSIONS  
 REF 20.0000 SQ.FT.  
 LREF 250.0000 INCHES  
 BREF 380.0000 INCHES  
 XPRP 976.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP .0100 IN. ZT  
 SCALE

FOREBODY PITCHING MOMENT COEFFICIENT • CLMP



EFFECT OF EVELON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(8)MACH = .98



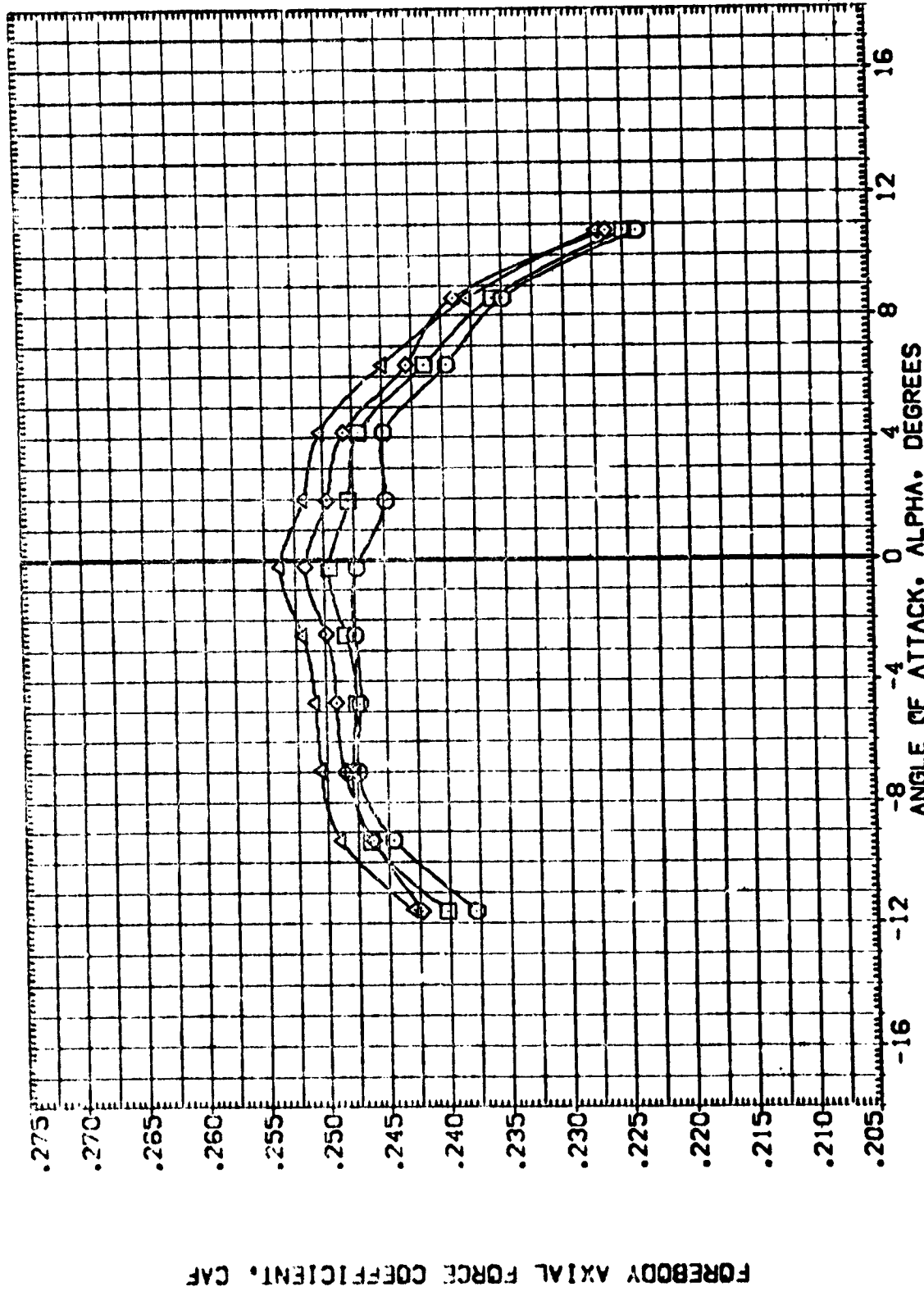


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 IN. AT 1250.0000  
 IN. YI 400.0000  
 IN. ZI 400.0000  
 SCALE .0100

ELV-LB ELV-LI ELV-RI ELV-RB  
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 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

02/14/57  
 02/14/57  
 02/14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
 LAKE 8-TPT-693 (1A43) GURATION  
 LAKE 8-TPT-693 (1A43) GURATION  
 LAKE 8-TPT-693 (1A43) GURATION  
 LAKE 8-TPT-693 (1A43) GURATION



FOREBODY AXIAL FORCE COEFFICIENT, CAF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

ORIGINAL PAGE IS  
 OF POOR QUALITY

REFERENCE INFORMATION  
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 IN. YI 576.0000  
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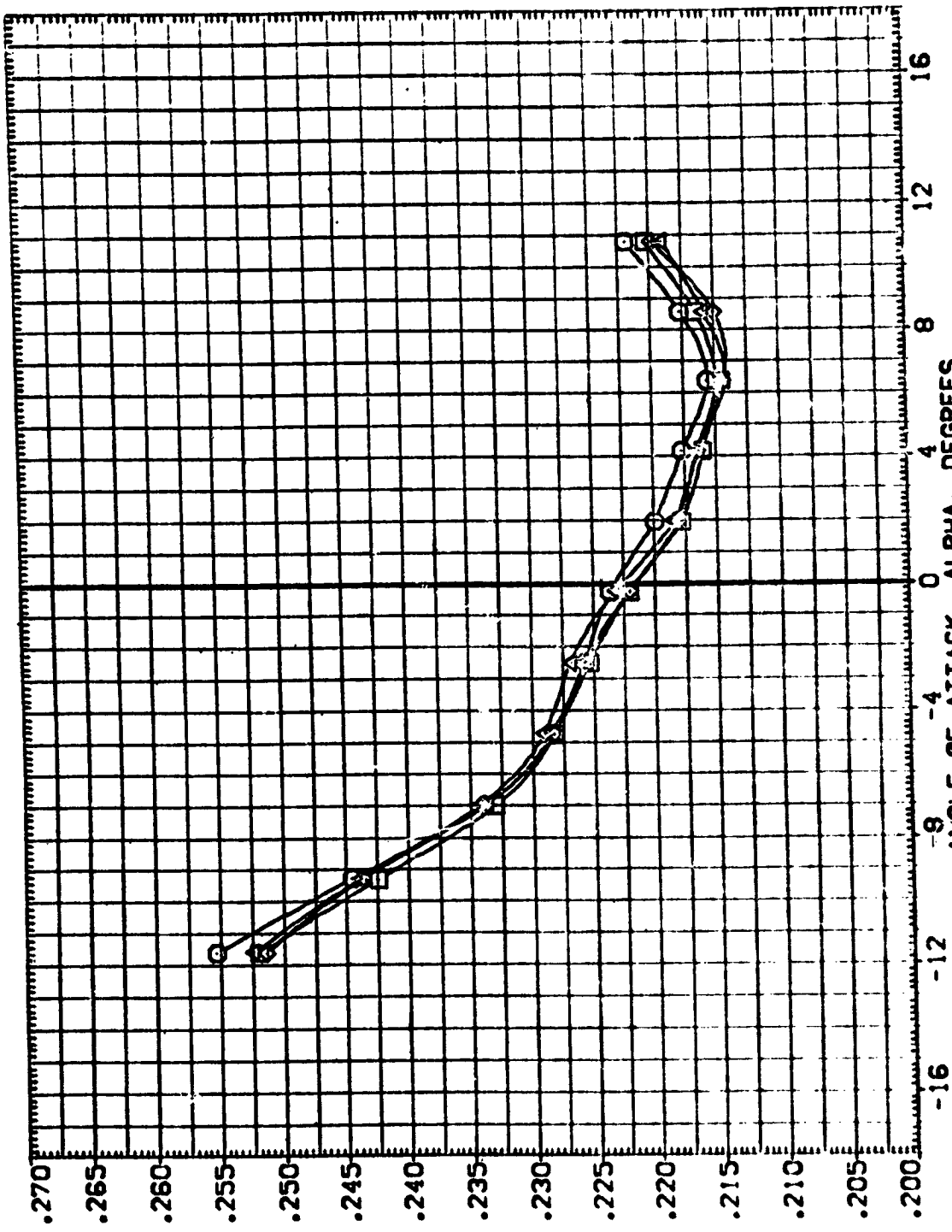
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 8.000

02/14/57  
 02/14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION

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 {B-C015}  
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 {B-C013}

BASE AXIAL FORCE COEFFICIENT, CAB



EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

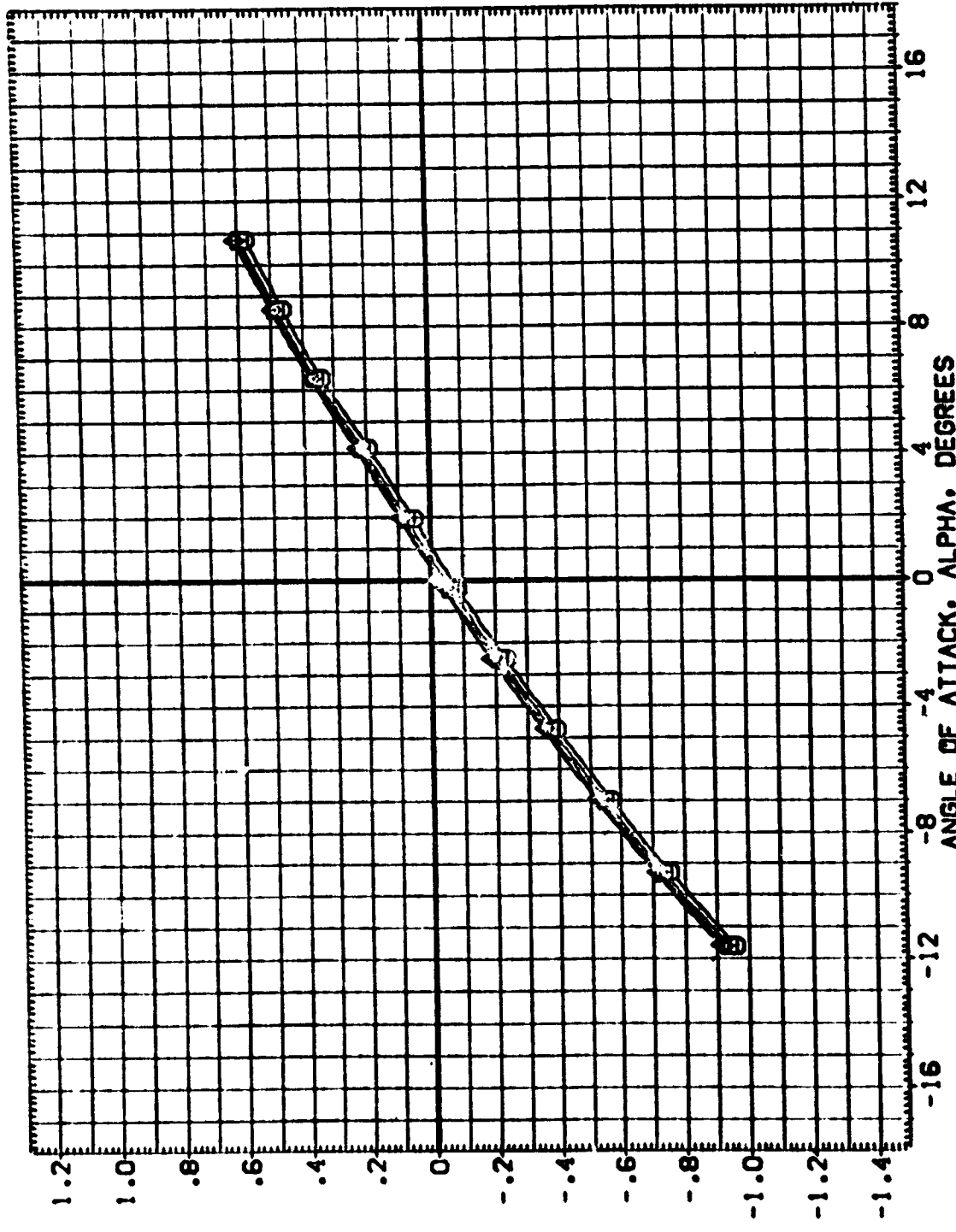
(C)MACH = 1.13



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 INC-ES 1250.3000  
 IN. XT 976.0000  
 IN. YI 100.0000  
 IN. ZI 100.0000  
 SCALE .0100

ELV-LG ELV-LI ELV-RI ELV-RG  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 01-0006 01-0006 (143) 01-0006 (143)  
 01-0006 01-0006 (143) 01-0006 (143)  
 01-0006 01-0006 (143) 01-0006 (143)  
 01-0006 01-0006 (143) 01-0006 (143)



FOREBODY NORMAL FORCE COEFFICIENT • CNF

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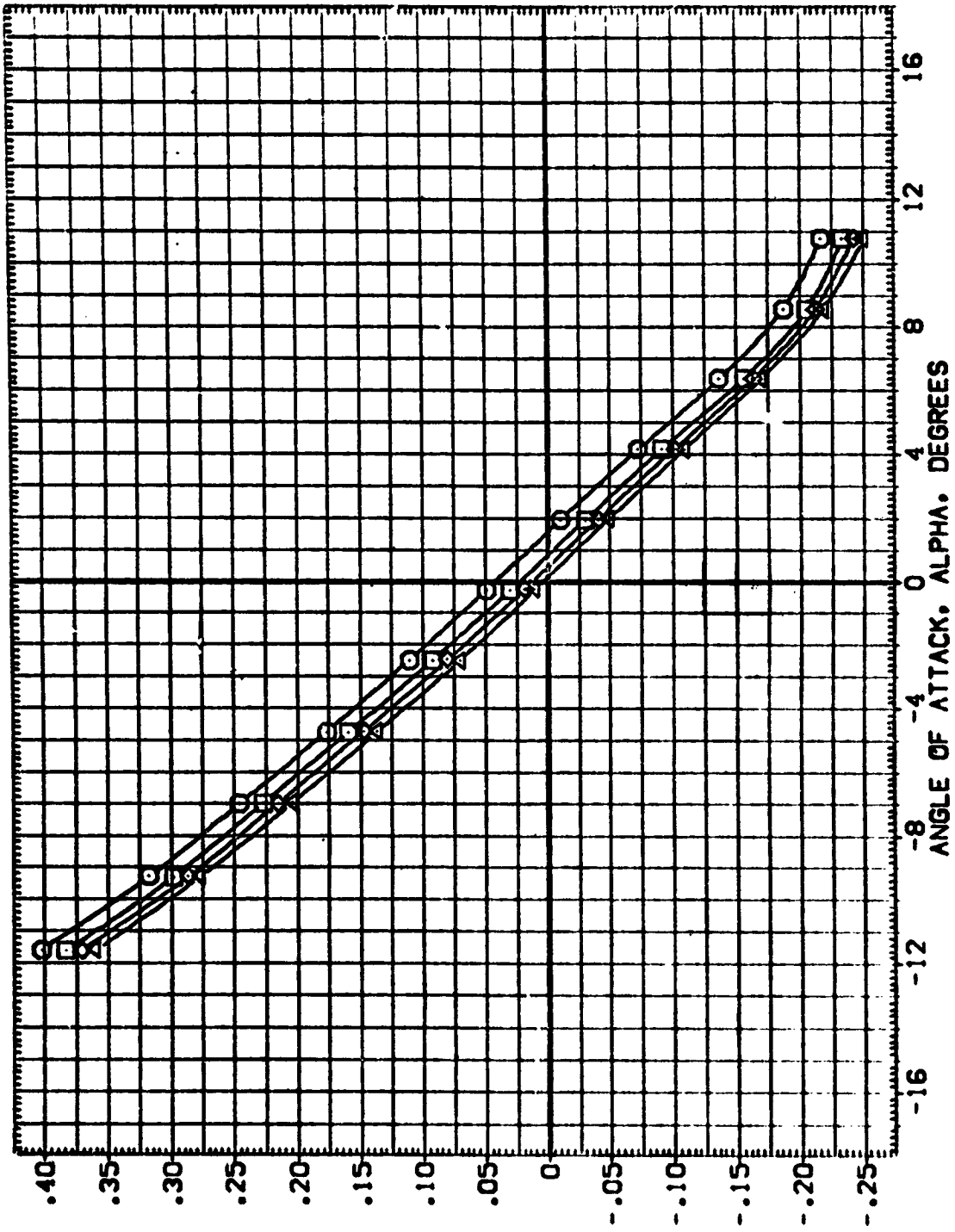
EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET 5 800. CONFIGURATION DESCRIPTION  
 (B-C006) LARC 8-TPT-693 (A43) COF DURATION 02/14/57  
 (B-C015) LARC 8-TPT-693 (A43) COF DURATION 02/14/57  
 (B-C014) LARC 8-TPT-693 (A43) COF DURATION 02/14/57  
 (B-C013) LARC 8-TPT-693 (A43) COF DURATION 02/14/57

ELV-R0 ELV-R1 ELV-L1 ELV-L0  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

REFERENCE INFORMATION:  
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 LREF 500 INCHES  
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 YTRP 400.0000 IN. YT  
 ZTRP 0.0100 IN. ZT  
 SCALE

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



EFFECT OF EELON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.13

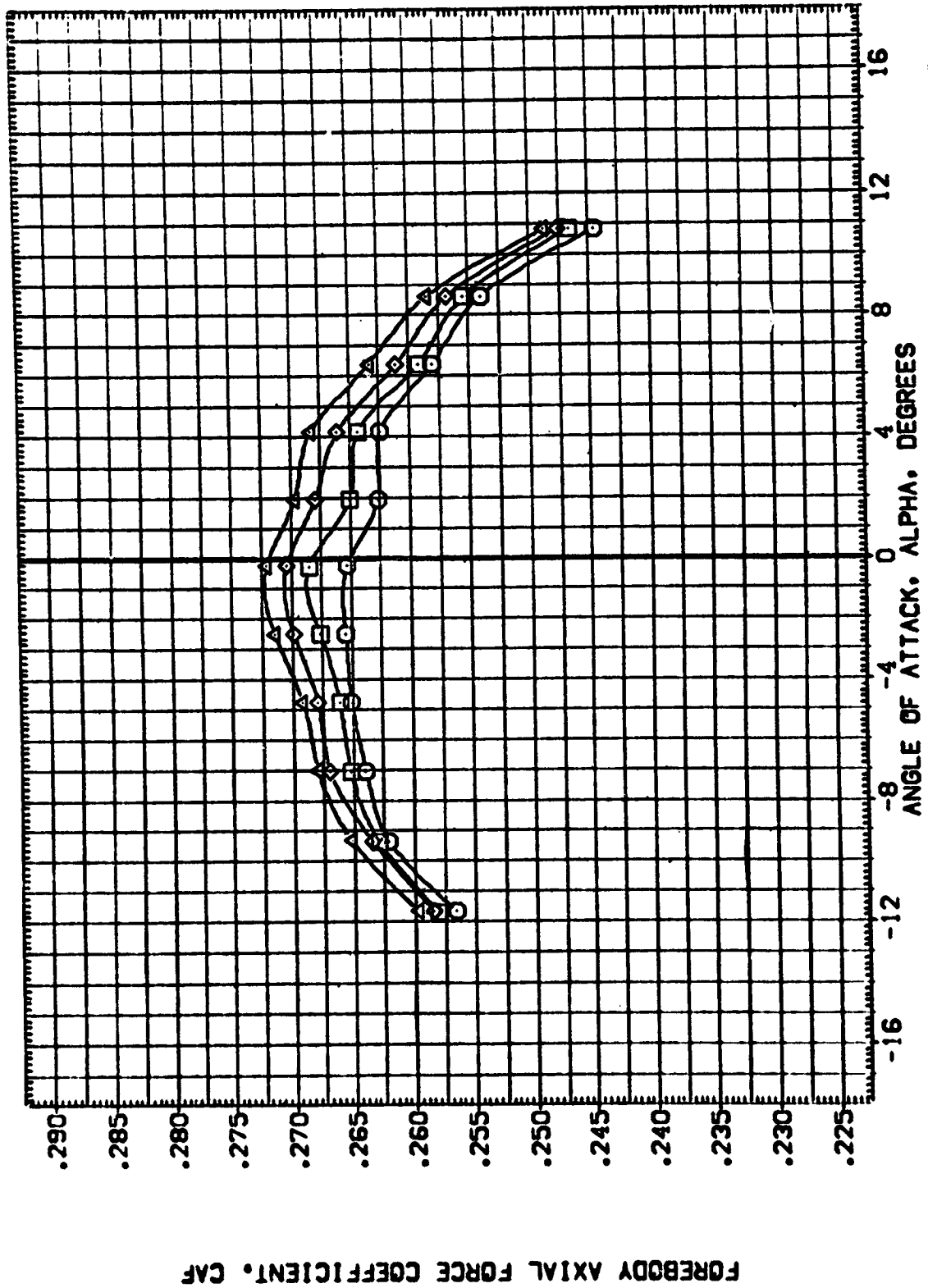


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 BREF 1290.3000 INCHES  
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 YMRP 400.0000 IN. ZI  
 ZMRP 400.0000 IN. ZI  
 SCALE .0100

ELV-LG ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 4.000 4.000 8.000

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 [A43] COF [GURATION 02/14/57  
 LARC 8-TPT-693 [A43] COF [GURATION 02/14/57  
 LARC 8-TPT-693 [A43] COF [GURATION 02/14/57  
 LARC 8-TPT-693 [A43] COF [GURATION 02/14/57

DATA SET SYMBOL  
 (3-C013)  
 (3-C013)  
 (3-C013)  
 (3-C013)



FOREBODY AXIAL FORCE COEFFICIENT, C<sub>ax</sub>

ANGLE OF ATTACK, ALPHA, DEGREES

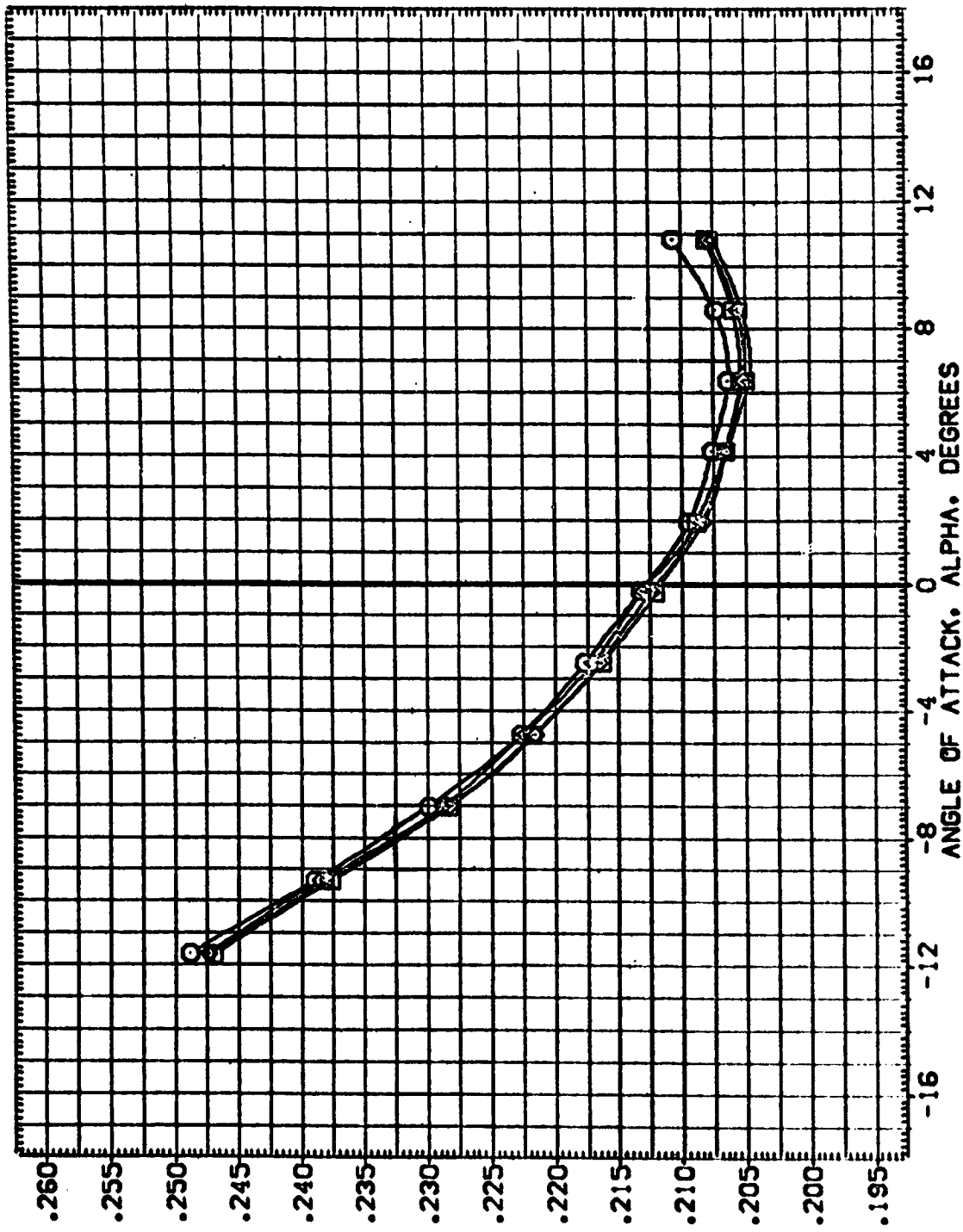
ORIGINAL PAGE IS OF POOR QUALITY

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMB. CONFIGURATION DESCRIPTION  
 (B-C006) LARC 8-TPT-693 (1A43) CONF IGURATION 02/14/57  
 (B-C015) LARC 8-TPT-693 (1A43) CONF IGURATION 02/14/57  
 (B-C014) LARC 8-TPT-693 (1A43) CONF IGURATION 02/14/57  
 (B-C013) LARC 8-TPT-693 (1A43) CONF IGURATION 02/14/57

ELV-LO ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 8.000 4.000 4.000 8.000

REFERENCE INFORMATION  
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 LREF 1290.3000 INCHES  
 BREF 1290.3000 INCHES  
 XMRP 576.0000 IN. XI  
 YMRP 400.0000 IN. YI  
 ZMRP 400.0000 IN. ZI  
 SCALE .0100



BASE AXIAL FORCE COEFFICIENT, CAB

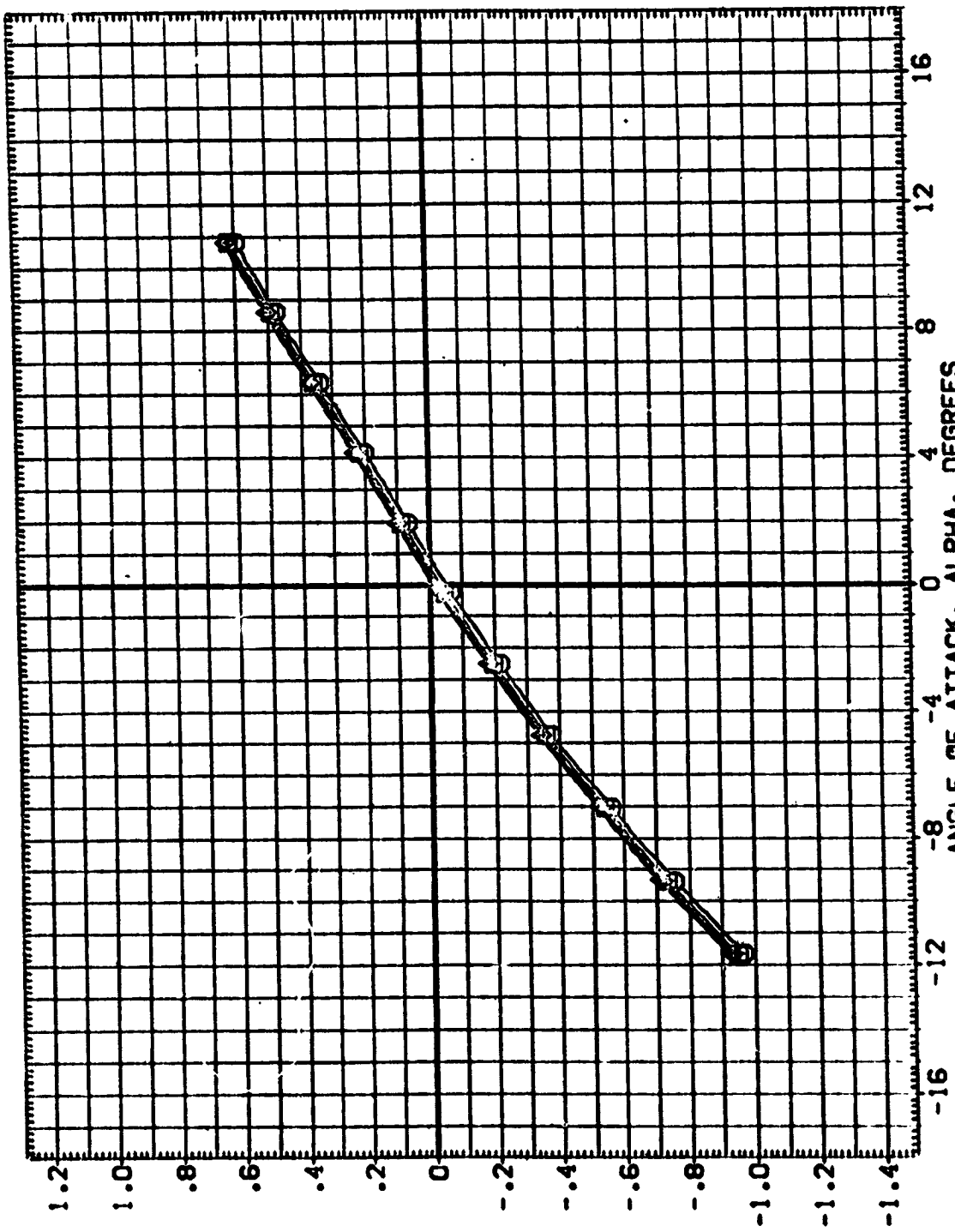
EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(D)MACH = 1.20

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DATA SET SYMB.	CONFIGURATION DESCRIPTION	ELV-L6	ELV-L1	ELV-R1	ELV-R6	REFERENCE INFORMATION
[B-CO:5]	LARC 8-TPT-693 [1A43] CONFIGURATION 02/14/57	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
[B-CO:4]	LARC 8-TPT-693 [1A43] CONFIGURATION 02/14/57	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
[B-CO:3]	LARC 8-TPT-693 [1A43] CONFIGURATION 02/14/57	4.000	4.000	4.000	4.000	BREF 1290.3000 IN. XI
		8.000	4.000	4.000	8.000	XMRP 576.0000 IN. YI
						ZMRP 400.0000 IN. ZI
						SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

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EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION  
 SQ. FT. INCHES  
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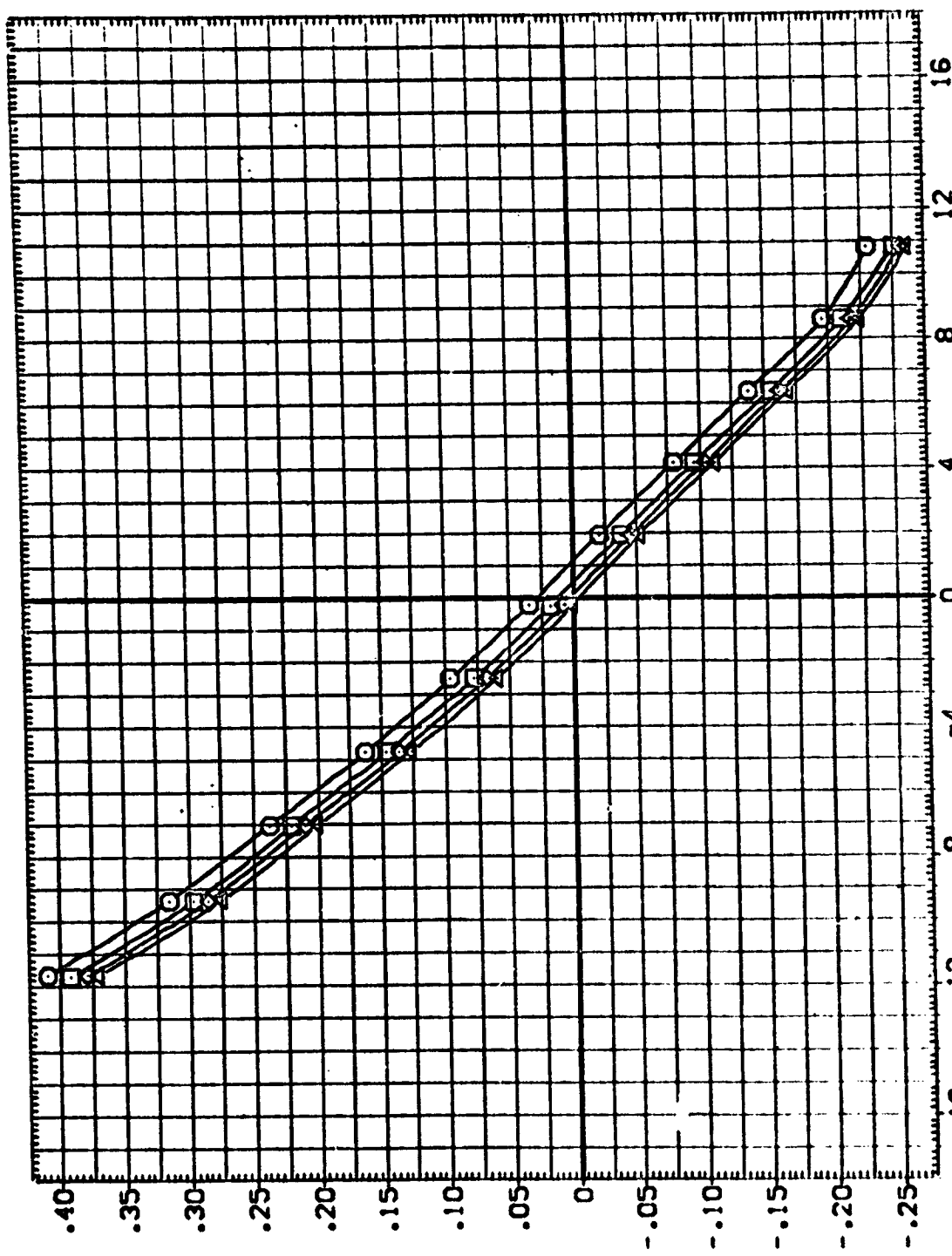
ELV-LC ELV-LI ELV-RI ELV-RO  
 .000 .000 .000 .000  
 4.000 4.000 4.000 4.000  
 4.000 4.000 4.000 4.000  
 8.000 8.000 8.000 8.000

02/14/57  
 02/14/57  
 02/14/57  
 02/14/57

CONFIGURATION DESCRIPTION  
 ARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION  
 LARC 8-TPT-693 (A43) CONFIGURATION

DATA SET SYMBOL  
 B-C006  
 B-C015  
 B-C014  
 B-C013

FOREBODY PITCHING MOMENT COEFFICIENT • CLM<sub>F</sub>



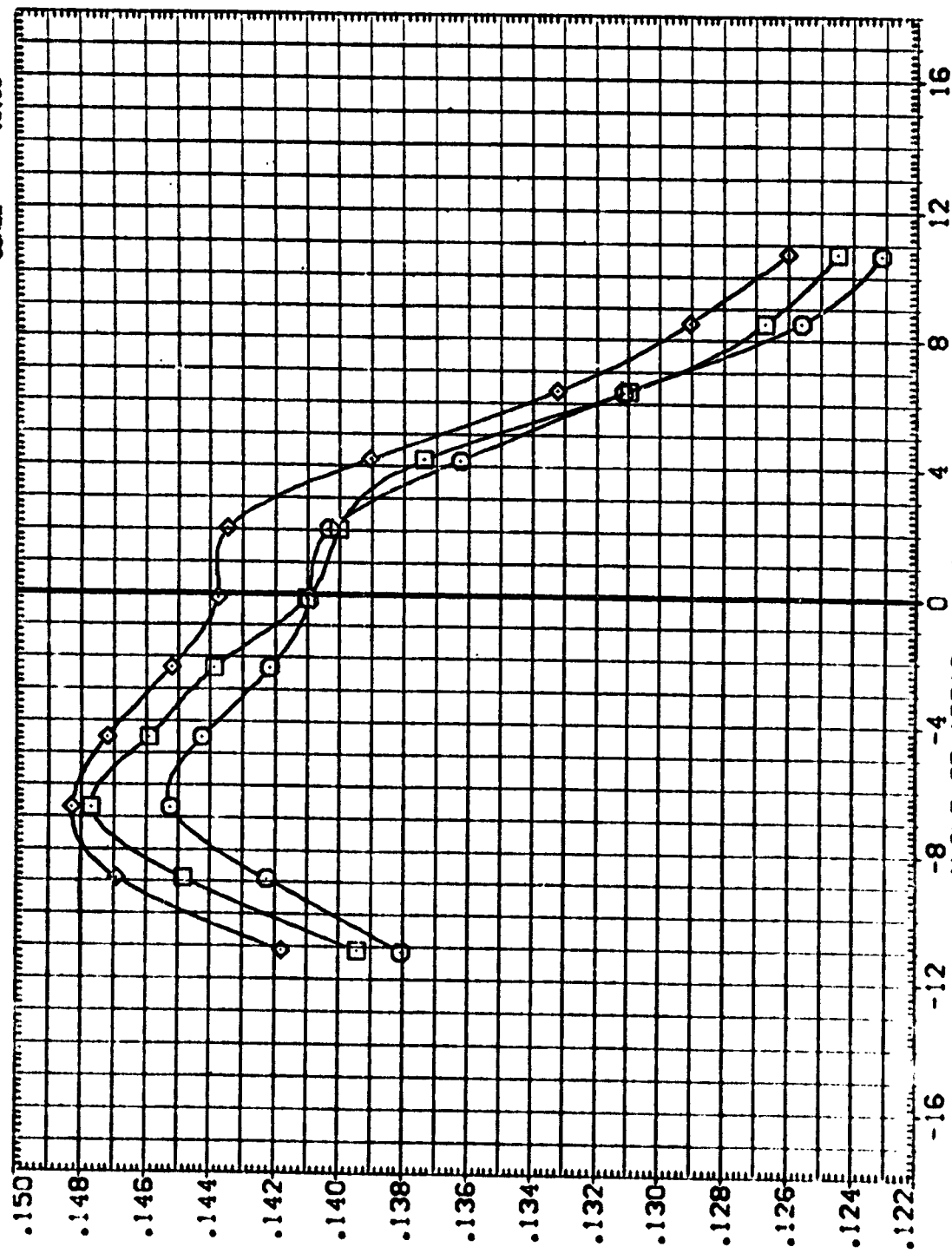
EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(C)MACH = 1.20





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
19-001(1)	LARC 0-TPT-693 (1A13) CONFIGURATION 02/14/57	.000	8.000	8.000	.000	SREF 2690.0000 50.FT.
20-001(1)	LARC 0-TPT-693 (1A13) CONFIGURATION 02/14/57	4.000	8.000	8.000	4.000	LREF 1290.3000 INCHES
19-001(2)	LARC 0-TPT-693 (1A13) CONFIGURATION 02/14/57	8.000	8.000	8.000	8.000	BREF 1290.3000 INCHES
						XTRP 576.0000 IN. XT
						YTRP .0000 IN. YT
						ZTRP 400.0000 IN. ZT
						SCALE .0100



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

MAC = .90

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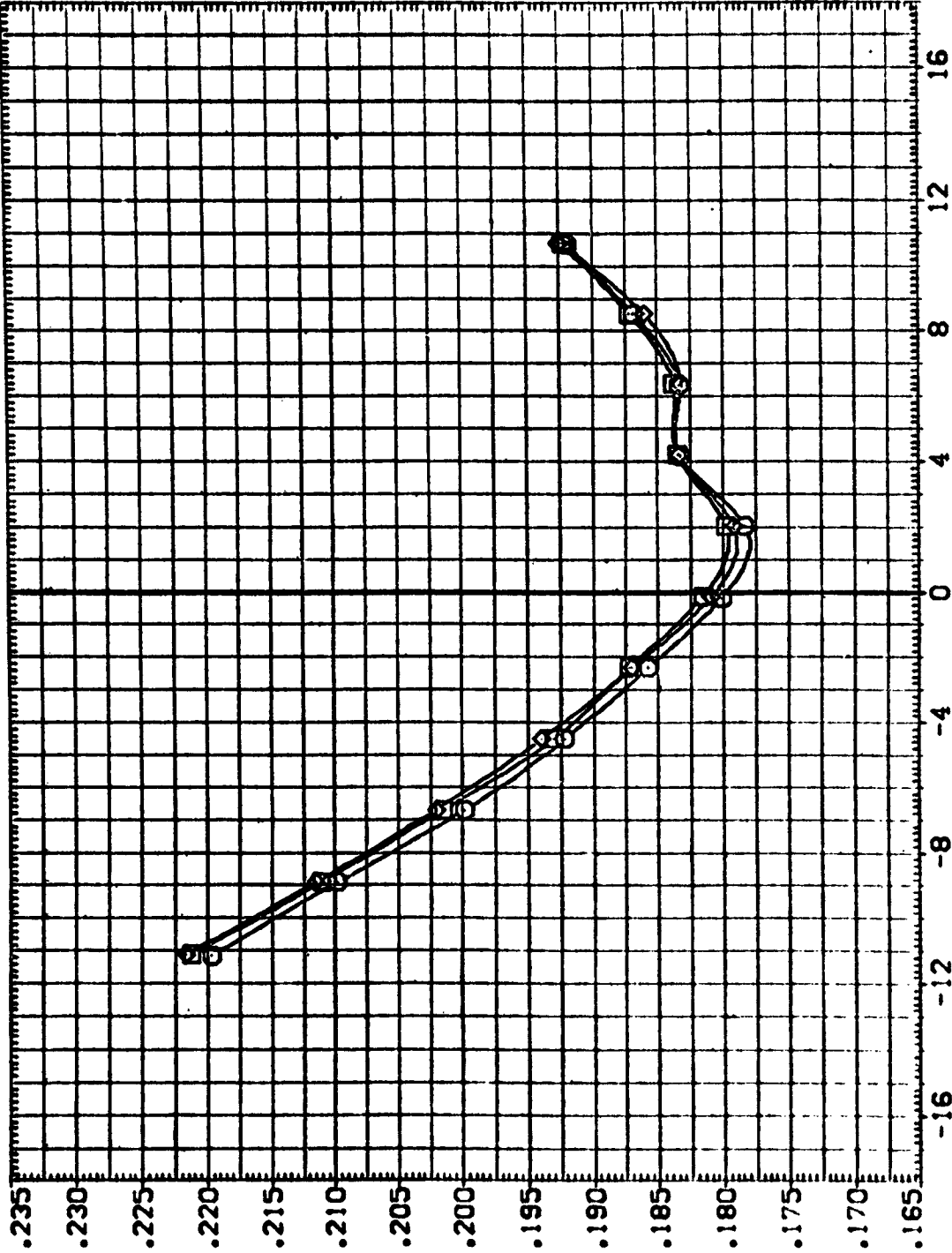
DATA SET SYMBOL  
 (B-CO:10)  
 (B-CO:11)  
 (B-CO:12)

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-593 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-593 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-593 (1A13) CONFIGURATION 02/14/57

ELV-LD ELV-LI ELV-RI ELV-RO  
 .000 9.000 9.000 .000  
 4.000 8.000 8.000 4.000  
 8.000 8.000 8.000 8.000

SCALE  
 400.0000  
 .0100

REFERENCE INFORMATION  
 SREF 2630.0000 SO.FT.  
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 XREF 1250.3000 IN. AT  
 YMRP 976.0000 IN. YI  
 ZMRP .0000 IN. ZI



BASE AXIAL FORCE COEFFICIENT, CAB

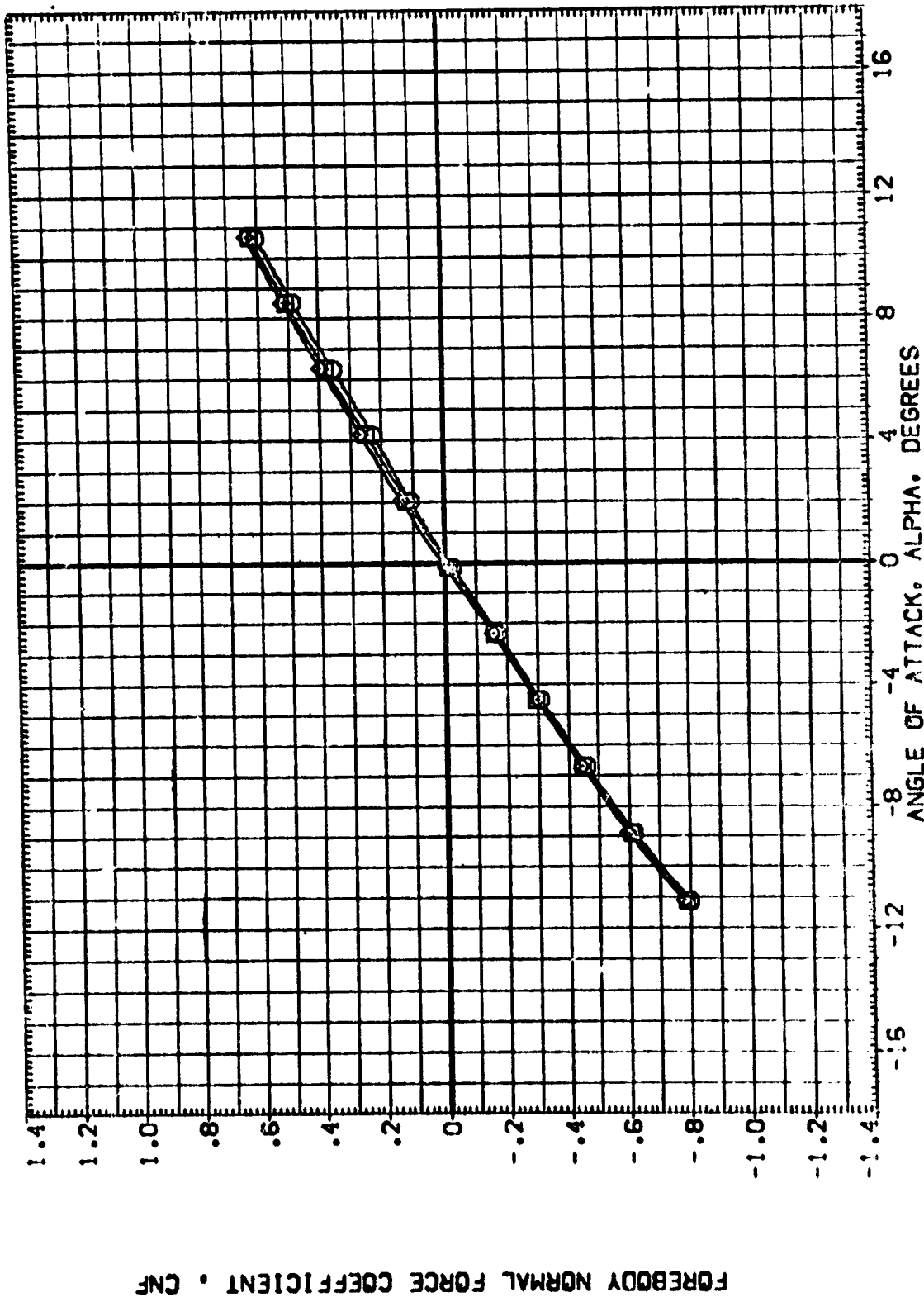
EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .90



DATA SET SYSD. CONFIGURATION DESCRIPTION  
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 (B-C) 2) 0 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 (B-C) 3) 0 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	SO.FT.
.000	8.000	8.000	.000	SREF	2690.0000
4.000	8.000	8.000	4.000	LRP	1290.3000
8.000	8.000	8.000	8.000	BREF	1290.3000
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				SCALE	400.0000
					.0100



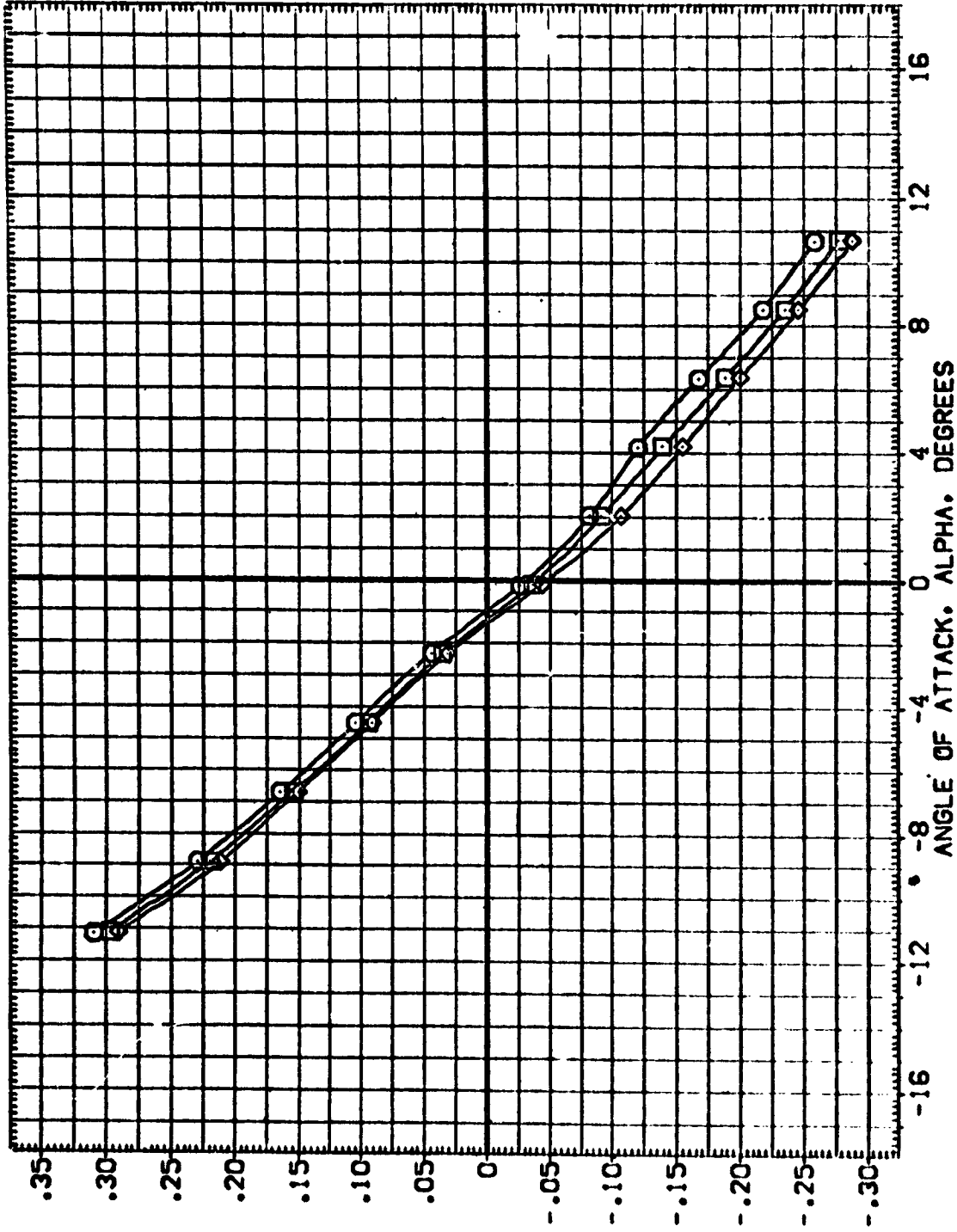
FOREBODY NORMAL FORCE COEFFICIENT, CNF

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OF POOR QUALITY

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LG	ELV-LI	ELV-RI	ELV-RO	REFER	INFORMATION
{B-C010}	LARC 8-TPT-693 {1A13} CONFIGURATION 02/14/57	.000	8.000	8.000	.000	SREF	550.0000
{B-C011}	LARC 8-TPT-693 {1A13} CONFIGURATION 02/14/57	4.000	8.000	8.000	4.000	LREF	30.3000
{B-C012}	LARC 8-TPT-693 {1A13} CONFIGURATION 02/14/57	8.000	8.000	8.000	8.000	BREF	290.3000
						XMRP	976.0000
						YMRP	.0000
						ZMRP	400.0000
						SCALE	.0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLM<sub>F</sub>



EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(A)MACH = .90

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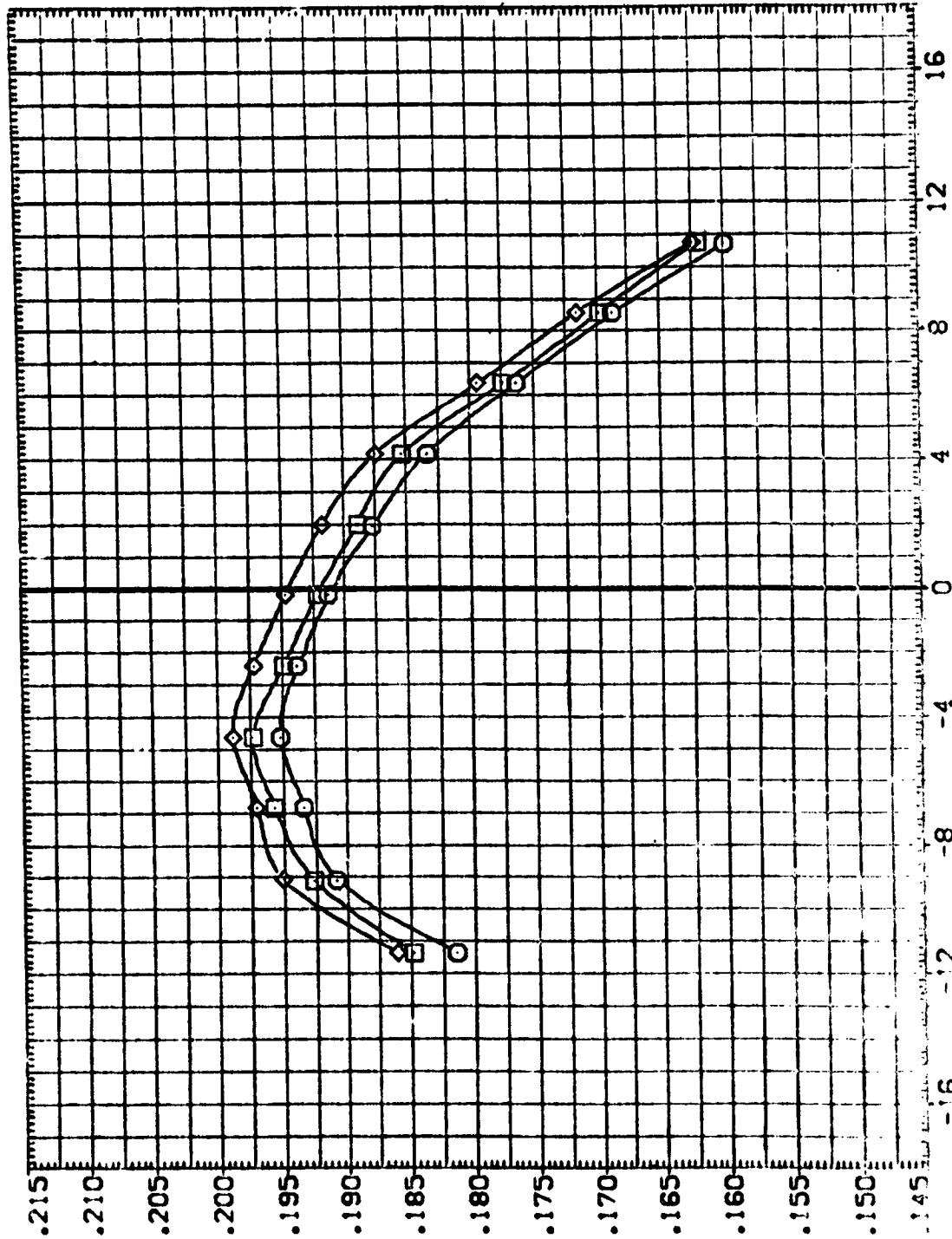


DATA SET SYMBOL CONFIGURATION DESCRIPTION  
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 3-0012) 3 LARC 8-TPT-893 (1A13) CD+ IGURATION 02/14/57  
 3-0012) 3 LARC 8-TPT-893 (1A13) CD+ IGURATION 02/14/57

ELV-LB ELV-LI ELV-RI ELV-RB  
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 4.000 8.000 8.000 4.000  
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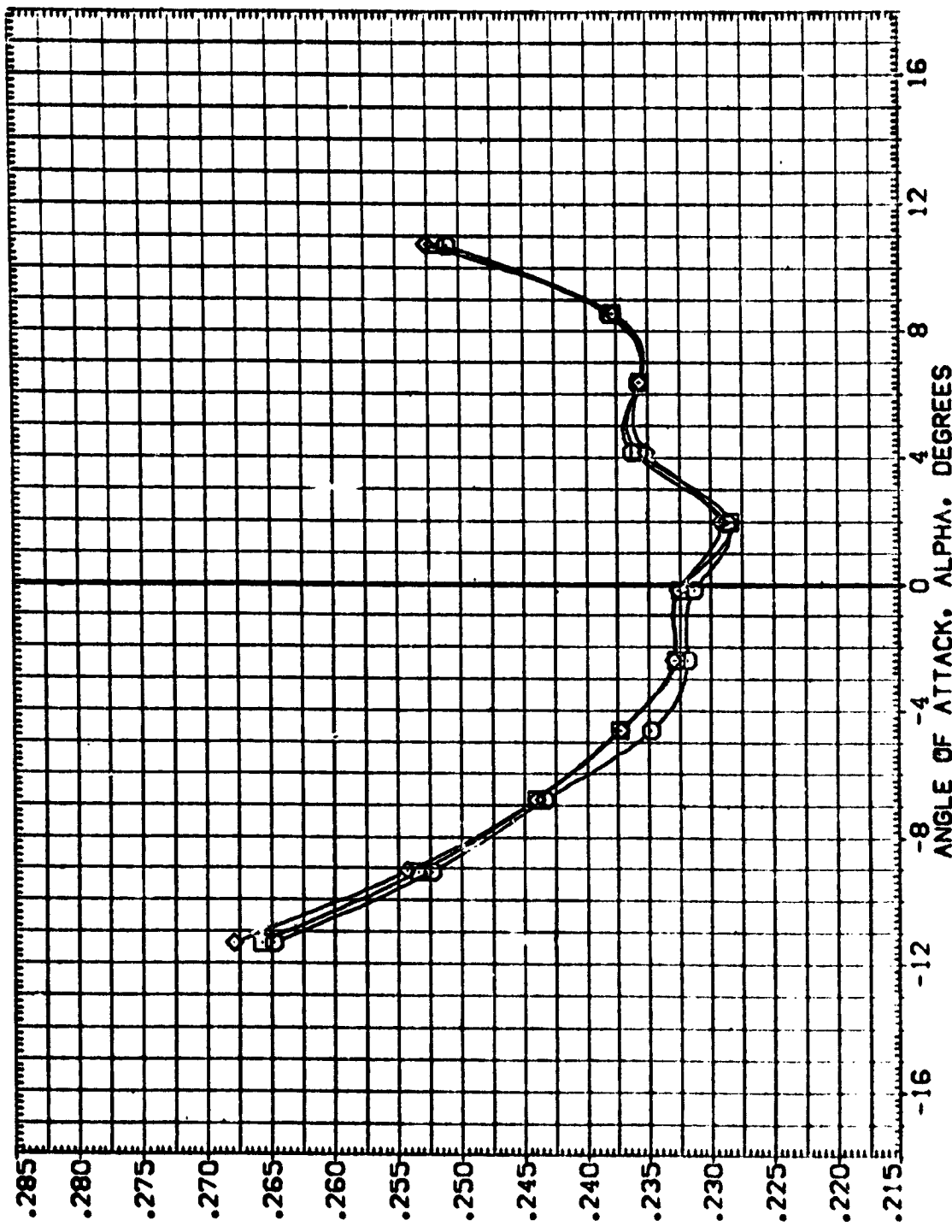
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 XPRP 976.0000 IN. XT  
 YPRP 400.0000 IN. YT  
 ZPRP 400.0000 IN. ZT  
 SCALE .0100

FOREBODY AXIAL FORCE COEFFICIENT, CAF



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DATA SET SYMBOL: (B-C0)0, (B-C0)1, (B-C0)2  
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 REFERENCE INFORMATION: SREF 2890.0000, LREF 1290.3000, BREF 1290.3000, XMRP 976.0000, YMRP 400.0000, ZMRP 400.0000, SCALE .0100  
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 ELV-R1: 8.000, 8.000, 8.000  
 ELV-L1: 8.000, 8.000, 8.000  
 ELV-L0: .000, 4.000, 8.000  
 SO.FT: 50.00, INCHES: IN. X1, IN. Y1, IN. Z1



BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

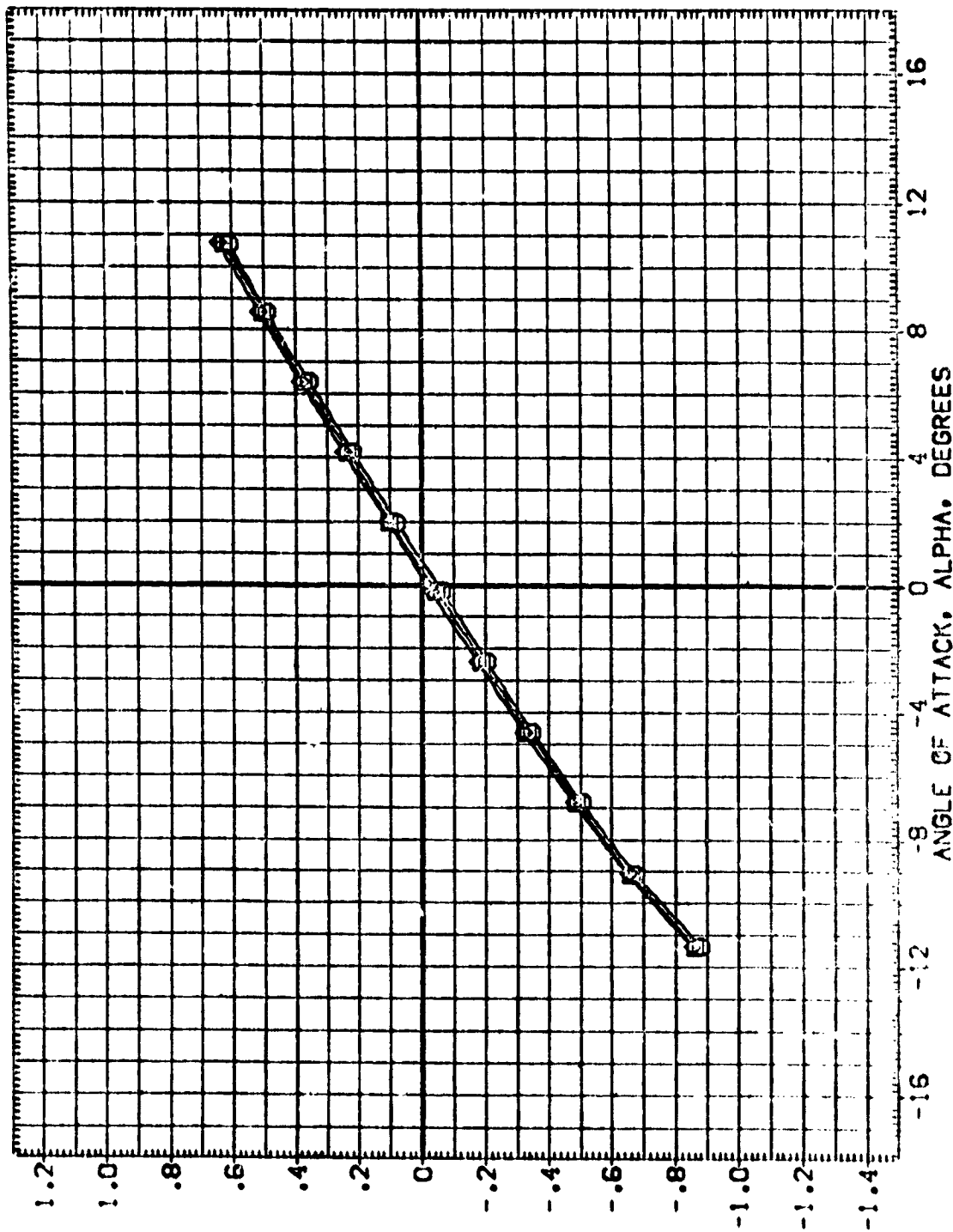
(B)MACH = .98



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OF POOR QUALITY

DATA SET 01303 CONFIGURATION DESCRIPTION REFERENCE INFORMATION

CONFIGURATION	DESCRIPTION	DATE	ELV-LG	ELV-LJ	ELV-RI	ELV-RD	SREF	SR FT
LANC 8-TP-693 (1A13)	CONFIGURATION	02/14/57	.000	8.000	8.000	.000	2590.0000	89.0000
LANC 8-TP-693 (1A13)	CONFIGURATION	02/14/57	4.000	8.000	8.000	4.000	250.0000	8.0000
LANC 8-TP-693 (1A13)	CONFIGURATION	02/14/57	8.000	8.000	8.000	8.000	250.0000	8.0000
							578.0000	18.0000
							400.0000	12.0000
								SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

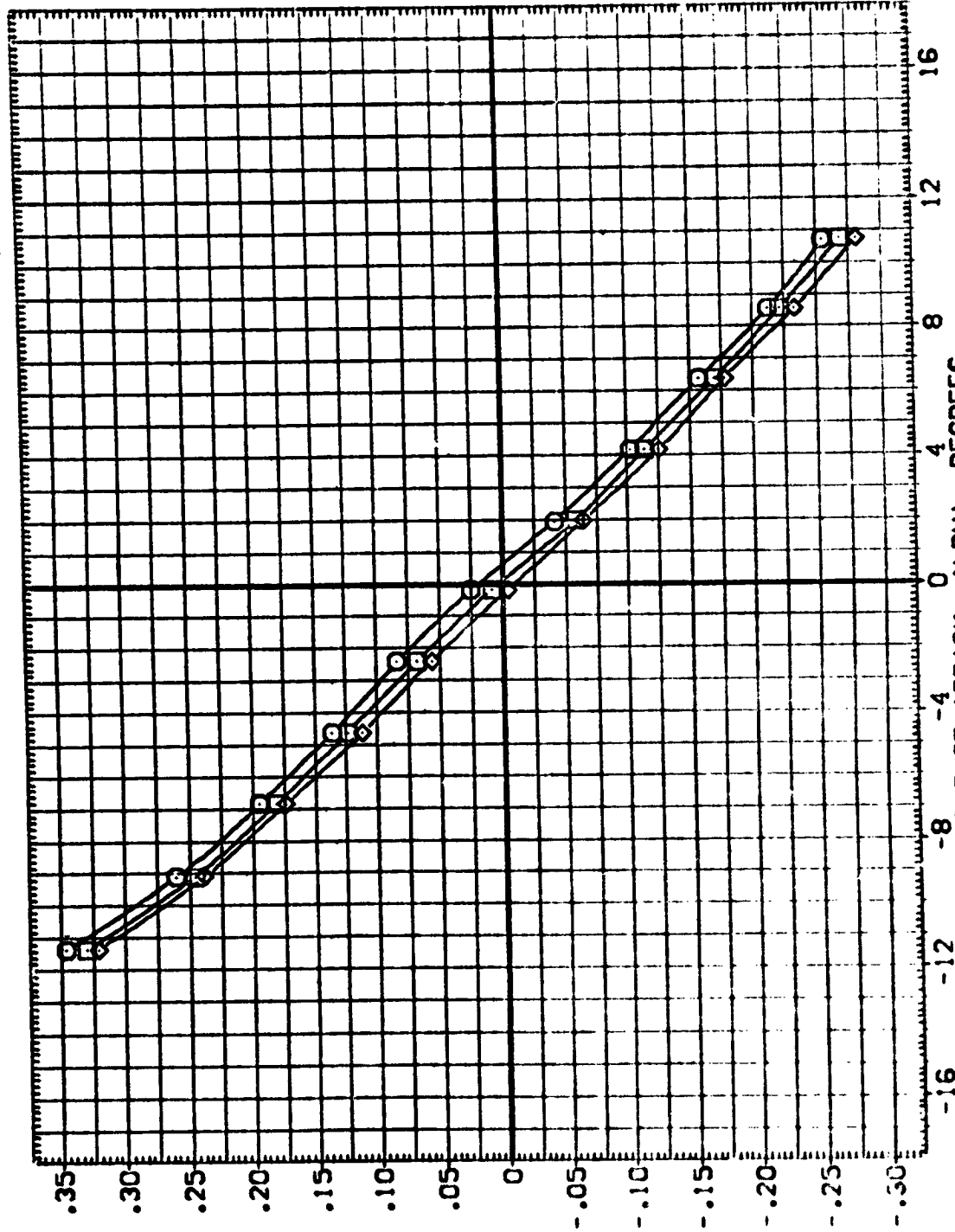
DATA SET SYMBOL  
 (B-C010)  
 (B-C011)  
 (B-C012)

CONFIGURATION DESCRIPTION  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57  
 LARC 8-TPT-693 (1A13) CONFIGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 8.000 8.000 .000  
 4.000 8.000 4.000 8.000  
 8.000 8.000 8.000 8.000

REFERENCE INFORMATION  
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 LREF 1250.3000 INCHES  
 BRFP 1250.3000 INCHES  
 YMRP 976.0000 IN. XT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT • CLMF



EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

(B)MACH = .98



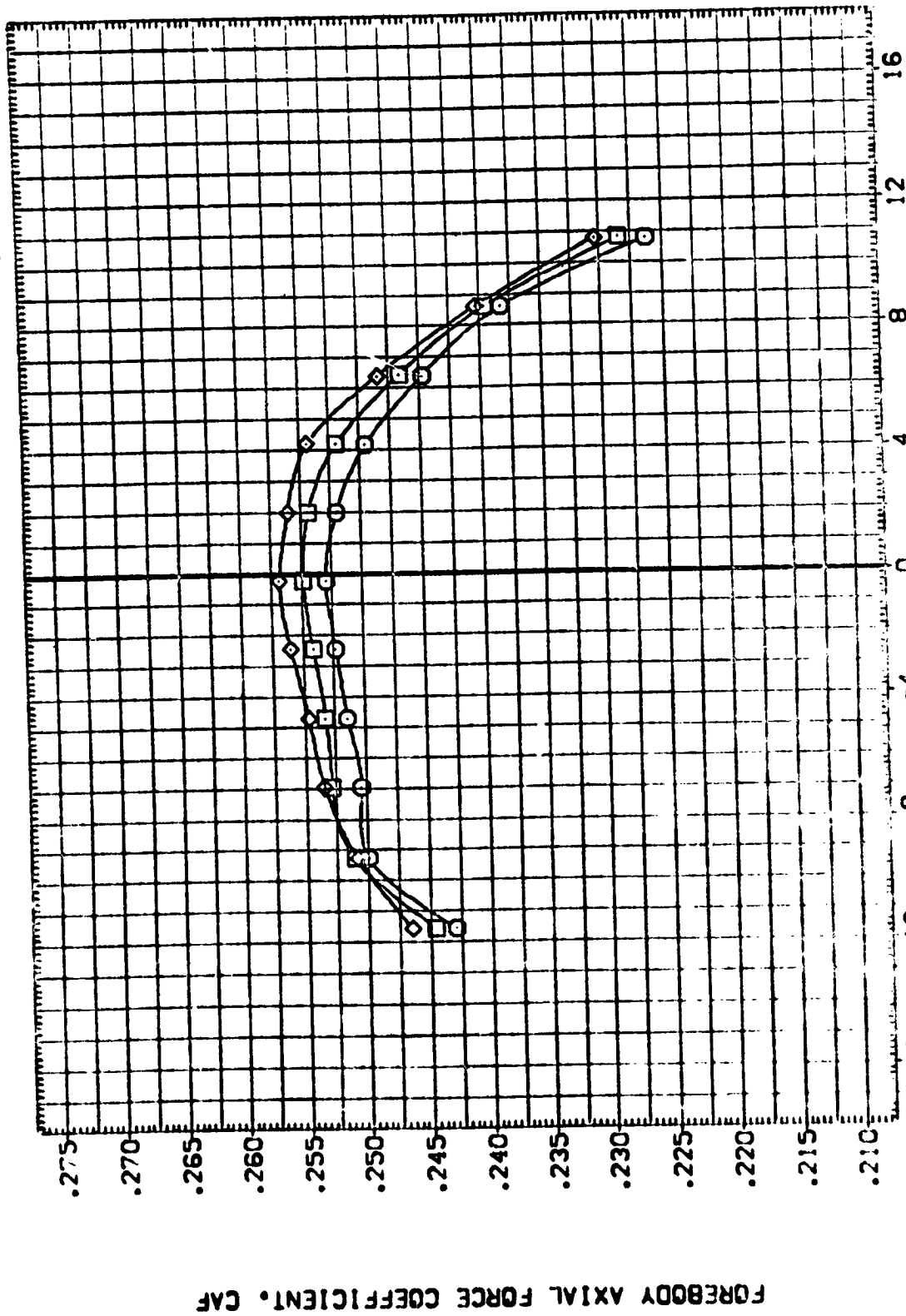


REFERENCE INFORMATION  
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 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
 .000 8.000 8.000 .000  
 4.000 8.000 8.000 4.000  
 8.000 8.000 8.000 8.000

CONFIGURATION DESCRIPTION  
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 LARC 8-137-893 (1A3) C3516URATION 02/14/57  
 LARC 8-137-893 (1A3) C3516URATION 02/14/57

DATA SET SYMBOL  
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 2

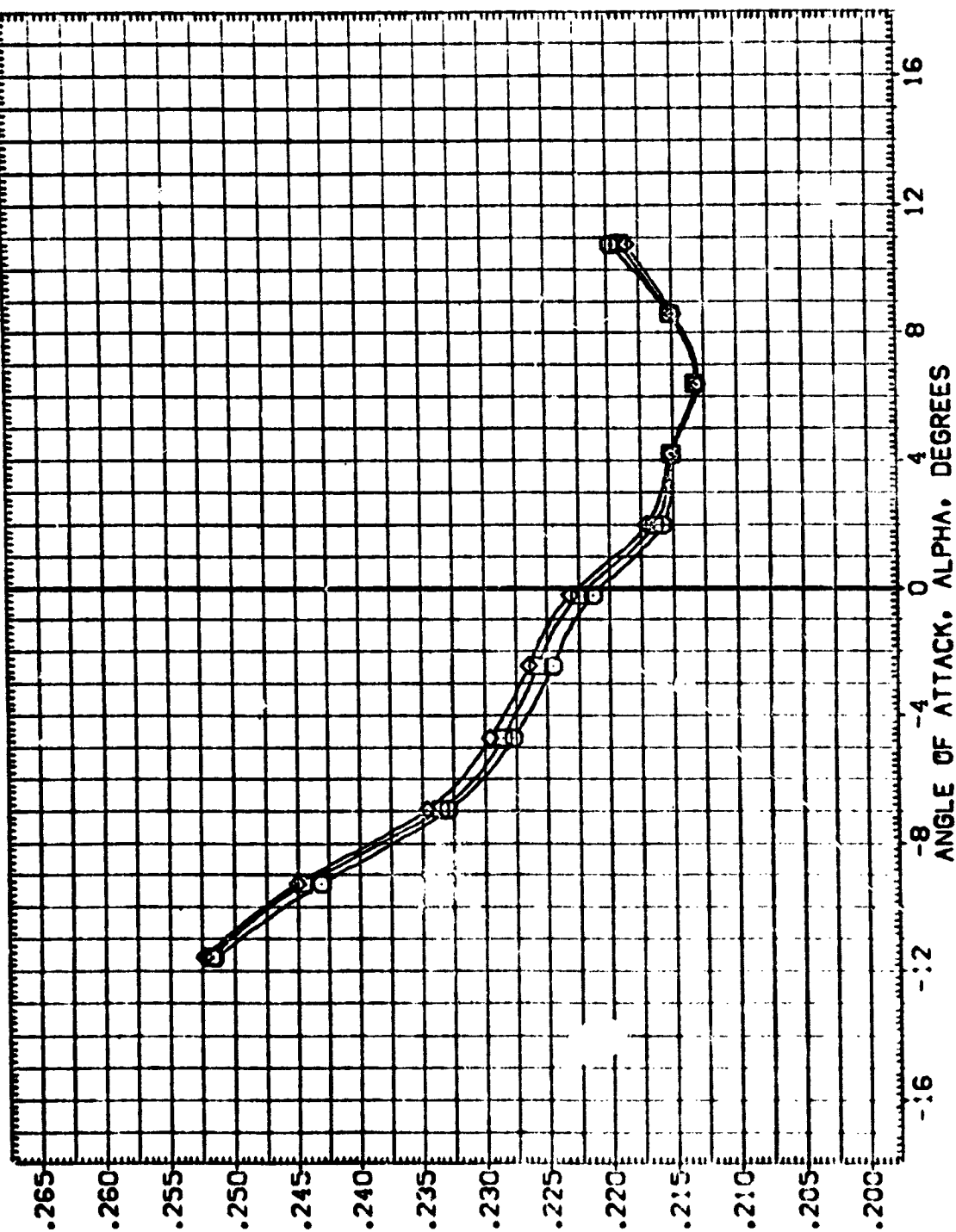


FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES  
 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

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DATA SET SYMBOL: Q  
 CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (A13) COF: GURATION 02/TA/57  
 REFERENCE INFORMATION: SQ. FT. 250.0000, INCHES 1750.3000  
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 ELV-LI: 8.000, 8.000, 8.000  
 ELV-RI: 8.000, 8.000, 8.000  
 ELV-RD: 0.000, 4.000, 8.000  
 REFERENCE INFORMATION: SQ. FT. 400.0000, INCHES 1750.3000  
 XREF: 8.000, 8.000, 8.000  
 YREF: 8.000, 8.000, 8.000  
 ZREF: 8.000, 8.000, 8.000  
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BASE AXIAL FORCE COEFFICIENT, CAB

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

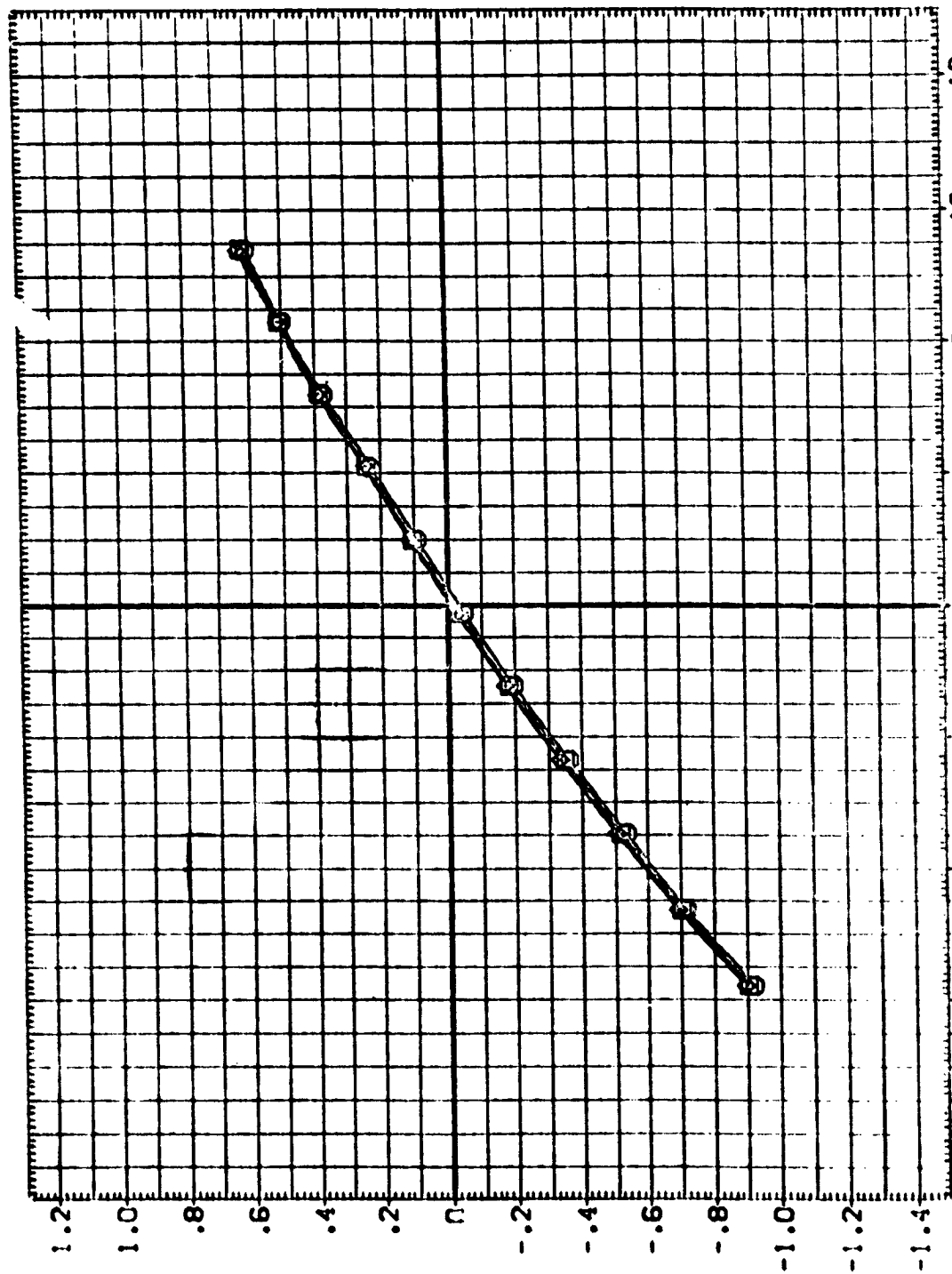
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DATA SET SYMBOL: 01  
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 LANC 8-137-693 (143) CONFIGURATION 02/14/57  
 LANC 8-137-693 (143) CONFIGURATION 02/14/57

ELV-L0 8.000  
 ELV-L1 8.000  
 ELV-R1 8.000  
 ELV-R0 8.000

REFERENCE INFORMATION  
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 BREF 1290.3000 INCHES  
 XMRP 976.0000 IN. XT  
 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT, CNF

ANGLE OF ATTACK, ALPHA, DEGREES

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EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

MACH = 1.13

DATA SET SYMBOL CONFIGURATION DESCRIPTION

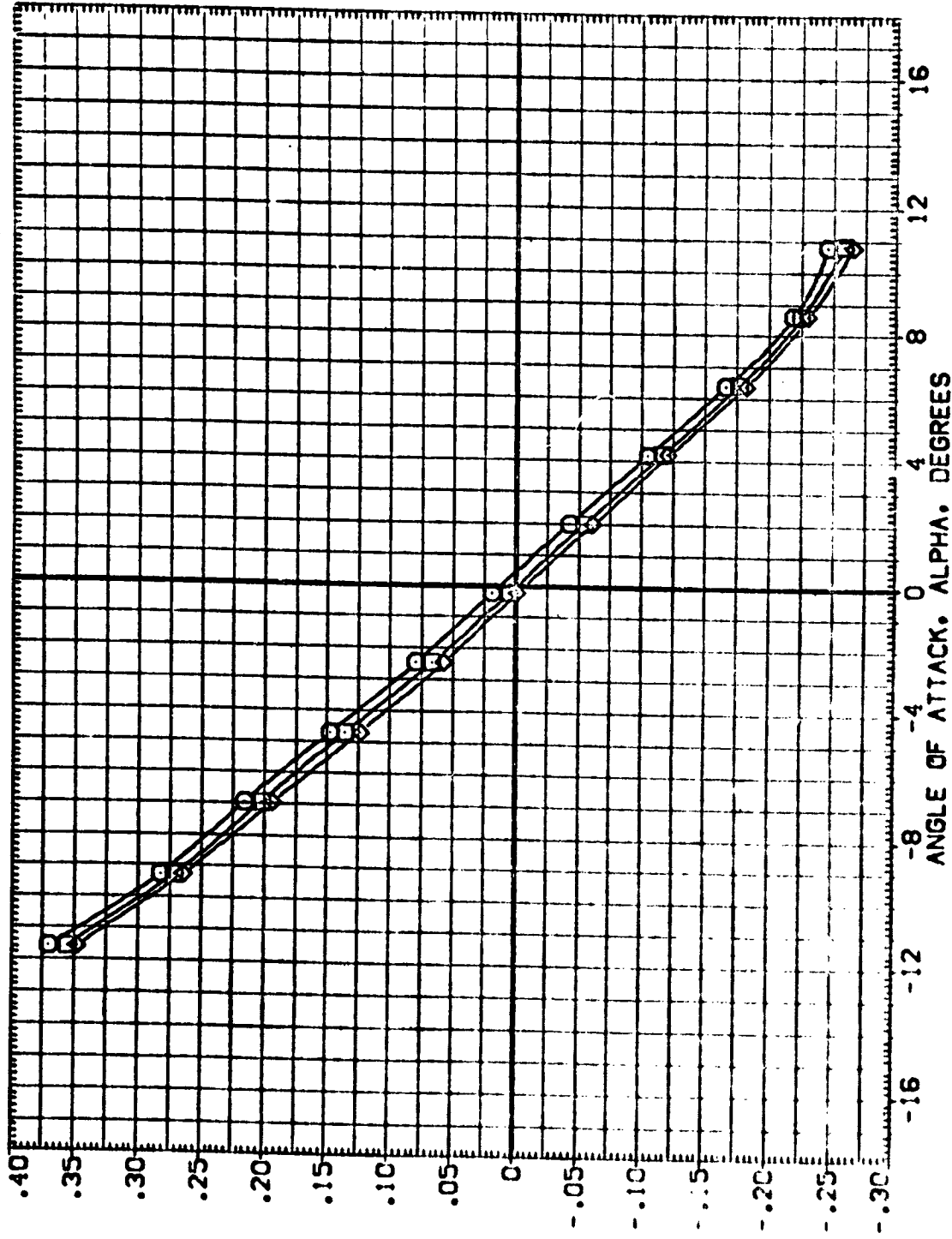
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 (B-C011) LARC 8-TPT-693 (A43) COF IGURATION 02/14/57  
 (B-C012) LARC 8-TPT-693 (A43) COF IGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000 8.000 8.000 8.000  
 4.000 8.000 8.000 8.000  
 8.000 8.000 8.000 8.000

REFERENCE INFORMATION

SREF 2590.0000 SQ.FT.  
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 BREF 1290.3000 INCHES  
 XMRP 976.0000 IN. XT  
 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100



BODY PITCHING MOMENT COEFFICIENT • CLM

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

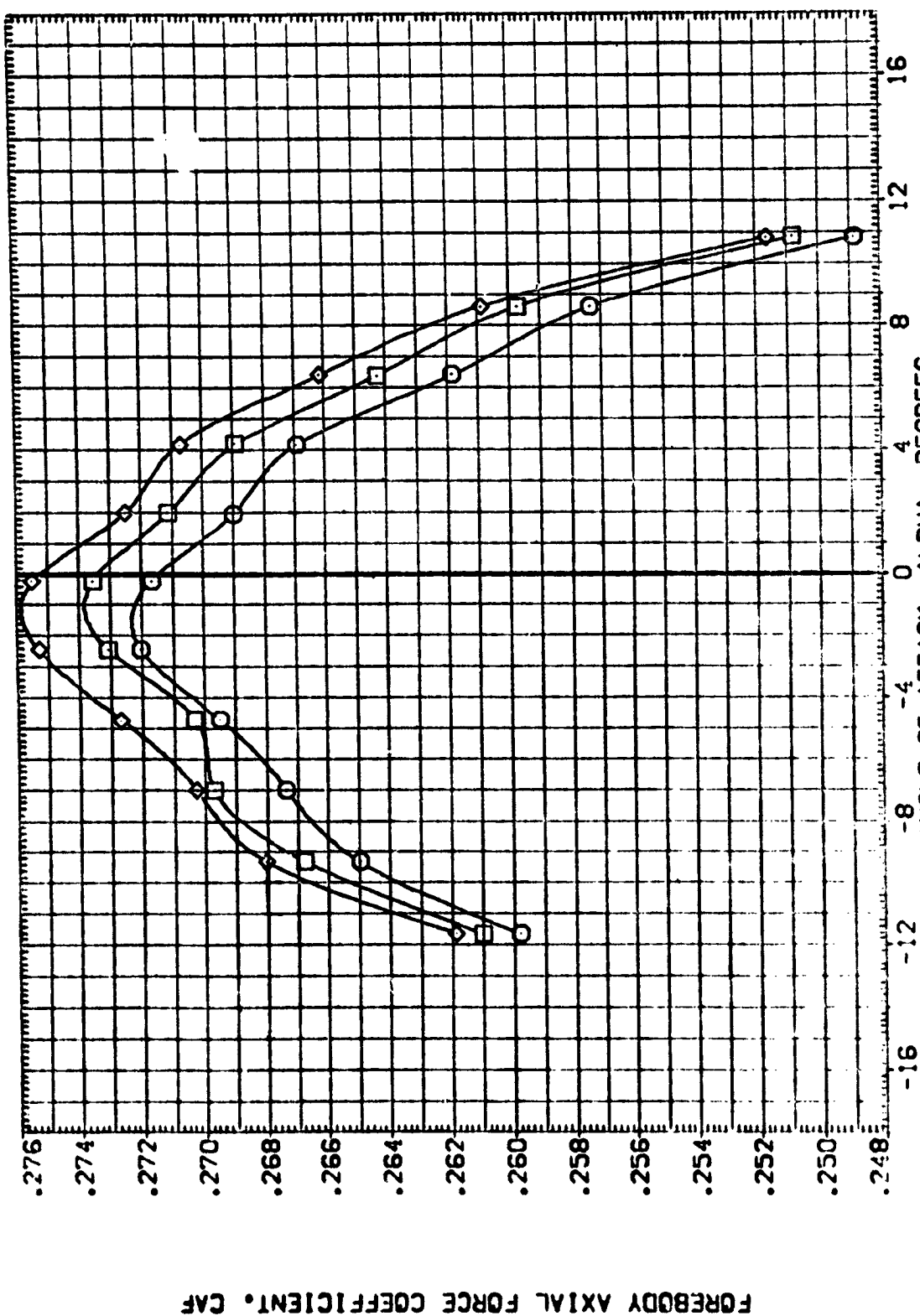
(C)MACH = 1.13



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 8-001-1 C LARC 8-101-693 (1A13) CONFIGURATION 02/14/57  
 8-001-2 Z LARC 8-101-693 (1A13) CONFIGURATION 02/14/57  
 8-001-3 Z LARC 8-101-693 (1A13) CONFIGURATION 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0  
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 8.000 8.000 8.000 8.000

REFERENCE INFORMATION  
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 LREF 1290.3000 IN.-ES  
 BREF 1290.3000 IN.-ES  
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 YMRP 400.0000 IN. YT  
 ZMRP 400.0000 IN. ZT  
 SCALE .0100



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

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EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: (B-C0:0) (B-C0:1) (B-C0:2)

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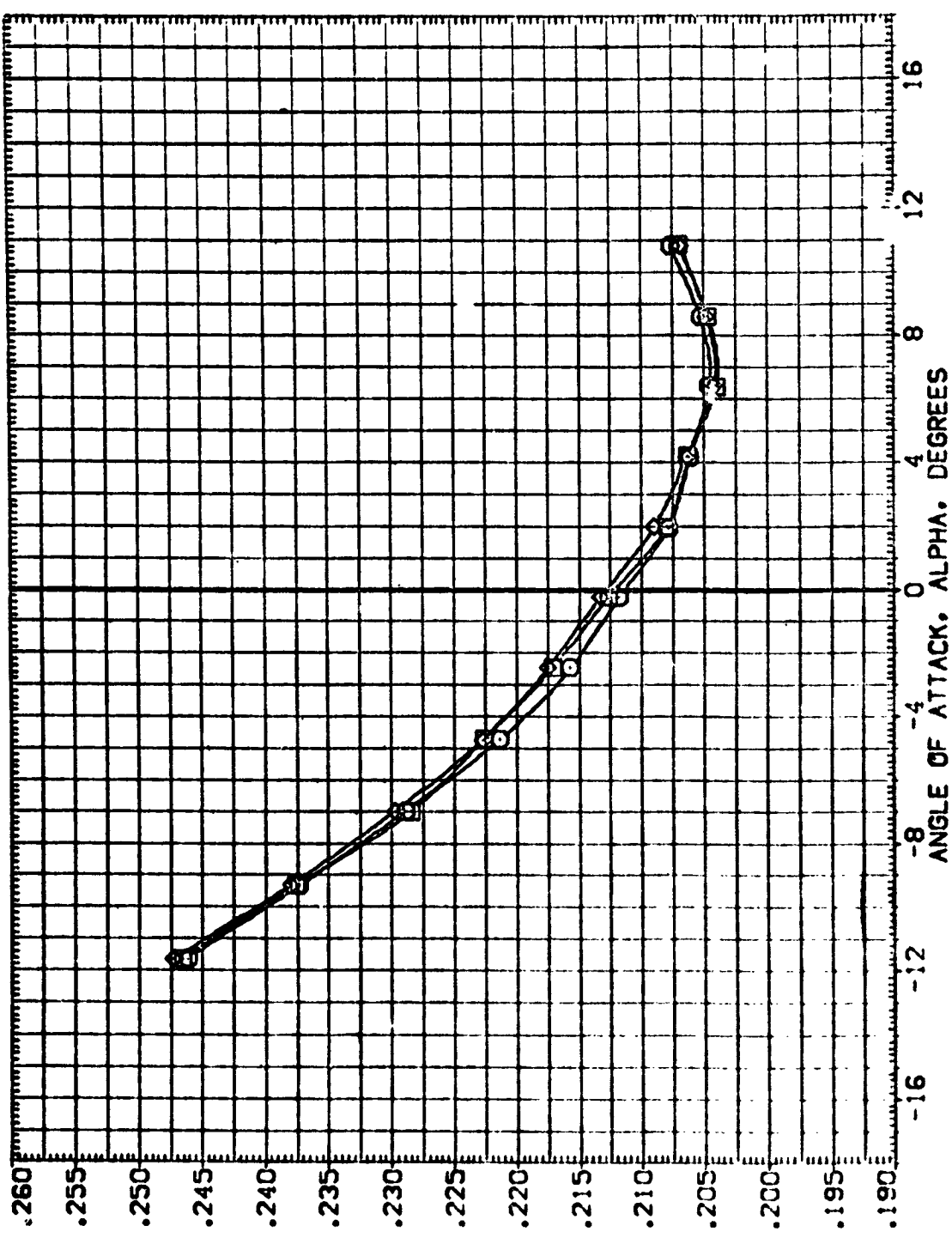
CONFIGURATION: 02/14/57 02/14/57 02/14/57

ELV-L0 ELV-L1 ELV-R1 ELV-R0

SREF 2600.0000  
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BREF 1290.3000  
XTRP 976.0000  
YTRP 400.0000  
ZTRP 400.0000  
SCALE .0100

SO.FT. INCHES IN. XT IN. YT IN. ZT

BASE AXIAL FORCE COEFFICIENT, CAB



EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

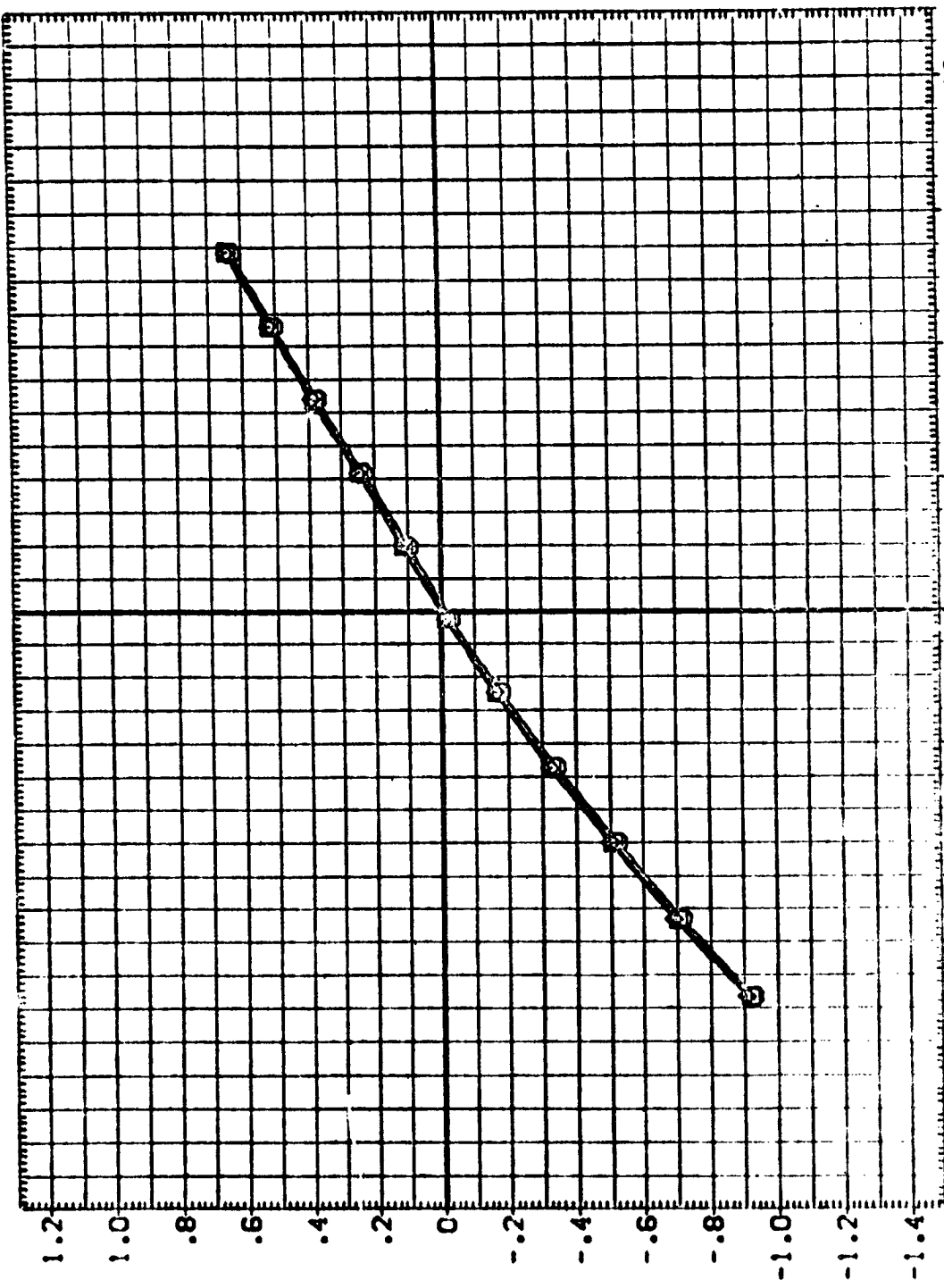
(0)MACH = 1.20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LG	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
9-02-10	LARC 8-107-693 (1A3) CONFIGURATION 02/14/57	.000	8.000	8.000	.000	SREF 2690.0000 SQ.FT.
9-02-11	LARC 8-107-693 (1A3) CONFIGURATION 02/14/57	4.000	8.000	8.000	4.000	LREF 1290.3000 INCHES
9-02-12	LARC 8-107-693 (1A3) CONFIGURATION 02/14/57	8.000	8.000	8.000	8.000	BREF 1290.3000 INCHES
						XMRP 976.0000 IN. YI
						YMRP .0000 IN. YI
						ZMRP 400.0000 IN. ZI
						SCALE .0100



FOREBODY NORMAL FORCE COEFFICIENT • CNF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL: (B-C010) (B-C011) (B-C012)

CONFIGURATION DESCRIPTION: LARC 8-TPT-693 (1A43) LARC 8-TPT-693 (1A43) LARC 8-TPT-693 (1A43)

CONFIGURATION: 02/14/57 02/14/57 02/14/57

ELV-L0: .000 4.000 8.000

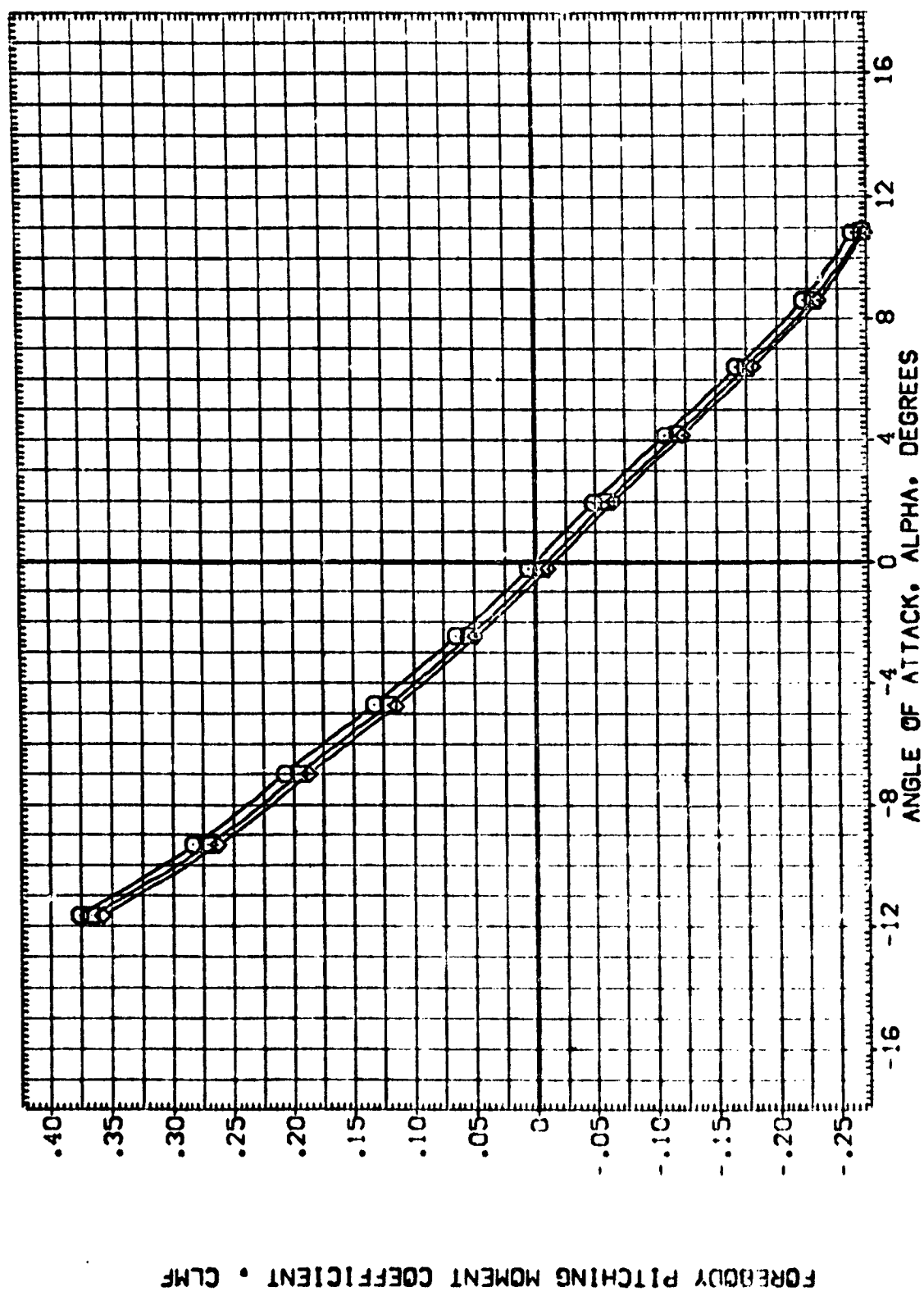
ELV-L1: 8.000 8.000 8.000

ELV-R1: 8.000 8.000 8.000

ELV-R0: .000 4.000 8.000

REFERENCE INFORMATION: SREF 2690.0000 LREF 1290.3000 BREF 1290.3000 XWRP 976.0000 YWRP 400.0000 ZWRP 400.0000 IN. ZT .0100

50 FT. INCHES IN. XT IN. YT



FOREBODY PITCHING MOMENT COEFFICIENT • CMF

EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONGITUDINAL CHARACTERISTICS

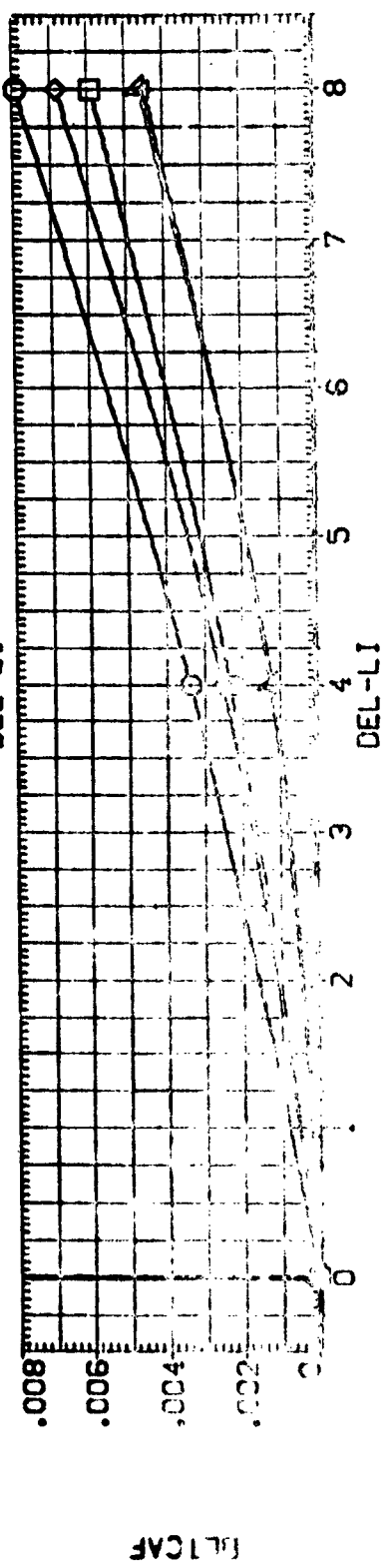
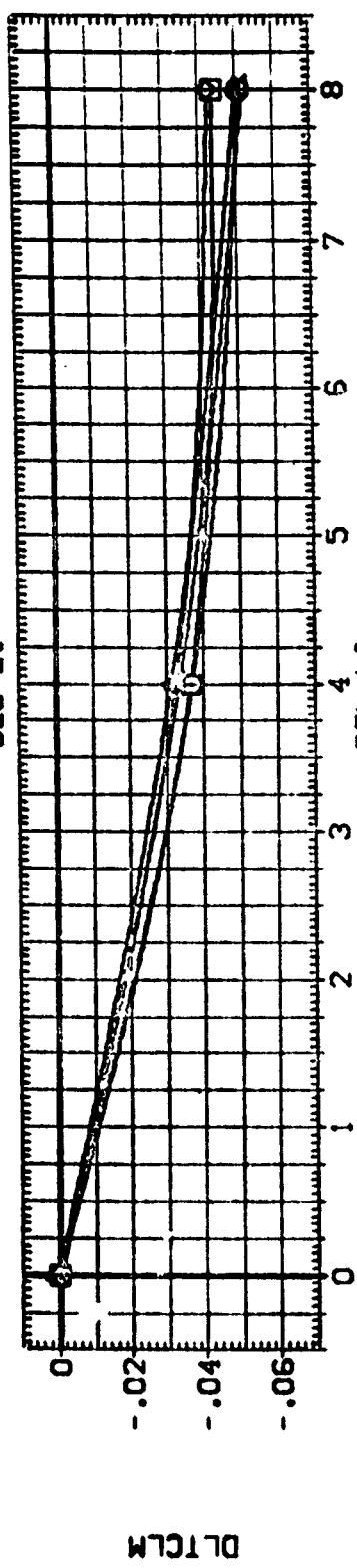
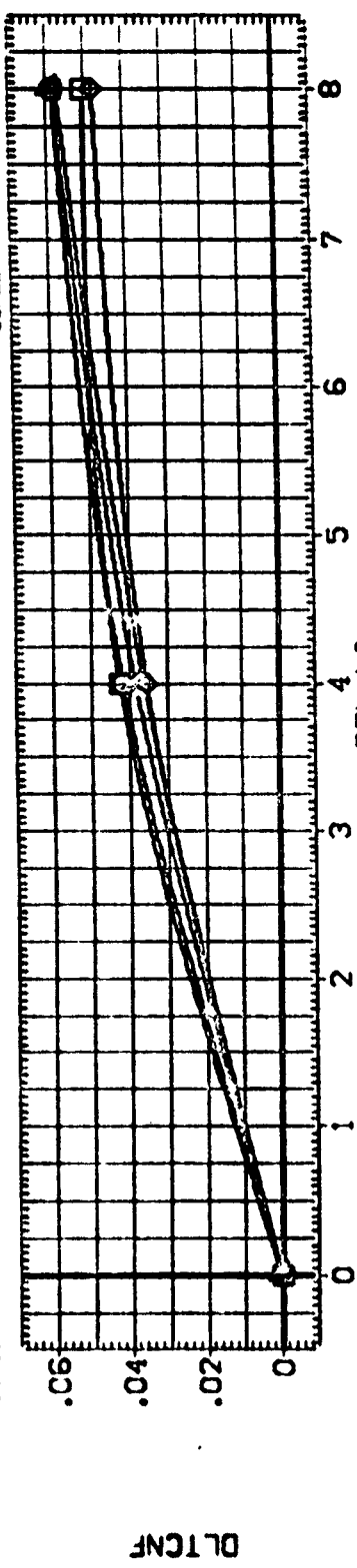
(D)MACH = 1.20





LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (DHC006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
□	-8.000	DEL-RG	.900	DEL-L0	.000	DATASET	DEL-LI	SREF
□	-4.000	RUDDER	.000	BETA	.000	D-C006	4.000	LREF
◇	4.000	BOFLAP	.000	SPOBRK	8.000	D-C010	4.000	BREF
△	8.000		.000				400.0000	XMRP
							400.0000	ZMRP
							.0100	SCALE
								50.FT.
								INCHES
								IN. XI
								IN. YI
								IN. ZI



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LARC 8-TPT-693 (JA43) CONFIGURATION 02/T4/S7 (DHCO06)

SYMBOL  
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ALPHA  
 -8.000  
 -4.000  
 .000  
 4.000  
 8.000

MACH  
 .960  
 .000  
 .000  
 .000

DEL-RO  
 .000  
 .000  
 .000

RUDER  
 .000  
 .000

EDFLAP  
 .000

PARAMETRIC VALUES  
 DEL-LO  
 BETA  
 SPOBRK

DATA SOURCE  
 DEL-LI  
 DEL-LI  
 DEL-LI

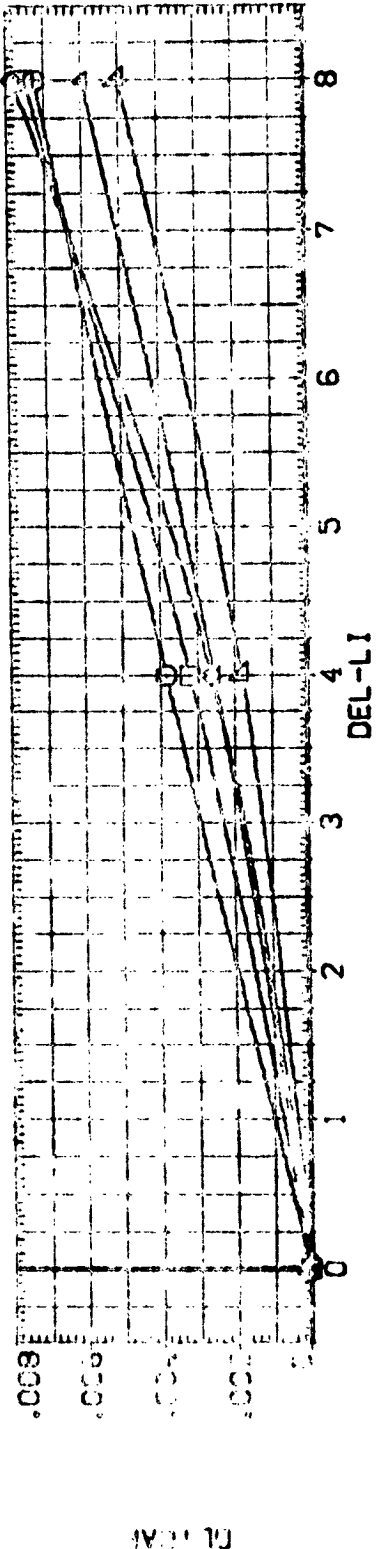
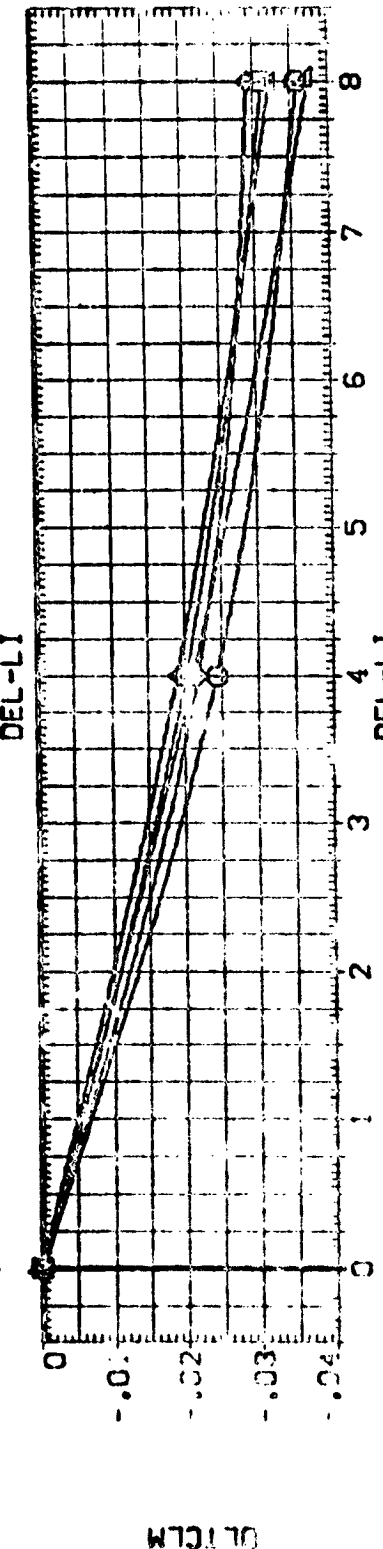
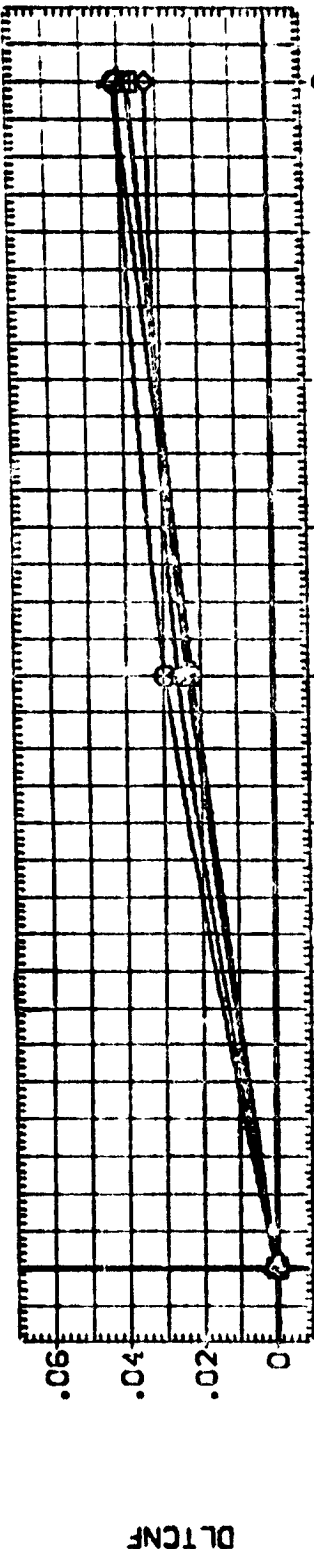
DATASET  
 D-C015  
 D-C006  
 D-C010

DEL-LI  
 4.000  
 6.000  
 8.000

REF REF  
 XMRP  
 ZMRP

SCALE  
 .0100

REFERENCE INFORMATION  
 SO, FT.  
 INCHES  
 IN. YI  
 IN. ZI

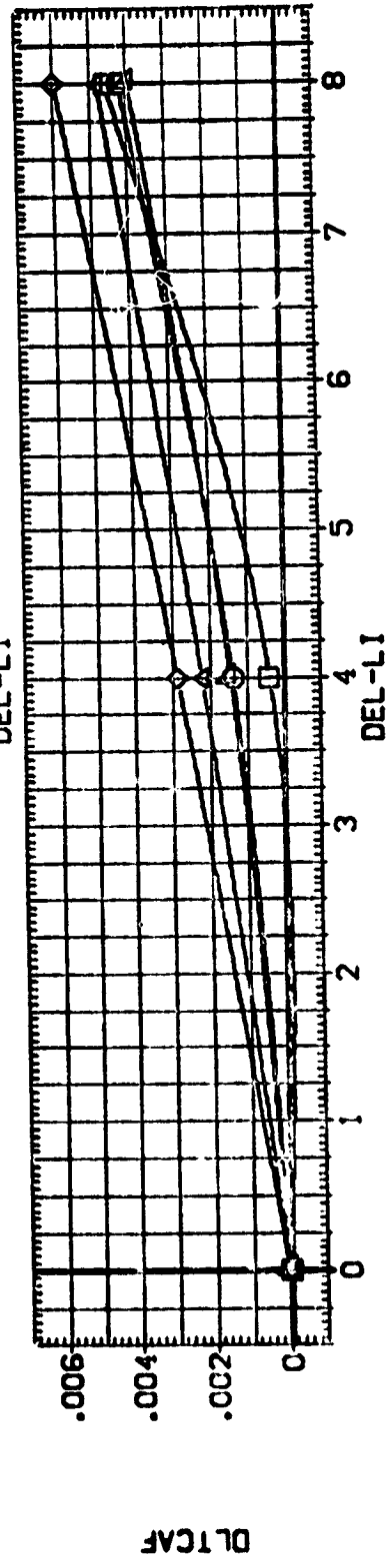
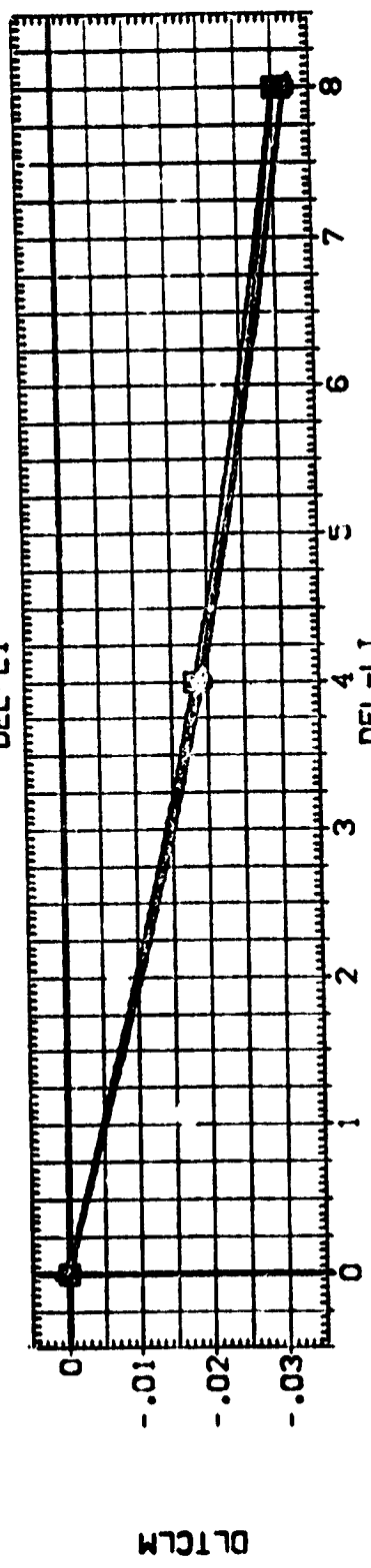
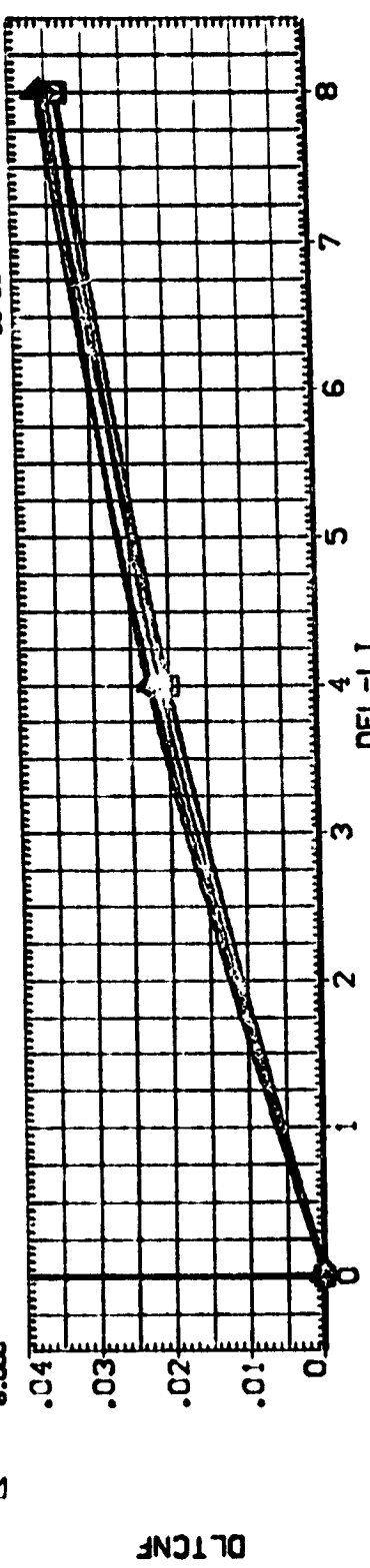


LAUNCH VEHICLE INCREMENTAL LONGITUDINAL CHARACTERISTICS DUE TO ELEVON DEFLECTION



LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/S7 (DHCO06)

ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
-8.000	1.130	DEL-L0	DEL-L1	SO FT.
-4.000	.000	BETA	D-C015	INCHES
.000	.000	SPOBRK	D-C010	IN. XT
4.000	.000	BOFLAP	.000	IN. YT
8.000			8.000	IN. ZT
			SCALE	
				.0100



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ALPHA  
 -8.000  
 -4.000  
 .000  
 4.000  
 8.000

MACH  
 DEL-RO  
 FLUDDER  
 BOFLAP

PARAMETRIC VALUES  
 1.200 DEL-LG  
 .000 BETA  
 .000 SPOBRK  
 .000

.000 DATASET  
 .000 D-C008  
 .000 D-C010

DATA SOURCE  
 DEL-LI  
 .000  
 8.000

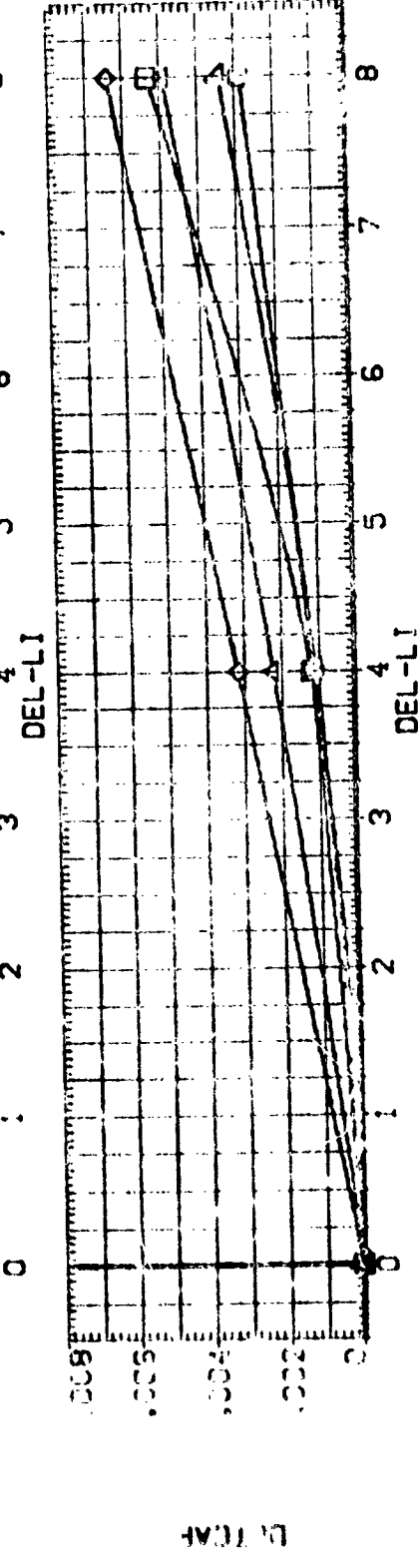
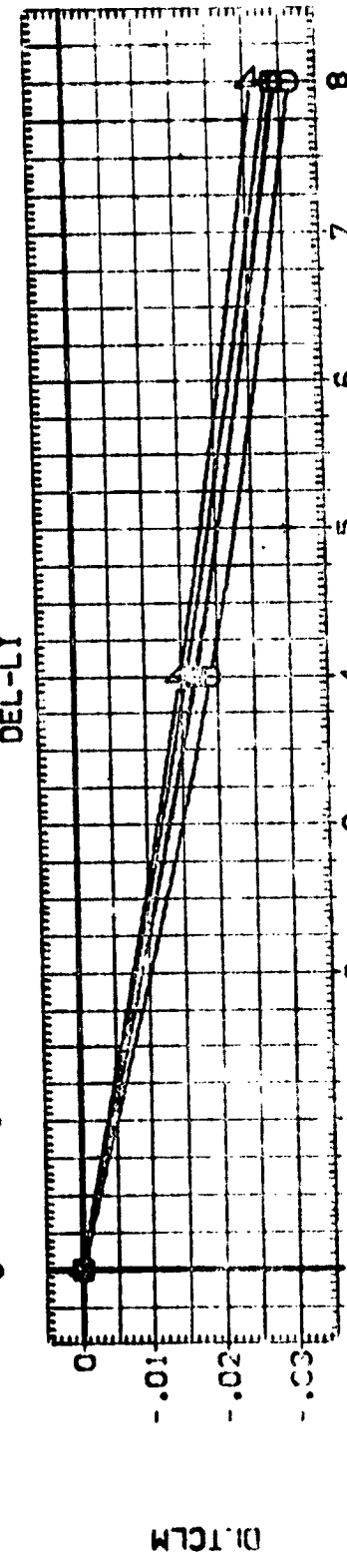
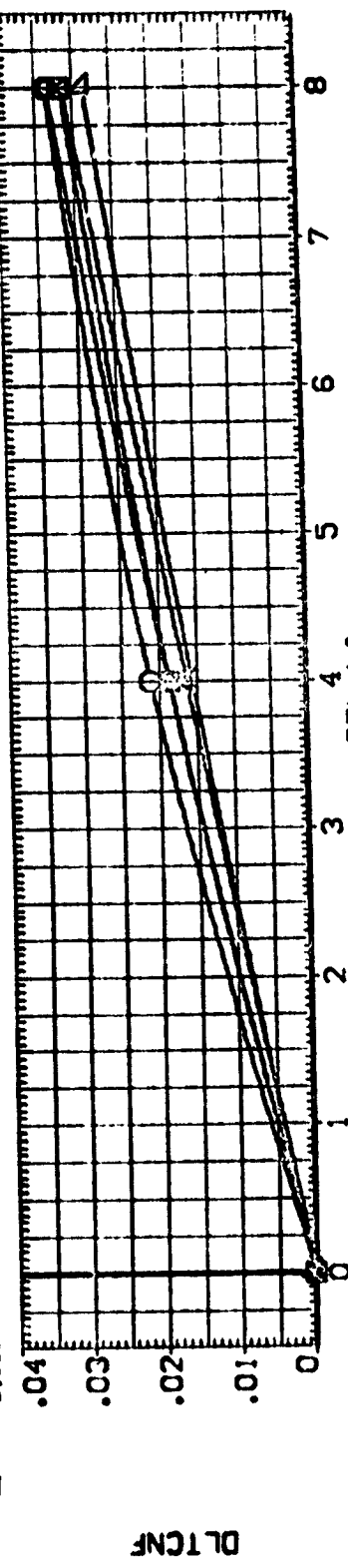
DATASET  
 D-C015

DEL-LI  
 4.000

SREF  
 LREF  
 YREF  
 ZREF  
 SCALE

2500.0000  
 50.0000  
 50.0000  
 376.0000  
 400.0000  
 .0100

REFEREE INFORMATION  
 SQ.FT.  
 INCHES  
 IN. YI  
 IN. ZI



LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (DHCO15)

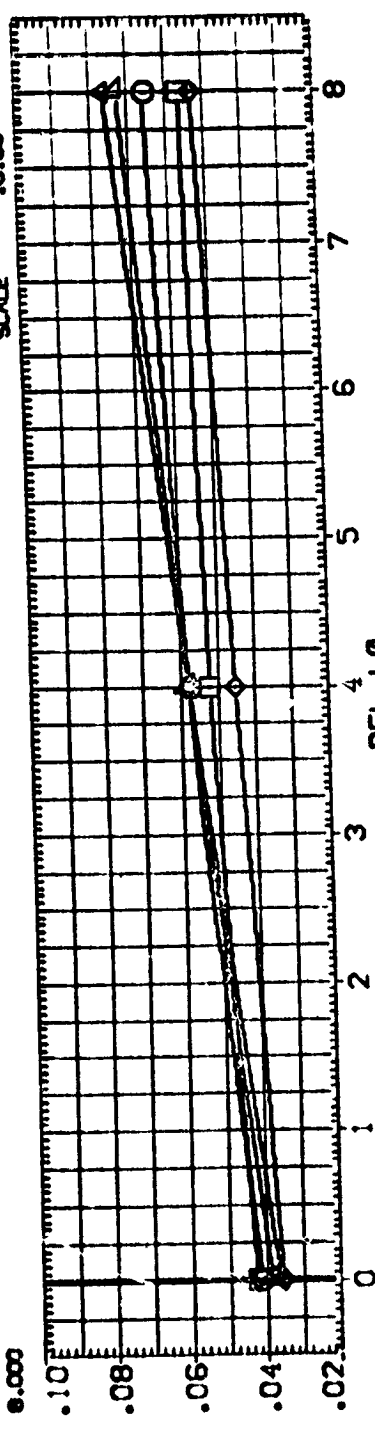
REFERENCE INFORMATION  
 SQ.FT. 2690.0000  
 INCH-ES 1290.3000  
 IN. XT 1290.3000  
 IN. YI 576.0000  
 IN. ZI 400.0000  
 SCALE .0100

DATA SOURCE  
 DEL-LO 4.000  
 DATASET D-CO14

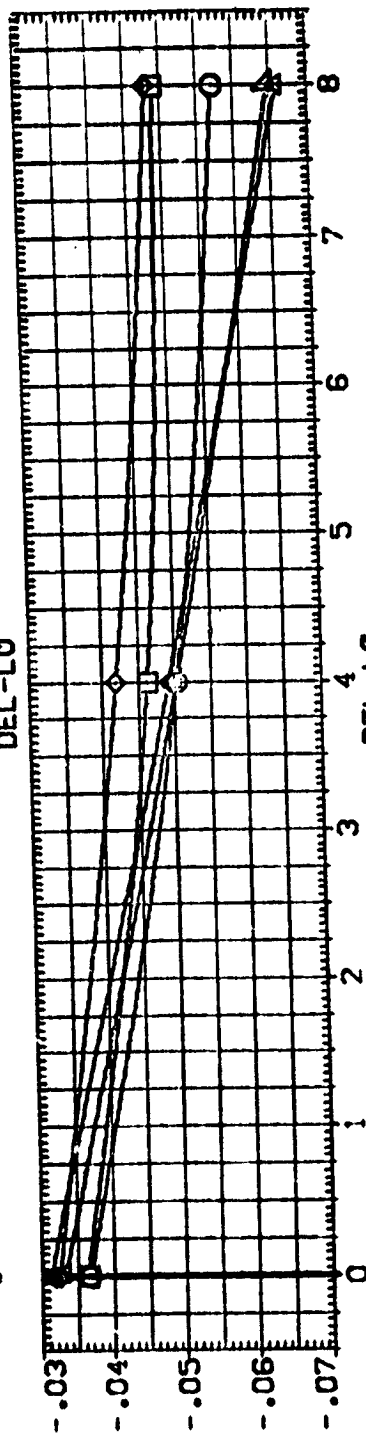
PARAMETRIC VALUES  
 DEL-LI 4.000  
 DATASET D-CO15  
 D-CO13 .000  
 D-CO15 .000  
 D-CO13 .000

MACH .900  
 DEL-RI 4.000  
 BETA .000  
 RUDDER .000  
 SPOBRK .000  
 BDFLAP .000

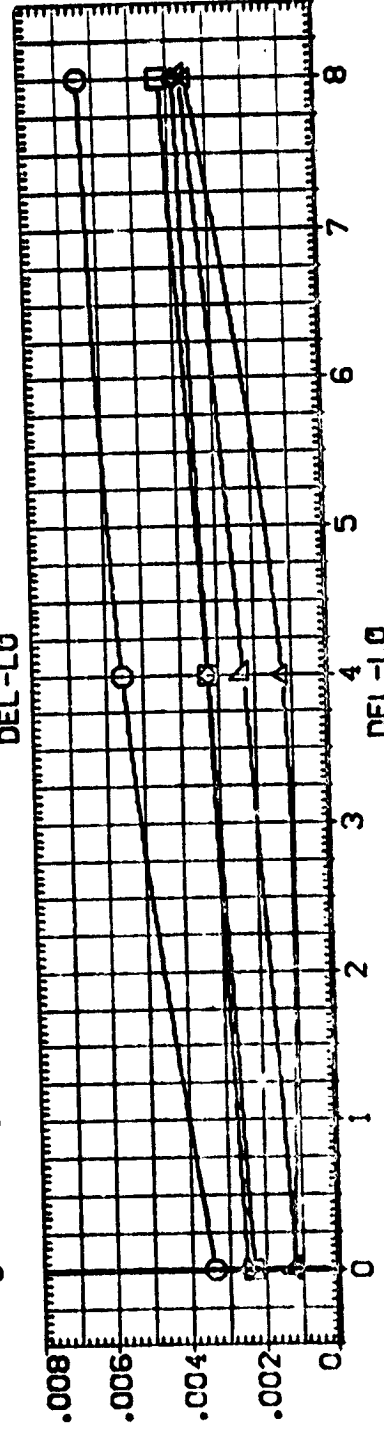
SYMBL  
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DLTCLF



DLTCLM



DLTCAF

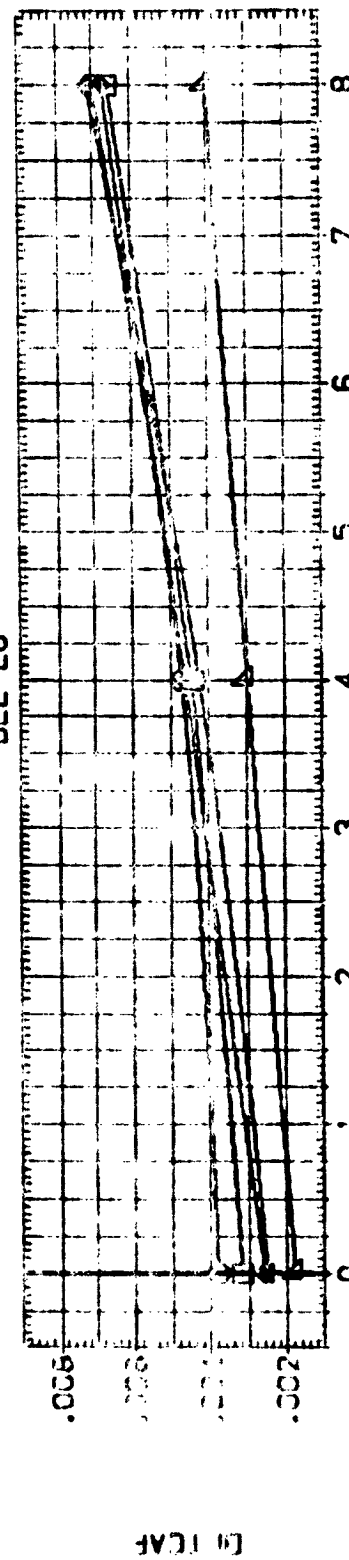
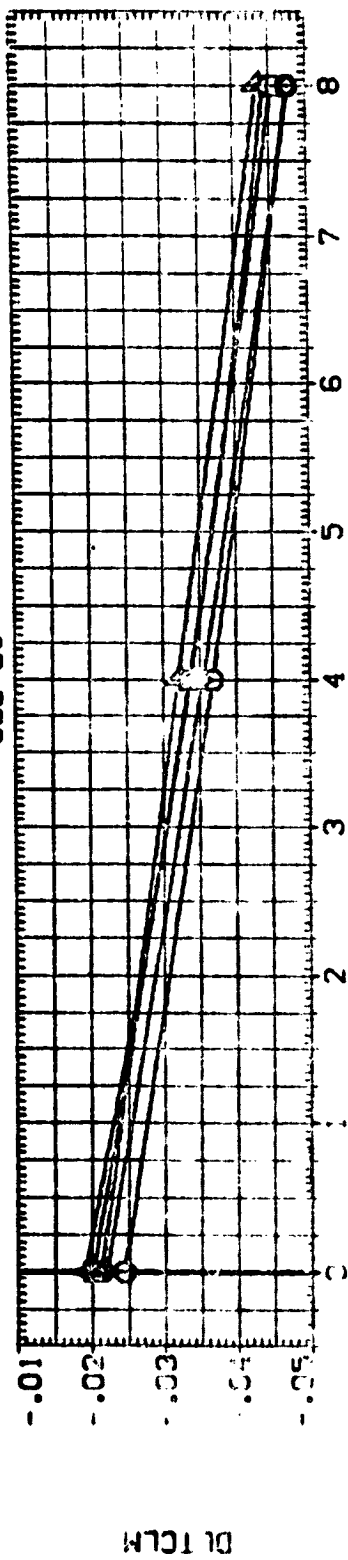
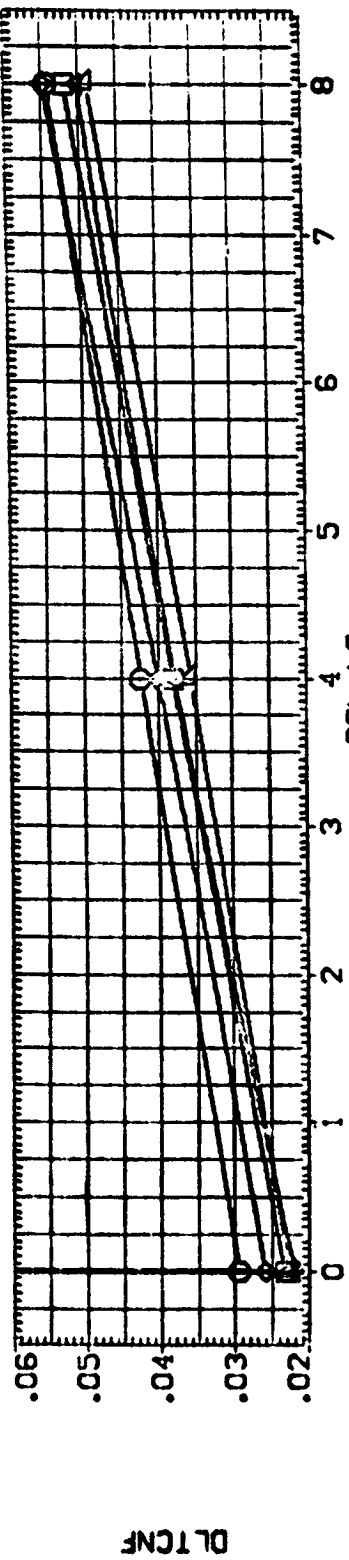
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LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/57 (DHCO15)

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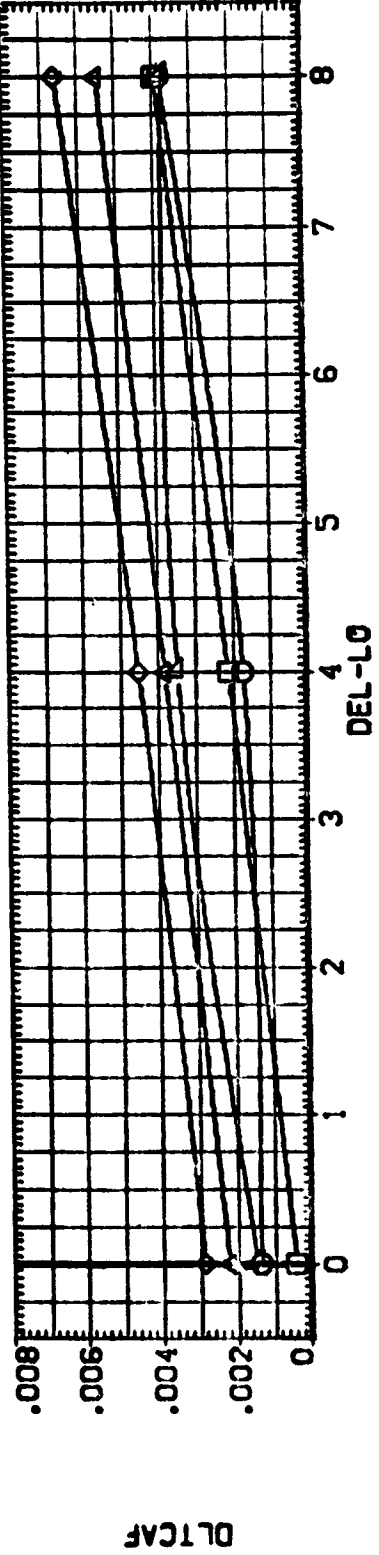
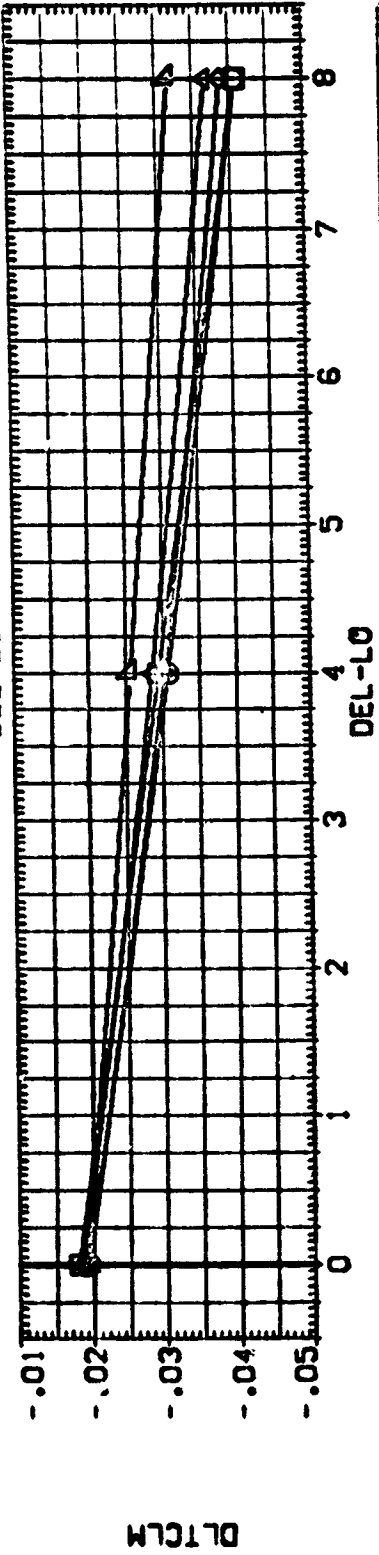
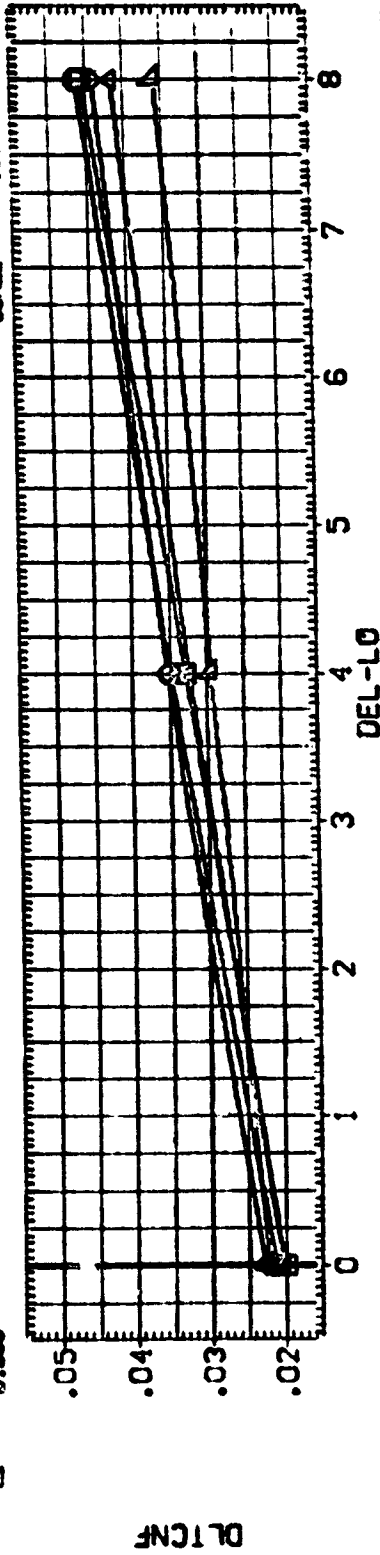
PARAMETRIC VALUES  
 MACH .980 DEL-L1 4.000 BETA .000 SPOBRK .000  
 DEL-R1 .000 DEL-L0 .000 D-CO15 .000 D-CO13 .000  
 RUDDER .000 DEL-L0 .000 D-CO14 .000  
 BDFLAP .000 SREF 4.000 DEL-L0 .000  
 REFERENCE INFORMATION  
 SQ.FT. 2350.0000  
 IN.-ES 1290.3000  
 IN.-ES 1290.3000  
 IN. XT 978.0000  
 IN. YT 400.0000  
 IN. ZT 400.0000  
 SCALE .0100



LAUNCH VEHICLE INCREMENTAL LONGITUDINAL CHARACTERISTICS DUE TO ELEVON DEFLECTION

LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (DHC015)

SYMBL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
▽	-8.000	MACH 1.130	DEL-LO 4.000	2650.0000
□	-4.000	DEL-L1 4.000	DATASET D-C014	1250.3000
◇	.000	BETA .000	DEL-LO 4.000	1250.3000
△	4.000	SPDRK .000	D-C013 .000	576.0000
	8.000	RJDRR .000	DEL-LO 4.000	400.0000
		BDFLAP .000	SCALE .0100	



ARC 8-TPT-693 (IA43) CONFIGURATION DATA/SF (DHC015)

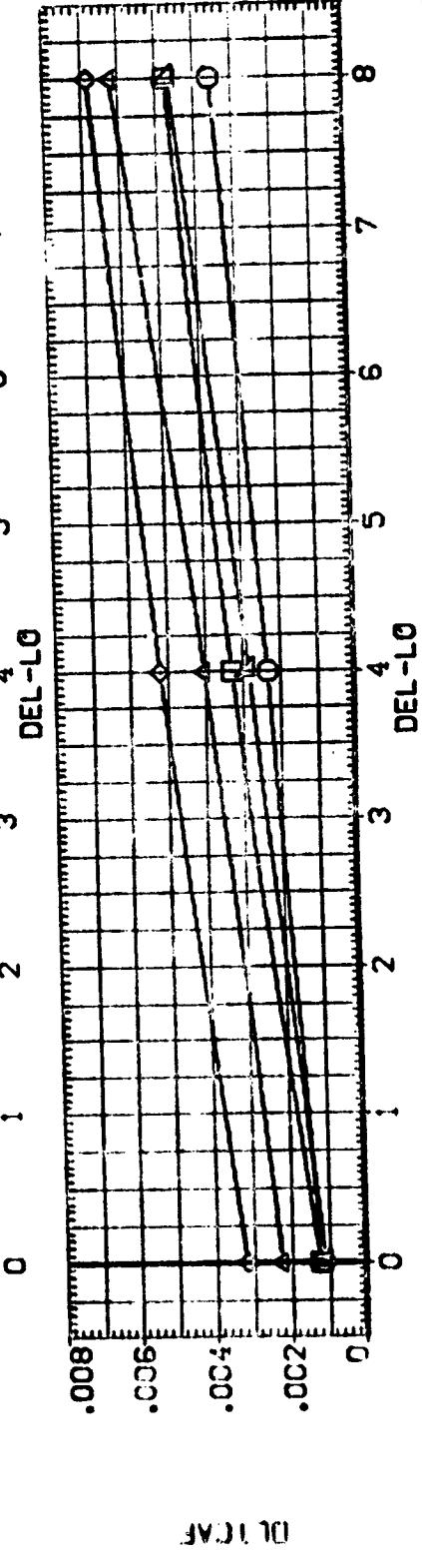
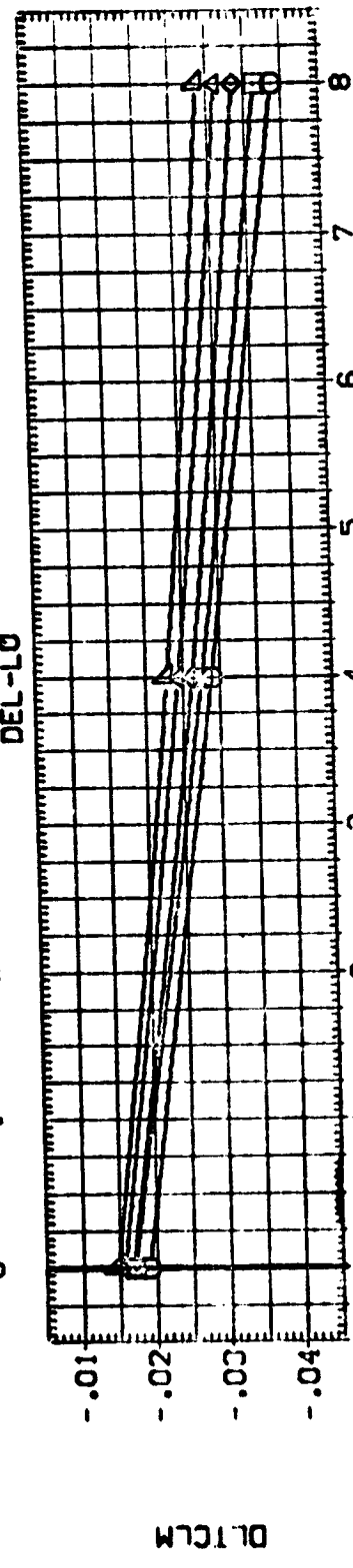
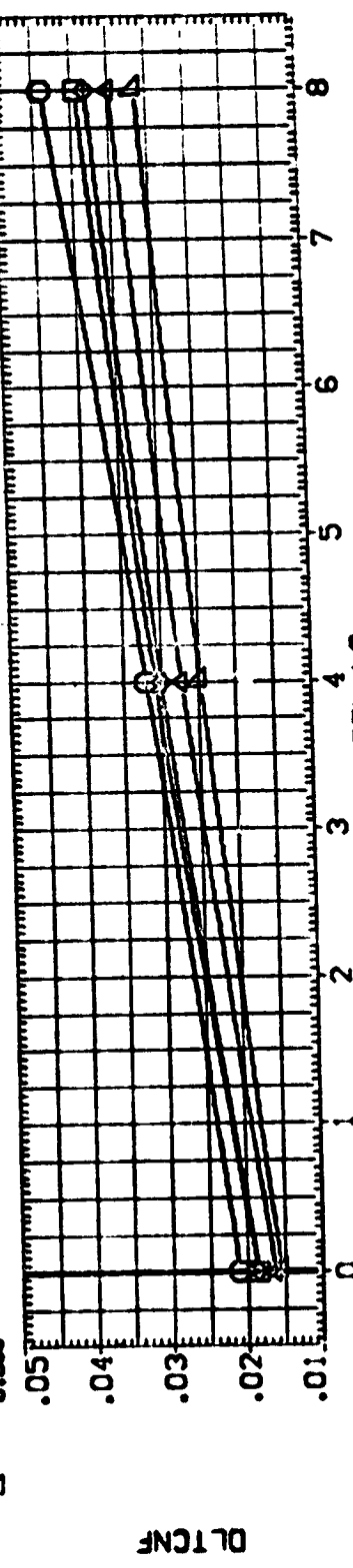
REFERENCE INFORMATION:  
 SQ. FT. 2692.0000  
 INCHES 10.3000  
 IN. XT 576.0000  
 IN. YZ 400.0000  
 IN. ZT .0100

DATA SOURCE DEL-LO DATASET DEL-LO SREF  
 DEL-LO D-C014 1.000 LREF  
 .000 D-C015 8.000 XPRP  
 .000 D-C013 8.000 YPRP  
 .000 ZPRP  
 .000 SCALE

PARAMETRIC VALUES DEL-LI DEL-LI DEL-LI  
 1.200 DEL-LI 4.000 BETA SPOBRK  
 4.000 DEL-RI .000 BETA SPOBRK  
 4.000 RUDDER .000 SPOBRK  
 8.000 EOF LAP .000 SPOBRK

ALPHA -8.000  
 -4.000  
 .000  
 4.000  
 8.000

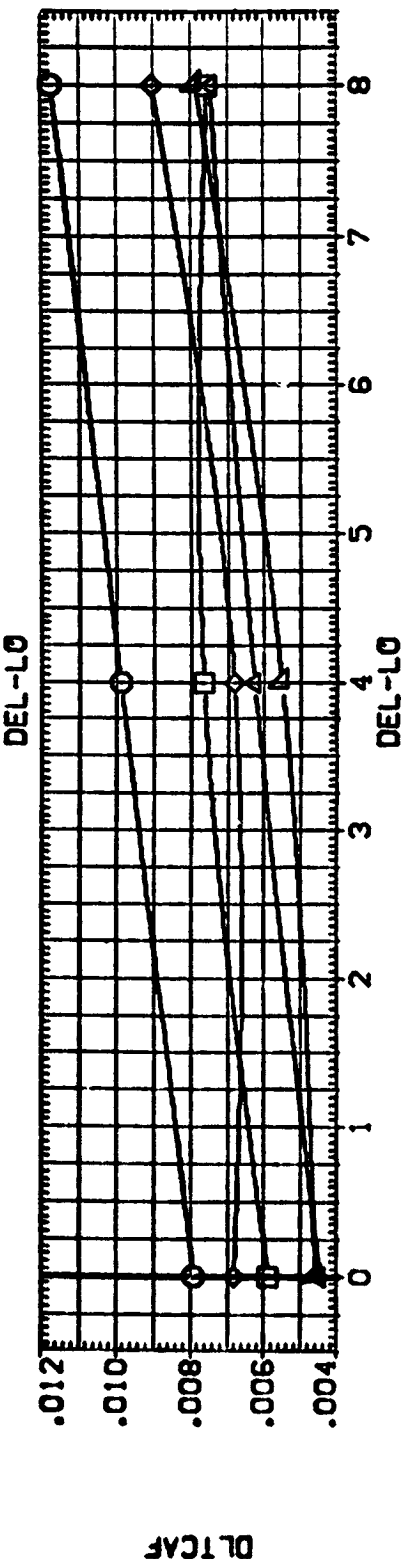
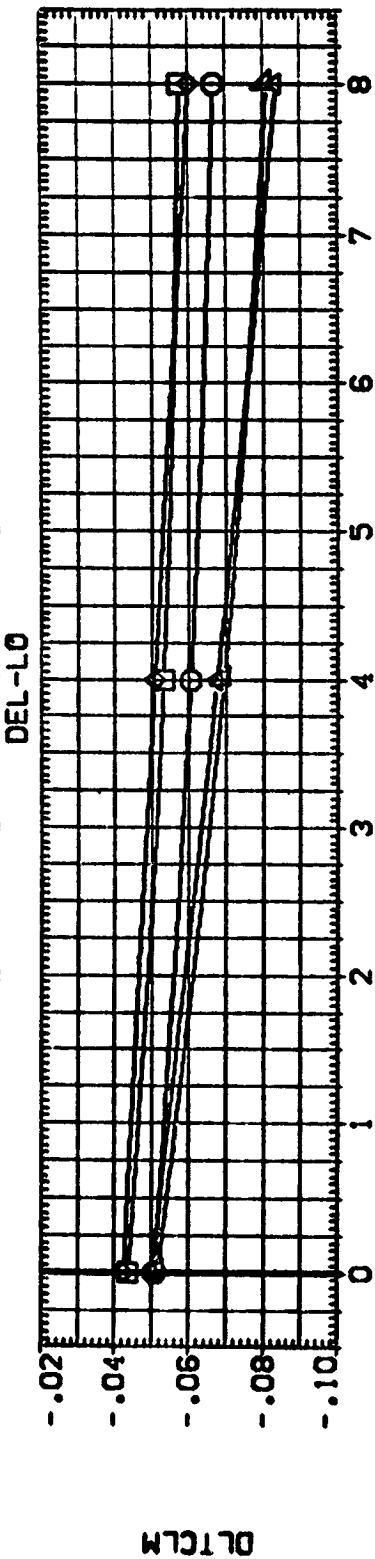
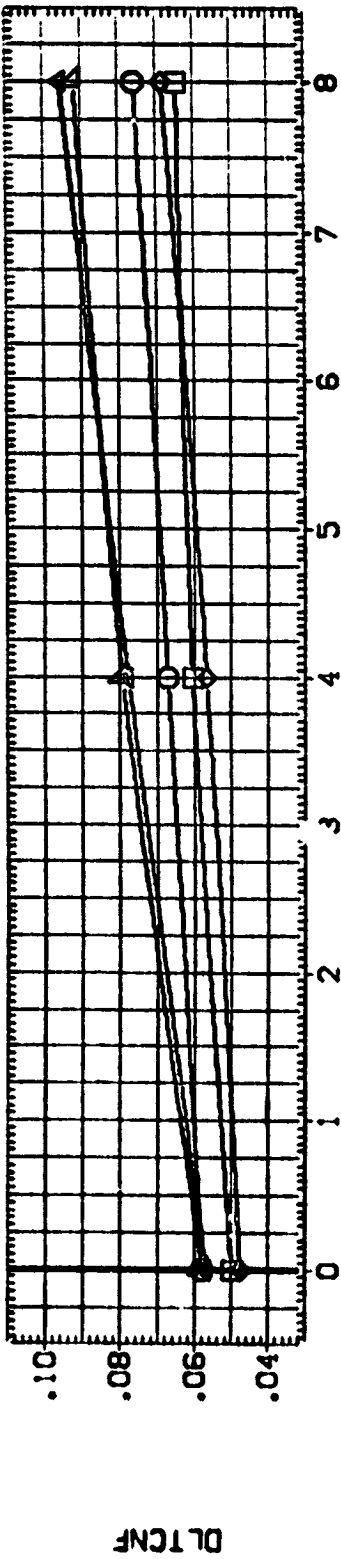
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LARC 8-TPT-693 (1A43) CONFIGURATION 02/T4/S7 (DHC010)

SYMBL	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	ALPHA	DEL-LG	2690.0000 SQ.FT.
◇	MACH	DEL-LG	1290.3000 INCHES
○	DEL-91	DEL-LG	1290.3000 INCHES
△	RUDER	DEL-LG	576.0000 IN. XT
	BDFLAP	DEL-LG	400.0000 IN. YI
		DEL-LG	400.0000 IN. ZI
		SCALE	.0100



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CONF-504 (M43) CONFIGURATION 02/14/57 (DHCO111)

PARAMETRIC VALUES  
 MACH .800 DEL-L1 9.000 DATASET DEL-L0 4.000 SREF 250.0000  
 DEL-R1 9.000 BETA .000 D-CO10 .000 D-CO11 4.000 LREF 250.0000  
 RUDDER .000 SPOBRK .000 D-CO12 9.000 XREF 250.0000  
 EOFLAP .000 .000 .000 YMRP 976.0000  
 .000 .000 .000 ZMRP 400.0000  
 .000 .000 .000 SCALE 400.0100

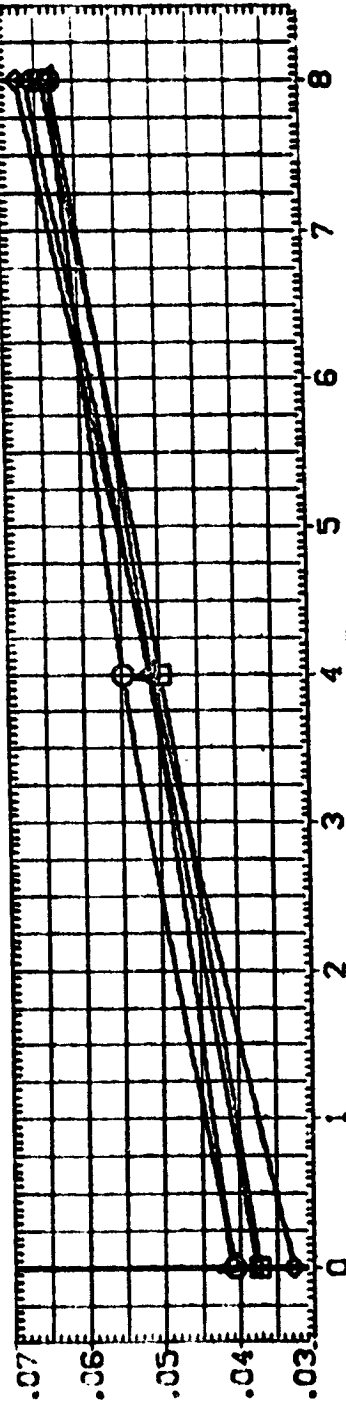
DATA SOURCE

PARAMETRIC VALUES

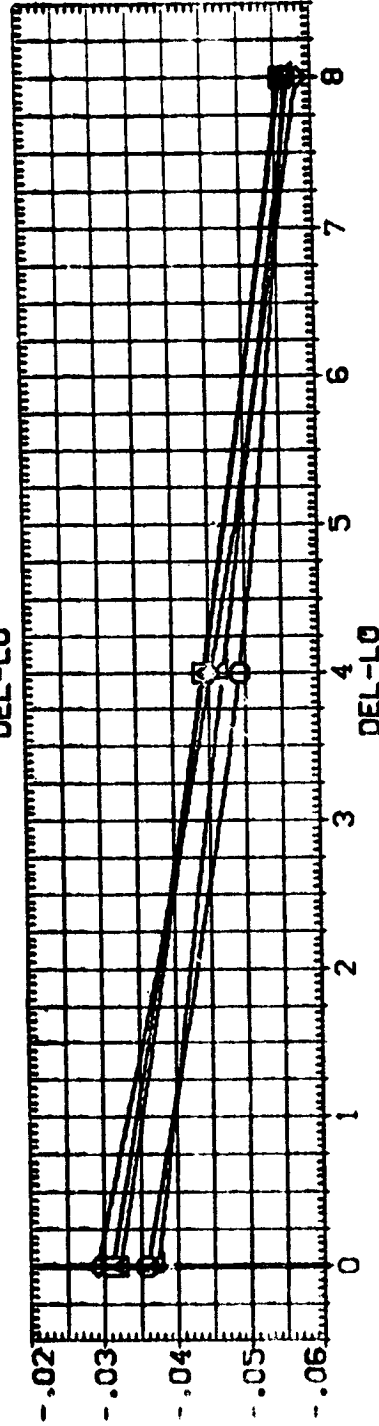
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 DEL-R1 9.000 BETA .000 D-CO10 .000 D-CO11 4.000 LREF 250.0000  
 RUDDER .000 SPOBRK .000 D-CO12 9.000 XREF 250.0000  
 EOFLAP .000 .000 .000 YMRP 976.0000  
 .000 .000 .000 ZMRP 400.0000  
 .000 .000 .000 SCALE 400.0100

CONF-504 (M43) CONFIGURATION 02/14/57 (DHCO111)

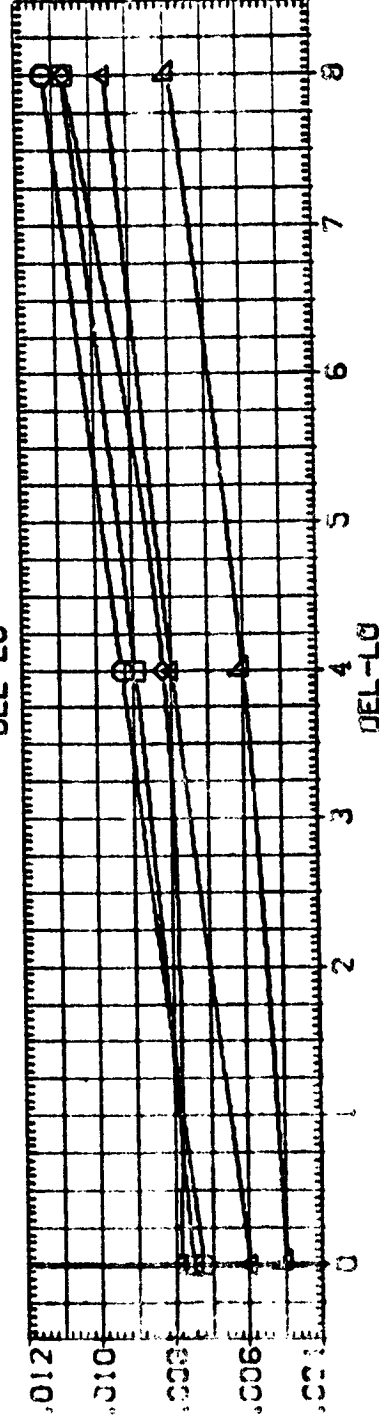
CONF-504 (M43) CONFIGURATION 02/14/57 (DHCO111)



DLTCNF



DLTCM

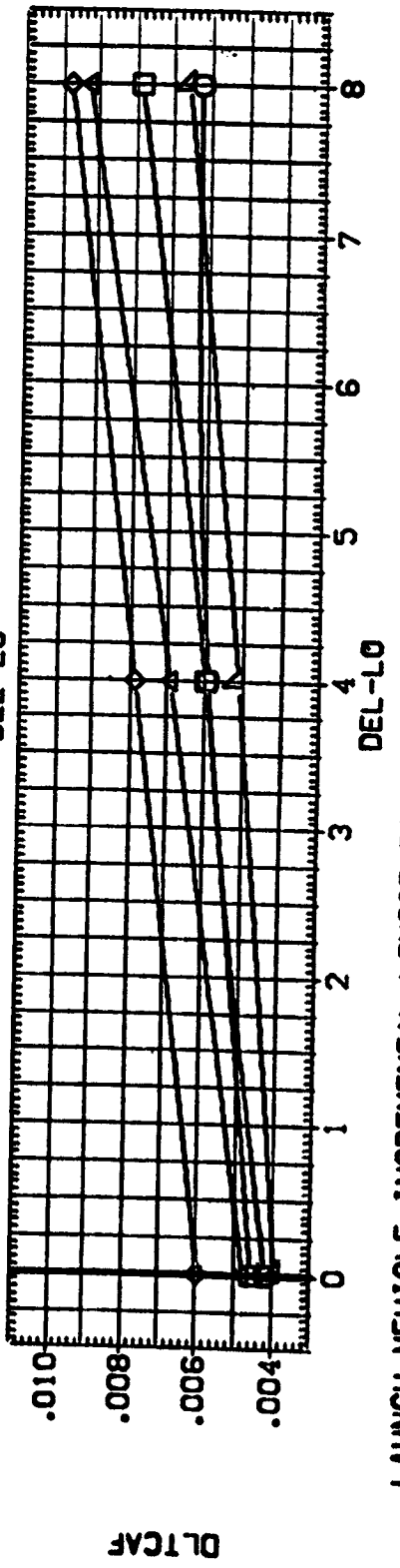
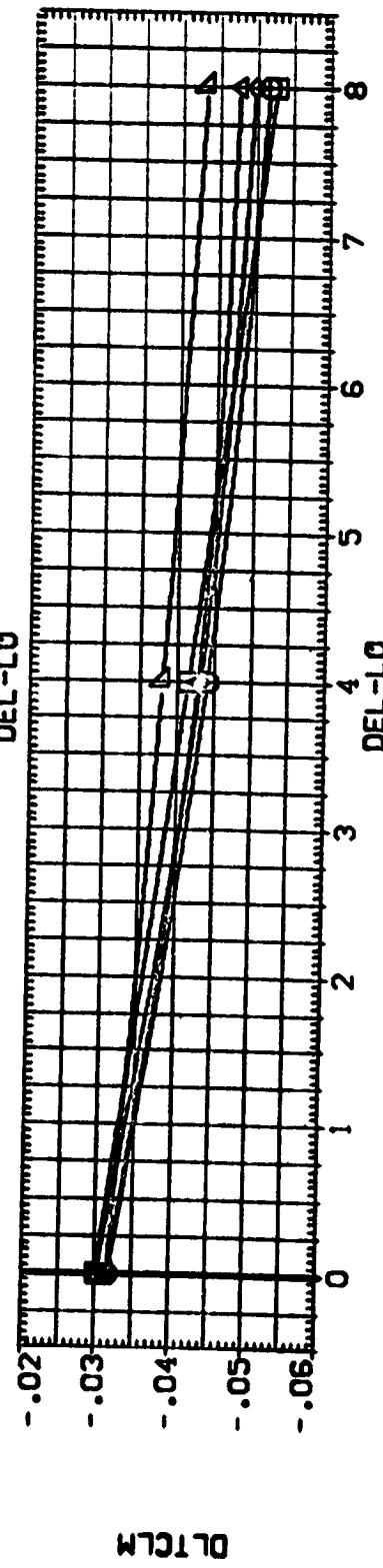
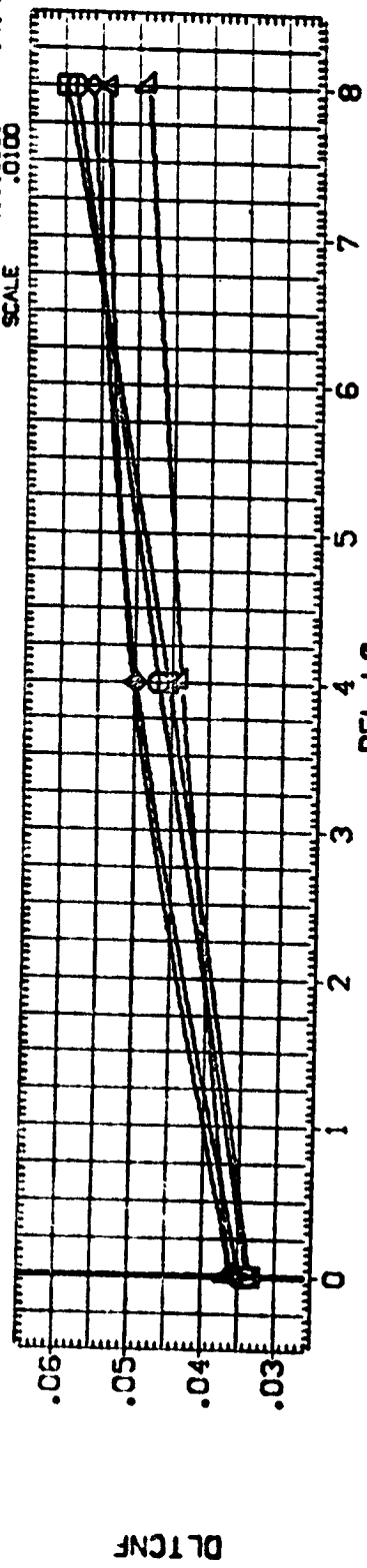


DLTC

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7 (DHC010)

SYMBOL  
 74011044

ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
-8.000	DEL-R1	1.130 DEL-L1	DEL-L0	2690.0000 SO.FT.
-1.000	RUDDER	8.000 BETA	D-C011	1290.3000 INCHES
4.000	BDFLAP	.000 SPOBRK	D-C012	1290.3000 INCHES
8.000		.000		976.0000 IN. XT
		.000		400.0000 IN. YT
		.000		400.0000 IN. ZT
		.000		SCALE .0100



LAUNCH VEHICLE INCREMENTAL LONGITUDINAL CHARACTERISTICS DUE TO ELEVON DEFLECTION

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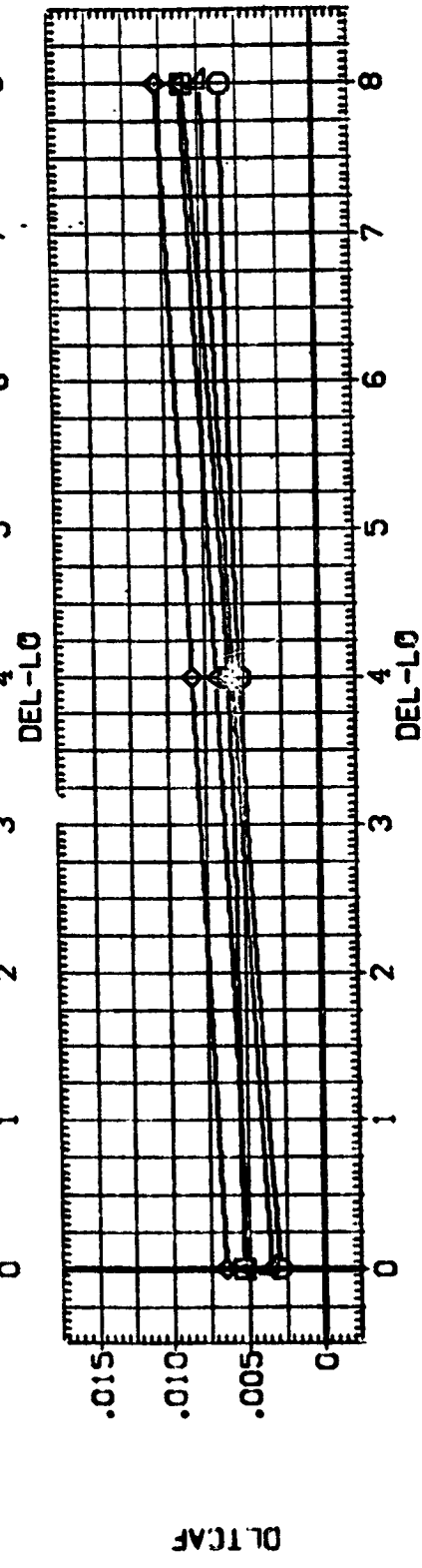
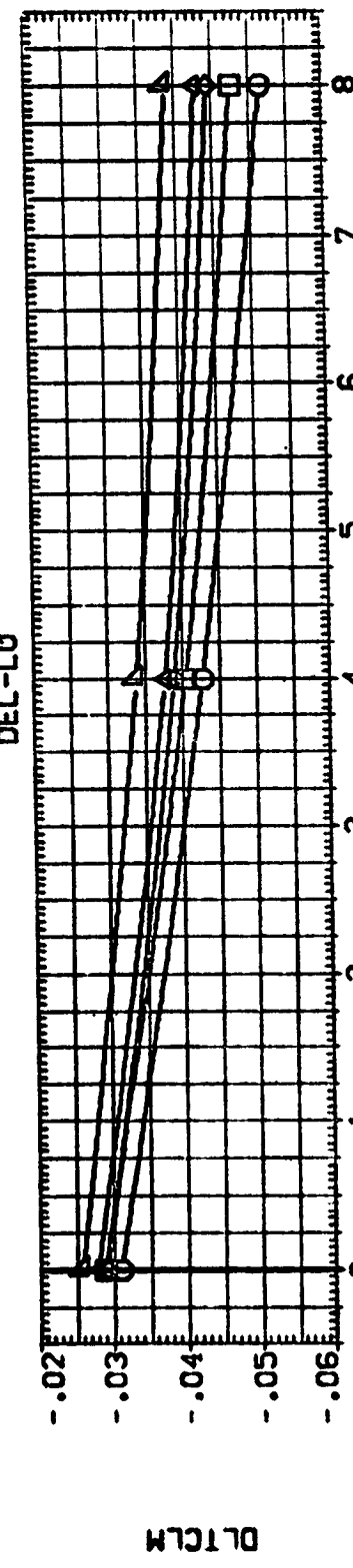
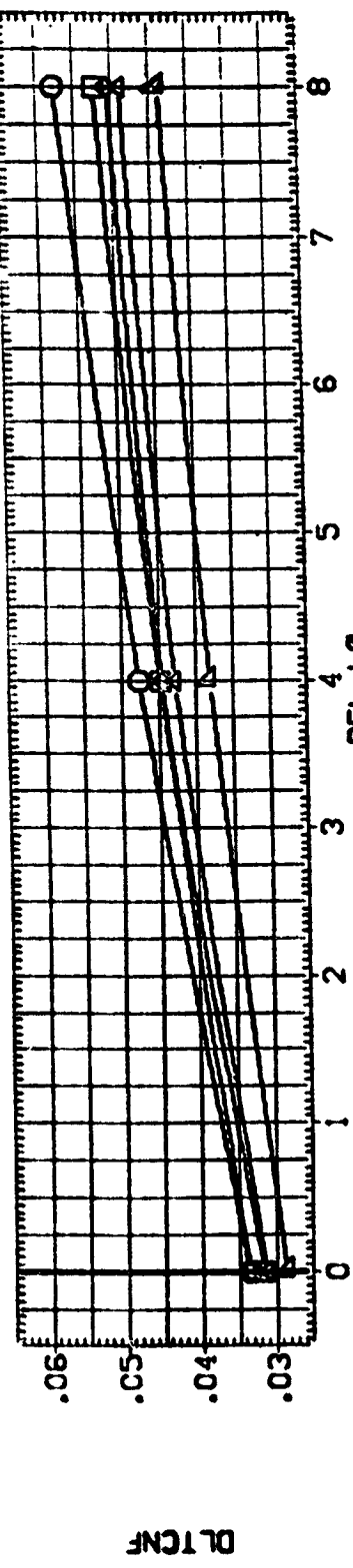
ARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57 (DHCO10)

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PARAMETRIC VALUES  
 MACH 1.200 DEL-LI 8.000 DATASET 8.000 DEL-L0 8.000  
 DEL-R1 8.000 BETA .000 D-CO10 .000 D-CO11 4.000  
 RUDDER .000 SPOBRK .000 D-CO12 8.000  
 BDFLAP .000

DATA SOURCE  
 DEL-L0 .000  
 D-CO11 8.000

REFERENCE INFORMATION  
 SC.FT. 1071.0000  
 INCHES 100.0000  
 IN. XT 100.0000  
 IN. YT 976.0000  
 IN. ZT 400.0000  
 ZMRP 400.0000  
 SCALE .0100



**APPENDIX**  
**TABULATED SOURCE DATA**

See next page for dataset name key and corresponding coefficient schedules.

Tabulations of plotted data are available on request from  
Data Management Services

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RHC---Datasets

CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D

AHC---Datasets

O + T + S

CNF, CLMF, CAF, CNBØ, CNBF, CABØ, CABET,  
CABSRB, CLMBØ, CLMBF

T + S

CN, CLM, CA, CAF, CABET, CABSRB

T

CN, CLM, CA, CAF, CABET

Note: There are no A data for datasets 029-036. Base pressure data for tunnel runs 098-105 were bad.

RHCM--Datasets

CLWI, CLWO, CMWG, CNW, XCPW, CBW, CTW  
(Datasets 02-16)

CLWI, CLWO, CNW, YCPW, CBW  
(Datasets 17, 18, 29-36)

Note: Instrumentation problems resulted in no usable CMWG, CTW or XCPW data for Datasets 17, 18, and 29-36.

LARC 8-TFT-693 (1A43) CONFIGURATION 03/74/97

(RMCO01) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2630.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 6/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
.800	-10.595	-.01308	-.73680	.29223	.31575	.01714	-.00770	-.00095	-.67061	.42274	-1.58634
.800	-8.502	-.01149	-.60089	.29085	.26032	.01371	-.00322	-.00120	-.55126	.37630	-1.46424
.800	-6.391	-.01021	-.46818	.28845	.23664	.01004	-.00208	-.00145	-.43316	.33877	-1.27863
.800	-4.307	-.00870	-.34442	.28598	.15777	.00716	-.00017	-.00155	-.32197	.31103	-1.03317
.800	-2.223	-.00442	-.23838	.28444	.11794	.00197	-.00194	-.00193	-.22717	.29347	-.77409
.800	-1.139	-.00281	-.13010	.28010	.07456	-.00455	-.00470	-.00241	-.12942	.28042	-.46153
.800	1.961	-.00359	-.01291	.27285	-.02724	-.00721	-.00520	-.00228	-.02224	.27225	-.06168
.800	4.042	-.00330	.10332	.26634	-.01896	-.00853	-.00513	-.00214	-.08449	.27297	.30863
.800	6.133	-.00497	.22282	.25946	-.06737	-.00822	-.00505	-.00197	-.19383	.26178	.68787
.800	8.223	-.00367	.34162	.24989	-.11727	-.00751	-.00545	-.00152	.30236	.29618	1.02088
.800	10.323	-.00224	.46992	.23983	-.16842	-.00323	-.00365	-.00096	.41934	.32016	1.30880
GRADIENT		.00172	.03370	-.00244	-.02123	-.00194	.00366	-.00007	.04874	-.00466	.16196

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 S'DBRK = .000 BOFLAP = .000

RUN NO. 5/ 0 RIVL = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
.801	-10.980	-.02004	-.78395	.31261	.32362	.01641	-.00885	-.00051	-.71206	.45659	-1.55953
.800	-8.800	-.01844	-.63326	.30820	.26017	.01374	-.00567	-.00041	-.58063	.40175	-1.44323
.800	-6.633	-.01567	-.48338	.30424	.23048	.01107	-.00302	-.00072	-.44499	.35806	-1.24277
.800	-4.464	-.01313	-.34333	.29871	.14808	.00806	-.00110	-.00099	-.32106	.32468	-.96883
.800	-2.331	-.00682	-.22121	.29420	.09845	.00256	-.00145	-.00137	-.20806	.30296	-.68008
.800	-1.191	-.00227	-.09706	.28783	.04737	-.00084	-.00250	-.00157	-.09610	.28816	-.33331
.801	1.958	-.00758	.02674	.28146	-.00447	-.00821	-.00494	-.00218	.01711	.28221	.06063
.800	4.098	-.00780	.15719	.27690	-.05590	-.00707	-.00340	-.00171	.13700	.28743	.47662
.801	6.245	-.00599	.29053	.27257	-.11397	-.00457	-.00157	-.00184	.25916	.30255	.85637
.801	8.399	-.00633	.41448	.27276	-.16112	-.00672	-.00392	-.00117	.37020	.33037	1.12054
.800	10.546	-.00222	.53631	.27418	-.20175	-.00310	-.00227	-.00004	.47726	.36774	1.29782
GRADIENT		.00263	.05832	-.00263	-.02391	-.00192	.00058	-.00011	.05333	-.00443	.17194

LARC 8-TFT-693 (IA43) CONFIGURATION 03/74/57

(RHC001) ( 12 OCT 74

REFERENCE DATA

SREF = 2890.0000 90. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-R1 = .000  
 ELV-R0 = 0.00 RUDDER = .000  
 SECDBK = .000 BDFLAP = .000

RUN NO. 4/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.177	-.02543	-.82684	.35117	.34289	.01936	-.00847	-.00072	-.74309	.50480	-1.47204
.900	-8.932	-.02536	-.64617	.34644	.26406	.01770	-.00648	-.00082	-.58439	.44277	-1.31986
.900	-6.759	-.02023	-.48235	.33940	.19231	.01231	-.00314	-.00073	-.43940	.39367	-1.11613
.901	-4.351	-.01609	-.32620	.33232	.12535	.00785	-.00020	-.00063	-.29878	.35736	-.83808
.901	-2.364	-.01036	-.17242	.32531	.05508	.00312	.00219	-.00090	-.15866	.32213	-.47628
.901	-.189	-.00130	-.03837	.31890	-.01333	-.00272	.00403	-.00199	-.03192	.31901	-.08880
.900	1.866	.00391	.09401	.31918	-.06238	-.00476	.00458	-.00166	.00313	.31622	.80122
.900	4.132	.01320	.21075	.31945	-.10345	-.00775	.00332	-.00196	.28773	.34463	.58043
.900	6.297	.01008	.32379	.31100	-.13461	-.00775	.00332	-.00196	.28773	.34463	.63488
.900	8.479	.02444	.45718	.31039	-.18772	-.00273	.00190	-.00040	.40639	.37461	1.08484
.901	10.644	.02564	.58265	.31193	-.23633	-.00370	.00370	-.00048	.51302	.41418	1.24348
GRADIENT		.00344	.06178	-.00234	-.02624	-.00216	.00062	-.00024	.05398	-.00319	.16355

RUN NO. 3/ 0 RIVL = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.358	-.03008	-.88373	.43594	.36159	.02014	-.00804	-.00096	-.78017	.60189	-1.29599
.901	-9.111	-.02314	-.66884	.43206	.26642	.01471	-.00426	-.00105	-.59199	.53232	-1.11166
.901	-6.830	-.01939	-.48837	.42635	.19194	.00838	-.00034	-.00154	-.43402	.48173	-.80081
.901	-4.634	-.01433	-.32800	.42242	.12743	.00235	.00478	-.00224	-.29280	.44734	-.63423
.901	-2.423	-.00673	-.16313	.41664	.07127	-.00298	.00837	-.00294	-.16333	.42402	-.38992
.900	-.279	-.00132	-.03741	.41273	.01302	-.00353	.00761	-.00298	-.03390	.41284	-.08696
.900	1.953	.00697	.09418	.40832	-.03465	-.01124	.00880	-.00337	.08012	.41131	.19480
.900	4.132	.00738	.22530	.41302	-.10171	-.00835	.00578	-.00272	.19486	.42815	.45464
.900	6.336	.00392	.36089	.40754	-.15473	-.00288	.00138	-.00236	.31371	.44488	.70313
.900	8.513	.00676	.49141	.40380	-.20317	-.00400	.00120	-.00167	.42622	.47210	.90282
.900	10.687	.00532	.61101	.40594	-.24844	-.00463	.00244	-.00097	.52495	.51319	1.02292
GRADIENT		.02273	.06311	-.00124	-.02628	-.00128	.00011	-.00006	.05568	-.00237	.12785



DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

(RHC001) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 03/74/S7

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

REF = 2630.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1230.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1230.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 2/ 0 RWL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.132	-11.614	-0.3204	-90633	.49027	.36938	.01977	-.00825	.00006	-.78908	.66269	-1.18072
1.129	-9.300	-0.2872	-69790	.46770	.27776	.01550	-.00478	-.00037	-.60990	.59408	-1.02664
1.131	-7.014	-0.2582	-51915	.47941	.20990	.01221	-.00230	-.00103	-.45672	.53921	-.84702
1.130	-4.735	-0.2251	-35109	.47350	.14531	.00947	-.00053	-.00113	-.31080	.50087	-.62053
1.133	-2.488	-0.1391	-19317	.47006	.08236	.00511	-.00049	-.00153	-.17259	.47800	-.36106
1.130	-.268	-0.0253	-04517	.46701	.02214	-.00089	.00228	-.00211	-.04298	.46721	-.09200
1.133	1.934	.0278	.08848	.46068	-.03588	-.00181	.00085	-.00188	.07289	.46340	.19729
1.133	4.155	.00338	.22995	.45869	-.09726	-.00067	-.00177	-.00168	.19611	.47414	.41360
1.130	6.362	.00168	.37368	.45159	-.15979	.00431	-.00601	-.00106	.32133	.49022	.63949
1.130	8.536	-.00194	.50097	.44950	-.21356	.00455	-.00455	-.00163	.42832	.51903	.82363
1.129	10.753	-.00489	.60870	.44418	-.24139	.00545	-.00415	-.00018	.51513	.54995	.93669
GRADIENT		.03327	.06303	-.03176	-.02718	-.00123	-.00009	-.00007	.05673	-.00307	.11650

RUN NO. 3/ 0 RWL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.201	-11.679	-0.3463	-92463	.50228	.38073	.01859	-.00603	.00011	-.80381	.67906	-1.18372
1.201	-9.345	-0.2956	-70905	.49824	.28730	.01494	-.00414	.00011	-.61874	.60876	-1.01974
1.201	-7.032	-0.2646	-52154	.49098	.21165	.01149	-.00150	-.00048	-.45732	.55130	-.82953
1.200	-4.756	-0.1949	-34327	.48440	.13926	.00597	-.00187	-.00101	-.30193	.51119	-.99064
1.200	-2.501	-0.1423	-18153	.47991	.07143	.00390	-.00190	-.00129	-.16042	.48737	-.32915
1.200	-.257	-.00229	-03081	.47360	.01130	-.00148	.00285	-.00173	-.02868	.47373	-.06028
1.200	1.949	.00422	.08817	.46941	-.04213	-.00385	.00269	-.00165	.08215	.47247	.17387
1.200	4.147	.00378	.23230	.46742	-.09945	-.00242	.00023	-.00147	.19789	.48300	.40971
1.200	6.366	.00145	.37071	.46125	-.15784	.00274	-.00398	-.00098	.31728	.49951	.63519
1.200	8.582	-.00161	.50392	.45913	-.21549	.00277	-.00259	-.00044	.42977	.52919	.81212
1.200	10.796	-.00426	.63121	.45370	-.23713	.00205	-.00048	-.00137	.53305	.56391	.94883
GRADIENT		.03310	.06431	-.03200	-.02656	-.00110	-.00011	-.00006	.05583	-.00322	.11231

REFERENCE DATA

SREF = 2690.0000 30.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LJ = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFBRK = .000 BOFLAP = .000

RUN NO. 10/ 0 RIVL = 3.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-10.633	-.01391	-.75135	.27981	.32316	.02394	-.01402	.00039	-.68692	.41364	-1.65043
.599	-8.513	-.01117	-.60982	.27642	.26494	.01812	-.01081	.00038	-.56198	.36365	-1.53695
.598	-6.423	-.01130	-.47647	.27615	.21107	.01634	-.00859	.00029	-.44258	.32772	-1.35050
.599	-4.331	-.00899	-.35910	.27300	.16513	.01343	-.00758	.00021	-.33746	.29934	-1.12735
.598	-2.250	-.00597	-.25506	.27102	.12635	.00951	-.00563	.00022	-.24422	.26083	-.86964
.599	-.165	-.00260	-.14754	.26888	.08581	.00557	-.00418	.00044	-.14677	.26630	-.53114
.600	1.934	.00059	-.03214	.25780	.03933	.00313	-.00445	.00005	-.04082	.25657	-.15909
.599	4.027	.00263	.08749	.25148	-.00730	.00117	-.00399	.00006	.06961	.25700	.27096
.598	6.106	.00365	.20350	.24386	-.05402	-.00045	-.00325	-.00024	.17630	.26414	.66821
.599	8.198	.00316	.32279	.23412	-.10245	-.00037	-.00267	-.00011	.28611	.27775	1.07009
.598	10.297	.00371	.45079	.22321	-.15348	.00231	-.00350	.00034	.40363	.30020	1.34456
GRADIENT		.00143	-.00269	-.00273	-.00148	.00038	-.00002		.04869	-.00321	.16782

RUN NO. 9/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.699	-11.224	-.03072	-.84013	.33863	.35140	.02777	-.01548	.00035	-.75814	.49369	-1.52948
.900	-8.959	-.02819	-.65705	.33480	.27073	.02432	-.01294	.00071	-.58690	.43303	-1.37842
.833	-6.775	-.02236	-.49509	.32705	.19383	.01928	-.01030	.00084	-.43305	.38317	-1.18237
.901	-4.568	-.02107	-.33965	.32003	.13475	.01780	-.00934	.00091	-.31308	.34607	-.90469
.899	-2.336	-.01188	-.19671	.30992	.07262	.01166	-.00723	.00067	-.18358	.31787	-.57732
.900	1.943	.00733	-.05943	.30303	.00815	.01122	-.00932	.00091	-.05821	.30326	-.19194
.899	4.100	.00442	.18429	.30039	-.04685	.00573	-.00808	.00042	.06550	.30301	.21616
.900	6.275	.00617	.30349	.29582	-.07840	.00436	-.00781	.00047	.16234	.31280	.51897
.902	8.456	.00145	.44149	.29316	-.12118	.00337	-.00764	.00092	.27530	.32787	.83965
.900	10.610	-.00400	.56544	.29351	-.17427	.00310	-.01013	.00205	.39358	.35489	1.10902
GRADIENT		.00299	-.00224	-.00258	-.00151	.00010	-.00019	.00268	.50173	.39261	1.27795



LARC 8-TPT-693 (IA43) CONFIGURATION 06/T4/S6

(RHCD002) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2593.0000 IN. FT.    XMRP = 976.0000 IN. XT  
 LREF = 1200.0000 INCHES    YMRP = .0000 IN. YT  
 BREF = 1200.0000 INCHES    ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000    ELV-LO = .000  
 ELV-LI = .000    ELV-RI = .000  
 ELV-RD = .000    RUDDER = .000  
 SPDRK = .000    BDFLAP = .000

RUN NO. 8/ 0    RIVL = 4.21    GRADIENT INTERVAL = -5.00/ 5.00

MAC#	ALPHA	BETA	CM	CA	CLM	CY	CYN	CYN	CBL	CL	CD	L/D
1.129	-11.649	-0.3378	-0.33415	-48239	.39139	.02443	-.01287	.00133	-.81751	.68107	-1.23684	
1.130	-9.343	-0.3384	-0.73207	-47750	.30777	.02320	-.01305	.00102	-.64488	.58737	-1.09306	
1.129	-7.047	-0.2943	-0.54689	-46970	.23413	.01940	-.00922	.00094	-.48313	.53325	-.90977	
1.130	-4.772	-0.2280	-0.37187	-45434	.16503	.01458	-.00565	.00062	-.33195	.49367	-.67243	
1.130	-2.537	-0.1657	-0.21497	-46123	.10241	.01150	-.00359	.00035	-.19434	.47029	-.41324	
1.129	-.294	-0.0510	-0.06362	-45796	.04006	.00608	-.00490	.00006	-.05127	.45828	-.13369	
1.130	1.914	-0.0137	-0.07442	-45259	-.01992	.00582	-.00637	.00040	.17749	.46221	-.38399	
1.130	4.119	-0.0511	-0.21022	-44827	-.07883	.00411	-.04741	.00023	.30148	.47626	-.63302	
1.130	6.335	-0.0951	-0.35219	-44038	-.13976	-.01037	-.01227	.00055	.41134	.50357	-.61684	
1.130	8.543	-0.0932	-0.48159	-43588	-.19375	-.01070	-.01146	.00055	.50378	.53401	-.94336	
1.130	10.756	-0.0938	-0.59444	-43082	-.22322	-.01369	-.01210	.00211	.05724	-.00354	-.11948	
GRADIENT		.00320	.06539	-.00183	-.02744	-.00120	-.00009	-.00003				

RUN NO. 7/ 0    RIVL = 4.22    GRADIENT INTERVAL = -5.00/ 5.00

MAC#	ALPHA	BETA	CN	CA	CLM	CY	CYN	CYN	CBL	CL	CD	L/D
1.200	-11.693	-0.3887	-0.94309	-49466	.39915	.02562	-.01250	.00149	-.62327	.67532	-1.21872	
1.201	-9.353	-0.3301	-0.72855	-49092	.30552	.01990	-.00950	.00121	-.63908	.60280	-1.06019	
1.200	-7.046	-0.3141	-0.53701	-48374	.22754	.01779	-.00679	.00114	-.47562	.54596	-.66730	
1.200	-4.762	-0.2268	-0.35318	-47647	.15168	.01263	-.00469	.00085	-.31240	.50414	-.61967	
1.200	-2.498	-0.1654	-0.19230	-47143	.08422	.00992	-.00380	.00055	-.17157	.47936	-.35791	
1.200	-.244	-0.0737	-0.04101	-46640	.02371	.00596	-.00378	.00036	-.03902	.46657	-.08364	
1.200	1.942	-0.0078	-0.08761	-45954	-.02951	.00266	-.00357	.00031	.07199	.46224	-.15573	
1.200	4.151	-0.0562	-0.22102	-45601	-.08590	.00152	-.00445	.00013	.18743	.47081	-.39808	
1.200	6.377	-0.0921	-0.35689	-44949	-.14305	-.00700	-.00855	.00072	.30476	.48634	-.62663	
1.200	8.590	-0.0241	-0.49205	-44551	-.19968	-.00746	-.00788	.00124	.41999	.51400	-.61709	
1.200	10.811	-0.0717	-0.61502	-43965	-.23756	-.00812	-.00542	.00069	.52164	.54721	-.95328	
GRADIENT		.00332	.06417	-.00237	-.02646	-.00131	-.00003	-.00008	.05565	-.00378	-.11450	



LARC 0-TFT-693 (IA43) CONFIGURATION 02/74/56

REFERENCE DATA

SREF = 2690.0000 30.FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SDBRK = .000 BOFLAP = .000

RUN NO. 13/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-10.605	-.01482	-.73780	.29046	.31642	.02297	-.01302	.00159	-.67174	.42128	-1.59451
.600	-8.488	-.01380	-.59658	.28964	.29333	.02022	-.01079	.00156	-.54729	.37432	-1.46131
.600	-6.400	-.01356	-.46700	.28728	.20677	.01810	-.00855	.00127	-.43207	.33754	-1.28004
.600	-4.297	-.01031	-.34655	.28464	.15930	.01329	-.00597	.00103	-.32425	.30981	-1.04663
.600	-2.211	-.00809	-.23713	.28269	.11736	.01071	-.00523	.00083	-.22604	.29163	-.77510
.600	-1.127	-.00596	-.12746	.27791	.07367	.00810	-.00316	.00088	-.12684	.27819	-.45596
.600	1.962	.00187	-.01156	.27039	.02581	.00012	-.00197	.00060	-.02080	.26954	-.07716
.600	4.056	.00142	.10882	.26312	-.02111	.00169	-.00343	.00108	.08994	.27016	.33291
.598	6.146	-.00099	.22886	.25561	-.07038	.00496	-.00501	.00171	.20018	.27864	.71842
.590	8.241	-.00067	.35019	.24506	-.12053	.00178	-.00281	.00136	.29272	.29272	1.08398
.600	10.348	-.00221	.47349	.23483	-.16981	.00479	-.00359	.00210	.42360	.31606	1.34027
GRADIENT		.00160	.05442	-.00267	-.02167	-.00162	-.00039	-.00001	.04951	-.00485	-.16559

RUN NO. 12/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-11.170	-.02732	-.83159	.35349	.34844	.02496	-.01400	.00047	-.74736	.50789	-1.47150
.600	-9.943	-.02631	-.64937	.34793	.26764	.02273	-.01210	.00038	-.58739	.44465	-1.32103
.600	-6.753	-.02212	-.48849	.34051	.19705	.01897	-.01009	.00027	-.44506	.39559	-1.12507
.600	-4.545	-.01842	-.33605	.33108	.13362	.01512	-.00761	.00038	-.30876	.33667	-.86555
.600	-2.397	-.01151	-.19256	.32220	.07001	.01035	-.00623	.00039	-.17915	.32884	-.54313
.600	-1.196	-.00876	-.04757	.31583	-.02013	.00757	-.00662	.00046	-.04649	.31599	-.14712
.600	1.973	.00357	.08296	.31172	-.05329	.00376	-.00660	.00022	.07218	.31459	.22960
.600	5.234	.00236	.19646	.31337	-.08837	.00504	-.00779	.00050	.17338	.32642	.53117
.600	8.483	.00173	.31897	.30927	-.13067	.00143	-.00591	.00026	.28308	.34243	.82669
.600	10.534	.00027	.45579	.30942	-.18603	.00586	-.00723	.00168	.40516	.37323	1.09553
GRADIENT		-.00385	.07753	.31093	-.23031	.00798	-.00738	.00032	.51024	.41216	1.23796
		.00267	.06181	-.00215	-.02616	-.00125	-.00003	.00000	.05603	-.00351	-.16442

DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPT-633 (IA43) CONFIGURATION 02/14/86 (RMCD03) ( 12 OCT 74 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BOFLAP = .000

REFERENCE DATA

MACH = 1.130 ALPHA = -11.621  
REF = 2990.0000 90.FT. YMRP = 976.0000 IN. XT  
REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
REF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 11/ 0 RWL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.621	-0.0303	-0.92134	49035	38293	.02584	-0.01410	.00102	-0.00367	.66580	-1.20680
1.131	-9.306	-0.03465	-0.72387	48654	29875	.02357	-0.01167	.00032	-0.53271	.59670	-1.06033
1.131	-6.997	-0.02632	-0.52282	47808	22488	.01681	-0.03762	.00049	-0.47061	.53943	-0.87243
1.130	-4.748	-0.02309	-0.36111	47235	15639	.01435	-0.05629	.00036	-0.32078	.50562	-0.64076
1.130	-2.492	-0.01404	-0.20174	46373	.09284	.00923	-0.03442	-0.00008	-0.18113	.47806	-0.37888
1.130	-0.273	-0.00995	-0.00007	46552	.02750	.00602	-0.03442	.00009	-0.04788	.46673	-0.10237
1.130	1.948	.00248	.08801	46055	.00275	.00451	-0.03451	.00001	-0.07231	.46328	.15607
1.130	4.144	.00311	.22715	45845	.00461	.00499	-0.00751	.00045	.19543	.47367	.40636
1.129	6.361	.00265	.36994	45214	-0.15995	.00831	-0.01034	.00043	.51757	.49034	.64764
1.129	8.966	-0.00245	.49578	44859	-0.20736	.00941	-0.01017	.00010	.42342	.51753	.81815
1.130	10.768	-0.00773	.60747	44274	-0.23781	.01189	-0.01058	.00211	.51406	.54844	.93732
	GRADIENT	.00310	.06598	-0.00165	-0.02812	-0.00114	-0.00212	.00001	.05769	-0.00310	.11849

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/83 (RMCD04) ( 12 OCT 74 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BOFLAP = .000

REFERENCE DATA

MACH = 1.130 ALPHA = -10.392  
REF = 2690.0000 90.FT. YMRP = 976.0000 IN. XT  
REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
REF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 17/ 0 RWL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-10.392	-0.01664	-0.75823	29124	32070	.02557	-0.01434	.00204	-0.67212	.42196	-1.59279
1.130	-8.503	-0.01386	-0.60339	29020	26879	.02020	-0.01072	.00148	-0.55382	.37632	-1.47822
1.130	-6.391	-0.01289	-0.47186	28787	21097	.01716	-0.00806	.00112	-0.43688	.33861	-1.29022
1.130	-4.307	-0.01148	-0.35027	28560	16373	.01493	-0.00679	.00137	-0.32783	.31110	-1.05380
1.130	-2.223	-0.00774	-0.24087	28407	12097	.01064	-0.00550	.00101	-0.22967	.29320	-0.78333
1.130	-1.140	-0.00323	-0.13408	27933	.07925	.00540	-0.00334	.00093	-0.13340	.27966	-0.47701
1.130	1.894	-0.00080	-0.01603	27058	.02910	.00369	-0.00367	.00023	-0.02102	.27002	-0.27786
1.130	4.047	-0.00243	.10678	26364	-0.01766	.00653	-0.00532	.00191	.08791	.27032	.32496
1.130	6.133	.00097	.21942	25580	-0.06354	.00202	-0.00339	.00139	.19073	.27877	.68418
1.130	8.217	.00079	.34144	24625	-0.11391	.00145	-0.00253	.00152	.30274	.29253	1.03489
1.130	10.316	-0.00143	.46791	23505	-0.16412	.00351	-0.00282	.00182	.41826	.31504	1.32764
	GRADIENT	.00120	.03474	-0.00275	-0.02177	-0.00114	.00020	.00006	.04980	-0.00499	.16363

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LARC 9-TET-6-3 (1443) CONFIGURATION 02/14/53

(RMC004) 12 OCT 74

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RD = .000 RUDDER = .000  
 SPCBRK = .000 BDFLAP = .000

RUN NO. 16/ 0 RNL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
.901	-11.193	-.02905	-.03609	.35448	.33461	.02645	-.01490	.00123	-.73334	.51043	-1.47390
.902	-8.980	-.02822	-.65501	.35065	.27255	.02415	-.01274	.00151	-.98241	.44938	-1.32121
.903	-6.753	-.02527	-.48983	.34263	.19912	.02107	-.01080	.00146	-.44614	.39785	-1.12137
.904	-4.564	-.01904	-.33455	.33448	.13409	.01582	-.00810	.00135	-.30687	.36004	-.85233
.901	-2.384	-.01344	-.19075	.32602	.07121	.01231	-.00713	.00141	-.17702	.33367	-.53032
.903	-.208	-.01009	-.03091	.31953	.00378	.01192	-.00859	.00173	-.04975	.31971	-.15961
.911	1.961	.02004	.08065	.31584	-.03016	.00622	-.00753	.00121	.06979	.31841	.21918
.901	4.126	.02129	.19676	.31600	-.08667	.00618	-.00818	.00123	.17331	.32934	.52683
.901	6.288	.02017	.31735	.31239	-.12346	.00694	-.00847	.00177	.28123	.34527	.81452
.903	8.466	-.00393	.44734	.31041	-.17764	.00908	-.00867	.00286	.39676	.37289	1.06402
.901	10.529	-.00257	.57147	.31318	-.22559	.00702	-.00697	.00290	.50445	.41028	1.22937
GRADIENT		.02249	.06141	-.00217	-.02391	-.00117	-.00003	-.00002	.05559	-.00353	-.16148

RUN NO. 15/ 0 RNL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.130	-11.608	-.03633	-.92053	.49290	.38395	.02547	-.01300	.00158	-.60253	.66805	-1.20130
1.131	-9.311	-.03430	-.71881	.49228	.29939	.02267	-.01075	.00073	-.63001	.60013	-1.04980
1.131	-7.037	-.02998	-.53987	.48315	.22952	.01857	-.00798	.00084	-.47661	.54565	-.87348
1.131	-4.747	-.02317	-.36214	.47750	.15916	.01405	-.00584	.00093	-.32138	.50583	-.63535
1.130	-2.501	-.01662	-.20301	.47562	.09455	.01080	-.00309	.00076	-.18206	.49402	-.37515
1.133	-.269	-.00715	-.05203	.47302	.03243	.00651	-.00444	.00070	-.04979	.47326	-.10321
1.130	1.938	-.00498	.08429	.46790	-.02623	.00764	-.00684	.00127	.06841	.47049	.14540
1.133	4.137	-.00158	.22415	.46384	-.08792	.00755	-.00836	.00134	.19011	.47880	.39705
1.130	6.349	-.00314	.36434	.45553	-.14930	.01223	-.01228	.00184	.31193	.49305	.63265
1.129	8.532	-.00982	.49811	.45104	-.20598	.01386	-.01198	.00157	.42550	.52010	.81811
1.130	10.744	-.01256	.63117	.44484	-.23154	.01518	-.01221	.00321	.50771	.54912	.92459
GRADIENT		.03247	.06375	-.00158	-.02769	-.00073	-.00000	.00006	.05735	-.00306	-.11647



LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/53

(RHCD04) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2630.0000 96.FT. XMRP = 976.0000 IN. XT  
 LRCF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 14/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CEL	CL	CD	L/D
1.201	-11.635	-03762	-93099	.50614	.39568	.02360	-.01066	.00142	-.81690	.68997	-1.19087
1.201	-9.337	-03106	-71970	.50126	.30019	.01789	-.00698	.00070	-.62863	.61161	-1.02783
1.200	-7.063	-02851	-52988	.49473	.22267	.01573	-.00556	.00092	-.45503	.55613	-.83619
1.200	-4.778	-02119	-32095	.48917	.14877	.01075	-.00312	.00063	-.30898	.51670	-.59799
1.200	-2.312	-01262	-18807	.48334	.08051	.00582	-.00116	.00036	-.16662	.49311	-.33790
1.200	-.269	-00321	-03607	.48073	.02087	.00196	-.00088	-.00010	-.03581	.48092	-.07446
1.200	1.926	-00026	.08973	.47542	-.03141	.00305	-.00356	.00025	.07370	.47817	.15413
1.200	4.146	-00084	.22563	.47080	-.09132	.00528	-.00598	.00058	.19120	.48589	.39350
1.200	6.362	-00230	.35780	.46422	-.15056	.00857	-.00927	.00163	.31410	.50212	.62555
1.200	8.567	-00711	.50194	.46061	-.21009	.00953	-.00817	.00247	.42773	.53024	.80667
1.200	10.803	-01084	.62786	.45451	-.24888	.01060	-.00768	.00195	.53154	.56414	.94221
GRADIENT		.00239	.05424	-.00209	-.02657	-.00062	-.00036	.00001	.05569	-.00345	-.11107

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPBRK = .000 BOFLAP = .000

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LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/52

(RHCD05) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
 LRCF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 21/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CEL	CL	CD	L/D
.600	-10.598	-01315	-74497	.28961	.32240	.02345	-.01327	.00145	-.67900	.42169	-1.61020
.599	-8.491	-01330	-60400	.28858	.26397	.01914	-.00996	.00120	-.55476	.37460	-1.46093
.599	-6.360	-01330	-47091	.28637	.20969	.01768	-.00827	.00085	-.43607	.33691	-1.28431
.600	-4.298	-01377	-35098	.28485	.16327	.01412	-.00651	.00062	-.32865	.31037	-1.05080
.599	-2.226	-00139	-24467	.28280	.12096	.00986	-.00497	.00062	-.23350	.29209	-.79943
.600	-.130	-00273	-13400	.27786	.07796	.00462	-.00292	.00035	-.13337	.27816	-.47946
.599	1.971	-00048	-.01592	.27074	.03019	.00291	-.00304	.00065	-.02323	.27003	-.09342
.599	4.046	.00231	.10790	.26294	-.01970	.00056	-.00294	.00080	.08908	.26990	.33004
.600	6.141	.00355	.21879	.25540	-.06523	.00221	-.00321	.00120	.19021	.27734	.68582
.600	8.237	.00065	.34352	.24485	-.11642	.00103	-.00168	.00108	.30490	.29154	1.04980
.599	10.333	-.00279	.46513	.23370	-.16462	.00360	-.00399	.00187	.41665	.31352	1.32694
GRADIENT		.00157	.05490	-.00228	-.02187	-.00163	-.00043	-.00000	.04998	-.00493	-.16682

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPBRK = .000 BOFLAP = .000

TABLATED SOURCE DATA - LARC 693 (IA43)  
LARC 8-TFT-693 (IA43) CONFIGURATION 02/TA/32

REFERENCE DATA

3REF = 2690.0000 IN. FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LJ = .000 ELV-RI = .000  
ELV-RD = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

RUN NO. 20/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.178	-.02993	-.84123	.35410	-.35540	.02711	-.01319	.00091	-.75663	.51046	-1.48223
.900	-8.930	-.02702	-.63550	.35033	-.27222	.02350	-.01264	.00095	-.99301	.44805	-1.32355
.900	-6.742	-.02199	-.48838	.34341	-.19845	.01849	-.00960	.00094	-.44469	.39038	-1.11625
.900	-4.544	-.02106	-.33478	.33564	-.13470	.01748	-.00949	.00100	-.30714	.36111	-.85033
.900	-2.367	-.01432	-.19405	.32604	-.07258	.01265	-.00702	.00098	-.18042	.33378	-.54053
.901	-.195	-.00921	-.04693	.31969	-.00990	.01126	-.00630	.00140	-.04574	.31985	-.14300
.900	1.960	-.00256	.08056	.31502	-.05111	.00806	-.00825	.00105	.06984	.31760	.21989
.901	4.144	.00438	.19629	.31569	-.08741	.00561	-.00568	.00096	.17296	.32906	.32563
.901	6.305	.00171	.31130	.31130	-.12386	.00553	-.00766	.00158	.27982	.34411	.81316
.901	8.468	-.00464	.45032	.31026	-.19017	.00922	-.00843	.00254	.39972	.37319	1.07109
.900	10.641	-.00020	.57387	.30927	-.22735	.00486	-.00575	.00242	.50669	.40982	1.23657
GRADIENT		.00296	.06160	-.00235	-.02617	-.00149	.00009	-.00004	.05577	-.00370	-.16185

RUN NO. 18/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.602	-.03508	-.92246	.49390	-.38427	.02518	-.01327	.00124	-.80428	.66933	-1.20161
1.130	-9.300	-.03424	-.71820	.49069	-.29831	.02292	-.01106	.00068	-.62927	.60027	-1.04832
1.130	-7.002	-.02897	-.53598	.48331	-.22663	.01804	-.00781	.00054	-.47306	.54505	-.86792
1.129	-4.739	-.02109	-.36349	.47776	-.15911	.01243	-.00487	.00029	-.32278	.50616	-.63769
1.130	-2.482	-.01643	-.23403	.47594	-.09315	.01069	-.00491	.00041	-.18515	.48436	-.37812
1.129	-.271	-.00538	-.05403	.47379	-.03321	.00552	-.00361	.00024	-.05179	.47404	-.10925
1.130	1.932	-.00199	.08375	.46935	-.02477	.00507	-.00316	.00079	.06486	.47241	.13729
1.133	4.154	-.00107	.22324	.46511	-.08792	.03603	-.00779	.00092	.18889	.48106	.39266
1.129	6.383	-.00328	.36524	.45576	-.15087	.01106	-.01176	.00146	.31333	.49353	.63474
1.128	8.554	-.00553	.49491	.45080	-.23606	.01122	-.01087	.00114	.42235	.51940	.81315
1.129	10.772	-.01081	.60847	.44446	-.23600	.01435	-.01167	.00261	.51468	.55035	.95518
GRADIENT		.00263	.06566	-.00132	-.02765	-.00083	.00027	.00007	.05725	-.00281	-.11399



LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/S2

(RMCO03) ( 12 OCT 74 )

## REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 19/ 0 RM/L = 4.20 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-11.687	-.93632	-.93927	.50664	.39979	.02275	-.01016	.00141	-.81717	.68640	-1.19092
1.201	-9.354	-.03372	-.72260	.50252	.30048	.01975	-.00800	.00129	-.63131	.61329	-1.02930
1.200	-7.052	-.03093	-.52926	.49581	.22194	.01721	-.00530	.00116	-.46438	.55704	-.83366
1.203	-4.757	-.02422	-.34982	.48972	.14792	.01224	-.00330	.00093	-.30801	.51704	-.59370
1.203	-2.515	-.01589	-.19006	.48622	.08149	.00832	-.00230	.00064	-.16855	.49409	-.34113
1.203	-.259	-.00709	-.03786	.48176	.02092	.00420	-.00178	.00046	-.03569	.48195	-.07405
1.200	1.938	.00002	.09124	.47654	-.03201	.03223	-.00270	.00062	.07507	.47935	.19661
1.200	4.139	.00204	.22846	.47293	-.09223	.03350	-.03518	.00074	.19356	.48826	.39642
1.200	6.395	-.00324	.36529	.46525	-.15054	.03883	-.00915	.00145	.31120	.50304	.61863
1.200	8.587	-.00439	.50237	.45084	-.21059	.00792	-.00750	.00196	.42794	.53069	.80639
1.200	10.807	-.00906	.62564	.43519	-.24913	.00931	-.00595	.00118	.52920	.56442	.93759
	GRADIENT	.00307	.06453	-.00194	-.02665	-.00105	-.00017	-.00002	.05596	-.00325	.11139

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 S'DBRK = .000 BD'FLAP = .000

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/S7

(RMCO06) ( 12 OCT 74 )

## REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 27/ 0 RM/L = 3.17 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-10.562	-.01603	-.74928	.29148	.32500	.02483	-.01408	.00121	-.60300	.42413	-1.61038
.601	-8.474	-.01471	-.60358	.29030	.26538	.02207	-.01215	.00112	-.59619	.37637	-1.47779
.600	-6.372	-.01173	-.47439	.28789	.21311	.01616	-.00799	.00158	-.43951	.33878	-1.29738
.601	-4.292	-.00878	-.35655	.28513	.16673	.01164	-.00548	.00044	-.33421	.31102	-1.07458
.600	-2.198	-.00551	-.24942	.28377	.12569	.00965	-.00329	.00031	-.23835	.29313	-.81311
.603	-.121	-.00446	-.13810	.27922	.08215	.00704	-.00415	.00031	-.13751	.27932	-.49196
.600	1.939	.00202	-.02110	.27193	.03458	.00312	-.00212	.00024	-.03038	.27105	-.11208
.599	4.072	.00207	.10022	.26545	-.01420	.00103	-.00327	.00071	.08111	.27169	.29833
.600	6.161	.00286	.21626	.25765	-.05170	.00204	-.00331	.00106	.18736	.27937	.67064
.599	8.248	-.00017	.34259	.24760	-.11398	.00277	-.00317	.00134	.30353	.29418	1.03176
.600	10.343	-.00137	.46547	.23749	-.16331	.00414	-.00344	.00141	.41527	.31721	1.30913
	GRADIENT	.00145	.05468	-.00245	-.02169	-.00147	-.00036	.00002	.04973	-.00480	.16506

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 S'DBRK = .000 BD'FLAP = .000

PARAMETRIC DATA

REFERENCE DATA

34EF = 2830.0033 SQ. FT. X-WP = 976.0033 IN. XT  
 35EF = 1290.3033 INCHES F-WP = 3030 IN. YF  
 36EF = 1290.3033 INCHES Z-WP = 433.0033 IN. ZT  
 SCALE = .0100

RUN NO. 26/ 0 RV/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.801	-13.933	-.02225	-.79328	.31386	.33094	.02478	-.01937	.00178	-.71920	.45987	-1.56732
.801	-6.784	-.02130	-.64255	.30897	.26743	.02208	-.01273	.00195	-.58783	.40347	-1.45695
.801	-6.629	-.02055	-.49028	.30304	.23739	.02044	-.01112	.00140	-.43179	.35960	-1.25637
.801	-4.459	-.01627	-.35346	.29939	.15511	.01550	-.00802	.00106	-.32911	.32396	-1.00968
.801	-2.317	-.00933	-.23321	.29446	.10931	.00913	-.00516	.00037	-.22112	.30365	-.72820
.801	-.183	-.00116	-.11392	.28853	.05953	.00358	-.00369	.00030	-.11300	.28889	-.39114
.801	1.962	.00215	.01479	.28176	.00629	.00179	-.00358	.00035	.00513	.28210	.01820
.803	4.124	.00312	.14610	.27846	-.04519	.00229	-.00482	.00090	.12584	.28625	.43962
.801	6.259	.00224	.27956	.27233	-.10430	.00369	-.00593	.00076	.24820	.30118	.82409
.801	8.407	.00157	.40375	.27163	-.13178	.00284	-.00447	.00131	.36167	.32809	1.10235
.801	10.595	-.00242	.52915	.27203	-.19446	.00527	-.00596	.00208	.47037	.36435	1.29296
GRADIENT		.00232	.05816	-.00273	-.02349	-.00157	.00037	-.00002	.03298	-.00470	.16999

RUN NO. 25/ 0 RV/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.165	-.03146	-.83956	.35276	.35439	.02838	-.01581	.00078	-.75536	.50865	-1.48503
.900	-8.938	-.02731	-.63536	.34815	.27298	.02452	-.01358	.00132	-.59390	.44584	-1.33211
.900	-6.725	-.02223	-.49391	.34053	.20220	.01896	-.01003	.00118	-.43064	.39603	-1.13788
.900	-4.515	-.02148	-.33941	.33242	.13866	.01792	-.00924	.00117	-.31218	.35811	-.87176
.900	-2.360	-.01458	-.19332	.32415	.07660	.01348	-.00765	.00100	-.18351	.33207	-.55863
.900	-.186	-.00775	-.03222	.31724	.00605	.01040	-.00808	.00134	-.05119	.31741	-.16128
.900	1.981	.00088	.07675	.31502	-.04601	.00584	-.00755	.00098	.06583	.31749	.20735
.900	4.140	.00399	.18910	.31563	-.08073	.00406	-.00720	.00105	.16574	.32946	.50307
.901	6.313	.00494	.31213	.31234	-.12234	.00331	-.00685	.00103	.27592	.34446	.80102
.900	8.495	-.00135	.44708	.31070	-.17769	.00772	-.00853	.00226	.39634	.37326	1.06182
.900	10.643	-.00287	.57547	.31145	-.22753	.00776	-.00768	.00290	.50804	.41238	1.23197
GRADIENT		.00309	.06155	-.00188	-.02593	-.00163	.00019	-.00001	.03576	-.00332	.16239



DATE 04 APR 73 TABULATED SOURCE DATA - LARC 693 (1A43)

(RHC006) ( 12 OCT 74 )

LARC 6-TFT-693 (1A43) CONFIGURATION 02/14/57

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RIDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

30ET = 2890.0000 SA. FT. HMRP = 976.0000 IN. XT  
 40ET = 1235.3000 INCHES YMRP = .0000 IN. YT  
 60ET = 1230.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 24/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.382	-.03390	-.89751	-.43964	-.37669	.02738	-.01471	.00066	-.79309	.60812	-1.30417
.901	-9.110	-.03030	-.69457	-.43664	.28784	.02345	-.01204	.00055	-.61667	.54110	-1.13966
.901	-6.847	-.02649	-.51670	-.42985	.21751	.01900	-.00980	.00066	-.46177	.48839	-.94549
.901	-4.634	-.02072	-.36156	-.42398	.15735	.01344	-.00523	.00043	-.32612	.45181	-.72182
.901	-2.424	-.01267	-.21649	-.41782	.10190	.00757	-.00241	.00004	-.19863	.42660	-.46360
.901	-.223	-.00468	-.07667	-.41531	.04386	.00380	-.00210	-.00005	-.07105	.41559	-.17097
.900	1.963	.00162	.06991	.40964	-.02324	.00287	-.00191	-.00006	.05393	.41179	.13559
.900	4.158	.00334	.20633	.41487	-.08040	-.00028	-.00251	-.00019	.17371	.42873	.40983
.900	6.333	-.00147	.34308	.40775	-.13461	.00817	-.00908	.00041	.29601	.44310	.66805
.900	8.327	-.00392	.47206	.40397	-.18496	.01122	-.01144	.00219	.40694	.46950	.86676
.979	10.703	-.00249	.59341	.40795	-.22834	.00819	-.00854	.00269	.50732	.51106	.99270
GRADIENT		.00302	.06473	-.00120	-.02734	-.00155	.00027	-.00006	.05726	-.00278	.13037

RUN NO. 23/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.604	-.03536	-.92866	-.49307	.39072	.02557	-.01360	.00159	-.81049	.68979	-1.21007
1.132	-9.285	-.03776	-.72526	-.48906	.30539	.02333	-.01229	.00097	-.63683	.59967	-1.06199
1.131	-7.014	-.02893	-.54143	-.48131	.23278	.01883	-.00980	.00091	-.47860	.54383	-.88006
1.130	-4.732	-.02345	-.36985	-.47561	.16419	.01481	-.00662	.00066	-.32836	.50442	-.69097
1.130	-2.482	-.01462	-.20689	-.47327	.09792	.01014	-.00324	.00038	-.18620	.48179	-.38647
1.130	-.262	-.00842	-.05707	-.47087	.03588	.00790	-.00351	.00058	-.05492	.47113	-.11657
1.130	1.982	.00172	.07877	-.46481	-.02359	.00381	-.00342	.00042	.06290	.48723	.13462
1.130	4.161	.00337	.21951	-.46256	-.08592	.00327	-.00798	.00065	.18337	.47727	.38840
1.130	6.382	-.00218	.36626	-.45521	-.14981	.01109	-.01234	.00105	.31339	.49310	.63553
1.130	8.580	-.00838	.48810	-.45254	-.20709	.01365	-.01243	.00088	.41512	.52030	.79786
1.129	10.772	-.01025	.59918	-.44576	-.22985	.01422	-.01217	.00257	.50531	.54989	.91893
GRADIENT		.00315	.06382	-.00155	-.02798	-.00114	-.00013	-.00000	.05746	-.00311	.11791

ORIGINAL PAGE IS  
 OF POOR QUALITY

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/S7

(RHCD06) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 22/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-11.663	-.03395	-.94074	.50543	.39698	.02201	-.01049	.00165	-.81914	.68317	-1.19553
1.200	-9.335	-.03244	-.72659	.50103	.30443	.01907	-.00777	-.00135	-.63570	.61224	-1.03831
1.200	-7.034	-.02695	-.53293	.49389	.22597	.01523	-.00579	-.00109	-.46844	.55543	-.84337
1.201	-4.745	-.02399	-.35159	.48780	.15066	.01302	-.00455	-.00117	-.30984	.51519	-.60140
1.200	-2.504	-.01563	-.19186	.48319	.08354	.00851	-.00302	-.00073	-.17057	.49111	-.34732
1.200	-.249	-.00897	-.03987	.47866	.02245	.00664	-.00396	-.00079	-.03779	.47883	-.07891
1.201	1.932	-.00045	.09273	.47212	-.03293	.00376	-.00433	.00078	.07660	.47500	-.16126
1.201	4.169	-.00123	.22766	.46999	-.09211	.00600	-.00667	.00112	.19289	.48530	.39747
1.200	6.396	-.00048	.36563	.46434	-.15056	.00764	-.00900	.00110	.31171	.50213	.62077
1.200	8.584	-.00397	.49691	.46132	-.20778	.00812	-.00793	.00183	.42446	.53062	.79994
1.200	10.610	-.00954	.61781	.45525	-.24304	.00916	-.00703	.00197	.52146	.56304	.92614
	GRADIENT	.00273	.06475	-.00210	-.02702	-.00084	-.00025	-.00000	-.05622	-.00342	-.11248

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/S7

(RHCD07) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 32/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-10.346	-.10789	-.08242	.28747	.05212	.40436	-.17082	.03553	-.06186	.28763	-.28468
.601	-8.280	-.10918	-.08658	.28660	.05370	.32849	-.14340	.04550	-.08603	.28677	-.30000
.599	-6.214	-.11696	-.10256	.28568	.06388	.24983	-.11190	.03462	-.09997	.28588	-.34970
.600	-4.152	-.12482	-.11225	.28533	.06992	.17187	-.07924	.02315	-.11163	.28578	-.39062
.601	-2.087	-.13608	-.12614	.28372	.07465	-.09022	-.04359	.01150	-.12547	.28402	-.44176
.600	-.027	-.14030	-.13474	.27893	.07902	.01213	-.00758	.00118	-.13406	.27923	-.48009
.600	2.030	-.14431	-.13600	.28051	.07632	-.06347	.02758	-.00803	-.13529	.28085	-.48172
.600	4.092	-.14184	-.12634	.28295	.06753	-.14401	.06422	-.01925	-.12584	.28327	-.44355
.599	6.156	-.14065	-.11700	.28465	.05738	-.22776	.10260	-.03146	-.11630	.28493	-.40815
.599	8.233	-.13722	-.10472	.28485	.04607	-.30905	.13557	-.04191	-.10403	.28510	-.36490
.599	10.288	-.13251	-.09157	.28314	.03437	-.38721	.16558	-.05187	-.09092	.28335	-.32087
	GRADIENT	-.00205	-.00185	-.00041	-.00015	-.00812	.01758	-.00506	-.00184	-.00040	-.00708

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000



TABULATED SOURCE DATA - LARC 693 (IA43)

(RHCD007) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/S7

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

3REF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 4REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 5REF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-10.647	-.20272	-.05656	.35386	.02301	.48466	-.21865	.06464	-.05530	.35605	-.15532
.899	-8.524	-.09399	-.04760	.35068	.01814	.38990	-.18016	.05273	-.04643	.35084	-.13233
.903	-6.396	-.19004	-.04689	.34532	.01673	.29727	-.14117	.04030	-.04575	.34548	-.13242
.899	-4.258	-.19372	-.04655	.33713	.01048	.20731	-.10156	.02756	-.04340	.33729	-.13459
.900	-2.159	-.20306	-.04825	.32775	.00555	.11456	-.05834	.01362	-.04709	.32792	-.14359
.899	-.039	-.21715	-.06036	.31761	.00893	.02073	-.01383	.00261	-.05916	.31784	-.18612
.899	2.096	-.21834	-.05804	.32431	.00663	-.06002	.03546	-.00863	-.03691	.32453	-.17505
.899	4.203	-.22009	-.06054	.33346	.01105	-.17103	.07824	-.02197	-.05926	.33369	-.17760
.899	6.333	-.22082	-.06411	.33682	.01569	-.26541	.12280	-.03582	-.06261	.33706	-.10633
.899	8.455	-.22134	-.06266	.34207	.01490	-.35666	.16212	-.04809	-.06134	.34231	-.17920
.899	10.585	-.22131	-.05862	.34556	.01073	-.44981	.19596	-.06019	-.05728	.34578	-.16565
GRADIENT		-.00302	-.00178	-.00051	.00011	-.04488	.02139	-.00572	-.00177	-.00030	-.00554

GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-10.749	-.24191	-.05777	.44201	.03198	.51011	-.22372	.07336	-.05590	.44223	-.12640
.901	-8.609	-.22727	-.04763	.44116	.02798	.40462	-.18146	.06109	-.04598	.44135	-.10396
.903	-6.439	-.22533	-.03198	.43347	.03314	.30530	-.14093	.04694	-.05026	.43587	-.11537
.901	-4.310	-.22973	-.03770	.43029	.03647	.20807	-.09743	.03223	-.05598	.43051	-.13002
.900	-2.162	-.23247	-.06204	.42098	.03790	.11253	-.05515	.01690	-.06033	.42123	-.14323
.903	-.040	-.24866	-.07652	.41411	.04451	.01562	-.00819	.00197	-.07472	.41444	-.18029
.900	2.099	-.25295	-.07787	.41903	.04476	-.08429	.03882	-.01281	-.07602	.41934	-.18129
.900	4.230	-.25208	-.07183	.42681	.03955	-.17528	.07891	-.02745	-.06996	.42663	-.16390
.900	6.366	-.25261	-.06517	.42856	.03113	-.27013	.12112	-.04236	-.06328	.42884	-.14756
.900	8.529	-.25517	-.05905	.43164	.02291	-.37110	.16183	-.05648	-.05712	.43190	-.13226
.900	10.673	-.26810	-.06097	.43326	.01790	-.47109	.20079	-.06884	-.05895	.43354	-.13596
GRADIENT		-.07305	-.00207	-.00045	.00061	-.04515	.02093	-.00699	-.00204	-.00043	-.00496

ORIGINAL PAGE IS OF POOR QUALITY

(RHCD07) ( 12 OCT 74

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

REFERENCE DATA

REF = 4690.1000 90. TT. XMRP = 976.0000 IN. XT  
 LREF = 1292.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1293.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFD8RK = .000 BDFLAP = .000

RUN NO. 29/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-10.847	-2.6042	-.02684	.48283	.00735	.49489	-.20208	.07650	-.02465	.48293	-.05104
1.131	-8.661	-2.4742	-.02342	.48547	.01101	.38920	-.16331	.06288	-.02132	.48556	-.04391
1.130	-6.489	-2.4540	-.03124	.48408	.02145	.28935	-.12492	.04871	-.02917	.48421	-.08024
1.130	-4.333	-2.5311	-.04077	.48032	.02828	.19786	-.08821	.03330	-.03864	.48070	-.08039
1.130	-2.164	-2.5935	-.04646	.47595	.03085	.10333	-.04884	.01710	-.04430	.47615	-.09304
1.130	-.040	-2.7313	-.05598	.47129	.03412	.01484	-.00816	.00218	-.05373	.47155	-.11393
1.130	2.114	-2.7706	-.05346	.47244	.03153	-.07837	-.05348	-.01296	-.05318	.47270	-.11230
1.130	4.290	-2.7745	-.05220	.47659	.02831	-.16787	.07345	-.02914	-.04989	.47683	-.10463
1.129	6.413	-2.7805	-.04669	.47889	.02159	-.25870	.11011	-.04440	-.04437	.47911	-.09261
1.130	8.572	-2.8330	-.03959	.47982	.01009	-.35315	.14343	-.05782	-.03722	.48001	-.07734
1.129	10.795	-2.9219	-.03870	.47735	.00346	-.45744	.18095	-.07125	-.03627	.47735	-.07593
GRADIENT		-.00310	-.00149	-.00053	.00004	-.04267	.01901	-.00722	-.00146	-.00032	-.00317

RUN NO. 28/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-10.871	-2.7737	-.02794	.49645	.00740	.50478	-.21010	.07683	-.02354	.49658	-.05143
1.200	-8.688	-2.5688	-.01903	.49703	.00726	.39323	-.16506	.06252	-.01677	.49711	-.03373
1.200	-6.504	-2.5367	-.02468	.49502	.01554	.28842	-.12353	.04789	-.02249	.49513	-.04542
1.200	-4.341	-2.5968	-.03260	.49012	.02109	.19381	-.08301	.03215	-.03039	.49026	-.06196
1.200	-2.186	-2.6954	-.03920	.48471	.02276	.10290	-.04712	.01644	-.03692	.48488	-.07615
1.200	-.048	-2.7724	-.04462	.47859	.02402	.01366	-.00836	.00179	-.04230	.47880	-.08834
1.201	2.110	-2.8126	-.04395	.47942	.02120	-.07839	.03453	-.01251	-.04149	.47963	-.08651
1.200	4.261	-2.8811	-.04526	.48482	.02180	-.16720	.07148	-.02829	-.04382	.48504	-.08034
1.200	6.423	-2.8961	-.04264	.48727	.01705	-.26034	.10889	-.04370	-.04018	.48748	-.08242
1.200	8.610	-2.9864	-.04051	.48709	.00963	-.35995	.14684	-.05751	-.03797	.48729	-.07792
1.200	10.785	-3.1213	-.04392	.48637	.00648	-.46752	.18628	-.07157	-.04127	.48660	-.08480
GRADIENT		-.00318	-.00149	-.00074	-.00001	-.04231	.01836	-.00697	-.00146	-.00073	-.00312



DATE 24 APR 78 TABULATED SOURCE DATA - LARC 693 (1A43)

(RH0009) ( 12 OCT 74 )

LARC 6-TST-693 (1A43) CONFIGURATION 02/14/81

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
.600	-10.644	-.01651	-.77690	.27797	.34038	.02370	-.01219	.02248	-.71220	.41668	-1.70922
.600	-8.536	-.01334	-.63317	.27795	.28150	.01744	-.00786	.00177	-.58490	.36885	-1.58373
.600	-6.417	-.01251	-.50094	.27735	.22770	-.01925	-.00613	.00140	-.46670	.33159	-1.40748
.600	-4.342	-.01024	-.37995	.27679	.18126	.01177	-.00417	.00134	-.35790	.30476	-1.17435
.600	-2.246	-.00885	-.26930	.27326	.13799	.01077	-.00431	.00140	-.28959	.28361	-.81176
.600	-1.163	-.00732	-.16089	.26774	.09468	.00348	-.00174	.00115	-.16013	.26820	-.59705
.600	1.927	-.00111	-.04130	.25912	.04384	.00335	-.00297	.00157	-.04998	.23758	-.19407
.600	4.023	-.00101	-.08447	.25409	-.00749	.00397	-.00380	.00191	-.06644	.25939	-.29612
.600	6.104	.00035	.20433	.24572	-.05785	.00235	-.00318	.00156	.17704	.26605	.56544
.600	8.206	-.00070	.32442	.23284	-.10798	.00276	-.00264	.00183	.28786	.27676	1.94013
.600	10.301	-.00190	.45890	.21830	-.16261	.00443	-.00310	.00226	.41247	.29684	1.58952
	GRADIENT	.00123	.05535	-.00285	-.00236	-.00110	.00010	.00006	.05058	-.00359	-.17121

REF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 REF = 1230.3000 INCHES YMRP = .0000 IN. YT  
 REF = 1230.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0103

RUN NO. 36/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 35/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
.900	-11.244	-.03298	-.87982	.34125	.37660	.02838	-.01492	.00137	-.79639	.30825	-1.57311
.899	-9.017	-.02996	-.69680	.33608	.29496	.02533	-.01310	.00175	-.63552	.44114	-1.44063
.900	-6.812	-.02510	-.53297	.32860	.22420	.01959	-.00911	.00139	-.49024	.36930	-1.25863
.899	-4.611	-.02214	-.37731	.32097	.15938	.01649	-.00711	.00133	-.35029	.35026	-1.00010
.899	-2.417	-.01532	-.23124	.31475	.09690	.01258	-.00635	.00140	-.21776	.32422	-.87165
.900	-.232	-.00734	-.09266	.31275	.03165	.00961	-.00737	.00161	-.09128	.31315	-.29148
.900	1.932	-.00376	.04410	.30951	-.02504	.00675	-.00598	.00135	.03364	.31062	.10822
.900	4.101	-.00239	.16707	.30733	-.06853	.00621	-.00727	.00151	.14467	.31849	.45423
.900	6.254	-.00148	.29524	.30223	-.11602	.00696	-.00813	.00128	.26057	.33256	.76351
.900	8.443	-.00061	.43300	.29861	-.17378	.01064	-.00899	.00276	.38644	.35924	1.07573
.899	10.605	-.00334	.55607	.29231	-.21918	.00790	-.00602	.00294	.49267	.39024	1.26247
	GRADIENT	.00253	.06265	-.00149	-.00269	-.00121	.00000	.00001	.05701	-.00334	-.16940

ORIGINAL PAGE IS OF POOR QUALITY

LARC 6-TPT-693 (IA43) CONFIGURATION 02/74/81

(RHC008) ( 12 OCT 74 )

## REFERENCE DATA

SHEP = 2890.0000 SQ.FT. YMRP = 976.0000 IN. XT  
 LINEP = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPOBRK = .000 BDFLAP = .000

RUN NO. 34/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CL	CD	L/D
1.130	-11.691	-.03399	-.96800	.47805	.41619	.02443	-.01908	-.83109	.66428	-1.28116
1.130	-9.367	-.03324	-.76116	.47400	.32850	.02388	-.01175	-.67386	.59157	-1.13911
1.130	-7.070	-.02863	-.57774	.46750	.25479	.01806	-.03800	-.51583	.53483	-.96444
1.130	-4.850	-.02452	-.40504	.46375	.18570	.01467	-.03594	-.36481	.49802	-.73548
1.130	-2.540	-.01517	-.24233	.46031	.11835	.00985	-.03460	-.22169	.47080	-.47109
1.130	-.372	-.00810	-.08626	.45583	.05248	.00551	-.03421	-.08370	.45631	-.18343
1.130	1.904	-.00036	.05953	.44903	-.01317	.00509	-.03388	.04458	.45076	.09890
1.130	4.113	.00033	.20378	.44688	-.07973	.00733	-.03920	.17.21	.46033	.37191
1.130	6.331	-.00081	.34900	.43844	-.14377	.00895	-.01043	.29852	.47425	.62946
1.130	8.532	-.00534	.48242	.43176	-.20209	.01219	-.01213	.41303	.49856	.82844
1.130	10.728	-.00954	.59769	.42303	-.23560	.01361	-.01179	.50850	.52690	.96509
GRADIENT		.03289	.06824	-.00232	-.02974	-.00087	-.00033	.06010	-.00410	.12504

RUN NO. 33/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CL	CD	L/D
1.200	-11.748	-.03615	-.97819	.49130	.42381	.02323	-.01091	-.87555	.68076	-1.25969
1.200	-9.404	-.03222	-.76186	.48346	.32926	.01935	-.00820	-.67230	.60341	-1.11417
1.200	-7.084	-.02828	-.56793	.47950	.24948	.01628	-.00643	-.50445	.54588	-.92411
1.200	-4.812	-.02402	-.38779	.47560	.17367	.01270	-.00415	-.34653	.50546	-.68422
1.200	-2.553	-.01297	-.22270	.47099	.10381	.00595	-.00237	-.20151	.48044	-.41942
1.200	-.319	-.00431	-.07105	.46538	.04197	.00299	-.00161	-.05645	.46547	-.14706
1.200	1.908	-.00094	.05916	.45799	-.01931	.00320	-.00342	.05387	.46004	.11710
1.200	4.117	.00030	.20739	.45525	-.08159	.00452	-.00600	.17387	.46893	.37076
1.200	6.340	.00222	.34933	.44756	-.14239	.00562	-.00809	.29776	.48330	.61583
1.200	8.555	-.00538	.48858	.44200	-.20397	.00907	-.00857	.41739	.50984	.81849
1.200	10.790	-.00882	.61685	.43484	-.24576	.01958	-.00752	.52454	.54263	.96666
GRADIENT		.03278	.06539	-.00241	-.02839	-.00089	-.00021	.05808	-.00429	.11858





DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

(RH0009) ( 12 OCT 74 )

LARC 6-TT-693 (IA43) CONFIGURATION 06/12/37

PARAMETRIC DATA

REFERENCE DATA

MACH = 2.930 .0000 30. FT. WHP = 976.0000 IN. XT  
 LREF = 1293.3333 INCHES YHP = .0700 IN. YT  
 BREF = 1293.3333 INCHES ZHP = 403.0000 IN. ZT  
 SCALE = .0100

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDPRK = .000 BDFLAP = .000

RUN NO. 39/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.939	-13.618	-.01282	-.74709	.29181	.32364	.02072	-.01226	.00138	-.68053	-.42447	-1.60325
.933	-8.535	-.01308	-.60946	.29356	.26790	.01957	-.01070	.00105	-.55979	.37750	-1.48269
.923	-6.745	-.01130	-.47722	.28866	.21343	.01553	-.00764	.00050	-.44216	.33984	-1.33070
.923	-4.239	-.00924	-.35505	.28591	.15597	.01208	-.00551	.00035	-.33262	.31172	-1.06707
.939	-2.207	-.00622	-.24886	.28493	.12572	.00906	-.00484	.00029	-.23771	.29430	-.80771
.939	-.113	-.00148	-.14016	.28016	.08266	.00316	-.00236	-.00003	-.13960	.26044	-.49781
.933	1.990	-.00078	-.01971	.27278	.03412	.00371	-.00371	.00040	-.02898	.27195	-.10657
.939	4.041	.00318	.09883	.26640	-.01379	-.00359	-.00242	.00050	.07981	.27270	.29266
.933	6.143	.00245	.21602	.25895	-.05208	-.00021	-.01216	.00049	.18708	.28057	.66677
.939	8.245	.00037	.33972	.24931	-.11242	.00181	-.03255	.00114	.30046	.29545	1.01696
.939	10.340	-.00127	.46322	.23845	-.16240	.00351	-.02027	.00129	.41290	.31772	1.29955
GRADIENT		.00145	.05456	-.00245	-.02174	-.00147	.00035	.00002	.04960	-.00482	-.16414

RUN NO. 36/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.901	-11.211	-.02861	-.84585	.35297	.35843	.02537	-.01385	.00051	-.76108	.51069	-1.49028
.923	-8.953	-.02780	-.65087	.34872	.27505	.02419	-.01296	.00091	-.59855	.44732	-1.33808
.903	-6.745	-.02230	-.49394	.34151	.20254	.01879	-.00977	.00096	-.45041	.39716	-1.13406
.923	-4.538	-.01850	-.34172	.33284	.14912	.01456	-.00690	.00072	-.31431	.35883	-.87593
.899	-2.355	-.01335	-.19616	.32433	.07627	.01182	-.00657	.00092	-.18267	.33212	-.59001
.899	-.222	-.00848	-.05786	.31831	.00942	.01062	-.00794	.00120	-.05663	.31823	-.17796
.931	1.950	-.00119	.07682	.31691	-.04605	.00719	-.00800	.00089	.06599	.31934	.20664
.923	4.122	.00472	.18912	.31720	-.07939	.00298	-.00632	.00047	.16583	.32998	.50255
.923	6.292	.00525	.31208	.31239	-.12244	.00241	-.00595	.00081	.34472	.34472	.80054
.923	8.462	-.00491	.44579	.31143	-.17774	.00967	-.00982	.00254	.39510	.37964	1.05745
.923	10.650	-.00244	.57432	.31166	-.22783	.00632	-.00621	.00239	.50680	.41263	1.22822
GRADIENT		.00271	.06172	-.00179	-.02595	-.00129	-.00001	-.00002	.05590	-.00326	-.16246

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TFT-693 (IA43) CONFIGURATION 02/12/87

(RHC009) ( 12 OCT 74 )

## REFERENCE DATA

SREF = 2690.0000 39. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 PREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 377 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.629	-.03416	-.93228	.49390	.39253	.02448	-.01296	.00150	-.61359	.67169	-1.21126
1.130	-9.315	-.03604	-.72673	.46960	.30659	.02395	-.01144	.00082	-.63789	.60078	-1.06178
1.130	-7.022	-.02699	-.54723	.46171	.23335	.01662	-.00730	.00057	-.48423	.54498	-.68850
1.130	-4.742	-.02242	-.36906	.47610	.16453	.01359	-.00565	.00050	-.32843	.50498	-.63039
1.130	-2.504	-.01329	-.20898	.47337	.09945	.00905	-.00456	.00013	-.18810	.48204	-.39021
1.130	-.262	-.00761	-.05736	.47117	.03640	.00699	-.00479	.00030	-.05504	.47145	-.11675
1.129	1.953	-.00185	.07959	.46546	-.02375	.00374	-.00605	.00065	-.06368	.46790	.13610
1.129	4.129	.00346	.21886	.46306	-.08576	.00438	-.00695	.00046	-.18495	.47762	.39725
1.129	6.350	.00007	.35866	.45588	-.14682	.00863	-.01038	.00047	-.30604	.49275	.62108
1.123	8.552	-.00573	.48692	.45272	-.19991	.01060	-.01002	.00029	-.41617	.52039	.79972
1.123	10.737	-.00988	.59845	.44702	-.23096	.01434	-.01250	.00255	-.50469	.55069	.91647
GRADIENT		.00285	.06597	-.00153	-.02810	-.00098	-.00016	.00002	.05760	-.00311	.11720

## REFERENCE DATA

SREF = 2690.0000 39. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 PREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 437 0 RIVL = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.136	-.02519	-.77429	.35771	.29926	.02094	-.01050	.00070	-.69063	.50053	-1.37980
.950	-8.901	-.02143	-.59316	.35204	.21940	.01728	-.00836	.00138	-.53155	.43957	-1.20924
.970	-6.711	-.01911	-.43643	.34502	.15352	.01453	-.00646	.00134	-.39312	.39365	-.99884
.930	-4.516	-.01630	-.28760	.33545	.09389	.01349	-.00571	.00126	-.26022	.35805	-.72677
.930	-2.319	-.01097	-.14739	.32790	.03334	.00847	-.00369	.00124	-.13401	.33360	-.40170
.870	-.164	-.00444	-.00241	.32106	-.03717	.00575	-.00439	.00152	-.00147	.32106	-.00457
.920	2.013	.00205	.13177	.31860	-.09232	.00291	-.00469	.00136	.12050	.32303	.37302
.970	4.166	.00227	.24885	.31957	-.13124	.00346	-.00548	.00080	.22498	.33681	.66797
.920	6.341	.00644	.37747	.31451	-.17809	-.00050	-.00312	.00059	.34042	.33428	.96089
.830	8.529	.00174	.50581	.31240	-.22818	.00184	-.00323	.00190	.45369	.36356	1.16214
.830	10.609	-.00086	.62332	.31497	-.26910	.00358	-.00382	.00189	.55424	.42492	1.30435
GRADIENT		.00230	.06232	-.00199	-.02656	-.00116	-.00002	-.00004	.05646	-.00245	.16428



LARC 6-TPT-693 (IA43) CONFIGURATION: 02/T4/S7

(RHC010) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2593.0000 IN. FT. YMRP = 976.0000 IN. XT  
 ZREF = 1293.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1293.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 42/ 0 RIVL = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.300	-11.359	-.03102	-.89219	.44624	.33527	.02347	-.01193	.00087	-.74751	.60347	-1.23498
.351	-9.333	-.02601	-.64941	.44313	.24926	.01848	-.00834	.00057	-.57122	.54019	-1.03744
.401	-6.837	-.02457	-.47853	.43666	.18318	.01595	-.00609	.00074	-.42315	.49032	-.85264
.451	-4.630	-.01790	-.32315	.43001	.12499	.00997	-.00238	.00022	-.28738	.45469	-.63204
.501	-2.413	-.01285	-.18376	.42573	.07233	.00675	-.00132	.00018	-.15268	.43296	-.37574
.551	-.203	-.00216	-.03800	.42269	.01377	.00188	-.00008	-.00036	-.03550	.42283	-.06632
.601	1.953	.00293	.10418	.41641	-.05237	-.00101	-.00033	-.00003	.08986	.41973	.21409
.651	4.184	.00489	.24514	.41954	-.11313	-.00108	-.00130	-.00007	.21487	.43648	.49228
.701	6.353	.00338	.38061	.41210	-.16778	.00185	-.00405	-.00031	.33259	.45175	.73623
.751	9.542	.00125	.51607	.40576	-.22359	.00521	-.00817	-.00157	.44993	.47890	.93950
.801	15.735	.00165	.63525	.41079	-.26518	.00420	-.00596	-.00203	.54770	.52160	1.05004
.851		.00279	.06469	-.00136	-.02729	-.00135	-.00014	-.00004	.05713	-.00226	.12899

RUN NO. 41/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.592	-.03230	-.89226	.49445	.35739	.02203	-.01082	.00182	-.77470	.66386	-1.16732
1.131	-9.273	-.02953	-.68776	.49336	.26983	.01949	-.00321	.00137	-.59930	.59747	-1.00306
1.132	-6.960	-.02731	-.50633	.48334	.20220	.01670	-.00700	.00124	-.44405	.54113	-.82060
1.133	-4.711	-.02095	-.33523	.47917	.13426	.01263	-.00319	.00071	-.29474	.50309	-.58354
1.134	-2.467	-.01333	-.16991	.47679	.06525	.00891	-.00427	.00038	-.14923	.46386	-.30854
1.135	-.236	-.00508	-.02031	.47432	.00517	.00338	-.00407	.00053	-.01836	.47440	-.03870
1.136	1.990	.00026	.11747	.46785	-.05616	.00417	-.00315	-.00065	.10116	.47163	.21447
1.137	4.175	.00141	.25514	.46460	-.11771	.00523	-.00820	.00113	.22163	.48202	.45980
1.138	6.378	.00232	.39765	.45786	-.17953	.01078	-.01180	.00155	.34433	.49920	.68973
1.139	8.585	.00303	.52533	.45328	-.23224	.00984	-.00945	-.00018	.45197	.52666	.85818
1.140	10.782	.00102	.63198	.44598	-.25938	.01390	-.01165	.00331	.53739	.59534	.96594
1.141		.00264	.06614	-.00171	-.02818	-.00079	-.00031	-.00004	.03773	-.00263	.11741

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 0.000 ELV-RI = 0.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

(RMCD10) ( 12 OCT 74 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = 0.000 ELV-RI = 0.000
ELV-RO = .000 RUDDER = .000
SPDRBK = .000 BDFLAP = .000

RUN NO. 40/ 0 RIVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

MACH = 2690.0000 34. FT. XMRP = 976.0000 IN. XT
REF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

Table with columns: MACH, ALPHA, BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D. Rows 1.200 to 1.203.

(RMCD11) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000
ELV-LI = 0.000 ELV-RI = 0.000
ELV-RO = 4.000 RUDDER = .000
SPDRBK = .000 BDFLAP = .000

RUN NO. 47/ 0 RIVL = 3.88 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

MACH = 2690.0000 34. FT. XMRP = 976.0000 IN. XT
REF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

Table with columns: MACH, ALPHA, BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D. Rows 1.200 to 1.203.



REFERENCE DATA  
 SREF = 2630.0000 32.17. XMRP = 976.0000 IN. XT  
 -REF = 1230.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1230.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BETA = .000 ELV-LO = 4.000  
 ELV-L1 = 0.000 ELV-R1 = 0.000  
 ELV-R0 = 4.000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 46/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CVN	CV	CBL	CL	CD	L/D
.961	-11.361	-.02932	-.63444	.45031	.31976	.02129	-.00983	.00086	-.72934	.60803	-1.20343		
.961	-9.282	-.02807	-.63389	.44904	.23536	.01914	-.00803	.00090	-.55551	.54094	-1.02769		
.961	-6.963	-.02251	-.46495	.43969	.17310	.01345	-.00422	.00056	-.40935	.49187	-.63222		
.961	-4.607	-.01679	-.31007	.43463	.11226	.00855	-.00159	.00035	-.27416	.45910	-.59849		
.961	-2.396	-.01034	-.16455	.42778	.05645	.00440	-.00017	.00009	-.14653	.43428	-.33740		
.961	-1.162	-.00166	-.01881	.42472	-.02254	.00011	.00075	-.00019	-.01746	.42476	-.04111		
.960	2.000	.00448	-.12552	.41755	-.05678	-.00231	.00041	-.00004	-.11188	.42151	-.26543		
.960	4.181	.00432	-.25935	.42103	-.12513	-.00055	-.00151	.00030	-.22797	.43881	.51990		
.960	6.376	.00434	-.39584	.41301	-.18037	.00124	-.00381	-.00027	.34851	.45453	.76676		
.960	8.567	-.00142	.52514	.40755	-.23332	.00789	-.00875	.00191	.45955	.48136	.99466		
.960	10.745	-.00156	.65062	.41374	-.27368	.01561	-.01593	.00182	.55208	.52776	1.05489		
GRADIENT		.02260	.05538	-.00171	-.02735	-.00115	.00000	-.00000	.05747	-.00235	-.12920		

RUN NO. 45/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CVN	CV	CBL	CL	CD	L/D
1.129	-11.539	-.03391	-.67470	.49638	.34305	.02262	-.01074	.00021	-.75749	.66158	-1.14487		
1.131	-9.282	-.02905	-.67723	.49562	.25994	.01863	-.00841	.01177	-.58842	.59836	-.96336		
1.131	-6.963	-.02348	-.49192	.48641	.18905	.01408	-.00568	.00093	-.42933	.54246	-.79145		
1.131	-4.705	-.02142	-.32252	.48182	.12258	.01279	-.00305	.00087	-.28191	.50565	-.55642		
1.131	-2.499	-.01473	-.15523	.47984	.05324	.01004	-.00006	.00102	-.13450	.48606	-.27872		
1.130	-.226	-.00484	-.00457	.47723	-.00814	.00515	-.00386	.00051	-.00279	.47724	-.00585		
1.131	1.980	.00124	.13165	.47380	-.06764	.00404	-.00546	.00094	.11531	.47507	.48567		
1.131	4.188	.00257	.27135	.46710	-.12923	.00567	-.00807	.00111	.23651	.48567	.48698		
1.130	6.419	-.00090	.41132	.45982	-.19022	.01003	-.01167	.00175	.35733	.50292	.71092		
1.131	8.602	-.00553	.53354	.45464	-.23962	.01195	-.01056	.00137	.45953	.52933	.86814		
1.133	10.602	-.00831	.64583	.44741	-.27134	.01239	-.01091	.00291	.55050	.56051	.98214		
GRADIENT		.02288	.06636	-.00173	-.02810	-.00090	-.00029	-.00002	.05790	-.00239	-.11728		

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DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (IA43)

(RHC011) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

PARAMETRIC DATA

REFERENCE DATA

MREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 447 D RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.20	-11.642	-.03725	-.89175	.50734	.35903	.02235	-.00934	.03225	-.77098	.67706	-1.13673
1.202	-9.312	-.03105	-.67474	.50430	.25873	.01790	-.00702	.00212	-.58425	.60683	-.96279
1.203	-7.015	-.02877	-.48601	.49819	.18368	.01578	-.00561	.00177	-.42153	.55392	-.76113
1.204	-4.718	-.02255	-.30543	.49296	.10921	.01199	-.00399	.00174	-.26385	.51641	-.51082
1.205	-2.458	-.01351	-.14202	.49317	.04196	.00719	-.00241	.00108	-.12096	.49581	-.24377
1.206	-.227	-.00713	.00681	.48622	-.01724	.00518	-.00295	.00112	.00874	.46619	.01798
1.201	1.990	.00041	.13672	.47907	-.07134	.00292	-.00371	.00106	.12000	.48353	.24818
1.201	4.189	.00264	.27179	.47511	-.13030	.00375	-.00575	.00109	.29636	.49369	.47877
1.201	6.403	-.00070	.40704	.46826	-.18718	.00696	-.00795	.00105	.35227	.51073	.68974
1.201	8.611	-.00389	.53862	.46436	-.24249	.00706	-.00670	.00121	.46302	.53977	.85780
1.201	10.844	-.00853	.66452	.45776	-.28324	.00935	-.00726	.00259	.56653	.57460	.98597
GRADIENT		.00289	.06439	-.00210	-.02661	-.00093	-.00022	-.00006	.05577	-.00261	.11103

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

(RHC012) ( 12 OCT 74 )

PARAMETRIC DATA

REFERENCE DATA

MREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 517 D RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.903	-11.131	-.02700	-.75532	.36345	.28111	.02215	-.01091	.00080	-.67095	.50243	-1.33541
.903	-8.904	-.02400	-.57314	.35943	.20134	.01895	-.00817	.00136	-.51076	.44282	-1.15343
.903	-6.707	-.01804	-.42283	.35031	.14086	.01310	-.00537	.00136	-.37902	.39730	-.95398
.901	-4.512	-.01665	-.27372	.34117	.08094	.01165	-.00446	.00156	-.24603	.36165	-.68031
.903	-2.332	-.00994	-.13319	.33226	.02117	.00775	-.00363	.00161	-.11956	.33740	-.35435
.903	-.135	-.00633	.01966	.32468	-.05464	.00735	-.00323	.00202	.02042	.32464	.06289
.903	2.031	.00591	.16176	.32264	-.11793	-.00340	-.00291	.00078	.18025	.32817	.45378
.903	4.201	.00396	.28993	.32446	-.16576	.00310	-.00603	.00070	.26553	.34283	.77454
.903	6.377	.00172	.41744	.31649	-.21072	-.00154	-.00261	.00053	.37971	.36089	1.05215
.899	8.527	-.00124	.53912	.31503	-.25795	.00402	-.00413	.00277	.48644	.39148	1.24256
.903	10.691	-.00102	.65926	.31845	-.29899	.00346	-.00358	.00267	.58873	.43383	1.35270
GRADIENT		.00282	.06528	-.00216	-.02993	-.00116	-.00011	-.00012	.05934	-.00216	.17082



REFERENCE DATA

SREF = 2690.0000 94. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES. YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES. ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 50/ 0 RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CH	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.981	-11.357	-.02906	-.02483	.45390	-.31100	.02144	-.01016	.00082	-.71930	.60744	-1.18415
.981	-9.083	-.02363	-.62510	.44930	-.22712	.01753	-.00741	.00030	-.94634	.54234	-1.00737
.981	-6.837	-.02342	-.45603	.44107	-.16261	.01399	-.00439	.00055	-.40029	.49223	-.81322
.981	-4.607	-.01788	-.29581	.43607	-.10347	.00975	-.00226	.00049	-.25983	.45842	-.96679
.981	-2.395	-.01123	-.15011	.43020	-.04564	.00510	-.00020	.00004	-.13200	.43610	-.30268
.981	-.201	-.00265	-.00275	.42738	-.01522	.00113	.00003	.00013	-.00125	.42739	-.00292
.981	1.987	.00344	.13097	.42105	-.07602	-.00146	-.00005	.00015	.11629	.42534	.27340
.981	4.183	.00427	.27460	.42238	-.13644	-.00064	-.00150	.00012	.24304	.44148	.55051
.981	6.369	.00392	.40519	.41505	-.18848	.00370	-.00496	-.00011	.35664	.45744	.77964
.980	8.567	.00246	.53994	.40932	-.24420	.00615	-.00767	.00160	.47293	.48519	.97473
.983	10.735	.00073	.66571	.41532	-.29165	.00402	-.00525	.00159	.57675	.53176	1.09462
GRADIENT		.00269	.05474	-.00165	-.02711	-.00125	.00008	-.00003	.05710	-.00204	-.12798

PARAMETRIC DATA

BETA = .000 ELV-LO = 0.000  
 ELV-LI = 0.000 ELV-RI = 0.000  
 ELV-RO = 0.000 RUDDER = .000  
 SPDWRK = .000 BUFLAP = .000

RUN NO. 49/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.131	-11.978	-.03364	-.86729	.49881	.33603	.02398	-.01157	.00210	-.74933	.62373	-1.13096
1.130	-9.254	-.03422	-.66371	.49582	.25167	.02230	-.01043	.00144	-.57534	.59610	-.96519
1.130	-6.971	-.02618	-.47989	.48810	.18008	.01613	-.00685	.00129	-.41710	.54274	-.76830
1.130	-4.691	-.02118	-.30643	.48421	.11066	.01285	-.00535	.00097	-.26580	.50765	-.52339
1.130	-2.453	-.01248	-.14506	.48239	.04445	.00863	-.00444	.00059	-.12429	.48615	-.25461
1.130	-.224	-.00472	.00178	.47988	-.01476	.00543	-.00429	.00064	.00366	.47987	.00763
1.131	1.983	.00100	.13911	.47306	-.07450	.00405	-.00537	.00068	.12266	.47761	.25681
1.131	4.187	.00153	.27489	.46947	-.13392	.00615	-.00816	.00089	.23989	.48829	.49129
1.130	6.401	-.00381	.41621	.46137	-.19497	.00959	-.01119	.00130	.36217	.50469	.71753
1.129	8.603	-.00431	.53837	.45523	-.24387	.01068	-.01081	.00168	.46421	.53064	.87482
1.130	10.798	-.00894	.65420	.44884	-.27865	.01242	-.01064	.00294	.55853	.56345	.99127
GRADIENT		.00266	.06520	-.00175	-.02740	-.00081	-.00029	-.00000	.05671	-.00223	-.11452

DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43) (RHCO12) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 06/14/37

REFERENCE DATA  
BREF = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
ELV-L1 = 8.000 ELV-RI = 8.000  
ELV-R0 = 8.000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.201	-11.647	-.03616	-.88307	.50910	.34692	.02231	-.00980	.00217	-.76211	.67690	-1.12598
1.201	-9.314	-.03090	-.66307	.50607	.23021	.01835	-.00762	.00196	-.57439	.60704	-.94621
1.200	-7.006	-.02692	-.47553	.50002	.17467	.01503	-.00553	.00162	-.41099	.55429	-.74147
1.200	-4.735	-.02380	-.29851	.49543	.10228	.01292	-.00451	.00161	-.25660	.51838	-.49500
1.200	-2.466	-.01413	-.13638	.49279	.03631	.00780	-.00295	.00107	-.11505	.49820	-.23094
1.200	-.225	-.00333	.01270	.48876	-.02266	.00440	-.00284	.00084	.01461	.48871	.02990
1.200	1.985	-.00169	.14420	.48149	-.07752	.00459	-.00476	.00110	.12744	.48620	.26211
1.200	4.182	.00178	.27737	.47712	-.13539	.00380	-.00542	.00068	-.24184	.49608	.48751
1.200	6.408	-.00191	.41421	.47035	-.19299	.00306	-.00884	.00123	-.39912	.51365	.69917
1.200	8.613	-.00400	.54380	.46508	-.24698	.00735	-.00699	.00143	-.46792	.54187	.86332
1.200	10.837	-.00762	.66855	.45832	-.28533	.00830	-.00642	.00277	-.57042	.57042	.99023
GRADIENT		.00286	.06429	-.00215	-.02642	-.00097	-.00017	-.00008	-.05563	-.00256	.11032

LARC 8-TPT-693 (IA43) CONFIGURATION 06/14/37

REFERENCE DATA

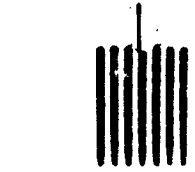
BREF = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
ELV-L1 = 4.000 ELV-RI = 4.000  
ELV-R0 = 8.000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.201	-11.147	-.02806	-.76814	.36010	.29247	.02326	-.01164	.00117	-.68404	.50181	-1.36314
1.201	-9.922	-.02332	-.58779	.35459	.21377	.01847	-.00873	.00171	-.52568	.44145	-1.19080
1.201	-6.730	-.02017	-.43125	.34709	.14909	.01499	-.00642	.00151	-.38760	.39324	-.98067
1.201	-4.514	-.01816	-.28253	.33711	.08958	.01315	-.00540	.00190	-.25512	.35830	-.71204
1.200	-2.345	-.01339	-.14161	.32869	.02926	.01060	-.00509	.00212	-.12803	.33441	-.38286
1.200	-.177	-.00575	.00162	.32187	-.04095	.00694	-.00507	.00227	.00261	.32186	.00612
1.200	2.009	.00185	.14187	.31734	-.10156	.00359	-.00482	.00155	.13064	.32272	.40482
1.200	4.169	.00333	.26033	.31932	-.14737	.00335	-.00557	.00085	.24441	.33798	.72315
1.200	6.330	.00484	.39287	.31377	-.19171	.00254	-.00345	.00124	.39588	.35517	1.00199
1.201	8.906	-.00021	.51931	.31341	-.24039	.00325	-.00380	.00247	.46694	.38673	1.20741
1.200	10.870	-.00173	.63872	.31542	-.28186	.00420	-.00406	.00290	.56928	.42823	1.32940
GRADIENT		.00237	.06378	-.00214	-.02784	-.00123	-.00000	-.00012	-.05791	-.00241	.16343





LARC 6-TPT-693 (IA43) CONFIGURATION 02/74/57

(RHC013) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2630.0000 94. FT. ZMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES ZMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = 0.000  
 ELV-L1 = 4.000 ELV-R1 = 4.000  
 ELV-R0 = 0.000 RUDDER = .000  
 SFDRK = .000 BDFLAP = .000

RUN NO. 54/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.980	-11.366	-.02820	-.83475	.44761	.32146	.02062	-.03962	.00078	-.73016	.60335	-1.21019
.991	-9.083	-.02514	-.63490	.44401	.23736	.01688	-.03698	.00050	-.55685	.53867	-1.03375
.981	-6.831	-.02316	-.46380	.43719	.17141	.01399	-.03452	.00041	-.41033	.48964	-.83803
.981	-4.626	-.01627	-.30981	.43246	.11207	.00771	-.03066	-.00007	-.27392	.45604	-.60068
.981	-2.412	-.01084	-.16139	.42675	.05474	.00443	-.03041	-.00002	-.14329	.43316	-.33079
.981	-.209	-.00416	-.01642	.42347	-.00438	.00169	-.00017	.00037	-.01488	.42353	-.03312
.980	1.975	.00085	.12280	.41798	-.06822	-.00002	-.00043	.00037	.10835	.42106	-.25733
.980	4.156	.00732	.25844	.42089	-.12418	-.00344	.00026	.00004	.22626	.42106	-.25733
.980	6.351	.00168	.38984	.41147	-.17521	.00285	-.00434	-.00033	.34194	.48206	.75639
.980	8.538	-.00258	.52298	.40626	-.22921	.00812	-.00841	.00192	.45687	.47940	.95301
.980	10.712	-.00063	.64343	.41238	-.27270	.00540	-.00618	.00180	.55357	.52478	1.05866
GRADIENT		.00268	.06454	-.00150	-.02713	-.00122	.00005	.00003	.05685	-.00217	-.12634

RUN NO. 53/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.129	-11.593	-.03303	-.89064	.49345	.34806	.02198	-.01040	.00201	-.76311	.66231	-1.15218
1.131	-9.276	-.03382	-.67905	.49275	.26423	.02123	-.00925	.00116	-.59074	.59576	-.99158
1.130	-6.979	-.02552	-.49241	.48474	.19119	.01536	-.00620	.00117	-.42987	.54098	-.79481
1.130	-4.724	-.01805	-.32321	.48004	.12356	.01020	-.00365	.00033	-.28258	.50503	-.55953
1.130	-2.472	-.01288	-.15928	.47872	.05638	.00864	-.00427	.00061	-.13948	.48514	-.28545
1.130	-.243	-.00620	-.01157	.47682	-.00345	.00594	-.00420	.00065	-.00993	.47686	-.02003
1.130	1.974	.00037	.12487	.47014	-.06259	.00393	-.00492	.00070	.10860	.47416	-.22905
1.130	4.178	.00188	.26184	.46563	-.12277	.00540	-.00742	.00075	.22715	.49446	-.46886
1.130	6.360	-.00038	.40128	.45917	-.18273	.00899	-.01067	.00099	.34777	.50091	-.69426
1.123	8.574	-.00565	.52436	.45336	-.23164	.01107	-.01062	.00107	.45087	.52667	-.85809
1.129	10.776	-.00768	.63743	.44624	-.26406	.01149	-.01012	.00270	.54275	.55755	-.97345
GRADIENT		.00239	.06537	-.00159	-.02749	-.00064	-.00037	.00002	.05683	-.00235	-.11537

REFERENCE DATA

MACH = 2.690.0000 30.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 52/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-11.678	-0.3345	-0.6997	.50701	.36025	.02047	-0.00886	.00207	-0.77773	.67848	-1.14628
1.201	-9.331	-0.3136	-0.67915	.50319	.26364	.01737	-0.00622	.00160	-0.58657	.60664	-0.97021
1.202	-7.027	-0.2847	-0.49136	.49677	.18834	.01535	-0.00522	.00158	-0.42690	.55315	-0.77176
1.203	-4.744	-0.02225	-0.31230	.49171	.11425	.01156	-0.00360	.00142	-0.27076	.51587	-0.52486
1.204	-2.485	-0.01486	-0.15013	.48847	.04750	.00782	-0.00254	.00107	-0.12880	.49452	-0.26045
1.205	-2.43	-0.00783	-0.00375	.48521	-0.11131	.00322	-0.00266	.00098	.00131	.48321	.00270
1.206	1.964	.00001	.12881	.47822	-0.06487	.00279	-0.00338	.00094	.11234	.48236	.23291
1.207	4.171	.00023	.26273	.47477	-0.12310	.00472	-0.00581	.00089	.22750	.48263	.46182
1.208	6.387	-0.00085	.39922	.46799	-0.18084	.00700	-0.00905	.00119	.34466	.50949	.67632
1.209	8.594	-0.00479	.53096	.46364	-0.23646	.00737	-0.00665	.00150	.45571	.53778	.84740
1.210	10.604	-0.00920	.65284	.45617	-0.27339	.00895	-0.00645	.00261	.55536	.57042	.97383
GRADIENT		.00269	.06417	-0.00198	-0.02635	-0.00084	-0.00023	-0.00005	.05556	-0.00265	-0.11073

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/37

REFERENCE DATA

MACH = 2.690.0000 30.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 59/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.144	-0.2474	-0.77375	.35574	.29953	.02063	-0.01039	.00137	-0.69040	.49659	-1.38471
.901	-8.925	-0.2599	-0.59707	.35175	.22216	.02111	-0.01041	.00218	-0.53527	.44013	-1.21617
.902	-6.721	-0.2070	-0.43328	.34402	.15245	.01576	-0.00703	.00140	-0.39203	.39259	-0.99855
.903	-4.529	-0.01806	-0.28793	.33625	.09300	.01350	-0.00589	.00160	-0.26047	.33794	-0.72771
.904	-2.338	-0.01083	-0.14306	.32755	.03129	.00834	-0.00385	.00138	-0.13158	.33319	-0.39491
.905	-1.183	-0.00450	-0.00631	.32062	-0.03322	.00564	-0.00482	.00160	-0.00528	.32064	-0.01647
.906	1.988	.00221	.12461	.31697	-0.08729	.00263	-0.00444	.00118	.11354	.32111	.35359
.907	4.158	.00621	.24896	.31804	-0.13027	.00030	-0.00395	.00071	.22524	.33525	.67185
.908	6.332	.00552	.37533	.31314	-0.17551	-0.00003	-0.00315	.00145	.33850	.35263	.95985
.909	8.511	-0.00182	.50499	.31271	-0.22652	.00494	-0.00490	.00281	.45315	.58400	1.16008
.910	10.662	-0.00254	.62421	.31377	-0.26882	.00513	-0.00471	.00325	.55536	.42364	1.31033
GRADIENT		.00284	.06191	-0.00217	-0.02604	-0.00148	-0.00015	-0.00009	.05606	-0.00265	-0.16348



REFERENCE DATA

MET = 2690.0000 IN. FT.    XMRP = 976.0000 IN. XT  
 LRET = 1290.0000 INCHES    YMRP = .0000 IN. YT  
 BRET = 1290.0000 INCHES    ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BETA = .000    ELV-LO = 4.000  
 ELV-LI = 4.000    ELV-RI = 4.000  
 ELV-RO = 4.000    RUDDER = .000  
 SPDRK = .000    BDFLAP = .000

RUN NO. 59/ 0    RIVL = 4.09    GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLN	CY	CYN	CBL	CL	CD	L/D
.901	-11.379	-.02717	-.84974	-.44574	.33343	.02019	-.00969	.00136	-.74509	.60463	-1.23231
.901	-9.090	-.02336	-.64756	-.44025	.24785	.01771	-.00766	.00104	-.56987	.59703	-1.06115
.901	-6.996	-.02404	-.47821	-.43377	.18312	.01550	-.00587	.00105	-.42301	-.48775	-.86723
.901	-4.634	-.01833	-.32363	-.42924	.12372	.00993	-.00224	.00063	-.28790	-.49399	-.63416
.901	-2.421	-.01069	-.17733	-.42198	.06753	.00508	-.00035	.00036	-.15905	-.42909	-.37066
.901	-.219	-.00167	-.03199	-.42042	.00841	.00074	-.00002	.00042	-.03038	-.42034	-.07224
.901	1.979	-.00334	.11065	-.41503	-.05728	-.00161	-.00018	.00018	.09625	-.41857	.22995
.901	4.148	-.00395	.24369	-.42024	-.11334	-.00033	-.00170	.00049	.21265	-.43677	.48698
.901	6.345	-.00173	.37918	-.41073	-.16565	.00365	-.00333	.00028	.33146	-.45012	.75639
.900	8.328	-.00031	.50862	-.40654	-.21728	.00648	-.00798	.00192	.44271	-.47747	.92720
.903	10.718	-.00037	.63301	-.41131	-.26258	.00553	-.00637	.00251	.54547	-.52185	1.04527
GRADIENT		-.00268	.06476	-.00114	-.02727	-.00124	.00007	-.00002	.05721	-.00206	-.12843

RUN NO. 57/ 0    RIVL = 4.20    GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.601	-.03436	-.89228	-.49373	.35852	.02336	-.01142	.00239	-.77477	.66307	-1.16846
1.129	-9.291	-.03242	-.69022	-.49201	.27386	.02135	-.01005	.00158	-.60206	.59501	-1.01184
1.130	-7.000	-.02680	-.50669	-.48247	.20252	.01644	-.00693	.00156	-.44412	.54062	-.82149
1.130	-4.739	-.02308	-.33469	-.47742	.13440	.01411	-.00595	.00140	-.29437	.50328	-.58469
1.130	-2.469	-.01231	-.17169	-.47556	.06713	.00832	-.00415	.00092	-.15105	.48231	-.31305
1.130	-.236	-.00413	-.02017	-.47363	.00903	.00481	-.00383	.00089	-.01823	.47371	-.03848
1.129	1.959	-.00210	.11534	-.46786	-.03390	.00595	-.00618	.00136	.09948	-.47154	.21096
1.129	4.172	-.00439	.23223	-.46480	-.11452	.00439	-.00740	.00111	.21775	-.48192	.45184
1.130	6.369	-.00033	.39555	-.45734	-.17660	.00980	-.01087	.00122	.34219	-.49852	.68642
1.132	8.571	-.00071	.51718	-.45391	-.22348	.01120	-.01076	.00094	.44376	-.52592	.84378
1.130	10.775	-.00042	.62798	-.44621	-.25587	.01274	-.01079	.00305	.53354	-.55569	.96014
GRADIENT		-.00294	.06585	-.00148	-.02789	-.00099	-.00022	-.00001	.03746	-.00243	-.11707

ORIGINAL PAGE IS OF POOR QUALITY

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

RUN NO. 56/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 36.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 1 INCHES YMRP = .0000 IN. YT  
 ZREF = 1290.3000 1 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

MACH	ALPHA	BETA	CN	CA	CLM	CT	CYN	CBL	CL	CD	L/D
1.200	-11.671	-.03347	-.92698	.50576	.36660	.02091	-.00938	.02839	-.78992	.67877	-1.15786
1.199	-9.338	-.03142	-.69149	.50191	.27364	.01797	-.00689	.02819	-.60089	.60746	-.98918
1.201	-7.037	-.02790	-.50335	.49537	.19834	.01503	-.00510	.02182	-.43886	.53330	-.79320
1.203	-4.747	-.02251	-.32139	.48948	.12327	.01186	-.00379	.02176	-.27978	.51440	-.54390
1.201	-2.480	-.01311	-.15861	.48535	.05556	.00646	-.00171	.02103	-.13742	.49276	-.27888
1.203	-.249	-.00657	-.00931	.48284	-.00387	.00458	-.00249	.02112	-.00722	.48287	-.01494
1.200	1.960	-.00062	.12120	.47623	-.05804	.00353	-.00398	.02123	.10484	.48010	.21638
1.203	4.166	-.00154	.25482	.47259	-.11627	.00422	-.00580	.02136	.21981	.48985	.44873
1.200	6.383	-.00041	.39284	.46628	-.17518	.00712	-.00840	.02151	.33856	.50706	.66770
1.200	8.589	-.00435	.52373	.46241	-.23042	.00748	-.00599	.02181	.44879	.53545	.83816
1.203	10.813	-.00944	.64811	.45554	-.26874	.00952	-.00703	.02289	.55114	.56804	.96855
GRADIENT		.00273	.06434	-.00197	-.02662	-.00082	-.00028	-.00003	.05577	-.00279	-.11151

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

RUN NO. 63/ 0 RVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 36.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 1 INCHES YMRP = .0000 IN. YT  
 ZREF = 1290.3000 1 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

MACH	ALPHA	BETA	CN	CA	CLM	CT	CYN	CBL	CL	CD	L/D
1.200	-11.161	-.02717	-.79708	.35422	.31768	.02210	-.01075	.00002	-.71344	.50181	-1.42172
1.201	-8.937	-.02530	-.61488	.35036	.23684	.02012	-.00957	.00064	-.55299	.44162	-1.25218
1.200	-6.731	-.02199	-.45146	.34304	.16571	.01645	-.00714	.00049	-.40814	.39359	-1.03697
1.203	-4.532	-.01827	-.29792	.33512	.10312	.01329	-.00551	.00061	-.27051	.35761	-.75643
1.200	-2.345	-.00949	-.15758	.32635	.04200	.00679	-.00273	.00050	-.14409	.33252	-.43333
1.203	-.186	-.00335	-.01646	.31943	-.02599	.00828	-.00519	.00106	-.01541	.31948	-.04824
1.200	1.992	-.00194	.11460	.31651	-.07852	.00294	-.00466	.00050	.10353	.32031	.32321
1.203	4.143	-.00590	.22595	.31808	-.11180	.00040	-.00388	.00073	.20238	.33357	.60672
1.200	6.320	-.00340	.35533	.31277	-.15830	-.00008	-.00303	.00066	.31894	.35000	.91123
1.200	8.486	-.00046	.48332	.31120	-.20894	.00375	-.00425	.00194	.43210	.37912	1.13875
1.203	10.656	-.00071	.60146	.31346	-.25084	.00355	-.00387	.00224	.53312	.41927	1.27155
GRADIENT		.00276	.06087	-.00203	-.02538	-.00137	.00006	.00001	.05503	-.00279	-.16060



PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BOFLAP = .000

REFERENCE DATA

WREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES YWRP = .0000 IN. YT  
 SREF = 1290.0000 INCHES ZWRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 62/ 0 RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.980	-11.390	-.02990	-.86945	.44167	.34904	.02176	-.01009	.00014	-.76510	.60468	-1.26530
.981	-9.108	-.02561	-.66167	.43919	.26097	.01749	-.00756	.00010	-.58381	.53639	-1.08436
.981	-6.865	-.02241	-.49315	.43290	.19628	.01357	-.00440	-.00024	-.43787	.48874	-.89593
.981	-4.630	-.01978	-.33806	.42764	.13710	.01044	-.00209	-.00002	-.30243	.45354	-.66683
.981	-2.430	-.00816	-.19297	.42119	.08172	.00844	.00138	-.00082	-.17493	.42699	-.40778
.981	-.226	-.00148	-.04695	.41854	.02228	-.00061	.00153	-.00078	-.04520	.41872	-.10794
.980	1.962	.00352	.09641	.41304	-.04418	-.00249	.00113	-.00071	-.08222	.41610	-.19760
.980	4.140	.00747	.22759	.41864	-.09869	-.00398	.00083	-.00084	.19677	.43398	.45341
.980	6.338	.00219	.36807	.40988	-.15618	.00258	-.00428	-.00021	.32057	.44800	.71556
.980	8.529	.00009	.49467	.40490	-.20576	.00611	-.00742	-.00129	.42916	.47379	.90580
.980	10.759	-.00052	.61932	.41116	-.25088	.00454	-.00527	-.00219	.53213	.51908	1.02314
GRADIENT		.00302	.05478	-.00119	-.02724	-.00154	.00026	-.00007	.05725	-.00238	-.12976

RUN NO. 61/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.611	-.03329	-.90763	.49222	.37107	.02336	-.01095	.00152	-.78999	.68482	-1.18827
1.131	-9.301	-.03402	-.70387	.48895	.28552	.02134	-.00928	.00061	-.61559	.59628	-1.03238
1.130	-7.000	-.02702	-.52102	.48091	.21424	.01596	-.00624	.00069	-.45853	.54083	-.84783
1.130	-4.741	-.01954	-.35041	.47578	.14677	.01124	-.00419	.00029	-.30889	.50311	-.61394
1.130	-2.487	-.01409	-.18327	.47357	.07906	.00835	-.00333	.00016	-.16455	.48117	-.34157
1.129	-.255	-.00533	-.03424	.47167	.01679	.00467	-.00009	.00022	-.03214	.47181	-.06812
1.130	1.932	.00032	.10376	.46580	-.04363	.00373	-.00466	.00044	.08784	.46907	.18726
1.130	4.151	-.00160	.23894	.46313	-.10416	.00740	-.00817	.00103	.20479	.47921	.42733
1.129	6.374	-.00411	.38710	.45639	-.16897	.01117	-.01190	.00138	.33404	.49634	.67272
1.129	8.563	-.00542	.50906	.45222	-.21857	.01106	-.01024	.00059	.43603	.52298	.83378
1.129	10.763	-.00841	.61836	.44536	-.24729	.01221	-.01063	.00248	.52431	.55301	.94810
GRADIENT		.00227	.06606	-.00149	-.02811	-.00036	.00042	-.00008	.05789	-.00271	-.11772

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/57

(RMCD15) ( 12 OCT 74 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 60/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.201	-11.695	-.03407	-.92292	.50501	.39121	.02026	-.00834	.00162	-.80152	.69146	-1.17618
1.200	-9.351	-.02950	-.70543	.50053	.28487	.01608	-.00354	.00116	-.61473	.60849	-1.01024
1.200	-7.043	-.02704	-.51444	.49365	.20829	.01380	-.00402	-.00068	-.45003	.55300	-.81360
1.201	-4.757	-.02233	-.33493	.48783	.13455	.01065	-.00246	.00083	-.29332	.51392	-.57075
1.200	-2.498	-.01602	-.17023	.48400	.06516	.00781	-.00199	.00081	-.14897	.49095	-.30342
1.200	-.258	-.00310	-.02139	.48061	.00378	.00318	-.00147	.00046	-.01922	.48071	-.03999
1.203	1.964	.00151	.11175	.47393	-.04993	.00167	-.00272	.00053	.09544	.47748	.19989
1.200	4.156	.00072	.24310	.47091	-.10728	.00419	-.00539	.00100	.20833	.48729	.42733
1.200	6.387	-.00122	.38350	.46464	-.16737	.00681	-.00765	.00106	.32953	.50443	.63328
1.201	8.582	-.00390	.51414	.46133	-.22239	.00697	-.00658	.00151	.43953	.53291	.82477
1.200	10.807	-.00916	.64121	.45463	-.26332	.00861	-.00607	.00212	.54459	.56680	.96082
GRADIENT		.00285	.06454	-.00197	-.02687	-.00086	-.00029	.00000	.05600	-.00301	-.11218

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/57

(RMCD16) ( 28 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 68/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-10.697	5.04109	-.75719	.29500	.31878	-.16731	.07512	-.01756	-.68828	.43041	-1.60145
.600	-8.561	5.07623	-.61425	.29380	.26030	-.17193	.07753	-.01908	-.56367	.38197	-1.47370
.600	-6.454	5.10379	-.48351	.29293	.20784	-.17614	.07951	-.02126	-.44746	.34550	-1.29312
.600	-4.348	5.12432	-.35702	.29061	.15809	-.18059	.08215	-.02387	-.33396	.31684	-1.05402
.598	-2.263	5.13919	-.23394	.28745	.11712	-.18677	.08480	-.02602	-.24236	.29725	-.81525
.600	-1.173	5.14784	-.14753	.28344	.07324	-.19144	.08632	-.02810	-.13947	.28387	-.49132
.598	1.919	5.14880	-.02029	.27756	.02617	-.19710	.08898	-.03099	-.02937	.27672	-.10685
.600	4.035	5.13929	.10833	.27083	-.02615	-.19553	.08734	-.03293	.08890	.27781	.32001
.600	6.155	5.11931	.22367	.26195	-.07103	-.18952	.08210	-.03359	.19430	.28442	.68314
.599	8.238	5.09547	.31007	.25010	-.12681	-.18643	.07996	-.03506	.31161	.29782	1.04631
.599	10.309	5.06104	.48236	.23816	-.17852	-.18179	.07793	-.03663	.43162	.32108	1.34427
GRADIENT		.00187	.05546	-.00236	-.02189	-.00191	.00069	-.00110	.05042	-.00469	-.16470

PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 677 0 RVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.899	-11.260	5.17427	-.82644	.33222	.33095	-.21609	.10221	-.02152	-.74176	.50681	-1.46337
.899	-9.033	5.20622	-.63798	.35094	.26011	-.21417	.10227	-.02185	-.59467	.44995	-1.32164
.899	-6.834	5.24592	-.50690	.34659	.19963	-.22424	.10756	-.02415	-.48203	.40445	-1.14242
.903	-4.635	5.26848	-.35212	.34246	.13698	-.22679	.10927	-.02736	-.32329	.36960	-.87424
.903	-2.434	5.28377	-.21236	.33933	.08104	-.22931	.10954	-.03021	-.19776	.34805	-.56819
.899	-.256	5.29446	-.07788	.33442	.02200	-.22965	.10758	-.03211	-.07637	.33476	-.22815
.903	1.926	5.29474	.05087	.32875	-.03805	-.22965	.10588	-.03335	.04979	.33061	.15 50
.899	4.111	5.28319	.19317	.32688	-.08803	-.22679	.10279	-.03424	.16924	.33988	.9794
.899	6.308	5.25961	.32337	.32289	-.13420	-.21711	.09223	-.03555	.28593	.35847	.80213
.903	8.489	5.22977	.46533	.31928	-.19276	-.20735	.08490	-.03483	.41310	.38447	1.07446
.899	10.662	5.19791	.58817	.32057	-.23723	-.20540	.08159	-.03472	.51870	.42385	1.22376
GRADIENT		.00176	.06241	-.00191	-.02604	-.00001	-.05076	-.00077	.05641	-.00334	-.15847

RUN NO. 667 0 RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-11.537	5.24118	-.92941	.43971	.38251	-.25069	.11763	-.02045	-.82268	.61871	-1.33400
.902	-9.237	5.27165	-.75086	.44039	.29936	-.24619	.11669	-.02427	-.65069	.53200	-1.17878
.903	-6.956	5.29196	-.54476	.43375	.22280	-.23893	.11271	-.02811	-.48622	.49654	-.96323
.901	-4.739	5.31144	-.38244	.43255	.15850	-.23738	.11177	-.03122	-.34540	.46268	-.74653
.903	-2.499	5.32390	-.22925	.42929	.09958	-.23423	.10809	-.03437	-.21031	.43888	-.47921
.903	-.266	5.32953	-.07771	.42675	.03900	-.23178	.10484	-.03750	-.07572	.42710	-.17729
.903	1.942	5.32714	.06942	.42508	-.02439	-.23007	.10232	-.03851	.05497	.42718	.12868
.903	4.122	5.31851	.20892	.42154	-.08411	-.22803	.09959	-.03881	.17808	.43546	.40894
.903	6.346	5.29447	.35203	.41973	-.14905	-.21924	.09106	-.03829	.30348	.45607	.66542
.903	8.534	5.25773	.48458	.41623	-.19793	-.20848	.08379	-.03794	.41745	.48333	.86333
.979	10.735	5.22140	.62121	.41419	-.25167	-.20221	.07742	-.03657	.53319	.52265	1.02017
GRADIENT		.00078	.05685	-.00118	-.02749	.00103	-.00140	-.00087	.05921	-.00900	-.13169

LARC 6-PT-693 (IA43) CONFIGURATION 02/TA/S7

PARAMETRIC DATA

REFERENCE DATA

SREF = 2890.0000 36.FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 65/ 0 RNL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CTN	CBL	CL	CD	L/D
1.130	-11.736	5.27238	-95232	48772	39034	-24049	10639	-02055	-83321	.67123	-1.24131
1.131	-9.432	5.28054	-74698	48707	30585	-22601	09939	-02301	-65705	.60290	-1.08962
1.131	-7.108	5.30926	-55430	48458	22328	-21781	09543	-02703	-49008	.54945	-0.89194
1.130	-4.835	5.33201	-37876	48386	15324	-21555	09205	-03119	-33663	.51406	-0.65484
1.130	-2.568	5.34653	-21690	48212	09289	-21458	09067	-03602	-19466	.49133	-0.39622
1.130	-.293	5.35391	-08297	47809	03320	-21774	09351	-03949	-06051	.47841	-0.12647
1.130	1.936	5.35998	06379	47354	-03044	-22382	09700	-04097	06775	.47610	-.14231
1.130	4.145	5.34847	22427	46511	-09347	-22019	09240	-04041	19007	.48010	.39589
1.130	6.354	5.32387	36355	46004	-15392	-21107	08416	-03935	31040	.49744	.62399
1.130	8.593	5.28661	50346	45622	-20923	-20366	07651	-03824	42964	.52632	.81631
1.129	10.803	5.23040	63239	44923	-25658	-19692	07280	-03991	53717	.53883	.96125
GRADIENT		.02203	.06706	-.00235	-.02783	-.00084	.00031	-.00104	.03658	-.00372	.11752

RUN NO. 64/ 0 RNL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CTN	CBL	CL	CD	L/D
1.200	-11.804	5.27919	-96563	50177	39716	-23701	10397	-02143	-84256	.68670	-1.22342
1.201	-9.468	5.29937	-75014	50041	30619	-22260	09826	-02400	-65760	.61698	-1.06584
1.199	-7.141	5.32488	-54759	49873	21956	-21972	09495	-02871	-48135	.56293	-0.85507
1.200	-4.862	5.34878	-37171	49374	14872	-21941	09417	-03286	-32836	.52546	-0.62490
1.200	-2.562	5.36210	-20516	49276	08290	-21780	09246	-03590	-18253	.50143	-0.36482
1.200	-.309	5.36860	-09008	48778	02238	-21981	09438	-03839	-04767	.48805	-0.09767
1.200	1.953	5.37336	09608	48325	-03812	-22399	09819	-04006	07955	.48623	.16360
1.200	4.142	5.36876	23034	47596	-09682	-22590	09608	-04048	19336	.49135	.38759
1.201	6.367	5.34131	36781	46921	-15592	-21612	08732	-03925	31351	.50711	.61822
1.200	8.612	5.30516	50546	46586	-20883	-20594	08035	-03973	43000	.53630	.80178
1.200	10.823	5.26963	63870	45733	-25961	-20333	07635	-04035	54146	.56913	.95138
GRADIENT		.00211	.06683	-.00218	-.02718	-.00094	.00042	-.00087	.03618	-.00372	.11427

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PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 73/ 0 RWL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-10.687	-5.07351	-.74143	.29633	.31250	.21326	-.09884	.01984	-.67362	.42868	-1.57139
.600	-9.564	-5.10660	-.60391	.29604	.25682	.21211	-.09606	.02088	-.55309	.38287	-1.44333
.601	-6.466	-5.13307	-.46930	.29420	.20104	.21215	-.09462	.02266	-.43319	.34518	-1.28499
.600	-4.340	-5.14932	-.34387	.29252	.15181	.20904	-.09227	.02435	-.32055	.31769	-1.00901
.600	-2.266	-5.15270	-.23386	.28992	.10924	.20306	-.08952	.02509	-.22222	.29893	-.74336
.599	-.171	-5.15206	-.12539	.28693	.06880	.19705	-.08903	.02636	-.12453	.28731	-.43346
.600	1.929	-5.14434	-.02633	.28023	.02313	.19219	-.08824	.02822	-.01775	.27979	-.06345
.600	4.040	-5.13494	-.11151	.27450	-.02439	.19334	-.08934	.03106	-.09191	.28148	-.38633
.599	6.118	-5.11276	.22729	.26566	-.07083	.18588	-.08563	.03199	-.19768	.28837	.68582
.599	8.246	-5.09041	.33826	.25396	-.12568	.18540	-.08365	.03423	-.31813	.30272	1.03091
.600	10.343	-5.06016	.46811	.24108	-.17723	.18230	-.08017	.03574	-.43395	.32426	1.33827
GRADIENT		.00178	-.05421	-.00220	-.02093	-.00168	-.00034	.00079	.04913	-.00436	-.15993

RUN NO. 72/ 0 RWL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.800	-11.294	-5.23560	-.62695	.35775	.33175	.27375	-.13610	.02212	-.74123	.51226	-1.44698
.900	-9.027	-5.26455	-.64102	.35859	.24984	.26587	-.13100	.02566	-.57682	.45473	-1.26849
.900	-6.812	-5.29957	-.48341	.35475	.18748	.26908	-.13093	.02773	-.43792	.40939	-1.06917
.920	-4.610	-5.30725	-.33627	.34962	.12922	.25791	-.12456	.02886	-.30708	.37551	-.81776
.900	-2.430	-5.30809	-.19729	.34599	.07375	.24693	-.11802	.03025	-.18245	.35404	-.51532
.920	-.249	-5.29946	-.05048	.34087	.01428	.23827	-.11519	.03176	-.05900	.34113	-.17296
.920	1.939	-5.29110	.07100	.33753	-.03994	.23492	-.11428	.03339	.05934	.33974	.17525
.901	4.130	-5.27236	.19389	.33488	-.08857	.22849	-.11144	.03342	.17525	.34841	.50301
.900	6.293	-5.25039	.32943	.33002	-.13698	.21875	-.10176	.03486	.29127	.36414	.79809
.900	8.491	-5.23067	.46468	.32993	-.18826	.21507	-.09566	.03629	.41087	.39493	1.04008
.900	10.668	-5.19877	.59214	.32634	-.23758	.20909	-.08568	.03605	.52150	.43031	1.21190
GRADIENT		.00397	-.06136	-.00174	-.02514	-.00324	-.00137	.00006	.05523	-.00313	-.15251

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TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPI-693 (IA43) CONFIGURATION 02/TA/57

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

MACH = 2890.0000 50.FT. XWRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES YWRP = .0000 IN. YT  
 BRP = 1290.0000 INCHES ZWRP = 400.0000 IN. ZT  
 SCALE = .3100

RUN NO. 71/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.940	-11.518	-5.29932	-91173	.44584	.37417	.30006	-.14604	.02334	-.80431	.61691	-1.29937
.960	-9.211	-5.32078	-71131	.44227	.29077	.29364	-.14271	.02691	-.63134	.55043	-1.14701
.980	-6.973	-5.34390	-53033	.43921	.21488	.27845	-.13266	.02950	-.47326	.50037	-.94587
.990	-4.707	-5.35136	-36723	.43438	.15260	.26557	-.12445	.03147	-.33035	.46305	-.71342
.975	-2.494	-5.34595	-21963	.43343	.09764	.25021	-.11518	.03378	-.20057	.44258	-.45317
.973	-.273	-5.33423	-.06808	.43117	.03586	.23957	-.11169	.03640	-.08603	.43149	-.15302
.973	1.929	-5.32055	.07266	.43011	-.02325	.23275	-.10911	.03740	.05814	.43231	.13448
.973	4.112	-5.30297	.20842	.42803	-.08190	.22874	-.10714	.03716	.17719	.44187	.40100
.973	6.325	-5.28070	.34725	.42558	-.13779	.22250	-.10235	.03647	.29825	.46125	.64661
.980	8.520	-5.25215	.48405	.42766	-.18948	.21570	-.09555	.03742	.41535	.49465	.83968
.975	10.712	-5.21747	.61625	.42095	-.24518	.20594	-.08422	.03661	.52727	.52816	.99633
GRADIENT		.03558	.06544	-.00073	-.02674	-.00420	.00185	.00068	.03774	-.00239	.12767

RUN NO. 70/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.749	-5.33329	-94287	.48285	.39378	.28554	-.13094	.02393	-.82337	.67158	-1.22602
1.131	-9.410	-5.36032	-73343	.48933	.29690	.27595	-.12381	.02706	-.64356	.60263	-1.06792
1.131	-7.125	-5.37275	-54100	.48658	.21688	.26052	-.11637	.02961	-.47647	.54993	-.86741
1.130	-4.830	-5.37867	-36495	.48504	.14691	.24634	-.10716	.03262	-.32282	.51404	-.62800
1.130	-2.556	-5.37932	-20617	.48497	.08755	.23639	-.10135	.03604	-.18434	.49368	-.37340
1.130	-.317	-5.36460	-.05504	.48155	.02882	.22804	-.10088	.03811	-.03238	.48186	-.10871
1.130	1.930	-5.35159	.09586	.47593	-.03680	.22719	-.10464	.03914	.07977	.47889	.16658
1.130	4.138	-5.33360	.23496	.46775	-.09898	.22393	-.10409	.03869	.20060	.48349	.41490
1.130	6.357	-5.31530	.37053	.46465	-.15411	.21938	-.09908	.03779	.31680	.50282	.63075
1.130	8.575	-5.28589	.50097	.46153	-.20397	.21323	-.09220	.03719	.42656	.53106	.80321
1.130	10.804	-5.25797	.62817	.45873	-.24932	.21351	-.08925	.03981	.53142	.56639	.93826
GRADIENT		.00325	.06699	-.00194	-.02748	-.00241	.00013	.00070	.03847	-.00339	.11711



DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

(RMCD17) ( 28 JAN 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/11/75

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

REFERENCE DATA

REF = 2880.0000 30.FT. YMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 69/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-11.827	-5.35122	-96302	.50642	.39407	.28513	-.12764	.02494	-.63679	.69303	-1.21028
1.201	-9.473	-5.37033	-74288	.50364	.30024	.26779	-.11720	.02806	-.64950	.62103	-1.04584
1.201	-7.148	-5.38991	-54041	.50259	.21476	.25877	-.11200	.03159	-.47367	.56593	-.83698
1.200	-4.837	-5.39562	-35956	.50033	.14265	.24420	-.10215	.03407	-.31591	.52898	-.59720
1.201	-2.969	-5.39077	-19426	.49833	.07761	.23169	-.09588	.03568	-.17175	.50654	-.33906
1.201	-.318	-5.38032	-04391	.49461	.02205	.22559	-.09586	.03708	-.04116	.49484	-.08318
1.201	1.932	-5.36642	.0272	.49016	-.04001	.22630	-.10177	.03861	.08613	.49334	.17499
1.200	4.139	-5.35196	.24010	.48085	-.09860	.22676	-.10369	.03903	.20499	.49700	.41186
1.200	6.382	-5.33036	.37768	.47658	-.15825	.21961	-.09649	.03780	.32236	.51561	.62520
1.200	8.600	-5.30139	.51366	.47314	-.21291	.21212	-.08838	.03745	.54463	.57980	.80261
1.200	10.839	-5.27339	.64041	.46781	-.25610	.21121	-.08394	.03697	.54101	.57980	.93294
GRADIENT		.00497	.06641	-.00209	-.02663	-.00179	-.00041	.00037	.03785	-.00044	.11234

(RMCD18) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/11/75

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

REFERENCE DATA

REF = 2880.0000 30.FT. YMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 78/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-10.602	-0.01037	-73145	.28265	.32740	.01487	-.00768	-.00039	-.68477	.42891	-1.60778
.602	-8.458	-0.00930	-61480	.29099	.27102	.01245	-.00365	-.00057	-.56511	.37825	-1.49403
.601	-6.401	-0.00766	-48542	.28773	.21847	.00999	-.00335	-.00108	-.43031	.34005	-1.32423
.600	-4.293	-0.00649	-36087	.28530	.16864	.00714	-.00226	-.00106	-.33849	.31152	-1.08689
.599	-2.223	-0.01119	-25359	.28489	.12701	-.00121	.00263	-.00224	-.24435	.29459	-.82945
.599	-1.147	.00005	-14264	.28095	.08197	-.00645	.00479	-.00246	-.14192	.28131	-.50450
.600	1.935	.00315	-.02489	.27611	.03753	-.00526	.00327	-.00086	-.03430	.27510	-.12468
.600	4.059	.00432	.09529	.26957	-.01052	-.00566	.00260	-.00050	.07397	.27564	.87360
.600	6.140	.00073	.21434	.26184	-.05824	-.00079	.00024	.00009	.16510	.28326	.63347
.600	8.223	-.00073	.33161	.25107	-.10845	-.00036	.00003	.00010	.29231	.29590	.58787
.600	10.334	-.00233	.46360	.23957	-.16075	.00166	.00030	.00064	.41330	.31888	.29689
GRADIENT		.00124	.03474	-.00193	-.02154	-.00142	.00049	.00012	.04976	-.00436	.16426

LARC 8-TPT-693 (1A43) CONFIGURATION 02/11/57

(RUCD18) ( 12 OCT 74

## REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RJ = .000 RUDDER = .000  
 SPBRK = .000 BDFLAP = .000

RUN NO. 75/ 0 RMVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.901	-11.193	-.02193	-.84876	.35461	.36234	.01976	-.01101	-.00033	-.76378	.51263	-1.46992
.900	-8.957	-.02199	-.66681	.34902	.26137	.01936	-.01056	.00323	-.60434	.44656	-1.34724
.900	-6.747	-.02313	-.49684	.34191	.20585	.02000	-.01076	.00056	-.45324	.39791	-1.13904
.900	-4.351	-.01853	-.34432	.33271	.14171	.01572	-.00929	.00054	-.31683	.33990	-.88260
.900	-2.358	-.00985	-.19780	.32390	.07667	.00833	-.00439	.00032	-.18441	.33176	-.55584
.899	-.237	.00124	-.06207	.32151	.01228	.00005	-.00078	-.00047	-.06091	.32173	-.16932
.900	1.974	.00659	.00668	.31825	-.04089	-.00273	-.00050	-.00058	-.05868	.32046	-.16311
.901	4.139	.00932	.16537	.31708	-.07725	-.00468	-.00017	-.00019	.16220	.32964	.49204
.900	6.308	.01011	.30594	.31379	-.11736	-.00557	-.00087	-.00066	.26961	.34551	.78033
.900	8.473	.00023	.44170	.30995	-.17240	.00171	-.00219	.00060	.39120	.37165	1.05262
.900	10.636	-.00214	.56703	.30920	-.22206	.00269	-.00200	.00129	.50022	.40855	1.22438
GRADIENT		.00336	.06114	-.00170	-.02558	-.00241	.00096	-.00011	.05532	-.00323	-.16265

RUN NO. 74/ 0 RMVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.130	-11.634	-.02814	-.94035	.49129	.35913	.01870	-.00882	.00034	-.62196	.67083	-1.22328
1.131	-9.379	-.03277	-.73397	.48738	.31346	.02079	-.00922	.00022	-.64347	.59968	-1.07634
1.130	-7.008	-.02265	-.54977	.48015	.24131	.01275	-.00448	.00009	-.48710	.54362	-.89832
1.130	-4.762	-.01810	-.38037	.47571	.17305	.00993	-.00331	-.00005	-.33956	.50565	-.67154
1.130	-2.311	-.01200	-.21772	.47463	.10708	.00627	-.00183	-.00066	-.19671	.48371	-.40667
1.130	-.269	-.00107	-.06508	.47251	.04256	-.00075	.00142	-.00129	-.06266	.47281	-.13295
1.130	1.937	.00471	.07445	.46519	-.02045	-.00289	.00123	-.00099	.05864	.46844	.12519
1.130	4.149	.00418	.21790	.46326	-.08461	-.00102	-.00077	-.00083	.18381	.47781	.39470
1.130	6.361	.00358	.35772	.45711	-.14461	-.00062	-.00097	-.00075	.30487	.49393	.61723
1.130	8.595	-.00339	.48169	.45154	-.19443	.00334	-.00239	-.00113	.40915	.51817	.78961
1.129	10.732	-.00943	.59740	.44339	-.22785	.00943	-.00679	.00115	.50420	.54706	.92169
GRADIENT		.00275	.06686	-.00150	-.02887	-.00140	.00037	-.00006	.05848	-.00320	-.11874



PARAMETRIC DATA

BETA = .000 TANK = 1.000  
SRB = 1.000

LARC 8-TPT-693 (IA43) CONFIGURATION 14/37

RUN NO. 62/ 0 RVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

HEIGHT = 2880.0000 80.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

NACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-13.321	-.00268	-.41456	.19145	.08624	.00528	-.00265	-.00205	-.37555	.26863	-1.42233
.600	-8.256	-.00337	-.33530	.19013	.07650	.00403	-.00073	-.00117	-.30472	.23634	-1.25932
.599	-6.176	-.00312	-.26324	.18736	.06976	.00301	.00004	-.00063	-.24354	.21481	-1.13376
.599	-4.137	-.00099	-.21207	.18457	.06344	-.00032	.00129	-.00003	-.19821	.19939	-.99406
.599	-3.109	-.00016	-.18011	.18369	.06707	-.00119	.00137	.00006	-.16969	.19319	-.87936
.599	-2.078	-.00225	-.14167	.18295	.06184	-.00107	.00132	-.00002	-.13495	.18796	-.71795
.600	-.050	.00124	-.07940	.18061	.05145	-.00190	.00070	.00002	-.07034	.18063	-.36639
.599	2.029	.00240	.00197	.17959	.04181	-.00329	.00016	-.00014	-.00440	.17995	-.02446
.599	4.093	.00032	.07005	.17912	.03337	-.00239	.00111	-.00007	.05706	.18367	.31079
.599	6.162	.00080	.13533	.17948	.02803	-.00214	.00137	.00015	.11529	.19297	.59743
.599	8.214	-.00127	.21243	.18038	.01669	.00766	.00060	.00064	.18441	.20936	.86073
.601	10.274	-.00082	.30197	.18068	-.00046	.00054	.00027	.00110	.26491	.23164	1.14361
GRADIENT		.00034	.03459	-.00068	-.00457	-.00029	-.00004	-.00001	.03135	-.00197	-.16163

RUN NO. 61/ 0 RVL = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-10.323	-.00544	-.47037	.20582	.10690	.00670	-.00311	-.00182	-.42487	.26826	-1.47382
.600	-8.403	-.00409	-.37797	.20527	.09365	.00563	-.00095	-.00121	-.34382	.23830	-1.33147
.601	-6.312	-.00400	-.29660	.20281	.08458	.00223	.00036	-.00051	-.27251	.23419	-1.16364
.601	-4.213	-.00321	-.22772	.19930	.07932	.00099	.00111	-.00011	-.21247	.21549	-.98396
.601	-2.127	-.00043	-.15121	.19465	.06362	-.00020	.00048	.00019	-.14388	.20013	-.71697
.600	-.034	.00074	-.07334	.19335	.05180	-.00024	-.00024	.00007	-.07323	.19339	-.37866
.601	2.068	.00143	.00860	.19460	.04214	-.00093	-.00010	-.00003	.00177	.19479	.00808
.600	4.156	.00227	.08994	.19221	.02435	-.00109	.00040	.00000	.07577	.19623	.38224
.600	6.236	.00081	.16272	.19347	.01370	-.00039	-.00014	.00029	.14067	.21025	.66969
.600	8.328	-.00147	.25454	.19323	-.00199	.00180	-.00084	.00063	.22348	.23013	.97110
.600	10.465	-.00151	.35573	.19396	-.02403	.00224	-.00125	.00096	.31458	.25336	1.23180
GRADIENT		.00061	.03799	-.00068	-.00630	-.00023	-.00017	-.00000	.03449	-.00190	-.16548

LARC 8-TPT-693 (IA43) CONFIGURATION 74/37

(RHCD19) ( 12 OCT 74 )

## REFERENCE DATA

SREF = 2690.0000 SQ. FT. XREF = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 SRB = 1.000

RUN NO. 77/ 0 RV1 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CT	CYN	CBL	CL	CD	L/D
.900	-10.586	-.01018	-.47734	.22983	.11332	.01042	-.00452	-.00152	-.42720	.31363	-1.36203
.900	-8.460	-.00619	-.35983	.22803	.09983	.00617	-.00261	-.00095	-.32003	.28593	-1.24413
.901	-6.352	-.00530	-.31124	.22488	.08907	.00515	-.00153	-.00041	-.28445	.25793	-1.10279
.900	-4.267	-.00337	-.23339	.22028	.06435	.00249	-.00055	-.00025	-.21834	.23719	-.92035
.900	-2.149	-.00204	-.15127	.21985	.05390	.00061	-.00058	-.00015	-.14292	.22337	-.63417
.900	-.034	.00131	-.05491	.21899	.04553	.00045	-.00121	.00031	-.06478	.21903	-.29574
.850	2.094	.00275	.02229	.21908	.03836	-.00039	-.00119	.00016	.01427	.21975	.06495
.900	4.216	.00114	.11074	.21913	.02816	.00049	-.00115	.00002	.09433	.22687	.41614
.901	6.315	-.00026	.20072	.21706	-.00315	.00161	-.00147	.00021	.17562	.23782	.79848
.901	8.434	-.00034	.21700	.21614	-.02202	.00166	-.00135	.00052	.23219	.25589	.98353
.900	10.544	-.00067	.38045	.21676	-.04057	.00259	-.00221	.00107	.33436	.28272	1.18267
GRADIENT		.00056	.04062	-.00014	-.02433	-.00024	-.00009	.00003	.03690	-.00126	-.15902

RUN NO. 78/ 0 RV1 = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CT	CYN	CBL	CL	CD	L/D
.900	-10.689	-.01075	-.49214	.26334	.09777	.01006	-.00451	-.00194	-.43476	.35003	-1.24202
.901	-8.529	-.00917	-.38442	.26058	.08189	.00749	-.00261	-.00132	-.34182	.31472	-1.08517
.900	-6.389	-.00681	-.29495	.25567	.07306	.00519	-.00158	-.00033	-.26467	.28690	-.92251
.900	-4.274	-.00425	-.21733	.25130	.06769	.00253	-.00028	-.00006	-.19800	.26680	-.74212
.900	-2.158	-.00258	-.13849	.24592	.04912	.00107	-.00077	.00009	-.12914	.25086	-.51477
.900	-.027	.00276	-.05447	.24508	.04081	-.00012	-.00134	.00008	-.05435	.24511	-.22176
.900	2.108	.00000	.03035	.24476	.03382	.00031	-.00190	.00009	.02133	.24571	.08681
.900	4.214	.00043	.11701	.24267	.01319	-.00114	-.00068	.00009	.09887	.25062	.39450
.979	6.351	.00209	.19637	.24363	.00133	-.00004	-.00108	.00032	.16822	.26386	.63753
.900	8.482	.00136	.29049	.24502	-.01159	.00039	-.00144	.00082	.25117	.28518	.88073
.900	10.653	.00222	.39816	.24622	-.02670	.00068	-.00168	.00125	.34578	.31558	1.09568
GRADIENT		.00089	.03943	-.00086	-.00585	-.00038	-.00009	.00001	.03303	-.00177	-.13334



DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPT-693 (IA43) CONFIGURATION TAJ/S7 (RMHC019) ( 12 OCT 74 )

PARAMETRIC DATA

REFERENCE DATA

SREF = 2680.0000 30. FT. XMRP = 976.0000 IN. XT BETA = .000 TANK = 1.000  
LREF = 1290.0000 INCHES YMRP = .0000 IN. YT SRB = 1.000  
BREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .00000

RUN NO. 79/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CV	CYN	CBL	CL	CD	L/D
1.130	-10.793	-.00916	-.49694	.30871	.09234	.00865	-.00424	-.00183	-.43040	.39623	-1.00624
1.130	-8.601	-.00826	-.38486	.30731	.07483	.00896	-.00453	-.00121	-.33458	.36141	-.92376
1.130	-6.437	-.00637	-.29259	.30317	.06780	.00647	-.00344	-.00055	-.25876	.33406	-.76859
1.130	-4.288	-.00320	-.20967	.29984	.06226	.00410	-.00259	-.00017	-.18667	.31468	-.59320
1.129	-2.173	-.00191	-.14151	.29621	.05373	.00144	-.00098	-.00000	-.13017	.30136	-.43196
1.130	-.031	.00323	-.05374	.29768	.04131	.00237	-.00393	-.00007	-.05558	.29771	-.18670
1.130	2.123	.00405	.03312	.29599	.03123	.00261	-.00458	-.00009	.02215	.29701	.07457
1.130	4.239	.00340	.10950	.29591	.01582	.00195	-.00359	.00020	.08733	.30320	.28804
1.130	6.362	.00189	.19295	.29785	.00660	.00374	-.00467	.00044	.15863	.31745	.49976
1.130	8.552	.00081	.29605	.29786	-.00818	.00289	-.00329	.00106	.24841	.33861	.73361
1.130	10.733	-.00090	.41536	.29672	-.02875	.00341	-.00299	.00169	.35284	.36888	.95851
GRADIENT		.00072	.03809	-.00038	-.00340	-.00015	-.00020	.00003	.03281	-.00128	.10631

RUN NO. 80/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CV	CYN	CBL	CL	CD	L/D
1.200	-10.814	-.01074	-.50271	.31442	.09475	.00783	-.00280	-.00186	-.43473	.40316	-1.07843
1.200	-8.611	-.00968	-.38906	.31146	.07401	.00667	-.00216	-.00108	-.33409	.36560	-.91380
1.201	-6.439	-.00756	-.28878	.30770	.06442	.00416	-.00065	-.00055	-.25245	.33815	-.74658
1.200	-4.293	-.00479	-.20469	.30397	.05907	.00246	-.00024	-.00004	-.18136	.31843	-.56833
1.200	-2.180	-.00264	-.13602	.30128	.05256	-.00090	-.00080	-.00001	-.12446	.30823	-.40643
1.200	-.027	.00252	-.05142	.30376	.03946	-.00081	-.00036	-.00005	-.05128	.30379	-.16879
1.200	2.133	.00350	.03418	.30113	.02940	-.00015	-.00147	-.00011	.02295	.30219	.07595
1.201	4.248	.00327	.11010	.30145	.01637	-.00107	-.00044	-.00002	.08746	.30878	.28326
1.200	6.407	.00231	.20016	.30329	.00619	.00010	-.00118	.00024	.16307	.32373	.50989
1.200	8.581	.00095	.30282	.30373	-.00917	.00115	-.00160	.00082	.25411	.34551	.73947
1.200	10.770	-.00224	.42590	.30177	-.03240	.00143	-.00038	.00167	.36162	.37597	.96183
GRADIENT		.00095	.03739	-.00024	-.00307	-.00031	-.00013	-.00000	.03202	-.00109	.10229

DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

T4

LARC 8-TFT-693 (IA43) CONFIGURATION

(IRH020) ( 12 OCT 74 )

PARAMETRIC DATA

BETA = .000 TANK = 1.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 69/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-10.111	-.00641	-.14273	.10286	.02328	.00979	-.00348	.00046	-.12245	-.12632	-.96937
.600	-8.072	-.00561	-.12384	.10224	.02734	.00628	-.00281	.00042	-.10825	-.11861	-.91269
.600	-6.073	-.00446	-.10721	.10134	.03140	.00677	-.00243	.00027	-.09588	-.11211	-.85328
.600	-4.033	-.00386	-.09045	.09803	.03603	.00681	-.00307	.00028	-.08328	-.10495	-.79354
.600	-2.024	-.00323	-.07275	.09543	.03861	.00606	-.00489	.00020	-.06933	-.09794	-.70791
.600	-.003	-.00355	-.05280	.09146	.04075	.00358	-.00414	.00005	-.05280	.09146	-.57727
.601	2.016	.00169	-.03613	.08816	.04432	.00236	-.00402	.00000	-.03921	.09683	-.45158
.601	4.046	.00124	-.01837	.08478	.04814	.00249	-.00371	.00007	-.02430	.06327	-.29185
.601	6.056	.00054	-.00145	.08197	.05031	.00294	-.00349	.00009	-.00722	.06166	-.08940
.600	8.077	-.00090	.01934	.07903	.05455	.00310	.00282	.00017	.00805	.06096	-.09937
.600	10.109	.00013	.03948	.07702	.05785	.00256	-.00270	.00023	.02335	.06276	-.30635
GRADIENT		.00065	-.00095	-.00175	.00148	-.00061	-.00002	-.00003	.00733	-.00270	.06238

RUN NO. 87/ 0 RVL = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-10.166	-.00935	-.15219	.10871	.02789	.01032	-.00385	.00048	-.13061	-.13386	-.97573
.600	-8.144	-.00765	-.13322	.10835	.03154	.00861	-.00359	.00038	-.11653	-.12613	-.92389
.600	-6.113	-.00661	-.11483	.10666	.03537	.00762	-.00331	.00025	-.10282	-.11828	-.86931
.601	-4.073	-.00529	-.09570	.10357	.03850	.00507	-.00319	.00010	-.08810	-.11010	-.80017
.600	-2.053	-.00402	-.07623	.09972	.04045	.00464	-.00400	.00013	-.07257	-.10239	-.70884
.601	-.020	-.00369	-.05289	.09652	.04339	.00315	-.00428	.00006	-.05286	-.09654	-.54732
.601	2.013	.00262	-.02911	.09365	.04002	.00258	-.00432	.00006	-.03228	.09237	-.34871
.600	4.033	.00144	-.00875	.08925	.04140	.00233	-.00329	.00005	-.01501	.08841	-.16977
.600	6.086	.00026	.01363	.08736	.04235	.00077	-.00213	.00003	.00449	.08634	.03078
.601	8.118	.00139	.03503	.08459	.04467	.00029	-.00121	.00008	.02274	.08869	.25636
.600	10.132	.00177	.05702	.08361	.04666	-.00086	-.00032	.00017	.04139	.09236	.44821
GRADIENT		.00061	.01090	-.00171	.00026	-.00037	-.00003	-.00001	.00920	-.00262	.07994





(RMCD00) ( 12 OCT 74 )

TABULATED SOURCE DATA - LARC 693 (1A43) LARC 8-TPT-693 (1A43) CONFIGURATION 74

DATE 04 APR 75

PARAMETRIC DATA

BETA = .000 TANK = 1.000

REFERENCE DATA

3827 = 2690.0000 36. FT. 3828 = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. VT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 86/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.901	-10.205	-.00915	-.15166	.12417	.02417	.00923	-.00394	.00053	-.12726	.14907	-.85366
.902	-8.167	-.00815	-.13114	.12239	.02740	.00787	-.00318	.00033	-.11242	.13978	-.80425
.903	-6.131	-.00663	-.11091	.12045	.02984	.00665	-.00285	.00028	-.09701	.13196	-.73737
.904	-4.094	-.00393	-.09215	.11765	.03260	.00533	-.00276	.00016	-.06153	.12378	-.65861
.905	-2.048	-.00114	-.06893	.11359	.03443	.00406	-.00343	.00009	-.06463	.11598	-.55698
.906	-.018	.00147	-.04450	.11022	.03474	.00260	-.00347	.00006	-.04447	.11023	-.40340
.907	2.019	.00343	-.02139	.10766	.03491	.00117	-.00315	.00001	-.02917	.10684	-.23563
.908	4.056	.00235	-.00108	.10221	.03572	.00150	-.00286	.00001	-.00615	.10203	-.06027
.899	6.093	.00170	.02490	.09997	.03624	.00145	-.00244	-.00001	-.01414	.10205	.13660
.900	8.133	.00177	.04632	.09760	.03876	.00065	-.00168	.00007	.03204	.10317	.31099
.900	10.184	.00225	.07153	.09730	.03975	.00019	-.00150	.00006	.05319	.10842	.49064
GRADIENT		.00284	.01129	-.00181	.00031	-.00049	-.00000	-.00002	.00935	-.00258	.07463

RUN NO. 85/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-10.243	-.00920	-.15172	.15789	.01033	.00693	-.00202	.00049	-.12122	.16235	-.66474
.900	-8.184	-.00815	-.12673	.15476	.01512	.00636	-.00202	.00039	-.10343	.17123	-.60408
.979	-6.139	-.00609	-.10590	.15263	.01993	.00555	-.00233	.00031	-.08857	.16304	-.54324
.980	-4.095	-.00343	-.08298	.14973	.02355	.00388	-.00209	.00020	-.07208	.15528	-.46422
.979	-2.072	.00090	-.06184	.14557	.02713	.00190	-.00199	.00014	-.05653	.14771	-.36273
.980	-.026	.00320	-.03867	.14175	.02969	.00051	-.00221	.00003	-.03980	.14176	-.27369
.980	2.026	.00378	-.01538	.13730	.03194	.00026	-.00227	.00004	-.02022	.13667	-.14793
.980	4.069	.00292	.00693	.13133	.03498	.00089	-.00245	.00002	-.00239	.13149	-.01817
.980	6.117	.00213	.03174	.12912	.03761	.00104	-.00218	.00007	.01780	.13177	.13908
.980	8.173	.00160	.05339	.12786	.04098	.00100	-.00186	.00014	.03665	.13444	.27264
.980	10.214	.00123	.07726	.12675	.04821	.00147	-.00214	.00022	.03320	.14041	.37690
GRADIENT		.00076	.01108	-.00221	.00133	-.00033	-.00005	-.00002	.00860	-.00287	.05516

ORIGINAL PAGE IS OF POOR QUALITY

(RMCD20) ( 12 OCT 74 )

TABULATED SOURCE DATA - LARC 693 (IA43) CONFIGURATION T4

DATE 04 APR 75

PARAMETRIC DATA

BETA = .000 TANK = 1.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. WARP = 976.0000 IN. XT  
LREF = 1890.3000 INCHES VARP = .0020 IN. YT  
BREF = 1290.3000 INCHES ZARP = 400.0000 IN. ZT  
SCALE = .0100

GRADIENT INTERVAL = -3.00/ 3.00

RUN NO.	84/ 0	RVL = 4.21	GRADIENT INTERVAL = -3.00/ 3.00	CY	CYN	CBL	CL	CD	L/O
1.133	ALPHA	-10.280							
1.133	BETA	-0.0349							
1.133	CA	-1.9026							
1.133	CLM	.00744							
1.133	CN	-1.5344							
1.133	CM	-12.582							
1.133	CP	-0.0654							
1.129	CP	-0.0383							
1.133	CP	-0.0331							
1.133	CP	-0.0388							
1.133	CP	-0.0378							
1.133	CP	4.093							
1.133	CP	6.134							
1.129	CP	6.189							
1.133	CP	10.249							
1.133	GRADIENT								

GRADIENT INTERVAL = -3.00/ 3.00

RUN NO.	83/ 0	RVL = 4.22	GRADIENT INTERVAL = -3.00/ 3.00	CY	CYN	CBL	CL	CD	L/O
1.200	ALPHA	-10.287							
1.200	BETA	-0.0327							
1.200	CA	-1.9478							
1.200	CLM	.00830							
1.200	CN	-1.5465							
1.200	CM	-12.587							
1.200	CP	-0.0676							
1.200	CP	-0.0425							
1.200	CP	-0.0129							
1.200	CP	-0.0348							
1.200	CP	-0.0453							
1.200	CP	-0.0368							
1.200	CP	6.154							
1.200	CP	6.211							
1.200	CP	10.252							
1.200	GRADIENT								



DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPT-693 (IA43) CONFIGURATION T4

(RMCD21) ( 12 OCT 74 )

REFERENCE DATA

MACH = 2880.0000 88.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 90/ 0 RVL = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-2.028	-.0025	-.07265	.09490	.03810	.00452	-.00437	.00015	-.06925	.09741	-.71088
.600	-1.029	.00048	-.06364	.09322	.03922	.00346	-.00381	.00012	-.06196	.09434	-.63679
.600	-.010	.00265	-.05367	.09089	.04018	.00124	-.00307	.00008	-.05366	.09090	-.59000
.600	1.013	.00194	-.04374	.08900	.04166	.00197	-.00331	.00013	-.04531	.08821	-.51363
.600	2.028	.00374	-.03451	.08782	.04292	.00219	-.00278	.00013	-.03760	.08655	-.43442
GRADIENT	.00093	.00947	-.00181	.00119	-.00100	.00036	-.00000	.00788	-.00274	-.06658	

(RMCD22) ( 12 OCT 74 )

REFERENCE DATA

MACH = 2880.0 88.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 91/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-2.061	-.00087	-.07717	.10009	.04139	.00442	-.00402	.00015	-.07392	.10280	-.71380
.799	-1.029	.00016	-.06619	.09849	.04180	.00397	-.00407	.00015	-.06441	.09966	-.64633
.799	-.008	.00199	-.05409	.09660	.04116	.00302	-.00401	.00014	-.05407	.09661	-.53975
.800	1.013	.00375	-.04257	.09521	.04088	.00254	-.00436	.00009	-.04425	.09444	-.46850
.800	2.035	.00363	-.03097	.09373	.04116	.00212	-.00401	.00012	-.03428	.09257	-.37000
GRADIENT	.00127	.01134	-.00156	-.00013	-.00039	-.00003	-.00001	.00964	-.00251	-.06477	

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PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BETA = .000 TANK = 1.000  
 RVL = 4.750

RUN NO. 92/ 0 RVL = 4.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.061	.00082	-.07162	.11380	.03634	.00278	-.00309	.00017	-.06748	-.11631	-.50021
.900	-1.039	.00128	-.06075	.11238	.03682	.00220	-.00282	.00015	-.35870	-.11347	-.51735
.901	-.014	.00171	-.04675	.11102	.03586	.00237	-.00321	.00015	-.04672	-.11103	-.42078
.900	1.007	.00330	-.03553	.10969	.03555	.00161	-.00320	.00014	-.03745	.10905	-.34343
.900	2.040	.00446	-.02358	.10802	.03596	.00172	-.00286	.00015	-.02741	-.10711	-.25588
GRADIENT		.00095	.01184	-.00139	-.00020	-.00046	.00001	-.00000	.00989	-.00223	.08027

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BET = .000 TANK = 1.000  
 RVL = 2.100

RUN NO. 93/ 0 RVL = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.199	-2.020	-.00030	-.05632	.17859	.02313	.00167	-.00138	.00035	-.04999	.18047	-.27700
1.200	-.999	.00047	-.04502	.17820	.02325	.00166	-.00215	.00028	-.04190	.17895	-.23416
1.200	-.007	.00059	-.03377	.17753	.02695	.00202	-.00154	.00023	-.03375	.17753	-.19009
1.199	1.024	.00115	-.02255	.17696	.02867	.00170	-.00170	.00029	-.02571	.17653	-.14562
1.179	2.027	.00096	-.10804	.17530	.02833	.00146	-.00146	.00018	-.01423	.17490	-.08138
GRADIENT		.00032	.01176	-.00077	.00137	-.00004	-.00000	-.00003	.00867	-.00134	.1742



LARC 8-TFT-693 (IA43) CONFIGURATION T4 (RMCD26) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2650.0000 90.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 94/ 0 RIVL = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.980	-2.028	-.00020	-.06160	.14230	.02671	.00265	-.00243	.00025	-.05632	.14439	-.39144
.981	-.938	.00026	-.05024	.14096	.02608	.00193	-.00225	.00013	-.04778	.14181	-.39689
.981	.001	.00076	-.03888	.13867	.02915	.00196	-.00246	.00019	-.03889	.13867	-.28042
.982	1.012	.00149	-.02495	.13539	.02933	.00091	-.00257	.00006	-.02734	.13493	-.20265
.982	2.021	.00144	-.01377	.13341	.02977	.00050	-.00220	.00007	-.01846	.13285	-.13899
	GRADIENT	.00045	.01196	-.00231	.00073	-.00054	.00001	-.00004	.00953	-.00296	.06382

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RIVL = 2.050

LARC 8-TFT-693 (IA43) CONFIGURATION T4 (RMCD26) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2650.0000 90.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

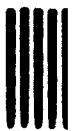
RUN NO. 95/ 0 RIVL = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.902	-2.029	-.00097	-.06621	.11223	.03234	.00455	-.00346	.00020	-.06220	.11490	-.54387
.902	-1.037	-.00040	-.05888	.11062	.03431	.00375	-.00327	.00020	-.05482	.11160	-.48213
.901	.001	.00071	-.04493	.10832	.03369	.00210	-.00301	.00020	-.04493	.10832	-.41403
.902	1.008	.00086	-.03422	.10729	.03447	.00173	-.00284	.00007	-.03610	.10667	-.33844
.902	2.028	.00140	-.02076	.10512	.03373	.00093	-.00272	.00007	-.02447	.10432	-.23454
	GRADIENT	.00057	.01122	-.00173	.00029	-.00091	.00019	-.00004	.00951	-.00290	.07619

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RIVL = 1.980

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LARC 8-TPT-693 (IA43) CONFIGURATION T4

(RMCD27) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2680.0000 30.FT. ZMRP = 976.0000 IN. XT  
 LREF = 1250.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1250.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 RV/L = 1.680

RUN NO. 96/ 0 RV/L = 1.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.799	-2.013	-.00116	-.07220	.09816	.03793	.00682	-.00497	-.00006	-.06871	.10064	-.68272
.798	-1.006	-.00047	-.06183	.09705	.03659	.00567	-.00501	-.00021	-.06011	.09812	-.61265
.798	.000	.00030	-.05305	.09487	.03589	.00381	-.00427	-.00014	-.05305	.09487	-.59313
.799	1.018	.00230	-.03937	.09319	.03657	.00431	-.00477	-.00006	-.04102	.09247	-.44363
.798	2.025	.00046	-.03049	.09132	.04004	.00387	-.00457	-.00022	-.03369	.09019	-.37361
GRADIENT	.00040	.00040	-.01048	-.00174	.00043	-.00068	.00010	.00002	.00063	-.00263	-.07796

LARC 8-TPT-693 (IA43) CONFIGURATION T4

(RMCD28) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2680.0000 30.FT. ZMRP = 976.0000 IN. XT  
 LREF = 1250.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1250.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 RV/L = 1.570

RUN NO. 97/ 0 RV/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.801	-1.996	-.00090	-.07020	.09263	.03977	.00512	-.00320	-.00010	-.07293	.09323	-.76383
.800	-1.012	-.00015	-.06595	.09139	.04035	.00369	-.00336	-.00003	-.06433	.09254	-.69315
.801	.004	.00015	-.05316	.08973	.03981	.00300	-.00334	-.00003	-.05317	.08973	-.59252
.800	1.017	.00045	-.04993	.08736	.04432	.00231	-.00331	-.00010	-.05147	.08648	-.59322
.802	2.012	.00030	-.03710	.08719	.04440	.00235	-.00345	-.00013	-.04013	.08583	-.46739
GRADIENT	.00034	.00034	-.02938	-.00148	.00134	-.00069	-.00004	-.00003	.00781	-.00248	-.06829



DATE 04 APR 75 T/ RELATED SOURCE DATA - LARC 693 (IA43) LARC 8-TPT-693 (IA43) CONFIGURATION 08/14/87

(RHC029) ( 12 OCT 74 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BCFAP = .000
RVL = 4.400

RUN NO. 98/ 0 RVL = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

Table with columns: WACH, ALPHA, BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D. Values range from -2.325 to .000.

(RHC030) ( 12 OCT 74 )

LARC 8-TPT-693 (IA43) CONFIGURATION 08/14/87

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BCFAP = .000
RVL = 5.150

RUN NO. 99/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

Table with columns: WACH, ALPHA, BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D. Values range from -2.447 to .000.

REFERENCE DATA

WACH = 2690.0000 90.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

REFERENCE DATA

WACH = 2690.0000 90.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

LARC 8-TPT-693 (IA43) CONFIGURATION 08/74/57

(RHC031) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 100/ 0 RIVL = 4.78 GRADIENT INTERVAL = -5.00/ 3.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.450	-.01369	-.19421	.32303	.07461	.01563	-.00935	.00085	-.16414	.33320	-.55264
.920	-1.369	-.01434	-.13293	.32241	.04195	.01285	-.00866	.00090	-.12519	.32549	-.38460
.901	-.253	-.01098	-.06081	.32160	.00987	.01153	-.00866	.00092	-.05939	.32207	-.16439
.901	.939	-.01099	.00545	.31969	-.01794	.01261	-.01001	.00119	.00077	.31973	.00241
.903	1.951	-.00353	.06967	.31718	-.04278	.00853	-.01873	.00079	.05883	.31937	.16482
	GRADIENT	.00329	.06123	-.02167	-.02676	-.00129	-.00001	.00002	.05558	-.00303	.16901

PARAMETRIC DATA

BETA = .008 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000  
 RIVL = 4.780

LARC 8-TPT-693 (IA43) CONFIGURATION 08/74/57

(RHC032) ( 12 OCT 74 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 101/ 0 RIVL = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.200	-2.220	-.00762	-.18482	.48159	.06669	.00939	-.00346	.00016	-.16582	.48839	-.33953
1.200	-1.160	-.00631	-.11365	.47748	.05618	.00849	-.00372	.00026	-.10396	.47969	-.21673
1.199	-.111	-.00469	-.04371	.47418	.02637	.00723	-.00389	.00036	-.04280	.47427	-.09024
1.199	.940	-.00276	.02742	.47271	-.00331	.00533	-.00355	.00035	.01966	.47309	.04156
1.199	1.969	-.00295	.06533	.46829	-.00000	.00335	-.00306	.00036	.06919	.47093	.14682
	GRADIENT	.00161	.06500	-.00299	-.02797	-.00146	-.00009	.00005	.03667	-.00398	.11732

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000  
 RIVL = 2.100





(RMCO33) ( 12 OCT 74 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/87

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFDRK = .000 BDFLAP = .000  
 RVL = 2.050

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 102/ 0 RVL = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CVL	CL	CD	L/D
.901	-2.192	-.00819	-.20816	.41355	.10119	.00861	-.00311	-.00073	-.19219	.42121	-.49629
.901	-1.137	-.00433	-.13423	.41333	.06987	.00641	-.00264	-.00078	-.12600	.41591	-.30295
.901	-.097	-.00338	-.05570	.41423	.03844	.00574	-.00295	-.00283	-.06500	.41434	-.15688
.901	.942	-.00207	.0015	.41283	.00809	.00538	-.00406	-.00056	-.00663	.41278	-.01607
.901	1.972	-.00166	.06728	.41297	-.02262	.00588	-.00490	-.00040	-.05303	.41504	-.12776
	GRADIENT	.00105	.06585	-.00316	-.02363	-.00048	-.00009	-.00009	.05960	-.00149	.13981

(RMCO34) ( 12 OCT 74 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/87

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFDRK = .000 BDFLAP = .000  
 RVL = 1.980

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 103/ 0 RVL = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CVL	CL	CD	L/D
.901	-2.155	-.00710	-.19076	.32413	.07583	.01434	-.00824	.00024	-.17843	.33107	-.53606
.902	-1.132	-.00649	-.12566	.32279	.04173	.01437	-.00907	.00057	-.11927	.32521	-.36676
.901	-.096	-.00507	-.06010	.32078	.01258	.01201	-.00802	.00053	-.05956	.32088	-.18562
.903	.952	-.00217	.00862	.32035	-.01812	.00825	-.00718	.00036	.00329	.32045	.01027
.901	1.984	-.00222	.05877	.31934	-.03518	.00924	-.00831	-.00010	.04768	.32119	.14845
	GRADIENT	.00136	.06112	-.00116	-.02720	-.00156	.00017	-.00009	.05547	-.00236	.16907

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TABULATED SOURCE DATA - LARC 693 (IA43) (RMCO35) ( 18 OCT 74 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/87

REFERENCE DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BOFLAP = .000  
 RVNL = 1.880

RUN NO. 104/ 0 RVNL = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.801	-2.130	-.01306	-.22575	.29637	.10691	.01085	-.00372	-.00005	-.21453	.30459	-.70434
.803	-1.120	-.00282	-.16917	.29337	.08165	.00564	-.00390	-.00046	-.16340	.29662	-.55087
.805	-.030	-.00322	-.10923	.29138	.05580	.00819	-.00519	.00022	-.10877	.29155	-.57306
.807	.938	-.00113	-.05204	.28851	.03146	.00488	-.00423	-.00004	-.05676	.28762	-.19733
.809	1.979	-.00084	.00366	.28707	.00589	.00542	-.00532	.00009	-.00026	.28723	-.00061
.811	GRADIENT	.00038	.05713	-.00228	-.02451	-.00122	.00004	.00017	.03200	-.00424	.17107

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/87

REFERENCE DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BOFLAP = .000  
 RVNL = 1.570

RUN NO. 105/ 0 RVNL = 1.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.801	-2.092	-.00342	-.24774	.28747	.12732	.01023	-.00494	-.00005	-.23708	.29632	-.80008
.803	-1.085	-.00271	-.19634	.28364	.10516	.00813	-.00399	-.00031	-.19093	.28731	-.66454
.805	-.067	-.00157	-.14388	.28205	.08317	.00469	-.00230	.00045	-.14355	.28221	-.50866
.807	.954	-.00099	-.08275	.27712	.05727	.00266	-.00193	-.00026	-.08736	.27570	-.31695
.809	1.971	-.00043	-.03111	.27356	.03447	.00276	-.00241	-.00013	-.04051	.27233	-.14874
.811	GRADIENT	.00080	.05383	-.00338	-.02298	-.00201	.00070	.00001	.04887	-.00586	.16238



REFERENCE DATA  
 MACH = 2500.0000 SQ. FT. XMRP = 976.0000 IN. XT BETA = .000 ELV-LO = .000  
 LGRT = 1200.3000 INCHES YMRP = .0000 IN. YT ELV-LI = .000 ELV-RI = .000  
 BRFT = 1200.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .000 RUDDER = .000  
 SCALE = .0100 SPDRBK = .000 BOXFLAP = .000

PARAMETRIC DATA

RUN NO. 6/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABD	CABT	CABSRB	CLMBO	CLMBF
.600	-10.535	-.75486	.32436	.03137	.00736	.01060	.03652	.09375	.06859	.00232	-.01092
.600	-8.532	-.61822	.26901	.02976	.00713	.01060	.03535	.09165	.06409	.00224	-.01092
.600	-6.531	-.48375	.21539	.02453	.00697	.01060	.03454	.08834	.06104	.00218	-.01092
.600	-4.537	-.35176	.16653	.02070	.00674	.01060	.03338	.08470	.05920	.00211	-.01092
.600	-2.523	-.22543	.12597	.01719	.00652	.01060	.03214	.08220	.05691	.00203	-.01092
.600	-1.513	-.14582	.09361	.01410	.00630	.01060	.03085	.07794	.05465	.00197	-.01092
.600	1.501	-.02343	.03541	.00868	.00589	.01060	.02885	.07728	.05238	.00176	-.01092
.600	4.042	.08724	-.00374	.03352	.00558	.01060	.02767	.07766	.05039	.00171	-.01092
.600	6.133	.20600	-.05917	.03473	.00562	.01060	.02768	.07730	.04929	.00173	-.01092
.600	8.223	.32541	-.10808	.03461	.00561	.01060	.02780	.07755	.04859	.00176	-.01092
.600	10.323	.45371	-.15926	.03189	.00551	.01060	.02780	.07755	.04859	.00176	-.01092
GRADIENT		.05383	-.02118	-.00064	-.00013	.00000	-.00067	-.00091	-.00022	-.00005	-.00000

RUN NO. 5/ 0 RVL = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABD	CABT	CABSRB	CLMBO	CLMBF
.600	-10.980	-.80636	.33362	.11066	.00818	.01219	.04056	.09423	.06717	.00257	-.01256
.600	-8.800	-.65534	.27027	.11481	.00789	.01219	.03908	.09283	.06408	.00247	-.01256
.600	-6.635	-.50311	.21059	.11959	.00754	.01219	.03751	.08842	.06091	.00235	-.01256
.600	-4.464	-.35678	.15840	.12290	.00724	.01219	.03575	.08303	.05793	.00224	-.01256
.600	-2.331	-.24034	.10988	.12334	.00694	.01219	.03422	.07973	.05691	.00214	-.01256
.600	-1.191	-.11593	.05789	.12181	.00665	.01219	.03278	.07695	.05629	.00204	-.01256
.600	1.058	.00803	.00609	.11848	.00652	.01219	.03166	.07578	.05507	.00200	-.01256
.600	4.050	.13858	-.04531	.11337	.00642	.01219	.03166	.07496	.05690	.00198	-.01256
.600	6.245	.27202	-.10336	.10760	.00632	.01219	.03122	.07416	.05956	.00195	-.01256
.600	8.399	.39593	-.15051	.10456	.00636	.01219	.03138	.07575	.06107	.00196	-.01256
.600	10.546	.51788	-.19115	.09952	.00644	.01219	.03172	.07841	.06452	.00197	-.01256
GRADIENT		.05961	-.02387	-.00103	-.00010	.00000	-.00048	-.00094	-.00018	-.00003	-.00000

ORIGINAL PAGE IS  
 OF POOR QUALITY

LARC 8-TFT-693 (IA43) CONFIGURATION 05/TA/ST

(ANJ001) ( 05 FEB 75

REFERENCE DATA

SREF = 2690.0000 SQ. FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPCBRK = .000 BOFLAP = .000

RUN NO. 4/ D RVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CNO	CBF	CBO	CABET	CASRB	CLMBO	CLMBF
.900	-11.178	-0.4999	.35378	.13335	.00964	.01351	.04800	.10073	.06910	.00308	-.01393
.900	-8.952	-0.6691	.27505	.13805	.00922	.01351	.04586	.09560	.06693	.00294	-.01393
.900	-6.726	-0.80493	.20342	.14319	.00886	.01351	.04407	.08943	.06270	.00282	-.01393
.901	-4.551	-0.94827	.13658	.14583	.00856	.01351	.04246	.08505	.05918	.00270	-.01393
.901	-2.364	-1.09415	.06644	.14570	.00821	.01351	.04059	.08081	.05611	.00257	-.01393
.901	-1.189	-1.2418	.00196	.14245	.00810	.01351	.04022	.07814	.05409	.00256	-.01393
.900	1.968	-0.7257	-.05114	.14104	.00793	.01351	.03930	.07747	.05242	.00242	-.01393
.900	4.132	-0.8894	-.08894	.13692	.00779	.01351	.03834	.07900	.05099	.00242	-.01393
.900	6.297	-0.30276	-.12312	.13266	.00751	.01351	.03717	.07741	.04944	.00234	-.01393
.900	8.473	.43507	-.17619	.12636	.00739	.01351	.03770	.07775	.04800	.00240	-.01393
.901	10.644	.85138	-.22485	.12348	.00777	.01351	.03852	.07983	.04700	.00244	-.01393
GRADIENT		.06186	-.02621	-.00104	-.00008	-.00000	-.00043	-.00071	.00013	-.00003	.00000

RUN NO. 3/ D RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CNO	CBF	CBO	CABET	CASRB	CLMBO	CLMBF
.980	-11.398	-0.91100	.37278	.17775	.01241	.01484	.06228	.11236	.06355	.00410	-.01529
.981	-9.111	-0.69555	.27778	.18592	.01187	.01484	.05964	.10596	.07954	.00393	-.01529
.981	-6.853	-0.51458	.20351	.19159	.01137	.01484	.05695	.10137	.07653	.00372	-.01529
.981	-4.634	-0.35375	.13920	.19454	.01091	.01484	.05447	.09833	.07508	.00352	-.01529
.981	-2.425	-0.20844	.08328	.19374	.01047	.01484	.05185	.09717	.07387	.00328	-.01529
.980	-0.259	-0.05268	.02512	.19078	.01043	.01484	.05139	.09744	.07309	.00319	-.01529
.985	1.965	-0.06878	-.03453	.18786	.01036	.01484	.05194	.09361	.07491	.00321	-.01529
.980	4.132	-0.19946	-.08966	.18420	.01070	.01484	.05257	.09590	.08035	.00324	-.01529
.980	6.336	.33327	-.14273	.17654	.01078	.01484	.05309	.09294	.08496	.00329	-.01529
.980	8.513	.46562	-.19322	.16943	.01095	.01484	.05390	.09248	.08799	.00334	-.01529
.979	10.697	.59512	-.23653	.16326	.01105	.01484	.05445	.09793	.09130	.00336	-.01529
GRADIENT		.06312	-.02625	-.00121	-.00002	.00000	-.00017	-.00038	.00055	-.00003	.00000



(AMC001) ( 03 FEB 75 )

TABULATED SOURCE DATA - LARC 893 (IA43)

LARC 8-TFT-893 (IA43) CONFIGURATION 08/14/97

DATE 04 APR 75

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES VMRP = .0000 IN. YT  
 BRP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 2/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIF	CLMF	CAF	CBO	CBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.120	-11.614	-.93465	.38259	.24146	.01176	.01654	.05991	.10323	.08667	.00383	-.01704
1.125	-9.300	-.72569	.29117	.24967	.01125	.01654	.05616	.09794	.08492	.00363	-.01704
1.130	-7.114	-.54636	.22351	.25130	.01068	.01654	.05323	.09313	.08155	.00345	-.01704
1.135	-4.735	-.37796	.15934	.25031	.01034	.01654	.05150	.09132	.08007	.00331	-.01704
1.140	-2.488	-.21973	.09522	.25131	.01032	.01654	.04984	.09095	.07796	.00319	-.01704
1.145	-.268	-.07138	.03518	.25081	.00957	.01654	.04780	.09212	.07627	.00300	-.01704
1.150	1.934	.06230	-.02180	.25003	.00955	.01654	.04754	.08688	.07621	.00296	-.01704
1.155	4.135	.23373	-.08319	.24770	.00969	.01654	.04774	.08479	.07846	.00297	-.01704
1.160	6.322	.34743	-.14573	.24336	.00972	.01654	.04789	.07978	.08056	.00288	-.01704
1.165	8.555	.47451	-.19959	.23883	.00993	.01654	.04901	.07815	.08351	.00307	-.01704
1.170	10.753	.59233	-.22739	.22839	.00983	.01654	.04856	.08122	.08502	.00304	-.01704
GRADIENT		.06511	-.02714	-.00032	-.00008	-.00000	-.00044	-.00077	-.00023	-.00004	.00000

RUN NO. 1/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIF	CLMF	CAF	CBO	CBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.201	-11.679	-.95176	.39236	.26018	.01166	.01548	.05802	.09954	.08454	.00372	-.01595
1.205	-9.345	-.73553	.29973	.25554	.01100	.01548	.05479	.09468	.08323	.00352	-.01595
1.210	-7.032	-.54732	.22424	.26723	.01051	.01548	.05232	.09042	.08100	.00336	-.01595
1.215	-4.756	-.36895	.15195	.26586	.01020	.01548	.05080	.08741	.07933	.00326	-.01595
1.220	-2.501	-.20591	.08422	.26829	.00993	.01548	.04928	.08526	.07708	.00316	-.01595
1.225	-.237	-.05389	.02422	.26818	.00961	.01548	.04766	.08531	.07445	.00303	-.01595
1.230	1.949	.07318	-.02914	.26581	.00952	.01548	.04707	.08210	.07342	.00296	-.01595
1.235	4.147	.20740	-.08541	.26573	.00942	.01548	.04652	.07962	.07557	.00291	-.01595
1.240	6.366	.34591	-.14476	.26114	.00932	.01548	.04601	.07633	.07777	.00287	-.01595
1.245	8.582	.47859	-.20246	.25776	.00946	.01548	.04657	.07412	.08056	.00291	-.01595
1.250	10.796	.60618	-.24413	.25045	.00955	.01548	.04716	.07407	.08202	.00295	-.01595
GRADIENT		.06439	-.02652	-.00017	-.00009	-.00000	-.00048	-.00084	-.00050	-.00004	.00000

ORIGINAL PAGE IS  
OF POOR QUALITY

(ARHC002) ( 05 FEB 75 )

LARC 8-78T-693 (1443) CONFIGURATION 02/14/58

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.0000 INCHES VMRP = .0000 IN. YT  
 BREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0133

RUN NO. 10/ 0 RWL = 3.16 GRADIENT INTERVAL = -5.00/ 5.00  
 BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

PARAMETRIC DATA

MACH	ALPHA	CLF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.600	-10.633	-.76904	.33113	-.08601	.00709	.01060	-.03792	.09831	.05756	.00293	-.01092
.599	-8.513	-.62739	.27302	.09225	.00687	.01060	-.03668	.09499	.05450	.00284	-.01092
.598	-6.423	-.49367	.21927	.09791	.00660	.01060	-.03525	.09136	.05164	.00273	-.01092
.599	-4.331	-.37008	.17442	.10065	.00638	.01060	-.03403	.08826	.05003	.00264	-.01092
.599	-2.250	-.27175	.13475	.10383	.00609	.01060	-.03251	.08640	.04828	.00252	-.01092
.599	-.165	-.16398	.09433	.10426	.00584	.01060	-.03115	.08357	.04690	.00241	-.01092
.600	1.934	-.04840	.04792	.10107	.00566	.01060	-.03018	.08113	.04542	.00233	-.01092
.599	4.027	.07133	.00162	.09467	.00556	.01060	-.02971	.08109	.04600	.00230	-.01092
.599	6.136	.18757	-.04537	.08755	.00543	.01060	-.02903	.08019	.04702	.00227	-.01092
.599	8.198	.33679	-.09381	.07690	.00540	.01060	-.02901	.08014	.04806	.00228	-.01
.598	10.297	.43485	-.14483	.06448	.00533	.01060	-.02870	.08028	.04976	.00227	-.01092
GRADIENT	.05350	-.02069	-.02071	-.02010	.00000	.00000	-.02033	-.02094	-.02052	-.02004	-.00000

RUN NO. 9/ 0 RWL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.699	-11.224	-.86285	.36128	.13020	.00922	.01351	.05013	.10195	.05636	.00403	-.01393
.923	-8.959	-.67928	.28087	.13808	.00871	.01351	.04722	.09540	.05409	.00379	-.01393
.899	-6.775	-.51692	.21013	.14383	.00831	.01351	.04510	.08995	.05117	.00363	-.01393
.901	-4.568	-.36137	.14529	.14312	.00790	.01351	.04264	.0831	.04836	.00339	-.01393
.899	-2.396	-.21779	.08333	.13919	.00756	.01351	.04070	.08277	.04726	.00321	-.01393
.899	-.231	-.08030	.01891	.13737	.00736	.01351	.03977	.07959	.04629	.00317	-.01393
.900	1.943	.05490	-.03604	.13735	.00732	.01351	.03944	.07888	.04493	.00312	-.01393
.898	4.100	.16333	-.06756	.13208	.00725	.01351	.03903	.08121	.04807	.00308	-.01393
.900	6.275	.28895	-.11026	.12794	.00702	.01351	.03790	.07873	.05125	.00301	-.01393
.900	8.456	.42104	-.16333	.12206	.00693	.01351	.03746	.07841	.05523	.00298	-.01393
.900	10.610	.54483	-.21004	.12016	.00709	.01351	.03821	.07980	.05535	.00302	-.01393
GRADIENT	.06099	-.02515	-.02110	-.02007	-.02000	-.02000	-.02039	-.02061	-.02013	-.02003	.00000



LARC 8-TFT-693 (1A43) CONFIGURATION 02/14/78

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT BETA = .000 ELV-LO = .000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-L1 = .000 ELV-R1 = .000  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .000 RUDDER = .000  
 SCALE = .0100 SPDRBK = .000 EOPFLAP = .000

PARAMETRIC DATA

RUN NO. 8/0 RWL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMF	CAF	CMB0	CMBF	CAB0	CABF	CABSRB	CLMBO	CLMBF
1.129	-11.649	.40353	.23834	.01148	.01654	.06185	.10832	.07388	.00490	-.01704
1.133	-9.340	.32017	.24525	.01087	.01654	.05357	.10291	.07077	.00464	-.01704
1.129	-7.047	.24676	.24815	.01032	.01654	.05585	.09783	.06807	.00441	-.01704
1.130	-4.772	.17779	.24675	.01032	.01654	.05402	.09544	.06813	.00428	-.01704
1.133	-2.537	.11540	.24555	.00964	.01654	.05171	.09624	.06672	.00405	-.01704
1.129	-2.34	.05729	.24591	.00937	.01654	.04963	.09654	.06588	.00381	-.01704
1.130	1.314	.00570	.24470	.00943	.01654	.05007	.09241	.06541	.00362	-.01704
1.133	4.119	-.05563	.24183	.00930	.01654	.05037	.09321	.06586	.00384	-.01704
1.133	6.333	-.12658	.23723	.00954	.01654	.05061	.08530	.06593	.00386	-.01704
1.133	8.543	-.45526	.23145	.00980	.01654	.05203	.08378	.06962	.00398	-.01704
1.133	10.736	-.56842	.22022	.00949	.01654	.05033	.08888	.07138	.00384	-.01704
GRADIENT	.06544	-.02739	-.00006	-.00000	.00000	-.00040	-.00064	-.00026	-.00005	.00000

RUN NO. 7/0 RWL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMF	CAF	CMB0	CMBF	CAB0	CABF	CABSRB	CLMBO	CLMBF
1.200	-11.693	.41009	.25653	.01197	.01548	.06412	.10286	.07115	.00501	-.01595
1.201	-9.333	.31679	.26158	.01123	.01548	.06009	.09917	.07008	.00467	-.01595
1.200	-7.046	.23902	.26396	.01074	.01548	.05746	.09456	.06776	.00447	-.01595
1.200	-4.762	.16333	.26371	.01027	.01548	.05503	.09124	.06652	.00429	-.01595
1.200	-2.498	.09607	.26506	.00985	.01548	.05269	.08917	.06451	.00410	-.01595
1.200	1.942	.03579	.26388	.00941	.01548	.05018	.08929	.06305	.00387	-.01595
1.200	4.131	.00227	.26118	.00927	.01548	.04933	.08672	.06231	.00379	-.01595
1.200	6.377	-.07373	.25913	.00927	.01548	.04929	.08431	.06328	.00376	-.01595
1.200	8.590	-.13085	.25485	.00916	.01548	.04880	.08093	.06491	.00380	-.01595
1.200	10.811	-.46730	.24989	.00927	.01548	.04938	.07884	.06739	.00380	-.01595
GRADIENT	.59016	-.22548	-.24182	.00936	.01548	.05005	.07931	.06879	.00387	-.01595
GRADIENT	.06428	-.02639	-.00058	-.00012	.00000	-.00067	-.00073	-.00039	-.00006	.00000

ORIGINAL PAGE IS  
 OF POOR QUALITY

LARC 8-TPT-693 (1A43) CONFIGURATION 02/74/56

(AMC003) ( 05 FEB 75

REFERENCE DATA

3REF = 2680.0000 24. FT. 10RP = 976.0000 IN. XT  
 1REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 2REF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 13/ D RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.600	-10.605	-.75560	.32436	-.08591	.00720	-.01060	.03846	.09445	.07164	.00298	-.01092
.603	-8.468	-.61413	.26739	-.09467	.00695	-.01060	.03706	.09064	.06728	.00287	-.01092
.603	-6.400	-.48431	.21492	-.10354	.00671	-.01060	.03582	.08717	.06375	.00276	-.01092
.601	-4.297	-.36356	.16777	-.10560	.00641	-.01060	.03424	.08297	.06183	.00265	-.01092
.603	-2.211	-.25392	.12543	-.10689	.00619	-.01060	.03304	.08138	.06138	.00256	-.01092
.603	-1.127	-.14403	.08213	-.10674	.00597	-.01060	.03188	.07872	.06056	.00247	-.01092
.600	1.962	-.02799	.03432	.10305	.00583	-.01060	.03111	.07670	.05923	.00241	-.01092
.603	4.036	.09254	-.01255	-.08639	.00568	-.01060	.03038	.07622	.05953	.00236	-.01092
.598	6.146	.21251	-.05249	-.08642	.00575	-.01060	.03089	.07696	.06134	.00243	-.01092
.599	8.241	.33403	-.11197	-.07909	.00556	-.01060	.02995	.07465	.06137	.00236	-.01092
.600	10.348	.45739	-.16023	-.06731	.00551	-.01060	.02984	.07457	.06331	.00234	-.01092
GRADIENT		.03451	-.02164	-.00101	-.00009	.00000	-.00046	-.00087	-.00002	-.00003	-.00000

RUN NO. 12/ D RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.170	-.85450	.35836	-.13106	.00939	-.01351	.05063	.10022	.07158	.00401	-.01393
.899	-8.943	-.67191	.27780	-.13602	.00892	-.01351	.04795	.09430	.06967	.00377	-.01393
.900	-6.753	-.51090	.20740	-.14068	.00849	-.01351	.04559	.08787	.06637	.00358	-.01393
.899	-4.546	-.33769	.14417	-.13905	.00812	-.01351	.04345	.08451	.06406	.00338	-.01393
.899	-2.337	-.21380	.08074	-.13708	.00773	-.01351	.04127	.08109	.06275	.00320	-.01393
.899	-1.196	-.06899	.01067	-.13642	.00751	-.01351	.04017	.07796	.06128	.00313	-.01393
.899	1.973	.06204	-.04246	-.13376	.00741	-.01351	.03967	.07747	.06082	.00308	-.01393
.899	4.134	.17567	-.07747	-.13223	.00727	-.01351	.03891	.07793	.06400	.00303	-.01393
.900	6.304	.29806	-.11974	-.12660	.00720	-.01351	.03882	.07755	.06661	.00300	-.01393
.901	8.480	.43921	-.17313	-.12245	.00727	-.01351	.03890	.07698	.07110	.00303	-.01393
.900	10.634	.55659	-.21918	-.11923	.00743	-.01351	.03976	.07881	.07313	.00310	-.01393
GRADIENT		.06190	-.02612	-.00078	-.00009	.00000	-.00049	-.00077	-.00010	-.00004	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRNK = .000 BOFLAP = .000





DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (1A43)

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/76

(AMC003) ( 05 FEB 75 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BOFLAP = .000

RUN NO. 11/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

WREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

Table with columns: WACH, ALPHA, CVF, CLMF, CAF, CABO, CABF, CABSRB, CLMBO, CLMBF. Rows 1.130 to 1.135.

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/75

(AMC004) ( 05 FEB 75 )

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BOFLAP = .000

RUN NO. 17/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

WACH = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

Table with columns: WACH, ALPHA, CVF, CLMF, CAF, CABO, CABF, CABSRB, CLMBO, CLMBF. Rows 1.000 to 1.005.

LARC 8-TFT-693 (1A43) CONFIGURATION 02/74/52

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .003 RUODER = .000  
 S-TBRK = .000 BDFLAP = .000

RUN NO. 16/0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

34EP = 2880.0000 94.FT. XMRP = 976.0000 IN. XT  
 -REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

MACH	ALPHA	CAF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.901	-11.193	-0.6101	.36451	.13128	.02941	.01351	-.05076	.15036	.07208	.00403	-.01393
.902	-8.960	-0.6746	.28271	.13780	.03894	.01351	-.04801	.09427	.07357	.00377	-.01393
.903	-6.753	-0.5192	.20943	.13940	.02857	.01351	-.04607	.08902	.06815	.00362	-.01393
.904	-4.564	-0.35624	.14462	.14030	.02817	.01351	-.04371	.08509	.06538	.00340	-.01393
.905	-2.384	-0.21204	.08192	.13909	.02777	.01351	-.04151	.08152	.06380	.00322	-.01393
.906	-.208	-.07231	.01454	.13782	.02759	.01351	-.04061	.07882	.06229	.00316	-.01393
.907	1.961	.05973	-.03933	.13716	.02744	.01351	-.03981	.07790	.06097	.00310	-.01393
.908	4.126	.17989	-.07582	.13293	.02735	.01351	-.03940	.07901	.06469	.00306	-.01393
.909	6.288	.29662	-.11454	.12896	.02721	.01351	-.03860	.07808	.06474	.00300	-.01393
.910	8.466	.42635	-.16675	.12315	.02728	.01351	-.03897	.07779	.07089	.00304	-.01393
.911	10.629	.55054	-.21476	.11973	.02741	.01351	-.03971	.07909	.07165	.00310	-.01393
GRADIENT		.06150	-.02589	-.00077	-.00009	-.00000	-.00048	-.00073	-.00019	-.00004	-.00000

RUN NO. 15/0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CAF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.608	-0.94829	.39624	.23997	.01122	.01654	-.06033	.10242	.09019	.00475	-.01704
1.131	-9.311	-0.74614	.31189	.24733	.01080	.01654	-.05796	.09884	.08615	.00445	-.01704
1.132	-7.037	-0.56680	.24223	.24937	.01039	.01654	-.05571	.09500	.08257	.00436	-.01704
1.133	-4.747	-0.38872	.17202	.25011	.01004	.01654	-.05375	.09264	.08100	.00419	-.01704
1.134	-2.501	-.22926	.10761	.25051	.00972	.01654	-.05173	.09330	.08007	.00396	-.01704
1.135	-.268	-.07795	.04555	.25023	.00942	.01654	-.04999	.09392	.07889	.00382	-.01704
1.136	1.939	.09621	-.01300	.24895	.00944	.01654	-.05006	.09395	.07894	.00381	-.01704
1.137	4.137	.19814	-.07471	.24676	.00947	.01654	-.05025	.09686	.07997	.00383	-.01704
1.138	6.349	.33841	-.13613	.23995	.00959	.01654	-.05085	.09201	.08273	.00387	-.01704
1.139	8.532	.47176	-.19232	.23359	.00981	.01654	-.05211	.07984	.08371	.00398	-.01704
1.140	10.744	.57320	-.21831	.22432	.00943	.01654	-.05201	.08404	.08677	.00381	-.01704
GRADIENT		.06581	-.02765	-.00037	-.00006	-.00000	-.00039	-.00067	-.00014	-.00004	-.00000



DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 6-TPT-693 (IA43) CONFIGURATION 02/74/93

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BOFLAP = .000

REFERENCE DATA

MACH 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201
ALPHA -11.695 -9.337 -7.053 -4.778 -2.512 -0.269 1.926 4.146 6.362 8.367 10.603
CNF -0.96384 -0.74593 -0.55361 -0.37631 -0.21307 -0.05271 0.06510 0.29122 0.53372 0.77117 1.01301
CAF 0.26918 0.26354 0.25697 0.24805 0.23681 0.22316 0.20660 0.18726 0.16487 0.13927 0.11179
CIBO 0.1138 0.1075 0.1026 0.0989 0.0952 0.0916 0.0880 0.0844 0.0808 0.0772 0.0737
CIBF 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348 0.1348
CABO 0.5123 0.5771 0.5504 0.5531 0.5581 0.5654 0.5752 0.5884 0.6044 0.6226 0.6426
CABET 0.10207 0.03514 0.03126 0.02900 0.02756 0.02754 0.02857 0.02902 0.02961 0.03037 0.03126
CABSRB 0.08665 0.08488 0.08144 0.07939 0.07817 0.07659 0.07664 0.07605 0.07561 0.07517 0.07473
CLMBF 0.00483 0.00453 0.00431 0.00415 0.00393 0.00372 0.00370 0.00369 0.00368 0.00367 0.00366
CLMBO 0.00483 0.00453 0.00431 0.00415 0.00393 0.00372 0.00370 0.00369 0.00368 0.00367 0.00366
CLMBO 0.00483 0.00453 0.00431 0.00415 0.00393 0.00372 0.00370 0.00369 0.00368 0.00367 0.00366

RUN NO. 14/ 0 RWL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

(ANCD04) ( 03 FEB 75 )

LARC 6-TPT-693 (IA43) CONFIGURATION 02/74/92

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 RUDDER = .000
SPDRK = .000 BOFLAP = .000

REFERENCE DATA

MACH 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201
ALPHA -10.998 -8.491 -6.360 -4.226 -2.226 -1.130 1.971 4.048 6.141 8.237 10.333
CNF -0.76288 -0.62149 -0.48806 -0.36796 -0.26144 -0.15937 0.03230 0.20264 0.38742 0.50210 0.63099
CAF 0.27948 0.26747 0.25393 0.23960 0.22321 0.20455 0.18260 0.15719 0.12865 0.09685 0.06093
CIBO 0.00712 0.00689 0.00665 0.00640 0.00617 0.00597 0.00578 0.00558 0.00535 0.00510 0.00483
CIBF 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060 0.10060
CABO 0.53612 0.53680 0.53568 0.53426 0.53202 0.53182 0.53091 0.52928 0.52807 0.52687 0.52543
CABET 0.09672 0.09352 0.08979 0.08629 0.08449 0.08202 0.07935 0.07692 0.07493 0.07265 0.07005
CABSRB 0.07529 0.07069 0.06697 0.06469 0.06409 0.06357 0.06168 0.06237 0.06235 0.06236 0.06234
CLMBF 0.00297 0.00298 0.00279 0.00267 0.00258 0.00249 0.00241 0.00237 0.00235 0.00236 0.00234
CLMBO 0.00297 0.00298 0.00279 0.00267 0.00258 0.00249 0.00241 0.00237 0.00235 0.00236 0.00234

RUN NO. 21/ 0 RWL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

(ANCD05) ( 05 FEB 75 )

LARC 8-TFT-693 (1A43) CONFIGURATION 02/74/92

REFERENCE DATA

MACH = 2690.0000 50. FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3333 INCHES YMRP = .0000 IN. YT  
 DREF = 1290.3333 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 20/ 0 RIVL = 3.90 GRADIENT INTERVAL = -5.00/ 5.00  
 RUN NO. 18/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

MACH	ALPHA	CIF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.178	-.86420	.36529	.12782	.00945	.01351	.05295	.10143	.07390	.00404	-.01393
.900	-6.950	-.67793	.28239	.13444	.00891	.01351	.04787	.09547	.07255	.00378	-.01393
.900	-6.742	-.51048	.20876	.13663	.00858	.01351	.04610	.09026	.07043	.00362	-.01393
.901	-4.544	-.35645	.14524	.13840	.00816	.01351	.04362	.08604	.06758	.00339	-.01393
.902	-2.367	-.21538	.08328	.13991	.00781	.01351	.04168	.08298	.06548	.00322	-.01393
.901	-1.195	-.06798	.01168	.13486	.00763	.01351	.04080	.08001	.06401	.00317	-.01393
.900	1.960	.03966	-.04029	.13321	.00748	.01351	.03997	.07914	.06269	.00310	-.01393
.901	4.144	.17543	-.07612	.13126	.00734	.01351	.03923	.08000	.06320	.00304	-.01393
.901	6.305	.29510	-.11496	.12539	.00730	.01351	.03903	.07933	.06758	.00303	-.01393
.901	8.468	.42949	-.16929	.12099	.00732	.01351	.03915	.07853	.07159	.00305	-.01393
.901	10.641	.55291	-.21654	.11663	.00745	.01351	.03989	.08054	.07221	.00311	-.01393
.900	GRADIENT	.06159	-.02613	-.00078	-.00009	-.00000	-.00048	-.00073	-.00033	-.00004	-.00000

MACH	ALPHA	CIF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.602	-.93025	.39655	.23734	.01125	.01654	.06048	.10434	.08174	.00476	-.01704
1.130	-9.300	-.74528	.31082	.24343	.01075	.01654	.05771	.10059	.08096	.00453	-.01704
1.130	-7.002	-.56282	.23934	.24584	.01030	.01654	.05530	.09616	.08601	.00433	-.01704
1.129	-4.739	-.36999	.17199	.24671	.00996	.01654	.05326	.09342	.08427	.00416	-.01704
1.130	-2.492	-.23020	.10823	.24756	.00963	.01654	.05135	.09416	.08268	.00396	-.01704
1.129	-.271	-.07994	.04645	.24704	.00938	.01654	.04977	.09511	.08187	.00380	-.01704
1.130	1.932	.05474	-.01155	.24592	.00947	.01654	.05021	.09175	.08207	.00382	-.01704
1.130	4.134	.19725	-.07469	.24572	.00945	.01654	.05010	.08931	.08199	.00381	-.01704
1.129	6.380	.34011	-.13771	.23871	.00960	.01654	.05090	.08285	.08331	.00388	-.01704
1.128	8.534	.46860	-.19299	.23251	.00978	.01654	.05191	.08060	.08378	.00397	-.01704
1.129	10.772	.58290	-.22277	.22241	.00944	.01654	.05002	.08462	.08740	.00381	-.01704
1.129	GRADIENT	.06372	-.02761	-.00016	-.00005	-.00000	-.00035	-.00057	-.00024	-.00004	-.00000

DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (1A43)

(ANCD093) ( 05 FEB 75 )

LARC 8-TPT-693 (1A43) CONFIGURATION 08/14/57

REFERENCE DATA

MACH = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
SRC = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 19/ 0 R/VL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CAF	CLMF	CMBJ	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.607	-3.6613	.43593	.01134	.01548	.06101	.10123	.08790	.00481	-.01995
1.201	-9.354	-7.1071	.31194	.01064	.01548	.03714	.09633	.07692	.00449	-.01995
1.202	-7.032	-5.1488	.23351	.01014	.01548	.03445	.09184	.08414	.00427	-.01995
1.203	-4.757	-3.7708	.15976	.00978	.01548	.03247	.08911	.08211	.00411	-.01995
1.204	-2.515	-2.1920	.09353	.00946	.01548	.03052	.08792	.08056	.00391	-.01995
1.205	-.299	-.08247	.03316	.00913	.01548	.04851	.08798	.07873	.00371	-.01995
1.206	1.938	.06563	-.01975	.00914	.01548	.04844	.08694	.07850	.00369	-.01995
1.207	4.153	.20387	-.07995	.00911	.01548	.04826	.08282	.07946	.00367	-.01995
1.208	6.395	.34072	-.13835	.00910	.01548	.04816	.07930	.08032	.00366	-.01995
1.209	8.597	.47762	-.19838	.00927	.01548	.04913	.07682	.08291	.00374	-.01995
1.200	10.807	.60582	-.23696	.00935	.01548	.04955	.07759	.08444	.00378	-.01995
GRADIENT	.06461	-.00053	-.00008	-.00000	-.00000	-.00047	-.00081	-.00033	-.00003	.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BIPLAP = .000

REFERENCE DATA

MACH = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
REF = 1290.3000 INCHES YMRP = .0000 IN. YT  
SRC = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 27/ 0 R/VL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CAF	CLMF	CMBJ	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.601	-10.582	-.76712	.33289	.00724	.01060	.03681	.09697	.07153	.00303	-.01092
.601	-8.474	-.62317	.27339	.00699	.01060	.03741	.09323	.06694	.00292	-.01092
.600	-6.372	-.49172	.22122	.00673	.01060	.03603	.08961	.06403	.00281	-.01092
.601	-4.292	-.37359	.17496	.00644	.01060	.03452	.08584	.06205	.00270	-.01092
.600	-2.138	-.26624	.13404	.00622	.01060	.03321	.08419	.06206	.00258	-.01092
.600	-.121	-.15469	.09059	.00600	.01060	.03202	.08149	.06158	.00249	-.01092
.600	1.959	-.03754	.04347	.00584	.01060	.03126	.07948	.06055	.00243	-.01092
.599	4.072	.08369	-.00568	.00573	.01060	.03072	.07906	.06099	.00240	-.01092
.600	6.161	.20006	-.05315	.00560	.01060	.03014	.07794	.06186	.00237	-.01092
.599	8.248	.32640	-.10545	.00559	.01060	.03018	.07802	.06325	.00240	-.01092
.600	10.343	.44933	-.15476	.00554	.01060	.02969	.07790	.06372	.00237	-.01092
GRADIENT	.05476	-.02165	-.00039	-.00000	-.00000	-.00046	-.00088	-.00017	-.00004	.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BIPLAP = .000

(ANCD086) ( 05 FEB 75 )

LARC 8-TPT-693 (1A43) CONFIGURATION 08/14/57

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TPT-693 (1A43) CONFIGURATION 02/74/87

(ARC006) ( 05 FEB 75 )

REFERENCE DATA

SLIP = 2630.0000 30.FT. XWRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YWRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 26/ D RVL = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.801	-10.933	-.81356	.34011	.10545	.00811	.01219	.04341	.09499	.07001	.00339	-.01256
.801	-8.784	-.66247	.27678	.11005	.00773	.01219	.04131	.09060	.06701	.00321	-.01256
.801	-6.629	-.50387	.21692	.11488	.00740	.01219	.03940	.08718	.06359	.00303	-.01256
.801	-4.459	-.37273	.16479	.11719	.00708	.01219	.03762	.08411	.06048	.00288	-.01256
.800	-2.317	-.25217	.11912	.11797	.00677	.01219	.03596	.08111	.05941	.00275	-.01256
.801	-.183	-.13265	.06941	.11552	.00654	.01219	.03483	.07876	.05942	.00266	-.01256
.801	1.962	-.00375	.01623	.11269	.00635	.01219	.03393	.07736	.05782	.00263	-.01256
.800	4.124	.12770	-.03323	.10555	.00621	.01219	.03326	.07561	.05594	.00260	-.01256
.801	6.259	.26126	-.09430	.10158	.00611	.01219	.03273	.07337	.05266	.00256	-.01256
.801	8.407	.38742	-.14179	.09817	.00614	.01219	.03232	.07163	.04807	.00257	-.01256
.801	10.555	.51072	-.18449	.09307	.00624	.01219	.03337	.07863	.04696	.00259	-.01256
GRADIENT		.03826	-.02345	-.00123	-.00000	-.00000	-.00000	-.00087	-.00012	-.00003	-.00000

RUN NO. 25/ D RVL = 3.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.165	-.86254	.36426	.12860	.00947	.01351	.05112	.10193	.07112	.00406	-.01393
.900	-8.938	-.67849	.28907	.13409	.00902	.01351	.04855	.09618	.06933	.00384	-.01393
.900	-6.725	-.51603	.21248	.13857	.00860	.01351	.04628	.09203	.06564	.00365	-.01393
.900	-4.515	-.36116	.14914	.13904	.00824	.01351	.04414	.08640	.06283	.00345	-.01393
.900	-2.300	-.22043	.08725	.13668	.00790	.01351	.04222	.08330	.06186	.00328	-.01393
.900	-.186	-.07340	.01676	.13476	.00767	.01351	.04111	.07996	.06141	.00322	-.01393
.900	1.981	.05555	-.03526	.13452	.00760	.01351	.04069	.07938	.06043	.00318	-.01393
.900	4.140	.16910	-.06994	.13193	.00749	.01351	.04012	.08055	.06406	.00314	-.01393
.901	6.313	.29127	-.11148	.12698	.00734	.01351	.03933	.07906	.06667	.00307	-.01393
.900	8.485	.42523	-.16684	.12162	.00734	.01351	.03934	.07891	.07083	.00308	-.01393
.900	10.643	.55449	-.21673	.11873	.00746	.01351	.03999	.08049	.07224	.00312	-.01393
GRADIENT		.06164	-.02590	-.00076	-.00008	-.00000	-.00044	-.00072	.00004	-.00003	-.00000



LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/37

REFERENCE DATA  
 BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-R1 = .000  
 ELV-RC = .000 RUDDER = .000  
 SPSBRK = .000 BDFLAP = .000

RUN NO. 24/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACI	ALPHA	CF	CLMF	CAF	C-BO	C-BF	C-BO	CABO	CABET	CABSRB	CLMBO	CLMBF
.980	-11.332	-.92417	.30689	.17412	.01182	.01484	.06391	.11477	.08684	.00909	.00909	-.01529
.981	-9.110	-.72078	.29826	.18346	.01137	.01484	.05137	.10862	.08319	.00487	.00487	-.01529
.981	-6.847	-.54246	.22815	.18529	.01092	.01484	.03884	.10384	.08083	.00463	.00463	-.01529
.981	-4.634	-.38593	.15821	.18815	.01033	.01484	.05554	.10302	.07927	.00444	.00444	-.01529
.981	-2.424	-.24132	.11297	.18678	.01019	.01484	.05445	.09863	.07796	.00423	.00423	-.01529
.981	-.223	-.09774	.09493	.18413	.01023	.01484	.05460	.09930	.07728	.00433	.00433	-.01529
.980	1.963	.04437	-.01228	.18070	.01090	.01484	.05602	.09515	.08294	.00441	.00441	-.01529
.983	4.158	.18073	-.06932	.17744	.01076	.01484	.05728	.09431	.08720	.00431	.00431	-.01529
.980	6.333	.31772	-.12362	.17024	.01052	.01484	.05600	.09369	.08425	.00425	.00425	-.01529
.980	8.327	.44676	-.17391	.16431	.01046	.01484	.05554	.09369	.09045	.00439	.00439	-.01529
.979	10.703	.56790	-.21744	.15786	.01067	.01484	.05681	.09974	.09343	.00439	.00439	-.01529
GRADIENT		.06470	-.02734	-.00125	.00003	.00000	.00014	-.00041	-.00000	.00000	.00000	.00000

RUN NO. 23/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACI	ALPHA	CF	CLMF	CAF	C-BO	C-BF	C-BO	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.804	-.95646	.40298	.23778	.01126	.01654	.06063	.10477	.08989	.00478	.00478	-.01704
1.132	-9.285	-.75261	.31785	.24457	.01081	.01654	.05816	.09974	.08659	.00456	.00456	-.01704
1.131	-7.014	-.55830	.24545	.24744	.01034	.01654	.05556	.09464	.08366	.00437	.00437	-.01704
1.130	-4.732	-.39541	.17702	.24718	.01003	.01654	.05380	.09183	.08280	.00422	.00422	-.01704
1.130	-2.482	-.23317	.11092	.24756	.00974	.01654	.05206	.09226	.08140	.00404	.00404	-.01704
1.130	-.262	-.08309	.04905	.24727	.00949	.01654	.05046	.09312	.08002	.00387	.00387	-.01704
1.130	1.982	.05267	-.01043	.24483	.00956	.01654	.05075	.09971	.07952	.00388	.00388	-.01704
1.130	4.161	.19331	-.07280	.24487	.00967	.01654	.05133	.08592	.08044	.00392	.00392	-.01704
1.130	6.362	.33985	-.13677	.23960	.00987	.01654	.05239	.09088	.08235	.00400	.00400	-.01704
1.130	8.580	.46152	-.18714	.23485	.01003	.01654	.05339	.09188	.08512	.00409	.00409	-.01704
1.129	10.772	.57303	-.21670	.22384	.00959	.01654	.05091	.08395	.08706	.00399	.00399	-.01704
GRADIENT		.06386	-.02795	-.00033	-.00004	.00000	-.00028	-.00064	-.00000	.00000	.00000	.00000

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 OF POOR QUALITY

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/87

(AMC006) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 22/ 0 RNL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	CIF	CLMF	CAF	CNO	CIBF	CASO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.663	-96780	.41009	.23660	.01139	.01548	.06126	.10093	.06663	.00484	-.01995
1.200	-9.335	-75281	.31585	.26211	.01074	.01548	.05769	.09340	.06503	.00453	-.01995
1.200	-7.034	-59669	.23757	.26396	.01028	.01548	.03526	.09130	.08358	.00435	-.01995
1.201	-4.743	-37677	.16243	.26516	.00991	.01548	.03322	.08759	.08163	.00418	-.01995
1.200	-2.304	-21696	.09347	.26533	.00963	.01548	.05155	.08611	.08000	.00402	-.01995
1.200	-2.49	-06467	.03459	.26534	.00932	.01548	.04961	.08615	.07757	.00361	-.01995
1.201	1.932	.06798	-.02075	.26285	.00928	.01548	.04927	.08400	.07620	.00377	-.01995
1.201	4.169	.20284	-.07995	.26237	.00934	.01548	.04958	.08050	.07754	.00376	-.01995
1.200	6.386	.34079	-.13839	.25901	.00936	.01548	.04962	.07729	.07942	.00378	-.01995
1.200	8.584	.47592	-.19558	.25397	.00931	.01548	.05046	.07457	.06232	.00385	-.01995
1.200	10.810	.59281	-.23096	.24456	.00933	.01548	.05057	.07644	.06368	.00387	-.01995
GRADIENT		.06482	-.02697	-.30038	-.00007	.00000	-.00043	-.00073	-.00056	-.00005	-.00000

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2490.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 32/ 0 RNL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	BETA	CIF	CLMF	CAF	CNO	CIBF	CASO	CABET	CABSRB	CLMBO	CLMBF
.601	-13.346	-10069	.09979	.09060	.00767	.01060	.04127	.08969	.05771	.00325	-.01092
.601	-8.280	-10448	.06356	.10334	.00730	.01060	.03916	.08759	.05651	.00307	-.01092
.399	-6.214	-11813	.07192	.10653	.00697	.01060	.03722	.08549	.05445	.00289	-.01092
.600	-4.152	-12945	.07812	.11140	.00660	.01060	.03521	.08393	.05499	.00273	-.01092
.601	-2.087	-14293	.08302	.11101	.00619	.01060	.03303	.08218	.05750	.00255	-.01092
.600	-.027	-15133	.08745	.10341	.00599	.01060	.03205	.08171	.06173	.00249	-.01092
.600	2.030	-.19273	.08474	.10128	.00563	.01060	.03258	.08214	.06490	.00250	-.01092
.399	4.092	-.14330	.07568	.09827	.00535	.01060	.03376	.08405	.06667	.00257	-.01092
.399	6.196	-.13431	.06568	.09131	.00571	.01060	.03524	.08666	.07143	.00262	-.01092
.399	8.203	-.12238	.05429	.08453	.00706	.01060	.03686	.08962	.07394	.00270	-.01092
.399	10.268	-.10953	.04246	.07644	.00736	.01060	.03842	.09245	.07583	.00281	-.01092
GRADIENT		.02182	-.00013	-.00175	-.00003	.00000	-.00043	-.00073	-.00149	-.00002	-.00000

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/87

(AMC007) ( 05 FEB 75 )





LARC 6-1PT-693 (IA43) CONFIGURATION 02/74/87

(AMC007) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT  
 LREF = 1290.3300 INCHES YREF = .0000 IN. YT  
 ZREF = .290.3300 INCHES ZREF = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDPRK = .000 BDFLAP = .000

RUN NO. 31/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	C/F	CLMF	CAF	CLBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.800	-10.547	-.08016	.33267	.14765	.01308	.01351	-.05420	.09480	.05901	.00426	-.01393
.800	-8.324	-.07375	.32836	.14609	.00999	.01351	.05133	.09345	.05920	.00400	-.01393
.800	-5.398	-.06955	.32506	.14973	.00914	.01351	-.04993	.08981	.05691	.00380	-.01393
.800	-4.258	-.06878	.02176	.14756	.00371	.01351	.04669	.08582	.05706	.00365	-.01393
.800	-2.159	-.06389	.01605	.14268	.00812	.01351	-.04365	.06179	.05964	.00343	-.01393
.800	-.039	-.08152	.01905	.13484	.00765	.01351	.04099	.06020	.06157	.00320	-.01393
.800	2.096	-.07931	.01756	.13821	.00775	.01351	-.04138	.06379	.06093	.00320	-.01393
.800	4.203	-.08231	.02160	.13892	.00825	.01351	.04394	.06848	.06212	.00358	-.01393
.800	6.333	-.08614	.02606	.13363	.00832	.01351	-.04561	.09077	.06682	.00336	-.01393
.800	8.456	-.08905	.02912	.12836	.00887	.01351	.04732	.09366	.07253	.00371	-.01393
.800	10.586	-.08142	.02083	.12231	.00929	.01351	-.04953	.09651	.07721	.00383	-.01393
	GRADIENT	-.00172	.00015	-.00103	-.00006	.00000	-.00000	.00000	.00054	-.00004	.00000

RUN NO. 30/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	C/F	CLMF	CAF	CLBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-10.749	-.08553	.04244	.19568	.01249	.01526	.06712	.10832	.07089	.00327	-.01573
.900	-8.609	-.07478	.03873	.19951	.01189	.01526	-.06370	.10776	.07017	.00496	-.01573
.900	-6.439	-.07864	.04415	.20039	.01139	.01526	.06085	.10439	.06983	.00472	-.01573
.900	-4.310	-.08394	.04769	.19871	.01098	.01526	-.05851	.10153	.07154	.00451	-.01573
.900	-2.162	-.08804	.04920	.19096	.01073	.01526	.05728	.09818	.07456	.00443	-.01573
.900	-.040	-.10201	.05603	.18399	.01022	.01526	-.05449	.09876	.07687	.00421	-.01573
.900	2.099	-.10349	.05621	.18188	.01035	.01526	.05526	.10099	.08087	.00428	-.01573
.900	4.230	-.09775	.05095	.18104	.01066	.01526	-.05660	.10389	.08498	.00433	-.01573
.900	6.366	-.09143	.04267	.17536	.01100	.01526	.05829	.10493	.08998	.00444	-.01573
.900	8.529	-.08557	.03408	.16982	.01126	.01526	-.05973	.10862	.09347	.00456	-.01573
.900	10.673	-.08797	.02887	.16348	.01174	.01526	.06231	.11058	.09688	.00476	-.01573
	GRADIENT	-.00202	.00063	-.00208	-.00005	.00000	-.00027	.00035	.00155	-.00002	-.00000

LARC 8-TPT-693 (1A43) CONFIGURATION CR74/37

(A4CDD7) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 JREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-R1 = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BDFLAP = .000

RUN NO. 28/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABCT	CABSRB	CLMBO	CLMBF
1.130	-10.847	-.05444	-.01987	.25817	-.01106	-.01634	.05962	.09840	.06664	.00472	-.01704
1.131	-8.661	-.05122	-.02328	.26174	-.01127	-.01654	.06060	.09657	.06656	.00477	-.01704
1.130	-6.489	-.05092	-.03388	.26209	-.01115	-.01634	.05952	.09441	.06806	.00461	-.01704
1.130	-4.335	-.06804	-.04095	.26031	-.01074	-.01654	.05708	.09237	.07076	.00437	-.01704
1.130	-2.164	-.07319	-.04376	.25397	-.01019	-.01654	.05408	.09175	.07615	.00413	-.01704
1.130	-.040	-.08203	-.04729	.24650	-.00951	-.01654	.05056	.09264	.08159	.00387	-.01704
1.130	2.114	-.08200	-.04447	.24313	-.01000	-.01654	.05325	.09108	.08499	.00410	-.01704
1.130	4.290	-.07907	-.04112	.24528	-.01034	-.01654	.05503	.08964	.08664	.00423	-.01704
1.129	6.413	-.07377	-.03431	.24080	-.01054	-.01654	.05612	.09293	.08904	.00432	-.01704
1.130	8.572	-.06667	-.02286	.23726	-.01055	-.01654	.05596	.09508	.09052	.00427	-.01704
1.129	10.756	-.06563	-.01634	.23105	-.01042	-.01654	.05505	.09693	.09232	.00416	-.01704
GRADIENT		-.00144	.02305	-.00191	-.00000	.00000	-.00023	-.00029	.00169	-.00001	.00000

RUN NO. 28/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABCT	CABSRB	CLMBO	CLMBF
1.200	-10.871	-.05459	-.01862	.27254	-.01118	-.01548	.06008	.09648	.06735	.00473	-.01595
1.200	-8.688	-.04571	-.01852	.27761	-.01124	-.01548	.06015	.09311	.06615	.00469	-.01595
1.200	-6.504	-.05128	-.02689	.27893	-.01113	-.01548	.05941	.09104	.06564	.00460	-.01595
1.200	-4.341	-.05875	-.03267	.27811	-.01068	-.01548	.05682	.08819	.06700	.00437	-.01595
1.200	-2.185	-.05492	-.03456	.27261	-.01024	-.01548	.05435	.08659	.07117	.00415	-.01595
1.200	-.048	-.06951	-.03612	.26608	-.00941	-.01548	.05209	.08612	.07630	.00395	-.01595
1.200	2.110	-.06920	-.03313	.26341	-.00907	-.01548	.05243	.08349	.08009	.00401	-.01595
1.200	4.261	-.07191	-.03359	.26469	-.01017	-.01548	.05411	.08349	.08253	.00416	-.01595
1.200	6.423	-.06852	-.02875	.25994	-.01041	-.01548	.05536	.08695	.08502	.00425	-.01595
1.200	8.610	-.06639	-.02136	.25404	-.01040	-.01548	.05523	.09054	.08728	.00422	-.01595
1.200	10.785	-.06564	-.01834	.24838	-.01023	-.01548	.05415	.09416	.08948	.00409	-.01595
GRADIENT		-.00142	.02202	-.00167	-.00000	.00000	-.00004	-.00058	.00186	-.00003	.00000



(AMC008) ( 05 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/TA/51

REFERENCE DATA

SRET = 2680.0000 SQ. FT. YMRP = 976.0000 IN. XT  
 LRET = 1290.0000 INCHES YMRP = .0000 IN. YT  
 BRET = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BIDFLAP = .000

RUN NO. 36/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIF	CLMF	CAF	CMBQ	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.600	-10.644	-.79457	.34833	-.06784	.00707	.01060	.03792	.09148	.08073	.00297	-.01092
.630	-8.536	-.65055	.28956	-.07728	.00678	.01060	.03643	.08781	.07643	.00287	-.01092
.660	-6.417	-.51795	.23386	-.08522	.00651	.01060	.03503	.08441	.07269	.00276	-.01092
.690	-4.342	-.39692	.18349	-.08998	.00637	.01060	.03423	.08221	.07037	.00269	-.01092
.720	-2.246	-.28628	.14229	-.09253	.00618	.01060	.03326	.07938	.06809	.00262	-.01092
.750	-1.163	-.17735	.10315	-.09482	.00585	.01060	.03143	.07620	.06529	.00246	-.01092
.780	0.023	-.07653	.06238	-.09220	.00573	.01060	.03065	.07389	.06239	.00239	-.01092
.810	4.923	.05832	.02111	-.08534	.00555	.01060	.02973	.07394	.06508	.00232	-.01092
.840	6.104	.16830	-.04922	.07724	.00543	.01060	.02919	.07220	.06709	.00230	-.01092
.870	8.206	.30841	-.09927	.06783	.00541	.01060	.02918	.06903	.06660	.00232	-.01092
.900	10.301	.44298	-.15398	.05595	.00532	.01060	.02876	.06689	.06670	.00229	-.01092
GRADIENT		.05545	-.02252	-.00046	-.00010	.00000	-.00096	-.00105	-.00078	-.00005	-.00000

RUN NO. 35/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CIF	CLMF	CAF	CMBQ	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.901	-11.244	-.90257	.38670	-.11252	.00923	.01351	.04933	.09769	.08171	.00383	-.01393
.899	-9.017	-.71915	.30326	-.11749	.00883	.01351	.04735	.09205	.07949	.00362	-.01393
.903	-6.812	-.55489	.23467	-.12085	.00841	.01351	.04481	.08655	.07638	.00346	-.01393
.899	-4.611	-.39885	.17053	-.12143	.00803	.01351	.04270	.08277	.07408	.00326	-.01393
.899	-2.417	-.25241	.10773	-.12396	.00766	.01351	.04063	.07878	.07179	.00310	-.01393
.900	-.252	-.11390	.04251	-.12441	.00763	.01351	.04041	.07880	.06913	.00307	-.01393
.900	1.932	.02310	-.01415	.11968	.00748	.01351	.03973	.07742	.07268	.00304	-.01393
.900	4.101	.14632	-.05763	.12106	.00723	.01351	.03892	.07547	.07228	.00297	-.01393
.900	6.254	.27446	-.10309	.11563	.00726	.01351	.03875	.07442	.07340	.00300	-.01393
.900	8.443	.41417	-.16287	.11310	.00732	.01351	.03905	.07287	.07358	.00302	-.01393
.899	10.605	.55317	-.23831	.10738	.00738	.01351	.03943	.07332	.07278	.00306	-.01393
GRADIENT		.06273	-.02656	-.00021	-.00008	-.00003	-.00043	-.00073	-.00012	-.00003	-.00000

ORIGINAL PAGE IS OF POOR QUALITY

## LARC 8-TPT-693 (IA43) CONFIGURATION 08/T4/S1

(AMC008) ( 03 FEB 75 )

## REFERENCE DATA

SREF = 2880.0000 98. FT. 3REF = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES 1REF = .0000 IN. YT  
 BREF = 1290.3000 INCHES 2REF = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BUFLAP = .000

RUN NO. 34/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.691	-1.59566	.42860	.22257	.01112	.01654	.05951	.10023	.09575	.00463	-.01704
1.130	-9.367	-.78636	.34092	.22911	.01066	.01654	.05705	.09585	.09199	.00442	-.01704
1.130	-7.070	-.60456	.26760	.23071	.01028	.01654	.05483	.09337	.08640	.00423	-.01704
1.130	-4.800	-.43146	.19869	.23168	.00988	.01654	.05262	.09265	.08682	.00403	-.01704
1.130	-2.540	-.26046	.13150	.23305	.00960	.01654	.05094	.09136	.08495	.00389	-.01704
1.130	-.322	-.11225	.06571	.23406	.00945	.01654	.05008	.08961	.08308	.00361	-.01704
1.130	1.804	.03353	.00207	.23503	.00946	.01654	.05008	.08628	.07964	.00380	-.01704
1.130	4.113	-.17767	-.06655	.23083	.00957	.01654	.05072	.08301	.08233	.00396	-.01704
1.130	6.331	.32279	-.13064	.22542	.00968	.01654	.05130	.07989	.08183	.00391	-.01704
1.130	8.532	-.45602	-.16804	.21844	.00987	.01654	.05235	.07665	.08432	.00399	-.01704
1.130	10.728	.57167	-.22236	.21057	.00948	.01654	.05315	.07578	.08632	.00380	-.01704
GRADIENT		.06827	-.02972	-.00228	-.00203	.00220	-.00221	-.00109	-.00064	-.00002	.00000

RUN NO. 33/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.748	-1.02497	.41501	.24194	.01130	.01548	.06064	.09695	.08238	.00475	-.01595
1.200	-9.404	-.78796	.34380	.24614	.01062	.01548	.05679	.08260	.08893	.00441	-.01595
1.200	-7.084	-.59337	.26120	.24935	.01017	.01548	.05436	.08932	.08647	.00423	-.01595
1.200	-4.812	-.41306	.18555	.25113	.00980	.01548	.05239	.08766	.08443	.00407	-.01595
1.200	-2.553	-.24764	.11587	.25286	.00946	.01548	.05040	.08558	.08214	.00388	-.01595
1.200	-.319	-.09564	.05423	.25303	.00912	.01548	.04836	.08332	.08017	.00369	-.01595
1.200	1.828	.04460	-.07013	.24918	.00909	.01548	.04816	.08268	.07797	.00366	-.01595
1.200	4.117	.16243	-.06934	.24795	.00918	.01548	.04862	.07924	.07945	.00369	-.01595
1.200	6.340	.32459	-.13067	.24207	.00926	.01548	.04905	.07659	.08015	.00373	-.01595
1.200	8.565	.46373	-.19181	.23742	.00938	.01548	.04971	.07311	.08176	.00379	-.01595
1.200	10.720	.59198	-.23461	.22926	.00936	.01548	.04980	.07175	.08402	.00379	-.01595
GRADIENT		.05646	-.02835	-.00045	-.00207	-.00200	-.00044	-.00289	-.00063	-.00004	.00000



LARC 8-TFT-693 (IA43) CONFIGURATION 02/78/87

REFERENCE DATA  
 MACH = 2.890.0000 28. FT. XREF = 976.0000 IN. XT BETA = .000 ELV-LO = .000  
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT ELV-LJ = .000 ELV-R1 = .000  
 ZREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT ELV-RO = .000 RUDDER = .000  
 SCALE = .0100 SPDRK = .000 BOFLAP = .000

RUN NO. 39/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.399	-10.618	-.76487	.33137	.08534	.00718	.01060	.03841	-.09697	.07109	-.00299	-.01092
.600	-8.305	-.62698	.27594	.09355	.00692	.01060	.03705	-.09331	.06665	-.00269	-.01092
.800	-6.385	-.49453	.22155	.09926	.00571	.01060	.03591	-.08994	.06354	-.00280	-.01092
.999	-4.298	-.37215	.17514	.10225	.00650	.01060	.03479	-.08706	.06182	-.00271	-.01092
.999	-2.207	-.26363	.13406	.10546	.00519	.01060	.03315	-.08486	.06146	-.00258	-.01092
.999	-.113	-.15671	.09111	.10538	.00395	.01060	.03182	-.08188	.06108	-.00248	-.01092
.600	1.930	-.03614	.04261	.10158	.00583	.01060	.03121	-.08000	.06024	-.00243	-.01092
.399	4.041	-.08253	-.00325	.09583	.00570	.01060	.03053	-.07945	.06059	-.00239	-.01092
.600	6.140	-.19862	-.00392	.08657	.00560	.01060	.03009	-.07847	.06182	-.00237	-.01092
.399	8.245	.32350	-.10390	.07675	.00562	.01060	.03031	-.07861	.06365	-.00240	-.01092
.600	10.340	.44738	-.15386	.06436	.00554	.01060	.02994	-.07833	.06382	-.00228	-.01092
.399	GRADIENT	.05465	-.02170	-.00080	-.00009	-.00000	-.00050	-.00096	-.00019	-.00004	-.00000

RUN NO. 38/ 0 RVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.901	-11.211	-.86878	.36831	.13015	.00942	.01351	.05088	.10115	.07078	-.00405	-.01393
.900	-8.933	-.69336	.28617	.13531	.00898	.01351	.04830	.09511	.06900	-.00381	-.01393
.900	-6.745	-.51606	.21281	.13966	.00960	.01351	.04631	.08969	.06585	-.00366	-.01393
.900	-4.538	-.36345	.15061	.13992	.00822	.01351	.04404	.08610	.06278	-.00344	-.01393
.899	-2.355	-.21755	.08692	.13732	.00788	.01351	.04214	.08314	.06172	-.00328	-.01393
.899	-.222	-.07898	.02016	.13656	.00761	.01351	.04079	.07984	.06082	-.00319	-.01393
.901	1.930	.05568	-.03531	.13641	.00762	.01351	.04084	.07958	.06008	-.00319	-.01393
.900	4.122	.16810	-.05861	.13178	.00751	.01351	.04025	.08094	.06423	-.00315	-.01393
.900	6.292	.29124	-.11158	.12760	.00732	.01351	.03924	.07907	.06647	-.00307	-.01393
.900	8.462	.42492	-.16690	.12225	.00736	.01351	.03945	.07920	.07053	-.00309	-.01393
.900	10.630	.55331	-.21704	.11868	.00749	.01351	.04017	.08103	.07198	-.00314	-.01393
.900	GRADIENT	.06179	-.02392	-.00080	-.00008	-.00000	-.00041	-.00064	-.00006	-.00003	-.00000

ORIGINAL PAGE IS  
 OF POOR QUALITY

LARC 8-TPT-693 (1A43) CONFIGURATION 02/72/57

REFERENCE DATA

SREF = 2680.0000 84. FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 377 D RIVL = 4.21 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CNF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.629	-9.6004	.40481	-2.4012	.01123	.01654	.06041	.10553	.06984	.00476	-.01704
1.130	-9.315	-.73401	.31908	-2.4634	.01073	.01654	.05778	.09923	.08625	.00455	-.01704
1.130	-7.022	-.57404	.24805	-2.4908	.01028	.01654	.05523	.09438	.08301	.00434	-.01704
1.130	-4.742	-.39538	.17738	-2.4858	.00998	.01654	.05356	.09184	.08211	.00419	-.01704
1.130	-2.504	-.23324	.11246	-2.4812	.00972	.01654	.05192	.08926	.08066	.00403	-.01704
1.129	-.262	-.08338	.04958	-2.4994	.00948	.01654	.05040	.08757	.07926	.00386	-.01704
1.129	1.933	.03348	-.01080	-2.4743	.00957	.01654	.05084	.08626	.07894	.00369	-.01704
1.129	4.129	.19269	-.07264	-2.4565	.00964	.01654	.05120	.08505	.08016	.00392	-.01704
1.129	6.330	.33225	-.13379	-2.4020	.00988	.01654	.05246	.08077	.08245	.00401	-.01704
1.129	8.532	.46230	-.18698	-2.3371	.01008	.01654	.05359	.07968	.08575	.00411	-.01704
1.129	10.737	.57223	-.21784	-2.2417	.00968	.01654	.05138	.08418	.08729	.00392	-.01704
GRADIENT		.06601	-.02807	-.00029	-.00004	.00000	-.00026	-.00072	-.00023	-.00003	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

LARC 8-TPT-693 (1A43) CONFIGURATION 02/74/57

REFERENCE DATA

SREF = 2680.0000 84. FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 437 D RIVL = 3.97 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CNF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.893	-11.136	-.79735	.30921	-1.3806	.00955	.01351	.05110	.09931	.07004	.00398	-.01393
.899	-8.901	-.61589	.22930	-1.4225	.00921	.01351	.04828	.09245	.06606	.00363	-.01393
.903	-6.711	-.45894	.16371	-1.4525	.00899	.01351	.04807	.08695	.06475	.00374	-.01393
.899	-4.516	-.30582	.10420	-1.4425	.00870	.01351	.04654	.08368	.06198	.00362	-.01393
.899	-2.319	-.16931	.04377	-1.4215	.00841	.01351	.04496	.08009	.06070	.00349	-.01393
.899	-.168	-.02419	-.02671	-1.4093	.00827	.01351	.04431	.07679	.05903	.00347	-.01393
.923	2.013	.10999	-.08203	-1.4333	.00827	.01351	.04422	.07649	.05759	.00344	-.01393
.923	4.166	.22713	-.12058	-1.3627	.00820	.01351	.04371	.07842	.05617	.00337	-.01393
.923	6.341	.35598	-.16744	-1.3115	.00798	.01351	.04252	.07654	.06431	.00328	-.01393
.899	8.529	.48439	-.21752	-1.2557	.00791	.01351	.04224	.07685	.06774	.00327	-.01393
.899	10.668	.60189	-.25841	-1.2313	.00791	.01351	.04213	.07976	.06995	.00324	-.01393
GRADIENT		.06237	-.02553	-.00082	-.00005	-.00000	-.00029	-.00065	-.00022	-.00003	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = 8.000 ELV-RI = 8.000  
ELV-RO = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000



REFERENCE DATA  
 SREF = 2690.0000 90. FT. XREF = 976.0000 IN. XT  
 YREF = 1290.3000 INCHES YXRF = .0000 IN. YT  
 ZREF = 1290.3000 INCHES ZXRF = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 42/ 0 RIVL = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CAF	CLMF	CNBO	CNBF	CABO	CABET	CABSRR	CLMBO	CLMBF
.960	-11.369	-0.7863	.34580	.01180	.01484	.06234	.11412	.08811	.00476	-.01329
.961	-9.093	-0.67347	.26035	.01122	.01484	.05946	.10826	.08457	.00452	-.01329
.981	-6.837	-0.50426	.19409	.01089	.01484	.05766	.10363	.08199	.00436	-.01329
.980	-4.630	-0.34857	.13603	.01058	.01484	.05601	.09933	.07947	.00425	-.01329
.981	-2.413	-0.20593	.08315	.01033	.01484	.05478	.09674	.07842	.00417	-.01329
.980	-.203	-.06331	.02482	.01047	.01484	.05557	.09892	.07687	.00424	-.01329
.981	1.963	.07844	-.04149	.01090	.01484	.05782	.09439	.07649	.00441	-.01329
.980	4.184	.22015	-.10236	.01115	.01484	.05919	.09590	.08120	.00452	-.01329
.980	6.363	.35493	-.15690	.01084	.01484	.05760	.09243	.08370	.00441	-.01329
.980	8.542	.49054	-.21277	.01069	.01484	.05690	.09210	.08911	.00436	-.01329
.979	10.705	.60893	-.25547	.01128	.01484	.05988	.09834	.09269	.00456	-.01329
GRADIENT		.06461	-.02733	.00008	.00000	.00043	-.00051	.00007	.00004	-.00000

RUN NO. 41/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CAF	CLMF	CNBO	CNBF	CABO	CABET	CABSRR	CLMBO	CLMBF
1.130	-11.592	-0.91986	.36972	.01106	.01654	.05843	.10230	.09078	.00441	-.01704
1.131	-9.273	-0.71497	.28265	.01067	.01654	.05625	.09900	.08787	.00422	-.01704
1.130	-6.960	-.53327	.21313	.01039	.01654	.05473	.09410	.08407	.00411	-.01704
1.130	-4.711	-.36197	.14727	.01021	.01654	.05378	.09171	.08222	.00403	-.01704
1.130	-2.467	-.19645	.07933	.01001	.01654	.05277	.09144	.08028	.00397	-.01704
1.130	-.236	-.04671	.01826	.00987	.01654	.05217	.09030	.07888	.00395	-.01704
1.130	1.990	.09104	-.04310	.00990	.01654	.05240	.08940	.07804	.00396	-.01704
1.130	4.173	.22970	-.10465	.00990	.01654	.05244	.08907	.07960	.00396	-.01704
1.130	6.378	.37122	-.16647	.00989	.01654	.05238	.08909	.08165	.00396	-.01704
1.130	8.586	.49209	-.21921	.00990	.01654	.05235	.08938	.08516	.00401	-.01704
1.130	10.782	.60563	-.24854	.00979	.01654	.05209	.09075	.08688	.00400	-.01704
GRADIENT		.06618	-.02817	-.00003	-.00000	-.00014	-.00105	-.00034	-.00000	-.00000

ORIGINAL PAGE IS  
 OF POOR QUALITY

LARC 6-TPT-693 (1A43) CONFIGURATION 02/74/57

(AWC010) ( 05 FEB 75 )

REFERENCE DATA

MREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 40/ 0 RIVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CVF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.658	-.92957	.37613	.25978	.01116	.01548	.05808	.09918	.08791	-.00448	-.01595
1.201	-9.332	-.71585	.26276	.26499	.01058	.01548	.05378	.09478	.08678	-.00419	-.01595
1.251	-7.003	-.52472	.20667	.26736	.01028	.01548	.05414	.09094	.08379	-.00406	-.01595
1.200	-4.714	-.34392	.13297	.26950	.01012	.01548	.05326	.08679	.08127	-.00398	-.01595
1.200	-2.469	-.18140	.06504	.27204	.00997	.01548	.05246	.08443	.07877	-.00392	-.01595
1.200	-.235	-.02999	.00484	.27169	.00969	.01548	.05113	.08380	.07689	-.00385	-.01595
1.200	1.959	.09799	-.04832	.26905	.00962	.01548	.05083	.08118	.07586	-.00384	-.01595
1.200	4.180	.23480	-.10825	.26690	.00957	.01548	.05047	.07832	.07735	-.00380	-.01595
1.200	6.407	.37281	-.16713	.26181	.00932	.01548	.05015	.07515	.07925	-.00376	-.01595
1.200	8.592	.50303	-.22169	.25735	.00946	.01548	.04985	.07317	.08224	-.00374	-.01595
1.200	10.815	.62929	-.26261	.24884	.00951	.01548	.05022	.07348	.08398	-.00379	-.01595
GRADIENT		.06469	-.02682	-.00037	-.00000	-.00000	-.00032	-.00091	-.00048	-.00002	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = 8.000 ELV-RI = 8.000  
ELV-RO = .000 RUDDER = .000  
SPDRBK = .000 BOFLAP = .000

REFERENCE DATA

MREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 47/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CVF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.123	-.78517	.29739	.13945	.00951	.01351	.05087	.09927	.07111	-.00396	-.01393
.900	-8.922	-.60756	.21994	.14483	.00918	.01351	.04900	.09309	.06899	-.00380	-.01393
.901	-6.699	-.44865	.15408	.14772	.00898	.01351	.04795	.08769	.06577	-.00371	-.01393
.899	-4.500	-.29809	.09448	.14592	.00870	.01351	.04643	.08399	.06255	-.00359	-.01393
.899	-2.335	-.16037	.03531	.14388	.00843	.01351	.04502	.08072	.06146	-.00349	-.01393
.899	-.153	-.01397	-.03538	.14101	.00831	.01351	.04451	.07742	.05969	-.00347	-.01393
.899	2.027	.11932	-.09117	.14033	.00832	.01351	.04448	.07713	.05816	-.00346	-.01393
.899	4.191	.25062	-.13980	.13740	.00818	.01351	.04361	.07834	.06149	-.00336	-.01393
.899	6.379	.38253	-.18846	.13098	.00800	.01351	.04259	.07680	.06437	-.00328	-.01393
.899	8.532	.50556	-.23506	.12669	.00794	.01351	.04235	.07717	.06760	-.00328	-.01393
.900	10.695	.62563	-.27776	.12444	.00799	.01351	.04232	.07985	.06977	-.00326	-.01393
GRADIENT		.06333	-.02737	-.00096	-.00000	-.00000	-.00028	-.00069	-.00025	-.00002	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
ELV-LI = 8.000 ELV-RI = 8.000  
ELV-RO = 4.000 RUDDER = .000  
SPDRBK = .000 BOFLAP = .000

LARC 6-TPT-693 (1A43) CONFIGURATION 02/74/57

(AWC011) ( 05 FEB 75 )





LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/87

(AMC011) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 IN. FT.    TRIP = 976.0000 IN. XT  
 CLIF = 1290.3000 INCHES    TRIP = .0000 IN. YT  
 SREF = 1290.3000 INCHES    TRIP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000    ELV-LO = 4.000  
 ELV-LI = 6.000    ELV-RI = 6.000  
 ELV-RO = 4.000    RUDDER = .000  
 SPOBRK = .000    BDFLAP = .000

RUN NO. 46/ 0    RW/L = 4.09    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIF	CLMF	CAF	CABO	CABF	CABO	CABET	CABSRB	CLMO	CLMBF
.901	-11.361	-0.6102	-33033	-18476	-01174	-01484	-06218	-11437	-06919	-00473	-01329
.901	-9.303	-0.63991	-24617	-19268	-01118	-01484	-05915	-10654	-08568	-00448	-01329
.901	-6.833	-0.49060	-18106	-19558	-01080	-01484	-05712	-10397	-08291	-00433	-01329
.901	-4.607	-0.33542	-12332	-19728	-01051	-01484	-05567	-10043	-08122	-00423	-01329
.901	-2.356	-0.16961	-06762	-19489	-01022	-01484	-05419	-09910	-07961	-00413	-01329
.901	-1.162	-0.04035	-00845	-19218	-01040	-01484	-05516	-09937	-07832	-00421	-01329
.900	2.200	-0.05885	-00894	-18894	-01079	-01484	-05721	-09418	-07702	-00436	-01329
.900	4.181	-0.23341	-11433	-18529	-01111	-01484	-05887	-09557	-08130	-00449	-01329
.900	6.376	-0.37121	-16947	-17736	-01079	-01484	-05732	-09240	-08593	-00439	-01329
.900	8.967	-0.50060	-22240	-16973	-01070	-01484	-05693	-09180	-08909	-00436	-01329
.900	10.745	-0.62442	-26802	-16203	-01136	-01484	-05041	-09784	-09349	-00464	-01329
GRADIENT		-0.06500	-0.02739	-0.00136	-0.00008	-0.00000	-0.00043	-0.00067	-0.00011	-0.00003	-0.00000

RUN NO. 45/ 0    RW/L = 4.21    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIF	CLMF	CAF	CABO	CABF	CABO	CABET	CABSRB	CLMO	CLMBF
1.129	-11.959	-0.90225	-35371	-24439	-01101	-01654	-05812	-10228	-09139	-00438	-01704
1.131	-9.282	-0.70448	-27176	-25112	-01072	-01654	-05638	-09932	-08839	-00422	-01704
1.131	-6.983	-0.51885	-20200	-25281	-01040	-01654	-05470	-09434	-08456	-00409	-01704
1.131	-4.705	-0.34925	-13960	-25326	-01020	-01654	-05368	-09180	-08308	-00402	-01704
1.131	-2.439	-0.18177	-06832	-25413	-01021	-01654	-05276	-09151	-08144	-00396	-01704
1.130	-0.226	-0.03106	-00495	-25484	-00985	-01554	-05211	-09038	-07990	-00395	-01704
1.131	1.980	-0.0521	-00457	-25432	-00990	-01654	-05240	-08821	-07887	-00397	-01704
1.131	4.188	-0.2442	-11617	-25193	-00990	-01654	-05239	-08286	-07991	-00398	-01704
1.130	6.419	-0.36490	-17715	-24662	-00988	-01654	-05231	-07909	-08180	-00397	-01704
1.131	8.602	-0.50707	-22960	-23953	-00993	-01654	-05269	-07711	-08530	-00402	-01704
1.130	10.802	-0.61945	-25831	-22844	-00981	-01654	-05220	-07986	-08691	-00401	-01704
GRADIENT		-0.06639	-0.02810	-0.00011	-0.00000	-0.00000	-0.00013	-0.00109	-0.00040	-0.00000	-0.00000

DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/87

(AMC011) ( 05 FEB 75 )

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 8.000 ELV-RI = 8.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

REFERENCE DATA

REF = 2890.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 44/ 0 RVL = 4.21 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABO	CABET	CASRB	CLMBO	CLMBF
1.200	-11.642	-91837	36652	26100	.01114	.01548	.05894	.09934	.06826	.00446	-.01593
1.208	-9.312	-70079	27051	26676	.01037	.01346	.05267	.09463	.08724	.00417	-.01593
1.206	-7.019	-51176	19556	26970	.01027	.01548	.05407	.09032	.08410	.00404	-.01593
1.200	-4.718	-33104	12117	27033	.01014	.01548	.05333	.08718	.08213	.00399	-.01593
1.200	-2.458	-16749	65398	27309	.00997	.01548	.05296	.08473	.07978	.00393	-.01593
1.203	-.227	-01837	-.00514	27356	.00970	.01548	.05116	.08372	.07778	.00385	-.01593
1.201	1.990	-11162	-.05923	27110	.00962	.01548	.05081	.08065	.07650	.00364	-.01593
1.201	4.169	-24673	-.11815	26989	.00957	.01548	.05047	.07830	.07746	.00360	-.01593
1.201	6.403	-38206	-.17498	26424	.00930	.01548	.05003	.07475	.07824	.00373	-.01593
1.201	8.611	-51368	-.23027	25970	.00946	.01548	.04981	.07243	.08241	.00373	-.01593
1.200	10.844	-63931	-.27108	25377	.00930	.01548	.04930	.07260	.08390	.00379	-.01593
GRADIENT		.08448	-.02659	-.30022	-.00000	.00000	-.00034	-.00098	-.00057	-.00002	-.00000

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/87

(AMC012) ( 05 FEB 75 )

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 8.000 ELV-RI = 8.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

REFERENCE DATA

REF = 2890.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 51/ 0 RVL = 3.96 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMB	CMBF	CABO	CABET	CASRB	CLMBO	CLMBF
.900	-11.131	-77829	29111	14179	.00945	.01351	.05032	.09949	.07164	.00393	-.01393
.900	-8.904	-59373	21151	14693	.00910	.01351	.04856	.09336	.06957	.00376	-.01393
.900	-6.707	-44531	15108	14830	.00896	.01351	.04786	.08818	.06598	.00371	-.01393
.901	-4.512	-29396	99127	14721	.00872	.01351	.04655	.08437	.06304	.00360	-.01393
.903	-2.332	-15512	63162	14522	.00841	.01351	.04482	.08057	.06135	.00348	-.01393
.903	-.135	-.00212	-.04415	14375	.00825	.01351	.04422	.07695	.05976	.00344	-.01393
.903	2.031	13999	-.10583	14343	.00825	.01351	.04411	.07665	.05844	.00343	-.01393
.903	4.201	26820	-.15521	13937	.00821	.01351	.04377	.07811	.06151	.00338	-.01393
.903	6.377	39593	-.20007	13320	.00800	.01351	.04299	.07660	.06410	.00328	-.01393
.899	8.527	51769	-.24639	12936	.00792	.01351	.04224	.07667	.06686	.00327	-.01393
.903	10.691	63772	-.28633	12631	.00803	.01351	.04265	.08013	.06965	.00327	-.01393
GRADIENT		.06333	-.02898	-.00083	-.00000	.00000	-.00029	-.00076	-.00028	-.00002	-.00000



REFERENCE DATA  
 BETA = .000 ELV-LO = 8.000  
 ELV-LI = 8.000 ELV-RI = 8.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

PARAMETRIC DATA

MACN	ALPHA	CLWF	CAF	CBO	CMBF	CABO	CABSET	CABSRB	CLMBO	CLMBF
981	-11.357	.32156	.18603	.01178	.01484	.06236	.11504	.09046	.00474	-.01529
981	-9.254	.23784	.19305	.01117	.01484	.05907	.10872	.08647	.00447	-.01529
981	-6.037	.17359	.19701	.01075	.01484	.05689	.10386	.08329	.00431	-.01529
981	-4.607	.11156	.19885	.01042	.0134	.05522	.10050	.08149	.00420	-.01529
981	-2.395	.05662	.19718	.01017	.01484	.05393	.09897	.08011	.00411	-.01529
981	-.201	-.02796	.19469	.01037	.01484	.05300	.09872	.07897	.00419	-.01529
981	1.987	.10338	.19176	.01075	.01484	.05700	.09422	.07806	.00434	-.01529
981	4.183	.24873	.18741	.01103	.01484	.05854	.09591	.08162	.00447	-.01529
981	6.369	.37936	.17935	.01077	.01484	.05729	.09228	.08613	.00440	-.01529
983	8.567	.51438	.17152	.01072	.01484	.05712	.09149	.08919	.00440	-.01529
983	10.733	.63943	.16238	.01144	.01484	.06099	.09765	.09400	.00470	-.01529
GRADIENT		.06466	-.00129	.00008	.00000	.00044	-.00072	-.00008	.00004	.00000

MACN	ALPHA	CLWF	CAF	CBO	CMBF	CABO	CABSET	CABSRB	CLMBO	CLMBF
1.131	-11.578	.34869	.24849	.01107	.01654	.05843	.10227	.09162	.00440	-.01704
1.130	-9.254	.26446	.25090	.01078	.01654	.05677	.09884	.08931	.00426	-.01704
1.130	-6.971	.19302	.23347	.01042	.01654	.05484	.09453	.08327	.00410	-.01704
1.130	-4.691	.12368	.23468	.01021	.01654	.05376	.09203	.08374	.00402	-.01704
1.130	-2.453	.05754	.25600	.00997	.01654	.05260	.09157	.08222	.00395	-.01704
1.130	-.224	-.00167	.25590	.00984	.01654	.05206	.09023	.08077	.00395	-.01704
1.131	1.983	.11269	.25677	.00989	.01654	.05234	.08910	.07965	.00397	-.01704
1.131	4.187	.24846	.25422	.00969	.01654	.05235	.08663	.08020	.00397	-.01704
1.130	6.401	.38977	.24836	.00990	.01654	.05245	.07848	.08208	.00398	-.01704
1.129	8.603	.51189	.24035	.00994	.01654	.05276	.07704	.08309	.00403	-.01704
1.130	10.798	.62786	.23036	.00981	.01654	.05218	.07941	.08684	.00401	-.01704
GRADIENT		.06324	-.02740	-.00003	.00000	-.00014	-.00114	-.00044	-.00000	.00000

LARC 8-TFT-693 (1A43) CONFIGURATION 02/T4/S7

(AHK012) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 50.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 8.000 ELV-RI = 8.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRBK = .000 BOFLAP = .000

RUN NO. 48/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CNO	CNBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.201	-11.647	-.80972	.35799	.26195	.01118	.01548	.09913	.09933	.08879	.00448	-.01595
1.201	-9.314	-.69115	.26198	.26805	.01061	.01548	.05594	.09461	.08757	.00418	-.01595
1.200	-7.026	-.50131	.18636	.27028	.01031	.01548	.05425	.09087	.08482	.00406	-.01595
1.200	-4.735	-.32414	.11424	.27271	.01016	.01548	.05342	.08591	.08239	.00398	-.01595
1.200	-2.486	-.16186	.04832	.27532	.01000	.01548	.05264	.08456	.08027	.00393	-.01595
1.200	-.225	-.01249	-.01057	.27550	.00971	.01548	.05126	.08362	.07836	.00386	-.01595
1.200	1.985	-.11909	-.06542	.27250	.00963	.01548	.05091	.08105	.07703	.00385	-.01595
1.200	4.182	-.25232	-.12294	.27072	.00957	.01548	.05049	.07796	.07796	.00380	-.01595
1.200	6.408	-.38922	-.18080	.26616	.00952	.01548	.05013	.07472	.07934	.00376	-.01595
1.200	8.613	-.51805	-.23477	.26089	.00947	.01548	.04988	.07256	.08236	.00374	-.01595
1.200	10.837	-.64355	-.27376	.25164	.00951	.01548	.05019	.07278	.08991	.00378	-.01595
GRADIENT		.06436	-.02639	-.00030	-.00007	-.00000	-.00034	-.00096	-.00034	-.00002	.00000

LARC 8-TFT-693 (1A43) CONFIGURATION 02/T4/S7

(AHK013) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 50.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRBK = .000 BOFLAP = .000

RUN NO. 55/ 0 RIVL = 3.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CNO	CNBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.147	-.79129	.30234	.13644	.00963	.01351	.03169	.10009	.07188	.00405	-.01393
.901	-8.922	-.61095	.22382	.14155	.00925	.01351	.04958	.09389	.06958	.00387	-.01393
.901	-6.750	-.43378	.15925	.14488	.00901	.01351	.04829	.08789	.06593	.00377	-.01393
.901	-4.514	-.30470	.09930	.14388	.00865	.01351	.04629	.08415	.06280	.00360	-.01393
.900	-2.345	-.16347	.03971	.14155	.00835	.01351	.04465	.08107	.06161	.00348	-.01393
.901	-.177	-.02009	-.05047	.13936	.00819	.01351	.04349	.07793	.06063	.00344	-.01393
.900	2.009	-.12024	-.09103	.13806	.00811	.01351	.04349	.07723	.05916	.00340	-.01393
.900	4.169	-.24682	-.13675	.13534	.00800	.01351	.04272	.07636	.06291	.00331	-.01393
.900	6.330	-.37153	-.18102	.12948	.00782	.01351	.04178	.07722	.06529	.00324	-.01393
.901	8.506	-.49771	-.22971	.12604	.00778	.01351	.04165	.07741	.06631	.00323	-.01393
.900	10.873	-.61735	-.27119	.12294	.00785	.01351	.04201	.07987	.07051	.00326	-.01393
GRADIENT		.06385	-.02781	-.00095	-.00007	-.00000	-.00038	-.00071	-.00010	-.00003	.00000



DATE 04 APR 75

TABULATED SOURCE DATA - LARC 693 (IA43)

(AMC013) ( 05 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/37

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPBRK = .000 BDFLAP = .000

REFERENCE DATA

SHEP = 2690.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES VMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 54/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CBEF	CABO	CABET	CABSRB	CLMBO	CLMEF
.980	-11.366	-8.6113	.33200	.18286	.01154	.01484	.06154	.11400	.08921	.00475	-.01529
.981	-9.583	-6.6085	.24811	.19080	.01111	.01484	.05913	.10616	.08592	.00454	-.01529
.981	-6.851	-4.9142	.18232	.19304	.01078	.01484	.05728	.10345	.08343	.00438	-.01529
.981	-4.626	-3.3315	.12313	.19470	.01050	.01484	.05564	.10030	.08182	.00424	-.01529
.981	-2.412	-1.8641	.05592	.19337	.01018	.01484	.05396	.09886	.08056	.00411	-.01529
.981	-.209	-.04149	.00676	.19081	.01023	.01484	.05233	.09869	.07963	.00415	-.01529
.983	1.975	.09733	-.05724	.18780	.01053	.01484	.05641	.09435	.07852	.00431	-.01529
.980	4.156	.23069	-.11332	.18450	.01091	.01484	.05795	.09255	.08255	.00443	-.01529
.980	6.331	.36426	-.16430	.17476	.01074	.01484	.05710	.09283	.08678	.00438	-.01529
.983	8.538	.49739	-.21823	.16825	.01055	.01484	.05616	.09232	.08954	.00432	-.01529
.983	10.712	.61751	-.26193	.16145	.01108	.01484	.05693	.09228	.09372	.00452	-.01529
.983	GRADIENT	.06448	-.02715	-.00118	.00000	.00000	.00032	-.00061	-.00000	.00000	-.00000

RUN NO. 53/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CBEF	CABO	CABET	CABSRB	CLMBO	CLMEF
1.129	-11.593	-9.0812	.36058	.24305	.01094	.01654	.05941	.10222	.09177	.00452	-.01704
1.131	-9.276	-7.0626	.27693	.24896	.01067	.01654	.05670	.09630	.08879	.00434	-.01704
1.130	-6.979	-5.1920	.20408	.25055	.01026	.01654	.05440	.09430	.08549	.00415	-.01704
1.130	-4.724	-3.4975	.13657	.25098	.01000	.01654	.05301	.09173	.08433	.00403	-.01704
1.130	-2.472	-1.8566	.06948	.25194	.00984	.01654	.05205	.09155	.08318	.00394	-.01704
1.130	-.243	-.03778	.00974	.25366	.00967	.01654	.05107	.09045	.08164	.00385	-.01704
1.130	1.974	.09859	-.04943	.25171	.00974	.01654	.05142	.08965	.08065	.00388	-.01704
1.130	4.178	.23550	-.10963	.25026	.00980	.01654	.05175	.08887	.08075	.00390	-.01704
1.130	6.380	.37487	-.16963	.24495	.00988	.01654	.05218	.08861	.08243	.00394	-.01704
1.129	8.575	.49787	-.21859	.23776	.00996	.01654	.05267	.08870	.08543	.00399	-.01704
1.129	10.716	.61128	-.26393	.22723	.00961	.01654	.05105	.08888	.08708	.00391	-.01704
1.129	GRADIENT	.05539	-.02748	-.00007	-.00000	-.00000	-.00014	-.00094	-.00044	-.00001	-.00000

TABLATED SOURCE DATA - LARC 693 (IA43)  
LARC 8-TFT-693 (IA43) CONFIGURATION 02/T4/S7

(AMC013) ( 05 FEB 75 )

REFERENCE DATA

MACH = 2.690.0000 50.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 0.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 0.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

GRADIENT DATA

RUN NO. 52/ 0 RIVL = 4.22 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CNF	CLMF	CAF	CBO	CNBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.678	-.92566	.37149	-.25974	.01121	-.01548	.06013	.09891	-.08823	.00471	-.01595
1.201	-9.331	-.70524	.27524	-.26522	-.01062	-.01548	-.05652	.09421	-.08724	.00435	-.01595
1.200	-7.027	-.51705	-.20015	-.26796	-.01022	-.01548	-.05420	.09021	-.08440	.00413	-.01595
1.200	-4.744	-.33736	-.12616	-.26918	-.00999	-.01548	-.05230	.08674	-.08288	.00402	-.01595
1.200	-2.486	-.17537	-.05956	-.27147	-.00976	-.01548	-.05154	.08455	-.08092	.00389	-.01595
1.200	-.243	-.02376	-.00035	-.27207	-.00954	-.01548	-.05027	.08390	-.07898	.00378	-.01595
1.200	1.364	.10368	-.05266	-.26964	-.00945	-.01548	-.04883	.08129	-.07746	.00374	-.01595
1.200	4.171	.23781	-.11088	-.26825	-.00945	-.01548	-.04974	.07860	-.07817	.00373	-.01595
1.200	6.387	.37431	-.16061	-.26328	-.00943	-.01548	-.04959	.07516	-.07906	.00372	-.01595
1.200	8.534	.50603	-.22425	-.25842	-.00946	-.01548	-.04984	.07280	-.08258	.00374	-.01595
1.200	10.604	.62708	-.26121	-.24869	-.00948	-.01548	-.05022	.07355	-.08391	.00376	-.01595
GRADIENT		.06423	-.02632	-.00016	-.00000	-.00000	-.00036	-.00088	-.00058	-.00000	-.00000

REFERENCE DATA

MACH = 2.690.0000 50.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

GRADIENT DATA

RUN NO. 59/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNF	CLMF	CAF	CBO	CNBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.144	-.79684	.30940	.13467	.03958	.01351	.03149	.09895	-.07062	.00405	-.01393
1.201	-8.925	-.61984	.23219	.14062	-.00926	-.01251	.04970	.09774	-.06856	.00390	-.01393
1.200	-6.721	-.43780	-.16256	.14242	-.00901	.01351	.04837	.08764	-.06558	.00380	-.01393
1.200	-4.529	-.31012	-.10330	.14275	-.00868	.01351	.04648	.08431	-.06270	.00363	-.01393
1.200	-2.338	-.16692	-.04173	.14065	-.00834	.01351	.04467	.08079	-.06143	.00348	-.01393
1.200	-.183	-.02800	-.02474	.13884	-.00817	.01351	.04388	.07763	-.06028	.00344	-.01393
1.200	1.366	.10294	-.07678	.13672	-.00816	.01351	.04372	.07759	-.05894	.00342	-.01393
1.201	4.129	.22748	-.11964	.13377	-.00796	.01351	.04252	.07807	-.05627	.00330	-.01393
1.201	6.332	.35402	-.16480	.12874	-.00779	.01351	.04158	.07741	-.05541	.00322	-.01393
1.201	8.511	.48371	-.21593	.12454	-.00777	.01351	.04157	.07765	-.05694	.00324	-.01393
1.201	10.662	.60283	-.26816	.12070	-.00785	.01351	.04234	.08014	-.05789	.00327	-.01393
GRADIENT		.06193	-.02601	-.00000	-.00000	-.00000	-.00041	-.00055	-.00000	-.00000	-.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

GRADIENT DATA

RUN NO. 59/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNF	CLMF	CAF	CBO	CNBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.144	-.79684	.30940	.13467	.03958	.01351	.03149	.09895	-.07062	.00405	-.01393
1.201	-8.925	-.61984	.23219	.14062	-.00926	-.01251	.04970	.09774	-.06856	.00390	-.01393
1.200	-6.721	-.43780	-.16256	.14242	-.00901	.01351	.04837	.08764	-.06558	.00380	-.01393
1.200	-4.529	-.31012	-.10330	.14275	-.00868	.01351	.04648	.08431	-.06270	.00363	-.01393
1.200	-2.338	-.16692	-.04173	.14065	-.00834	.01351	.04467	.08079	-.06143	.00348	-.01393
1.200	-.183	-.02800	-.02474	.13884	-.00817	.01351	.04388	.07763	-.06028	.00344	-.01393
1.200	1.366	.10294	-.07678	.13672	-.00816	.01351	.04372	.07759	-.05894	.00342	-.01393
1.201	4.129	.22748	-.11964	.13377	-.00796	.01351	.04252	.07807	-.05627	.00330	-.01393
1.201	6.332	.35402	-.16480	.12874	-.00779	.01351	.04158	.07741	-.05541	.00322	-.01393
1.201	8.511	.48371	-.21593	.12454	-.00777	.01351	.04157	.07765	-.05694	.00324	-.01393
1.201	10.662	.60283	-.26816	.12070	-.00785	.01351	.04234	.08014	-.05789	.00327	-.01393
GRADIENT		.06193	-.02601	-.00000	-.00000	-.00000	-.00041	-.00055	-.00000	-.00000	-.00000



## LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/87

(ANCO14) ( 03 FEB 75 )

## REFERENCE DATA

MEF = 2690.0000 96. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BD'FLAP = .000

RUN NO. 56/ 0 RVL = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CBF	CBO	CABO	CABET	CABSRB	CLMBO	CLMBF
.961	-11.379	-0.8722	.34390	.16072	.01164	-.01484	.06216	.11393	.06691	.00462	.00462	-.01329
.961	-9.090	-0.67355	.25856	.16631	.01115	-.01484	.05943	.10762	.08488	.00438	.00438	-.01329
.961	-6.836	-0.50387	.19420	.19096	.01082	-.01484	.05753	.10297	.06229	.00442	.00442	-.01329
.961	-4.634	-0.34901	.13474	.19276	.01054	-.01484	.05593	.09983	.06070	.00427	.00427	-.01329
.960	-2.421	-0.20213	.07868	.19030	.01026	-.01484	.05439	.09638	.07891	.00414	.00414	-.01329
.961	-.219	-0.0717	.01951	.18873	.01034	-.01484	.05489	.09862	.07819	.00419	.00419	-.01329
.961	1.979	.08305	-.04635	.18536	.01076	-.01484	.05713	.09461	.07790	.00437	.00437	-.01329
.961	4.148	.21781	-.10253	.18223	.01104	-.01484	.05859	.09637	.06305	.00440	.00440	-.01329
.961	6.345	.35354	-.15478	.17509	.01080	-.01484	.05739	.09313	.06712	.00448	.00448	-.01329
.960	8.528	.48317	-.20632	.16747	.01061	-.01484	.05642	.09273	.06993	.00433	.00433	-.01329
.960	10.718	.60708	-.25181	.15986	.01109	-.01484	.05697	.09902	.09346	.00452	.00452	-.01329
GRADIENT		.06469	-.02730	-.00119	.00000	-.00000	.00000	-.00049	.00017	.00000	.00000	.00000

RUN NO. 57/ 0 RVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CBF	CBO	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.601	-0.91973	.37103	.24229	.01094	-.01654	.05843	.10203	.09096	.00453	.00453	-.01704
1.129	-9.291	-0.71742	.28654	.24631	.01066	-.01654	.05675	.09850	.08846	.00436	.00436	-.01704
1.130	-7.000	-0.53347	.21540	.24863	.01025	-.01654	.05441	.09454	.08469	.00416	.00416	-.01704
1.130	-4.709	-0.36125	.14740	.24922	.01002	-.01654	.05311	.09159	.08350	.00404	.00404	-.01704
1.130	-2.489	-0.19828	.08222	.24996	.00985	-.01654	.05211	.08135	.08213	.00395	.00395	-.01704
1.130	-.238	-0.04638	.01822	.25159	.00967	-.01654	.05108	.08036	.08060	.00385	.00385	-.01704
1.130	1.939	.06826	-.04074	.24974	.00974	-.01654	.05143	.08677	.07990	.00368	.00368	-.01704
1.129	4.172	.22597	-.10139	.24827	.00983	-.01654	.05186	.08406	.08039	.00391	.00391	-.01704
1.130	6.389	.36913	-.16390	.24293	.00987	-.01654	.05214	.07999	.08225	.00384	.00384	-.01704
1.132	8.571	.49072	-.21241	.23692	.00992	-.01654	.05249	.07753	.08496	.00398	.00398	-.01704
1.130	10.779	.60183	-.24273	.22635	.00959	-.01654	.05097	.08183	.08706	.00380	.00380	-.01704
GRADIENT		.06388	-.02766	-.00009	-.00000	-.00000	-.00014	-.00088	-.00036	-.00001	-.00001	.00000

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TABULATED SOURCE DATA - LARC 693 (1A43)

DATE 04 APR 75

(AMC014) ( 05 FEB 75 )

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/87

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 56/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CBO	CBF	CBO	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.671	-.93370	.37982	.25942	.01124	.01948	.06032	.09910	.08792	.00473	.00473	-.01999
1.199	-9.338	-.71762	.89323	.26344	.01066	.01548	.05673	.09467	.08708	.00436	.00436	-.01999
1.201	-7.037	-.52903	.21016	.26702	.01021	.01948	.05415	.09226	.08394	.00413	.00413	-.01999
1.200	-4.747	-.34682	.13521	.26793	.00996	.01548	.05273	.08659	.08223	.00400	.00400	-.01999
1.201	-2.480	-.18384	.06762	.26987	.00975	.01948	.05131	.08466	.08031	.00389	.00389	-.01999
1.200	-.249	-.03431	.00831	.27041	.00953	.01548	.05022	.08406	.07815	.00377	.00377	-.01999
1.200	1.950	.09627	-.04363	.26792	.00946	.01548	.04985	.08154	.07692	.00374	.00374	-.01999
1.200	4.165	.22989	-.10405	.26694	.00945	.01548	.04977	.07881	.07798	.00373	.00373	-.01999
1.200	6.383	.35791	-.16296	.26102	.00945	.01548	.04978	.07555	.07593	.00373	.00373	-.01999
1.200	8.369	.49879	-.21622	.25678	.00946	.01548	.04968	.07330	.08243	.00375	.00375	-.01999
1.200	10.813	.62313	-.26657	.24736	.00950	.01548	.05015	.07400	.08383	.00377	.00377	-.01999
GRADIENT		.05440	-.02659	-.02226	-.00000	-.00000	-.00000	-.00084	-.00054	-.00003	-.00003	-.00000

(AMC015) ( 05 FEB 75 )

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/87

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 63/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CBO	CBF	CBO	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.161	-.82025	.32748	.13263	.00966	.01351	.03207	.09932	.07020	.00412	.00412	-.01393
1.200	-8.937	-.63772	.24690	.13608	.00933	.01351	.03022	.09361	.06845	.00397	.00397	-.01393
1.200	-6.731	-.47400	.17591	.14187	.00903	.01351	.02856	.08745	.06316	.00383	.00383	-.01393
1.201	-4.532	-.32013	.11340	.14203	.00869	.01351	.02682	.08413	.06234	.00365	.00365	-.01393
1.200	-2.345	-.17945	.05243	.13937	.00836	.01351	.02516	.08103	.06116	.00350	.00350	-.01393
1.200	-.188	-.03814	-.01551	.13733	.00816	.01351	.02356	.07786	.06026	.00345	.00345	-.01393
1.200	1.992	.09299	-.06798	.13609	.00809	.01351	.02200	.07796	.05918	.00339	.00339	-.01393
1.200	4.143	.20448	-.10117	.13313	.00796	.01351	.02050	.07948	.06297	.00330	.00330	-.01393
1.200	6.327	.33427	-.14739	.12769	.00775	.01351	.01911	.07773	.06594	.00321	.00321	-.01393
1.200	8.486	.46211	-.19823	.12279	.00770	.01351	.01814	.07783	.06934	.00322	.00322	-.01393
1.200	10.656	.59038	-.24020	.11945	.00787	.01351	.01814	.08045	.07142	.00329	.00329	-.01393
GRADIENT		.06095	-.02334	-.02097	-.00000	-.00000	-.00045	-.00036	-.00003	-.00003	-.00003	-.00000





LARC 8-TFT-693 (IA43) CONFIGURATION 08/74/87

(AMC015) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 98. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 62/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MAON	ALPHA	CF	CLMF	CAF	CBO	CBEF	CABO	CABET	CABSRB	CLMBO	CLMBF
.980	-11.390	-69295	.35946	.17635	.01166	.01484	.06246	.11343	.08743	.00488	-.01529
.981	-9.108	-68775	.27161	.18712	.01124	.01484	.06003	.10768	.08435	.00468	-.01529
.981	-6.865	-51889	.20708	.19018	.01090	.01484	.05811	.10293	.08167	.00449	-.01529
.981	-4.630	-36331	.14807	.19161	.01061	.01484	.05642	.09959	.08001	.00432	-.01529
.981	-2.433	-21820	.09280	.18938	.01039	.01484	.05515	.09849	.07846	.00421	-.01529
.981	-.226	-07218	.03332	.18661	.01049	.01484	.05370	.09968	.07755	.00426	-.01529
.980	1.962	.07374	-.03329	.18366	.01083	.01484	.05754	.09462	.07723	.00440	-.01529
.980	4.140	.20166	-.08790	.17998	.01109	.01484	.05891	.08708	.08268	.00451	-.01529
.980	6.338	.34238	-.14531	.17220	.01085	.01484	.05768	.08318	.08681	.00442	-.01529
.980	8.529	.46924	-.19479	.16600	.01079	.01484	.05634	.08284	.08972	.00433	-.01529
.980	10.759	.59342	-.24009	.15954	.01106	.01484	.05878	.09941	.09343	.00450	-.01529
GRADIENT		.06472	-.02727	-.00131	.00006	.00000	.00000	-.00041	.00018	.00003	.00000

RUN NO. 61/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CF	CLMF	CAF	CBO	CBEF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.611	-93315	.36392	.24024	.01099	.01654	.05883	.10235	.09087	.00459	-.01704
1.131	-9.301	-73106	.29618	.24647	.01066	.01654	.05679	.09799	.08769	.00438	-.01704
1.130	-7.000	-54780	.22711	.24793	.01025	.01654	.05448	.09418	.08432	.00418	-.01704
1.130	-4.741	-37701	.15973	.24757	.01006	.01654	.05340	.09167	.08313	.00408	-.01704
1.129	-2.487	-21167	.09214	.24832	.00986	.01654	.05223	.09141	.08162	.00396	-.01704
1.129	-.255	-06048	.02996	.24966	.00971	.01654	.05130	.09059	.08012	.00388	-.01704
1.130	1.932	.07745	-.03048	.24793	.00978	.01654	.05163	.08674	.07950	.00390	-.01704
1.130	4.131	.21260	-.09103	.24735	.00981	.01654	.05181	.08398	.08029	.00391	-.01704
1.129	6.374	.36268	-.15588	.24147	.00988	.01654	.05225	.08027	.08241	.00395	-.01704
1.129	8.563	.48258	-.20553	.23575	.00995	.01654	.05267	.07811	.08569	.00400	-.01704
1.129	10.763	.59224	-.23415	.22498	.00958	.01654	.05092	.08230	.08716	.00380	-.01704
GRADIENT		.06609	-.02809	-.00006	-.00003	.00000	-.00017	-.00090	-.00035	-.00002	.00000

(AMC015) ( 05 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/57

PARAMETRIC DATA

REF = 2680.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SFD8RK = .000 BDFLAP = .000

RUN NO. 60/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CNO	CBF	CBO	CABT	CABSR8	CLM80	CLM8F
1.201	-11.685	-9.4966	.39243	.23806	.01127	.01548	.06043	.09910	.08742	.00473	-.01595
1.200	-9.351	-.73155	.29645	.26293	.01065	.01548	.05670	.09432	.08658	.00437	-.01595
1.200	-7.043	-.54012	.22009	.26327	.01020	.01548	.05421	.09042	.08375	.00415	-.01595
1.201	-4.757	-.36036	.14647	.26613	.00995	.01548	.05281	.08691	.08198	.00403	-.01595
1.200	-2.498	-.19546	.07720	.26769	.00975	.01548	.05157	.08477	.07997	.00390	-.01595
1.200	-.258	-.04638	.01795	.26852	.00952	.01548	.05021	.08405	.07783	.00378	-.01595
1.200	1.964	.08582	-.03770	.26502	.00946	.01548	.04906	.08233	.07672	.00375	-.01595
1.200	4.196	.21819	-.09506	.26432	.00943	.01548	.04970	.07926	.07762	.00373	-.01595
1.200	6.387	.35871	-.15514	.25919	.00942	.01548	.04961	.07606	.07978	.00372	-.01595
1.201	8.582	.48922	-.21018	.25539	.00944	.01548	.04977	.07363	.08256	.00374	-.01595
1.200	10.807	.61623	-.25115	.24661	.00950	.01548	.04914	.07405	.08382	.00378	-.01595
GRADIENT		.06460	-.02693	-.00028	-.00006	-.00000	-.00036	-.00080	-.00054	-.00003	-.00000

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/57

(AMC016) ( 05 FEB 75 )

PARAMETRIC DATA

REF = 2680.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFD8RK = .000 BDFLAP = .000

RUN NO. 68/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CVF	CLMF	CAF	CNO	CBF	CBO	CABT	CABSR8	CLM80	CLM8F
.600	-10.697	-.77529	.32674	.07504	.00750	.01060	.03953	.10196	.07847	.00297	-.01092
.600	-8.561	-.63214	.26833	.08205	.00729	.01060	.03647	.09789	.07539	.00290	-.01092
.600	-6.464	-.50117	.21996	.08926	.00706	.01060	.03724	.09364	.07259	.00280	-.01092
.600	-4.348	-.37448	.16829	.09280	.00686	.01060	.03622	.09040	.07119	.00273	-.01092
.598	-2.269	-.27131	.12333	.09199	.00677	.01060	.03574	.08854	.07118	.00270	-.01092
.600	-.175	-.13746	.08155	.09191	.00653	.01060	.03455	.08641	.07057	.00262	-.01092
.598	1.919	-.03735	.03432	.08653	.00646	.01060	.03415	.08395	.07093	.00258	-.01092
.600	4.056	.09151	-.01769	.08575	.00622	.01060	.03280	.08222	.07006	.00246	-.01092
.600	6.155	.20700	-.08255	.07737	.00607	.01060	.03217	.08143	.07098	.00244	-.01092
.599	8.258	.33452	-.11835	.06753	.00595	.01060	.03178	.07941	.07136	.00246	-.01092
.599	10.368	.46597	-.16999	.05597	.00579	.01060	.03090	.07669	.07260	.00239	-.01092
GRADIENT		.03554	-.02186	-.00084	-.00008	-.00000	-.00040	-.00100	-.00012	-.00003	-.00000



LARC 8-1PT-693 (1A43) CONFIGURATION 02/14/75

(AMC016) ( 03 FEB 75 )

## REFERENCE DATA

REF = 2880.0000 SQ. FT. YMRP = 976.0000 IN. XT  
 LREF = 1250.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1250.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BIDFLAP = .000

RUN NO. 67/ 0 RVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNF	CL <sub>α</sub>	CAF	CBO	CMBF	CBO	CABO	CABET	CABSR8	CLM60	CLMBF
.899	-11.260	-6.4978	.34063	.11620	.00963	.01351	.05320	.10729	.07336	.00425	.00425	-.01393
.899	-9.039	-6.6098	.27226	.12408	.00948	.01351	.05123	.10339	.07224	.00408	.00408	-.01393
.899	-6.834	-5.5248	.20970	.12778	.00907	.01351	.04860	.09925	.07075	.00395	.00395	-.01393
.900	-4.635	-3.7439	.14720	.13151	.00876	.01351	.04709	.09501	.06865	.00371	.00371	-.01393
.900	-2.434	-2.3437	.09139	.13478	.00850	.01351	.04561	.09207	.06686	.00358	.00358	-.01393
.899	-2.238	-0.9980	.03240	.13359	.00841	.01351	.04509	.08941	.06632	.00353	.00353	-.01393
.899	1.925	.05907	-.02761	.12985	.00828	.01351	.04443	.08609	.06609	.00346	.00346	-.01393
.899	4.111	.17147	-.07758	.12657	.00819	.01351	.04406	.08572	.07053	.00348	.00348	-.01393
.899	6.308	.30194	-.12369	.12200	.00791	.01351	.04280	.08437	.07372	.00342	.00342	-.01393
.900	8.489	.44379	-.18231	.11683	.00802	.01351	.04343	.08276	.07627	.00347	.00347	-.01393
.899	10.662	.56634	-.22677	.11369	.00832	.01351	.04452	.08694	.07352	.00347	.00347	-.01393
GRADIENT	.06247	-.02602	-.05068	-.00000	-.00006	-.00000	-.00000	-.00112	.00022	-.00000	-.00000	-.00000

RUN NO. 66/ 0 RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNF	CL <sub>α</sub>	CAF	CBO	CMBF	CBO	CABO	CABET	CABSR8	CLM60	CLMBF
.900	-11.337	-9.9731	.39295	.15967	.01283	.01526	.06946	.12089	.09069	.00529	.00529	-.01573
.902	-9.237	-7.5840	.31006	.16924	.01228	.01526	.06535	.11873	.08707	.00503	.00503	-.01573
.900	-6.936	-5.7141	.23366	.17244	.01139	.01526	.06064	.11382	.08684	.00467	.00467	-.01573
.901	-4.739	-4.0870	.16974	.17783	.01099	.01526	.05949	.10921	.08702	.00449	.00449	-.01573
.903	-2.499	-2.2529	.11091	.17813	.01078	.01526	.05733	.10650	.08734	.00440	.00440	-.01573
.900	-.266	-.10369	.05038	.17616	.01072	.01526	.05692	.10441	.08924	.00435	.00435	-.01573
.900	1.942	.04333	-.01305	.17271	.01082	.01526	.05746	.10240	.09251	.00439	.00439	-.01573
.900	4.122	.16274	-.07283	.17032	.01092	.01526	.05803	.10113	.09164	.00445	.00445	-.01573
.900	6.346	.32359	-.13391	.16576	.01117	.01526	.05954	.10081	.09362	.00459	.00459	-.01573
.900	8.534	.45789	-.18599	.15908	.01143	.01526	.06087	.09994	.09634	.00469	.00469	-.01573
.979	10.735	.59427	-.24056	.15235	.01167	.01526	.06229	.10021	.09934	.00462	.00462	-.01573
GRADIENT	.06685	-.02748	-.00000	-.00000	-.00001	-.00000	-.00004	-.00091	.00067	-.00000	-.00000	-.00000

TABLATED SOURCE DATA - LARC 693 (IA43)

(LANC016) ( 03 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/87

REFERENCE DATA

SREF = 2690.0000 96. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPOBRK = .000 BDFLAP = .000

RUN NO. 65/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.736	-9.8093	.40239	.21899	.01208	.01654	.06447	.10944	.09593	.00499	-.01704
1.131	-9.432	-7.7312	.31806	.23029	.01161	.01654	.06210	.10347	.09141	.00483	-.01704
1.131	-7.108	-5.8225	.23761	.23801	.01141	.01654	.06090	.09646	.08920	.00471	-.01704
1.130	-4.835	-4.0622	.16778	.24221	.01093	.01654	.05829	.09501	.08835	.00450	-.01704
1.130	-2.568	-2.4373	.10555	.24384	.01067	.01654	.05684	.09353	.08791	.00438	-.01704
1.133	-.295	-.09011	.04590	.24262	.01060	.01654	.05646	.09107	.08794	.00435	-.01704
1.130	1.936	.05680	-.01766	.24194	.01045	.01654	.05559	.08997	.08605	.00426	-.01704
1.130	4.145	.19765	-.08059	.23677	.01008	.01654	.05378	.08958	.08498	.00416	-.01704
1.130	6.354	.33686	-.14110	.23178	.01015	.01654	.05430	.08824	.08571	.00422	-.01704
1.130	8.593	.47651	-.19652	.22593	.01042	.01654	.05580	.08791	.08861	.00438	-.01704
1.129	10.803	.60530	-.24393	.21666	.01056	.01654	.05648	.08554	.08955	.00440	-.01704
GRADIENT		.05715	-.02759	-.00009	-.00000	-.00000	-.00046	-.00064	-.00038	-.00004	.00000

RUN NO. 64/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CMBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.804	-9.9304	.40817	.24141	.01194	.01548	.06377	.10115	.09545	.00494	-.01595
1.201	-9.468	-7.7716	.31735	.25027	.01155	.01548	.06172	.09605	.09237	.00479	-.01595
1.199	-7.141	-5.7441	.23080	.25674	.01134	.01548	.06061	.09176	.08961	.00471	-.01595
1.200	-4.862	-3.9795	.16019	.26119	.01076	.01548	.05758	.08933	.08765	.00448	-.01595
1.200	-2.562	-2.3117	.09449	.26253	.01053	.01548	.05622	.08748	.08653	.00435	-.01595
1.200	-.309	-.07615	.03407	.26128	.01038	.01548	.05529	.08544	.08577	.00426	-.01595
1.200	1.953	.07033	-.02634	.26051	.01028	.01548	.05457	.08448	.08369	.00417	-.01595
1.200	4.142	.20467	-.08495	.25613	.00999	.01548	.05316	.08412	.08256	.00406	-.01595
1.201	6.367	.34242	-.14405	.25136	.00982	.01548	.05286	.08206	.08293	.00408	-.01595
1.200	8.612	.47993	-.19706	.24411	.01036	.01548	.05379	.08239	.08537	.00416	-.01595
1.200	10.823	.61324	-.24782	.23713	.00998	.01548	.05341	.08008	.08670	.00416	-.01595
GRADIENT		.06693	-.02714	-.00034	-.00008	-.00000	-.00046	-.00060	-.00038	-.00004	.00000

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/75

(AMC017) ( 05 FEB 75 )

REFERENCE DATA

MACH = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 1:00ES YMRP = .0000 IN. YT  
 BRCF = 1290.3000 1:00ES ZMRP = 490.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

RUN NO. 73/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CIBF	CABO	CABET	CASRRB	CLMBO	CLMBF
.600	-10.687	-.75928	.32023	.08693	.00755	.01060	.04061	.10216	.06465	.00320	-.01092
.600	-8.564	-.62193	.26462	.09616	.00742	.01060	.03980	.09791	.06216	.00312	-.01092
.601	-6.466	-.48718	.20892	.10247	.00728	.01060	.03898	.09370	.05906	.00304	-.01092
.600	-4.340	-.36141	.15977	.10816	.00714	.01060	.03816	.09011	.05609	.00296	-.01092
.600	-2.266	-.25136	.11730	.11111	.00692	.01060	.03699	.08650	.05333	.00287	-.01092
.599	-.171	-.14273	.07693	.11110	.00674	.01060	.03599	.08454	.05030	.00274	-.01092
.600	1.929	-.02552	.03131	.10721	.00659	.01060	.03525	.08237	.04740	.00272	-.01092
.600	4.040	.09443	-.01619	.10070	.00648	.01060	.03478	.08198	.04585	.00267	-.01092
.599	6.118	.21033	-.06258	.09141	.00636	.01060	.03413	.08175	.04537	.00267	-.01092
.599	8.246	.34190	-.11731	.07967	.00616	.01060	.03288	.08152	.04589	.00255	-.01092
.600	10.343	.46863	-.16876	.06799	.00588	.01060	.03147	.08052	.04610	.00245	-.01092
GRADIENT		.05429	-.02090	-.02090	-.02090	.00000	-.00041	-.00097	.00008	-.00003	-.00000

RUN NO. 72/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CIBF	CABO	CABET	CASRRB	CLMBO	CLMBF
.900	-11.234	-.82077	.34128	.13368	.01031	.01351	.05555	.10598	.06254	.00439	-.01393
.900	-9.027	-.66452	.25957	.14286	.00998	.01351	.05358	.10012	.06203	.00420	-.01393
.900	-6.812	-.50852	.19739	.14705	.00959	.01351	.05143	.09646	.05981	.00402	-.01393
.900	-4.610	-.35908	.13926	.14860	.00930	.01351	.04980	.09319	.05803	.00388	-.01393
.900	-2.430	-.21976	.08396	.15147	.00895	.01351	.04785	.08954	.05713	.00372	-.01393
.900	-.249	-.08287	.02452	.14933	.00887	.01351	.04745	.08710	.05689	.00369	-.01393
.900	1.939	.04875	-.02965	.14900	.00873	.01351	.04673	.08458	.05621	.00364	-.01393
.901	4.130	.17775	-.07823	.14035	.00862	.01351	.04611	.08465	.06407	.00358	-.01393
.900	6.293	.30763	-.12649	.13649	.00827	.01351	.04421	.08433	.06498	.00344	-.01393
.900	8.491	.44291	-.17777	.13342	.00826	.01351	.04416	.08503	.06732	.00343	-.01393
.900	10.668	.57933	-.22709	.12689	.00830	.01351	.04434	.08533	.06958	.00344	-.01393
GRADIENT		.06143	-.02311	-.02094	-.02007	.00000	-.00039	-.00101	.00060	-.00003	-.00000

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/73

(AMCD17) ( 05 FEB 75 )

REFERENCE DATA

WREF = 2880.0000 50.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 460.0000 IN. ZT  
 SCALE = .0100

RUN NO. 71/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.900	-11.516	-9.4050	.38418	.17812	.01354	.01526	.07274	.12020	.07478	.00572	-.01573
.900	-9.211	-7.9444	.30110	.18362	.01287	.01526	.06902	.11535	.07427	.00540	-.01573
.900	-6.973	-5.5787	.22556	.19332	.01208	.01526	.06471	.10909	.07209	.00503	-.01573
.900	-4.707	-3.9400	.10355	.19727	.01151	.01526	.06153	.10420	.07138	.00478	-.01573
.975	-2.494	-2.4515	.10872	.20368	.01126	.01526	.06007	.10181	.07087	.00465	-.01573
.975	-2.273	-.09442	.04704	.20038	.01108	.01526	.05934	.10097	.07077	.00455	-.01573
.975	1.929	.04631	-.01207	.19748	.01109	.01526	.05907	.10101	.07255	.00493	-.01573
.975	4.112	.18177	-.07385	.18843	.01139	.01526	.05959	.10083	.07811	.00468	-.01573
.975	6.325	.32041	-.12683	.17895	.01158	.01526	.06174	.10121	.08368	.00477	-.01573
.900	8.520	.45673	-.17874	.17302	.01205	.01526	.06442	.10380	.08642	.00499	-.01573
.975	10.712	.58922	-.23429	.16533	.01177	.01526	.06272	.10335	.08955	.00484	-.01573
GRADIENT		.06546	-.02673	-.00095	-.00002	.00000	-.00012	-.00034	.00068	-.00001	.00000

PARAMETRIC DATA

BETA = -5.000  
 ELV-LO = .000  
 ELV-LI = .000  
 ELV-RI = .000  
 ELV-RO = .000  
 RUDDER = .000  
 BOFLAP = .000

RUN NO. 70/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CF	CLMF	CAF	CBO	CMBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.749	-9.7170	.39546	.23992	.01230	.01654	.06663	.10859	.07472	.00534	-.01704
1.131	-9.410	-7.6195	.30870	.24762	.01199	.01654	.06509	.10170	.07490	.00524	-.01704
1.131	-7.125	-.56321	.22886	.25197	.01167	.01654	.06321	.09759	.07381	.00506	-.01704
1.130	-4.830	-.39263	.15919	.25671	.01114	.01654	.06036	.09539	.07288	.00476	-.01704
1.130	-2.556	-.23366	.10003	.26034	.01095	.01654	.05959	.09438	.07166	.00456	-.01704
1.130	-.317	-.08240	.04145	.26330	.01082	.01654	.05755	.09270	.06900	.00442	-.01704
1.130	1.930	.06873	-.02409	.25859	.01060	.01654	.05638	.09050	.07046	.00433	-.01704
1.130	4.138	.23786	-.08629	.25045	.01056	.01654	.05633	.08858	.07239	.00433	-.01704
1.130	6.357	.34301	-.14163	.24267	.01099	.01654	.05874	.08644	.07479	.00456	-.01704
1.130	8.575	.47321	-.19163	.23522	.01122	.01654	.06014	.08922	.07695	.00470	-.01704
.130	10.804	.60027	-.23706	.22766	.01137	.01654	.06191	.08791	.08015	.00478	-.01704
GRADIENT		.06705	-.02743	-.00063	-.00007	-.00000	-.00043	-.00078	.00010	-.00005	.00000



LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/87

(AMC017) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 69/ D RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

MACH	ALPHA	CF	CLMF	CAF	CBO	CBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.200	-11.627	-.99086	.40478	.26370	.01237	.01548	.06651	.10296	.07325	.00324	-.01995
1.201	-9.475	-.77030	.31106	.26790	.01194	.01548	.06441	.09889	.07444	.00511	-.01995
1.201	-7.148	-.56744	.22574	.27071	.01156	.01548	.06244	.09493	.07451	.00497	-.01995
1.200	-4.857	-.36614	.15393	.27455	.01111	.01548	.05995	.09317	.07267	.00476	-.01995
1.201	-2.569	-.22078	.08896	.27800	.01100	.01548	.05894	.09101	.07036	.00460	-.01995
1.201	-.318	-.07020	.03358	.28029	.01061	.01548	.05751	.08888	.06793	.00441	-.01995
1.201	1.932	.07664	-.02839	.27726	.01061	.01548	.05639	.08702	.06930	.00432	-.01995
1.200	4.139	.21414	-.09697	.26864	.01048	.01548	.05589	.08548	.07093	.00432	-.01995
1.200	6.362	.35127	-.14684	.26178	.01094	.01548	.05947	.08391	.07242	.00454	-.01995
1.200	8.600	.48707	-.20162	.25463	.01112	.01548	.05939	.08427	.07465	.00466	-.01995
1.200	10.839	.61382	-.24481	.24782	.01111	.01548	.05938	.08314	.07727	.00466	-.01995
GRADIENT		.06649	-.02656	-.00055	-.00007	.00000	-.00047	-.00066	-.00020	-.00005	.00000

LARC 8-TFT-693 (IA43) CONFIGURATION 02/11/87

(AMC018) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 76/ D RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

MACH	ALPHA	CF	CLMF	CAF	CBO	CBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.601	-10.602	-.76918	.33538	.09140	.00713	.01060	.03606	.10075	.07245	.00294	-.01092
.600	-8.498	-.63239	.27904	.08767	.00699	.01060	.03736	.09699	.06856	.00290	-.01092
.601	-6.401	-.50273	.22662	.09313	.00671	.01060	.03583	.09191	.06466	.00278	-.01092
.600	-4.293	-.37809	.17782	.09605	.00662	.01060	.03533	.08969	.06422	.00274	-.01092
.599	-2.223	-.27254	.13533	.09783	.00633	.01060	.03363	.08698	.06424	.00261	-.01092
.599	-.147	-.15934	.09342	.09870	.00610	.01060	.03238	.08613	.06372	.00247	-.01092
.600	1.936	-.04134	.04609	.09930	.00585	.01060	.03102	.08379	.06379	.00236	-.01092
.600	4.059	-.07900	-.00189	.09459	.00569	.01060	.03015	.08299	.06184	.00228	-.01092
.603	6.140	.19809	-.03036	.08777	.00563	.01060	.02968	.08115	.06303	.00226	-.01092
.600	8.220	.31545	-.09975	.07917	.00556	.01060	.02938	.07916	.06336	.00222	-.01092
.603	10.334	.44771	-.13203	.06734	.00549	.01060	.02904	.07927	.06391	.00220	-.01092
GRADIENT		.05495	-.02149	-.00007	-.00011	.00000	-.00063	-.00089	-.00034	-.00005	.00000

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-R1 = .000  
 ELV-R0 = .000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 75/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMF	CAF	CIBO	CIBF	CABO	CABET	CABSRB	CLMBO	CLMBF
.901	-11.193	.37232	.12480	.00940	.01351	.05040	.10631	.07311	.00394	-.01393
.903	-8.957	.29159	.12861	.00894	.01351	.04779	.10295	.07168	.00371	-.01393
.900	-6.747	.21628	.13352	.00847	.01351	.04519	.09461	.06859	.00350	-.01393
.900	-4.351	.15234	.13349	.00804	.01351	.04282	.09126	.06514	.00329	-.01393
.903	-2.358	.08744	.13098	.00771	.01351	.04103	.08796	.06393	.00315	-.01393
.693	-.207	.02307	.13080	.00767	.01351	.04080	.08724	.06267	.00314	-.01393
.903	1.974	-.04866	.12846	.00750	.01351	.03995	.08554	.06428	.00308	-.01393
.901	4.339	-.16472	.12807	.00733	.01351	.03909	.08482	.06310	.00302	-.01393
.903	6.308	-.28518	.12304	.00724	.01351	.03867	.08512	.06697	.00299	-.01393
.903	6.473	-.42085	.11898	.00733	.01351	.03912	.08336	.06649	.00302	-.01393
.903	10.536	-.54606	.11753	.00746	.01351	.03974	.08032	.07161	.00306	-.01393
GRADIENT		.06121	-.00362	-.00008	-.00000	-.00000	-.00071	.00001	-.00003	.00000

RUN NO. 74/ 0 RIVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMF	CAF	CIBO	CIBF	CABO	CABET	CABSRB	CLMBO	CLMBF
1.130	-11.634	.41155	.23629	.01111	.01654	.05944	.10411	.09146	.00462	-.01704
1.131	-9.309	.33306	.24249	.01070	.01654	.05718	.09871	.08900	.00444	-.01704
1.130	-7.006	.25411	.24465	.01026	.01654	.05478	.09611	.08461	.00424	-.01704
1.130	-4.762	.18602	.24457	.00991	.01654	.05281	.09513	.08319	.00407	-.01704
1.130	-2.511	.12021	.24542	.00961	.01654	.05107	.09618	.08195	.00392	-.01704
1.130	-.269	.05377	.24426	.00940	.01654	.04995	.09781	.08049	.00383	-.01704
1.130	1.937	-.00727	.24357	.00953	.01654	.05058	.09275	.07929	.00386	-.01704
1.130	4.149	-.07193	.24187	.00970	.01654	.05149	.08875	.08116	.00393	-.01704
1.132	6.361	-.13152	.23739	.00976	.01654	.05176	.08525	.08251	.00395	-.01704
1.130	6.556	-.18139	.23094	.00984	.01654	.05227	.08230	.08604	.00400	-.01704
1.129	10.752	-.21468	.22269	.00954	.01654	.05062	.08253	.08755	.00387	-.01704
GRADIENT		.06688	-.00002	-.00002	-.00000	-.00014	-.00072	-.00000	-.00001	.00000





REFERENCE DATA PARAMETRIC DATA  
 XREF = 2890.0000 90.FT. XMRP = 976.0000 IN. XT BETA = .000 TANK = 1.000  
 LABF = 1290.3000 INCHES YMRP = .0000 IN. YT SRB = 1.000  
 BRCP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 82/ 0 RIVL = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET	CABSRB
.999	-10.321	-.41456	.08624	.19145	.03791	.06923	.06426
.600	-8.256	-.33580	.07620	.19013	.06310	.06712	.03991
.999	-6.176	-.26524	.06976	.18736	.06662	.06537	.05537
.999	-4.137	-.21237	.06944	.18457	.06638	.06247	.05573
.999	-3.109	-.18011	.06707	.18369	.06761	.06115	.05493
.999	-2.078	-.14167	.06184	.18293	.06687	.06060	.05348
.600	-.020	-.07040	.05143	.18061	.06913	.05932	.05195
.999	2.029	.03197	.04181	.17999	.06753	.05939	.05305
.999	4.093	.07303	.03336	.17912	.06634	.05792	.05486
.999	6.162	.13333	.02803	.17948	.06481	.05670	.03797
.999	8.214	.21243	.01669	.18088	.06232	.05637	.06179
.999	10.274	.30197	-.02046	.18368	.05873	.05630	.06368
.600	GRADIENT	.03459	-.00457	-.00068	-.00005	-.00048	-.00013

RUN NO. 81/ 0 RIVL = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET	CABSRB
.601	-10.523	-.47037	.10880	.20582	.06861	.07368	.06332
.600	-8.403	-.37797	.09365	.20527	.07453	.07088	.05985
.601	-6.312	-.29680	.08458	.20281	.07884	.06807	.05390
.601	-4.213	-.22772	.07932	.19930	.07978	.06459	.05494
.601	-2.127	-.15121	.06382	.19465	.08023	.06220	.05222
.600	-.034	-.07334	.05180	.19335	.08062	.06240	.05033
.601	2.068	.02880	.04214	.19460	.07980	.06272	.05208
.600	4.138	.08984	.02435	.19221	.07689	.06102	.05434
.600	6.256	.16272	.01370	.19347	.07672	.06069	.05605
.600	8.352	.25454	-.00199	.19523	.07483	.06130	.05910
.600	10.465	.35373	-.02405	.19398	.06819	.06289	.06291
.600	GRADIENT	.03799	-.00630	-.00068	-.00033	-.00032	-.00006

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 OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 96. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 SRB = 1.000

RUN NO. 77/ 0 R/V/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CLM	CA	CAF	CABET	CASRRB
.900	-10.586	-4.7734	.11532	.22993	.08363	.07926	.06675
.900	-8.460	-3.9963	.09983	.22808	.08871	.07674	.06263
.901	-8.352	-3.1124	.08807	.22488	.09143	.07451	.05894
.900	-4.267	-2.3339	.06435	.22028	.09121	.07215	.05691
.900	-2.149	-1.5127	.05390	.21985	.09241	.07130	.05813
.900	-.034	-.06491	.04563	.21899	.09286	.07150	.05463
.899	2.094	.02229	.03836	.21908	.09098	.07308	.05501
.900	4.216	.11074	.02616	.21913	.08934	.07339	.05640
.901	6.315	.20072	-.00315	.21706	.08784	.06928	.05995
.901	8.434	.28700	-.02202	.21614	.08600	.06922	.06092
.900	10.544	.38045	-.04067	.21576	.08232	.06986	.06458
GRADIENT		.04082	-.00433	-.00014	-.00024	.00020	-.00010

RUN NO. 78/ 0 R/V/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CLM	CA	CAF	CABET	CASRRB
.900	-10.689	-4.9214	.09777	.26334	.11018	.06923	.06793
.981	-8.529	-3.8442	.08189	.26058	.11501	.08219	.06338
.980	-6.389	-2.9495	.07306	.25567	.11945	.07859	.05763
.980	-4.274	-2.1733	.06769	.25130	.11949	.07751	.05430
.980	-2.156	-1.3649	.04912	.24592	.11846	.07410	.05326
.980	-.027	-.05447	.04081	.24538	.11905	.07475	.05128
.980	2.106	.03035	.03382	.24476	.11673	.07554	.05247
.980	4.214	.11701	.01319	.24267	.11326	.07334	.05606
.979	6.351	.19637	.00133	.24363	.11336	.07304	.05723
.980	8.482	.29049	-.01159	.24502	.11068	.07320	.06114
.980	10.633	.39816	-.02670	.24622	.10479	.07519	.06624
GRADIENT		.03943	-.00585	-.00086	-.00067	-.00032	.00013



TABULATED SOURCE DATA - LARC 693 (1A43)

(AWC019) ( 05 FEB 75 )

LARC 8-TPT-693 (1A43) CONFIGURATION T4/97

REFERENCE DATA

SREP = 2690.0000 SQ.FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 SRB = 1.000

RUN NO. 79/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET	CABSRB
1.130	-10.783	-.49694	.09234	.30871	.15472	.07517	.07681
1.130	-8.601	-.36486	.07483	.30731	.15727	.07314	.07690
1.130	-6.437	-.28259	.06780	.30317	.15531	.07314	.07473
1.130	-4.288	-.20967	.06226	.29984	.15388	.07369	.07227
1.129	-2.173	-.14151	.05373	.29621	.15562	.06880	.07178
1.130	-.031	-.05574	.04131	.29768	.15614	.07133	.07021
1.130	2.120	.03312	.03123	.29599	.15348	.07089	.07162
1.130	4.239	.10950	.01582	.29591	.15294	.07071	.07225
1.130	6.382	.18293	.00660	.29785	.15126	.07300	.07359
1.130	8.562	.25605	-.00818	.29786	.15068	.07101	.07617
1.130	10.733	.41536	-.02875	.29672	.14784	.06989	.07899
GRADIENT		.03809	-.00340	-.00036	-.00019	-.00018	-.00001

RUN NO. 80/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET	CABSRB
1.200	-10.814	-.50271	.09475	.31442	.16912	.06922	.07606
1.200	-8.611	-.36506	.07401	.31146	.17005	.06863	.07278
1.201	-6.439	-.28878	.06442	.30770	.16876	.06871	.07023
1.200	-4.293	-.20469	.05907	.30397	.16729	.06821	.06847
1.200	-2.180	-.13602	.05256	.30128	.16790	.06519	.06818
1.200	-.027	-.05142	.03946	.30376	.16943	.06753	.06680
1.200	2.133	.03419	.02940	.30113	.16700	.06663	.06750
1.201	4.248	.11010	.01637	.30145	.16642	.06600	.06903
1.200	6.407	.20016	.00619	.30329	.16442	.06812	.07075
1.200	8.591	.30282	-.00917	.30373	.16382	.06748	.07242
1.200	10.770	.42550	-.03240	.30177	.16120	.06611	.07446
GRADIENT		.03739	-.00307	-.00024	-.00012	-.00014	-.00002

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 38.FT. XREF = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT  
 SCALE = .0100

BETA = .000 TANK = 1.000

RUN NO. 69/ 0 RV/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.600	-10.111	-1.14273	.02928	.10286	.03618	.06668
.600	-8.072	-.12384	.02734	.10224	.03893	.06331
.600	-6.073	-.10721	.03140	.10134	.03971	.06163
.600	-4.333	-.09045	.03603	.09883	.03997	.05986
.600	-2.024	-.07275	.03961	.09543	.04113	.05430
.600	-.003	-.05280	.04075	.09146	.04168	.04978
.601	2.016	-.03613	.04432	.08816	.04015	.04801
.601	4.046	-.01837	.04814	.08478	.03923	.04555
.600	6.066	.03145	.05031	.08197	.03809	.04388
.600	8.077	.01934	.05455	.07903	.03486	.04417
.999	10.109	.03948	.05785	.07702	.03230	.04472
GRADIENT		.03895	.00148	-.00175	-.00012	-.00163

RUN NO. 87/ 0 RV/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.801	-10.166	-.15219	.02789	.10871	.03890	.06981
.800	-8.144	-.13322	.03154	.10835	.04117	.06716
.800	-6.113	-.11483	.03537	.10666	.04237	.06429
.801	-4.073	-.09570	.03850	.10357	.04312	.06045
.800	-2.053	-.07620	.04045	.09972	.04321	.05651
.801	-.020	-.05289	.04039	.09552	.04274	.05378
.800	2.013	-.02901	.04002	.09365	.04120	.05245
.800	4.033	-.00875	.04140	.08925	.03879	.05046
.800	6.086	.01393	.04235	.08736	.03811	.04923
.801	8.118	.03903	.04467	.08459	.03479	.04980
.800	10.152	.05702	.04666	.08361	.03231	.05130
GRADIENT		.01090	.00226	-.00171	-.00033	-.00119



(AMC020) ( 05 FEB 75 )

TABULATED SOURCE DATA - LARC 693 (IA43)  
LARC 8-TPT-693 (IA43) CONFIGURATION T4

PARAMETRIC DATA

BETA = .000 TANK = 1.000

REFERENCE DATA

SREF = 2690.0000 98.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 1 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 1 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 86/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CN	CLM	CA	CAF	CABET
.901	-10.205	-.15166	.02417	.12417	.04664	.07753
.900	-8.167	-.13114	.02740	.12239	.04910	.07329
.899	-6.131	-.11051	.02984	.12045	.05096	.06949
.901	-4.094	-.09015	.03280	.11765	.05146	.06619
.901	-2.048	-.06893	.03440	.11359	.05078	.06281
.900	-.018	-.04450	.03474	.11022	.04949	.06073
.900	2.019	-.02139	.03481	.10766	.04806	.05960
.900	4.056	.00108	.03572	.10221	.04559	.05662
.899	6.095	.02490	.03624	.09997	.04471	.05326
.900	8.133	.04632	.03976	.09760	.04217	.05543
.900	10.164	.07153	.03975	.09730	.03998	.05732
GRADIENT		.01129	.00031	-.00181	-.00071	-.00110

RUN NO. 85/ 0 RIVL = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CN	CLM	CA	CAF	CABET
.900	-10.245	-.15172	.01033	.15789	.07196	.08393
.900	-8.184	-.12675	.01512	.15476	.07294	.08182
.979	-6.139	-.10530	.01993	.15263	.07358	.07903
.900	-4.095	-.08298	.02355	.14973	.07415	.07558
.979	-2.072	-.06184	.02713	.14537	.07295	.07262
.900	-.028	-.03887	.02969	.14175	.07183	.06992
.900	2.026	-.01536	.03194	.13730	.07066	.06664
.900	4.069	.00693	.03498	.13133	.06976	.06257
.900	6.117	.03174	.03761	.12912	.06766	.06146
.900	8.173	.05539	.04098	.12786	.06456	.06330
.900	10.214	.07726	.04921	.12675	.06317	.06358
GRADIENT		.01108	.00135	-.00221	-.00064	-.00157

LARC 8-TPT-693 (IA43) CONFIGURATION T4 BETA = .000 TANK = 1.000

REFERENCE DATA

SRP = 2690.0000 56. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
1.130	-10.260	-.15344	.00744	-.19026	.10456	-.08568
1.130	-8.221	-.12582	.01111	-.18809	.10367	-.08442
1.130	-6.168	-.10260	.01565	-.18589	.10391	-.08198
1.129	-4.117	-.08005	.01988	-.18269	.10442	-.07827
1.130	-2.059	-.05901	.02469	-.17972	.10491	-.07481
1.130	-.027	-.03536	.02791	-.17711	.10396	-.07315
1.130	2.033	-.01186	.03059	-.17352	.10241	-.07111
1.130	4.093	.01066	.03435	-.17037	.10133	-.06874
1.130	6.134	.03327	.03850	-.16967	.09998	-.06969
1.129	8.169	.05765	.04326	-.16627	.09950	-.06677
1.130	10.249	.08381	.04843	-.16857	.09805	-.07052
GRADIENT		.01114	.00170	-.00153	-.00042	-.00111

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
1.200	-10.290	-.15465	.00830	-.19478	.11296	-.08182
1.200	-8.227	-.12587	.01117	-.19188	.11209	-.07979
1.200	-6.173	-.10227	.01533	-.18893	.11244	-.07649
1.200	-4.119	-.07820	.01908	-.18449	.11307	-.07142
1.200	-2.037	-.05672	.02379	-.18237	.11390	-.06847
1.200	-.014	-.03274	.02670	-.18037	.11275	-.06762
1.200	2.037	-.00981	.03003	-.17794	.11189	-.06805
1.201	4.100	.01366	.03356	-.17593	.11061	-.06532
1.200	6.154	.03721	.03750	-.17360	.10945	-.06515
1.200	8.211	.06095	.04268	-.17299	.10938	-.06361
1.200	10.252	.08786	.04717	-.17500	.10904	-.06696
GRADIENT		.01123	.00171	-.00105	-.00034	-.00071



DATE 04 APR 73

TABULATED SOURCE DATA - LARC 693 (IA43)

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LARC 8-TPT-693 (IA43) CONFIGURATION T4 (AWC021) ( 05 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RVL = 4.400

RUN NO. 90/ 0 RVL = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.601	-2.028	-.07265	.03610	.09490	.04099	-.05392
.600	-1.025	-.06364	.03922	.09322	.04089	-.05233
.600	-.010	-.05367	.04016	.09069	.04071	-.03018
.600	1.015	-.04374	.04166	.08900	.04035	-.04865
.600	2.028	-.03451	.04292	.08782	.04005	-.04777
	GRADIENT	.00947	.00119	-.00161	-.00024	-.00197

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RVL = 5.150

LARC 8-TPT-693 (IA43) CONFIGURATION T4 (AWC022) ( 05 FEB 75 )

RUN NO. 91/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.600	-2.061	-.07717	.04139	.10009	.04261	.05728
.799	-1.029	-.06619	.04160	.09849	.04282	-.05967
.799	-.038	-.05409	.04116	.09660	.04235	.05425
.600	1.015	-.04257	.04088	.09321	.04207	-.05314
.600	2.035	-.03097	.04116	.09373	.04106	-.05265
	GRADIENT	.01134	-.00013	-.00156	-.00041	-.00115

(ANCD23) ( 05 FEB 75 )

LARC 6-TPT-693 (IA43) CONFIGURATION T4

REFERENCE DATA

MACH = 1.199  
 XREF = 2690.0000 96.FT.  
 YREF = 1290.3000 INCHES  
 ZREF = 1290.3000 INCHES  
 SCALE = .0100

RUN NO. 82/ 0 RVL = 4.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.900	-2.061	-.07162	-.03634	.11380	.09060	.06320
.900	-1.039	-.06075	.03662	.11238	.09353	.06185
.901	-.014	-.04675	.03566	.11102	.09312	.06090
.900	1.007	-.03553	.03553	.10969	.04936	.06033
.900	2.040	-.02338	.03596	.10802	.04827	.05975
GRADIENT		.01184	-.03020	-.00119	-.00357	-.00082

BETA = .000  
 TANK = 1.000  
 RVL = 4.750

(ANCD24) ( 05 FEB 75 )

LARC 6-TPT-693 (IA43) CONFIGURATION T4

REFERENCE DATA

MACH = 1.199  
 XREF = 2690.0000 96.FT.  
 YREF = 1290.3000 INCHES  
 ZREF = 1290.3000 INCHES  
 SCALE = .0100

RUN NO. 93/ 0 RVL = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
1.199	-2.020	-.09632	-.02313	.17859	.11393	.06466
1.200	-.999	-.04932	.02325	.17820	.11378	.06442
1.200	-.007	-.03377	.02695	.17733	.11316	.06435
1.199	1.024	-.02255	.02867	.17696	.11325	.06371
1.199	2.027	-.00804	.02933	.17530	.11221	.06309
GRADIENT		.01176	.00137	-.00077	-.00039	-.00058

BETA = .000  
 TANK = 1.000  
 RVL = 2.100





LARC 8-TPT-693 (IA43) CONFIGURATION T4 (ANCD25) ( 03 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RV/L = 2.050

RUN NO. 94/ 0 RV/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.900	-2.028	-.06160	.02671	-1.4290	.07273	.06957
.901	-.998	-.05024	.02808	-1.4096	.07290	.06806
.902	.001	-.03888	.02915	-1.3867	.07193	.06674
.902	1.012	-.02495	.02933	-1.3539	.07071	.06468
.902	2.021	-.01377	.02977	-1.3341	.07039	.06282
	GRADIENT	.01196	.02073	-.02831	-.00064	-.00167

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000  
RV/L = 1.980

LARC 8-TPT-693 (IA43) CONFIGURATION T4 (ANCD26) ( 03 FEB 73 )

RUN NO. 95/ 0 RV/L = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.902	-2.025	-.06621	.03234	-1.1223	.05189	.06034
.902	-1.007	-.05688	.03431	-1.1062	.05028	.06034
.901	.001	-.04493	.03369	-1.0852	.04938	.05884
.902	1.009	-.03422	.03447	-1.0729	.04934	.05775
.902	2.028	-.02076	.03375	-1.0512	.04749	.05763
	GRADIENT	.01122	.02029	-.00173	-.00094	-.00079

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LARC 8-TPT-693 (IA43) CONFIGURATION T4

(AMC027) ( 05 FEB 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LRFP = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 RV/L = 1.693

RUN NO. 96/ 0 RV/L = 1.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.799	-2.013	-.07220	.03795	.09816	.04316	.05900
.798	-1.006	-.06163	.03839	.09705	.04309	.05396
.798	.000	-.05305	.03859	.09487	.04195	.05292
.799	1.016	-.03937	.03857	.08319	.04173	.05146
.798	2.025	-.03049	.04004	.09132	.04041	.05091
GRADIENT	.01048	.00043	-.00174	-.00068	-.00106	

LARC 8-TPT-693 (IA43) CONFIGURATION T4 (AMC028) ( 05 FEB 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LRFP = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 TANK = 1.000  
 RV/L = 1.570

RUN NO. 97/ 0 RV/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CA	CAF	CABET
.601	-1.996	-.07820	.03977	.09263	.04311	.04932
.600	-1.012	-.06595	.04035	.09139	.04173	.04966
.601	.004	-.05316	.03981	.08373	.04187	.04786
.600	1.017	-.04993	.04452	.08738	.04022	.04716
.602	2.012	-.03710	.04440	.08719	.04072	.04647
GRADIENT	.00936	.00134	-.00148	-.00063	-.00086	



TABULATED SOURCE DATA - LARC 693 (IA43)  
LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/76

REFERENCE DATA  
SREF = 2690.0000 36 FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RD = .000 RUDDER = .000  
SPDRBK = .000 BDFLAP = .000

RUN NO. 10/ 0 RIVL = 3.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLW0	CMA6	CM	XCFM	YCFM	CBM	CTM
.600	-10.633	-.01517	-.02899	.01238	-.11640	12.53490	2.66202	-.01991	-.01263
.599	-8.513	-.01153	-.02656	.01094	-.09361	12.60489	2.59500	-.01534	-.00917
.598	-6.423	-.00794	-.02405	.01019	-.07327	12.71034	2.45636	-.01092	-.00555
.599	-4.331	-.00443	-.02170	.00911	-.05142	12.85120	2.24827	-.00652	-.00194
.599	-2.250	-.00116	-.02061	.00977	-.03334	13.44144	1.76721	-.00252	-.00261
.599	-.165	-.02223	.00293	.02961	-.01318	15.51073	-.14296	.00169	.00678
.600	1.934	-.00575	.00536	.01004	.00697	5.20971	9.16961	.00603	.01154
.599	4.027	.00962	.00812	.00958	.02825	10.44003	4.63065	.01077	.01565
.598	6.106	.01357	.01091	.00877	.03010	11.21889	3.97828	.01581	.01953
.599	8.198	.01758	.01379	.00770	.07139	11.53785	3.74804	.02049	.02304
.598	10.297	.02161	.01672	.00551	.09210	11.76596	3.63698	.02536	.02530
GRADIENT		.00168	.00117	.00006	.00955	-.62934	-.58301	.00206	.00211

RUN NO. 9/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLW0	CMA6	CM	XCFM	YCFM	CBM	CTM
.899	-11.224	-.01594	-.01010	.01580	-.11000	12.73200	2.79866	-.02042	-.00783
.900	-8.959	-.01184	-.00746	.01288	-.08250	12.79128	2.78560	-.01520	-.00484
.899	-6.775	-.00749	-.00459	.01037	-.05462	12.93141	2.72371	-.00971	-.00136
.901	-4.568	-.00288	-.00143	.00816	-.02731	13.46862	2.42904	-.00399	-.00229
.899	-2.396	-.00168	.00168	.00668	.00000	12.01828	1.45704	.00168	.00668
.899	-.231	.00619	.00477	.00583	.02675	11.01504	3.60911	.00728	.01158
.900	1.943	.01034	.00754	.00555	.03274	11.55034	3.27776	.01249	.01688
.898	4.100	.01237	.00881	.00705	.07082	11.57735	3.10382	.01545	.02226
.900	6.273	.01499	.01035	.00653	.08739	11.69524	3.04788	.01855	.02531
.900	8.456	.01745	.01197	.00587	.10322	11.87198	3.02486	.02165	.02604
.900	10.610	.01925	.01313	.00378	.11527	12.01787	3.00552	.02394	.02554
GRADIENT		.00183	.00122	-.00015	.01149	-.19618	-.14625	.00229	.00231

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TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TFT-693 (IA43) CONFIGURATION 06/T4/S6

(RHC02) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SA.FT. XMRP = 976.0000 IN. XT  
 LRCF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRCF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 80FLAP = .000

RUN NO. 8/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWD	CMAC	CM	XCFW	YCFW	CBM	CTM
1.129	-11.649	-0.1745	-0.1114	.02652	-.11885	13.10947	2.01656	-.02229	.00089
1.130	-9.340	-0.1285	-.00814	.02327	-.08871	13.29543	2.79805	-.01646	.00421
1.129	-7.047	-0.0795	-.00477	.01963	-.05990	13.60768	2.68455	-.01039	.00678
1.130	-4.772	-.00277	-.00122	.01605	-.02919	14.66027	2.33002	-.00396	.00978
1.130	-2.337	.00295	.00283	-.01148	.00226	-12.06590	13.66660	.00304	-.01197
1.129	-.294	.00862	.00677	.00674	.03484	11.13160	3.75845	.01004	-.01423
1.130	1.914	.01344	.01013	.00241	.06234	11.86546	3.46035	.01598	-.01580
1.130	4.119	.01780	.01316	-.00158	.08739	12.13584	3.34905	.02136	-.01720
1.130	6.335	.02169	.01585	-.00537	.11000	12.28180	3.28829	.02617	-.01825
1.130	8.543	.02433	.01765	-.00797	.12563	12.35121	3.25529	.02944	-.01902
1.130	10.736	.02435	.01738	-.00564	.13147	12.28980	3.17686	.02971	-.02160
GRADIENT		.00232	.00102	-.00199	.01319	.84817	-.36690	.00286	.00084

RUN NO. 7/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWD	CMAC	CM	XCFW	YCFW	CBM	CTM
1.200	-11.693	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.201	-9.353	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.203	-7.046	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	-4.762	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	-2.498	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	-.244	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	1.942	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	4.151	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	6.377	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	8.590	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
1.200	10.811	.00000	.00000	.00000	.00000	12.05000	1.44130	.00000	.00000
GRADIENT		.00000	.00000	.00000	.00000	-.00000	-.00000	.00000	.00000





(RHCM03) ( 14 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/86

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XGRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YGRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZGRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 11/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CM4G	CMW	XCFW	YCFW	CBW	CTW
1.130	-11.621	-0.1723	-0.1104	.02551	-1.1659	13.08887	2.82555	-.02198	.00048
1.131	-9.306	-0.1276	-0.0814	.02236	-.08732	13.27004	2.81480	-.01630	.00367
1.131	-6.997	-0.0785	-0.0473	.01879	-.05877	13.56815	2.69252	-.01024	.00617
1.133	-4.748	-0.0272	-0.0122	.01547	-.02825	14.64991	2.34307	-.00387	.00940
1.133	-2.492	.00303	.00284	.01095	.00358	-2.47792	9.37193	.00318	.0172
1.133	-.273	.00856	.00673	.00537	.03447	11.17253	3.76747	.00596	.01377
1.133	1.948	.01345	.01015	.02205	.06216	11.89340	3.46818	.01598	.01540
1.133	4.144	.01784	.01314	-.00198	.08952	12.15620	3.32892	.02144	.01704
1.129	6.361	.02174	.01583	-.00591	.11132	12.30208	3.27062	.02627	.01800
1.129	8.566	.02427	.01731	-.00835	.12733	12.36137	3.22673	.02945	.01900
1.130	10.768	.02592	.01700	-.00652	.13034	12.29115	3.16329	.02923	.02138
GRADIENT		.00232	.00162	-.00197	.01315	.41678	-.17467	.00285	.00085

(RHCM04) ( 14 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/83

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XGRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YGRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZGRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 17/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CM4G	CMW	XCFW	YCFW	CBW	CTW
6.00	-10.592	-0.1529	-0.0935	.01176	-1.1188	12.54907	2.72139	-.01984	-.01228
6.00	-8.503	-0.1169	-0.0695	.01064	-.08928	12.61586	2.65776	-.01532	-.00854
6.00	-6.391	-0.0800	-0.0445	.00975	-.06586	12.74234	2.56198	-.01072	-.00461
6.01	-4.307	-0.0462	-0.0208	.00938	-.04784	12.98092	2.34584	-.00657	-.00090
6.01	-2.223	-.00130	.00026	.00928	-.02938	13.54957	1.85372	-.00250	.00297
6.03	-1.140	.00201	.00508	.00918	-.00961	16.65668	-.51865	.00162	.00726
6.01	1.954	.00573	.00508	.00910	.01224	8.48982	5.82519	.00623	.01181
6.01	4.047	.00949	.00779	.00895	.03202	10.72286	4.21741	.01079	.01583
6.00	6.133	.01332	.01050	.00839	.05311	11.30001	3.79025	.01548	.01980
6.00	8.217	.01737	.01338	.00727	.07515	11.59569	3.60624	.02043	.02341
6.00	10.316	.02144	.01634	.00552	.09606	11.77716	3.53191	.02535	.02616
GRADIENT		.00169	.00118	-.00200	.00964	-.45916	.36981	.00208	.00203



DATE 04 APR 75 TABULATED SOURCE DATA - LARC 693 (IA43)

(RHCMD4) ( 14 FEB 75 )

LARC 0-TPT-693 (IA43) CONFIGURATION 02/T4/S3

REFERENCE DATA

SREF = 2690.0000 90 FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRBK = .000 BDFLAP = .000

RUN NO. 16/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	CM46	CM1	XCFW	YCFW	CBW	CTM
.901	-11.193	-0.1593	-0.1010	-0.1539	-0.10793	12.72662	2.81517	-0.02022	-0.00781	
.902	-8.960	-0.1191	-0.0758	-0.1233	-0.08156	12.76782	2.80916	-0.01523	-0.00319	
.900	-6.753	-0.0752	-0.0468	-0.0972	-0.03349	12.91276	2.75810	-0.00970	-0.00177	
.900	-4.564	-0.0295	-0.0154	-0.0777	-0.02656	13.43914	2.48175	-0.00403	-0.00206	
.901	-2.384	-0.0161	-0.0162	-0.0609	-0.02019	165.56953	-78.62418	-0.0160	-0.00605	
.900	-2.208	-0.0611	-0.0467	-0.0555	-0.02712	11.11344	3.55137	-0.00721	-0.01118	
.901	1.961	-0.1012	-0.0737	-0.0550	-0.01800	11.54593	3.27136	-0.01223	-0.01663	
.901	4.126	-0.1238	-0.0873	-0.0686	-0.06875	11.57622	3.12873	-0.01518	-0.02163	
.901	6.288	-0.1447	-0.1009	-0.0693	-0.06250	11.65116	3.08421	-0.01783	-0.02463	
.900	8.466	-0.1668	-0.1152	-0.0443	-0.09719	11.83358	3.04885	-0.02064	-0.02531	
.901	10.629	-0.1871	-0.1286	-0.0163	-0.11019	11.97976	3.03181	-0.02320	-0.02530	
GRADIENT		.00160	.00121	-.00011	.01117	-7.25390	3.82528	.00226	.00229	

RUN NO. 15/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	CM46	CM1	XCFW	YCFW	CBW	CTM
1.130	-11.608	-0.1729	-0.1109	-0.2585	-0.11678	13.10102	2.82813	-0.02204	-0.00076	
1.131	-9.311	-0.1277	-0.0815	-0.2295	-0.09702	13.30223	2.81587	-0.01631	-0.00426	
1.131	-7.037	-0.0795	-0.0480	-0.1971	-0.05933	13.62732	2.69639	-0.01037	-0.00696	
1.131	-4.747	-0.0278	-0.0125	-0.1599	-0.02882	14.68451	2.34489	-0.00395	-0.00980	
1.130	-2.501	-0.0296	-0.0277	-0.1145	-0.03358	-3.14129	9.18871	-0.00311	-0.01222	
1.130	-1.768	-0.0855	-0.0671	-0.0673	-0.04466	11.12798	3.75212	-0.00996	-0.01418	
1.130	1.936	-0.1331	-0.1002	-0.0245	-0.06197	11.86228	3.45317	-0.01583	-0.01576	
1.130	4.137	-0.1767	-0.1306	-0.0180	-0.08683	12.14843	3.34744	-0.02120	-0.01685	
1.130	6.349	-0.2149	-0.1564	-0.0571	-0.11019	12.29605	3.26813	-0.02598	-0.01796	
1.129	8.552	-0.2422	-0.1750	-0.0843	-0.12657	12.36623	3.23365	-0.02937	-0.01876	
1.130	10.744	-0.2357	-0.1673	-0.0642	-0.12883	12.28660	3.15495	-0.02881	-0.02126	
GRADIENT		.00231	.00162	-.00201	.01305	-4.4342	-1.16651	.00284	.00080	

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/93

(RHCND4) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2890.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 14/ 0 RWL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	CLM1	CLW0	CMC6	CMW	XCFW	YCFW	CBW	CTW	BETA =	ELV-LO =	ELV-RI =	RUDDER =	BDFLAP =
1.201	-11.653	-0.1711	-0.1101	.02791	-.11489	13.20338	2.83619	-.02179	.00323	.000	.000	.000	.000	.000
1.201	-9.357	-0.1215	-.09779	.02454	-.08212	13.46883	2.82713	-.01549	.00690	.000	.000	.000	.000	.000
1.200	-7.063	-.00694	-.00416	.01938	-.05236	13.80732	2.68276	-.00907	.00813	.000	.000	.000	.000	.000
1.200	-4.778	-.00111	-.00004	.01306	-.02015	15.12682	1.95719	-.00193	.00873	.000	.000	.000	.000	.000
1.200	-2.512	-.00476	.00410	.00701	-.01243	9.37258	5.02789	.00327	.00968	.000	.000	.000	.000	.000
1.200	-.259	.01004	.00777	.00254	.04276	11.76793	3.64081	.01178	.01173	.000	.000	.000	.000	.000
1.200	1.926	-0.1435	.01074	-.00068	.06799	12.09748	3.41810	-.01712	.01393	.000	.000	.000	.000	.000
1.200	4.146	-0.1828	.01344	-.00352	.09116	12.23333	3.31953	.02199	.01606	.000	.000	.000	.000	.000
1.200	6.362	-.02182	.01580	-.00712	.11339	12.34814	3.24381	.02644	.01724	.000	.000	.000	.000	.000
1.200	8.967	.02451	.01771	-.00991	.12996	12.41205	3.21500	.02990	.01801	.000	.000	.000	.000	.000
1.200	10.803	.02627	.01880	-.01131	.14070	12.43167	3.19017	.03200	.01892	.000	.000	.000	.000	.000
GRADIENT		.00317	.00151	-.00183	.01249	-.15982	.05132	.00268	.00385	.000	.000	.000	.000	.000

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/92

(RHCND5) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2890.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 21/ 0 RWL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	CLM1	CLW0	CMC6	CMW	XCFW	YCFW	CBW	CTW	BETA =	ELV-LO =	ELV-RI =	RUDDER =	BDFLAP =
.600	-10.598	-0.1540	-.00949	.01244	-.11132	12.58061	2.73714	-.01993	.00147	.000	.000	.000	.000	.000
.599	-8.491	-0.1176	-.00699	.01090	-.08984	12.62604	2.66755	-.01542	.00840	.000	.000	.000	.000	.000
.599	-6.380	-.00803	-.00450	.00996	-.06649	12.76126	2.57255	-.01074	.00432	.000	.000	.000	.000	.000
.600	-4.298	-.00454	-.00210	.00938	-.04596	13.01907	2.36660	-.00641	.00049	.000	.000	.000	.000	.000
.599	-2.226	-.00129	.00220	.00931	-.02806	13.62509	1.87185	-.00243	.00328	.000	.000	.000	.000	.000
.600	-.130	.00215	.00257	.00936	-.00791	17.66784	-1.10440	.00163	.00766	.000	.000	.000	.000	.000
.599	1.971	.00570	.00511	.00804	.01111	8.18758	6.24573	.00615	.01143	.000	.000	.000	.000	.000
.599	4.046	-.00362	.00783	.00896	-.03371	10.78818	4.11394	.01099	.01620	.000	.000	.000	.000	.000
.600	6.141	.01327	.01042	.00809	.05368	11.33444	3.75690	.01546	.01962	.000	.000	.000	.000	.000
.600	8.237	.01748	.01341	.00701	.07666	11.61592	3.57713	.02060	.02348	.000	.000	.000	.000	.000
.599	10.333	.02141	.01630	.00332	.09625	11.78756	3.52490	.02533	.02600	.000	.000	.000	.000	.000
GRADIENT		.00169	.00119	-.00005	.00931	-.47532	.37781	.00208	.00199	.000	.000	.000	.000	.000





PARAMETRIC DATA

BETA = .0001 ELV-LO = .000  
 ELV-LI = .0001 ELV-RI = .000  
 ELV-RO = .0001 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2630.0000 SQ.FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 RREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 20/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMAC	CMW	KCFW	YCFW	CBM	CTW
.900	-11.178	-0.1597	-0.01016	.01547	-0.10755	12.73296	2.82346	-0.02023	-0.00763
.900	-8.993	-0.1186	-0.0758	.01231	-0.08061	12.77503	2.81933	-0.01514	-0.00501
.900	-6.742	-0.0743	-0.0462	.00963	-0.05293	12.91390	2.75623	-0.00958	-0.00174
.901	-4.544	-0.0301	-0.0161	.00758	-0.02637	13.41485	2.51050	-0.00408	-0.00192
.900	-2.367	.00165	.00160	.00619	.00394	-19.15782	17.85221	.00169	.00639
.901	-1.195	.00636	.00483	.00519	.02882	11.19490	3.50851	.00753	.01138
.900	1.960	.01019	.00741	.00523	.05236	11.57576	3.26414	.01232	.01648
.901	4.144	.01235	.00875	.00674	.06781	11.37805	3.14732	.01511	.02131
.901	6.305	.01446	.01007	.00680	.08269	11.65953	3.07933	.01783	.02456
.901	8.468	.01690	.01166	.00421	.09870	11.84747	3.04519	.02082	.02541
.900	10.641	.01875	.01291	.00203	.11019	11.96253	3.03606	.02325	.02570
GRADIENT		.00181	.00122	-.00012	.01105	1.24425	-.61227	.00226	.00225

RUN NO. 18/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMAC	CMW	KCFW	YCFW	CBM	CTW
1.130	-11.602	-0.1721	-0.1101	.02564	-0.11678	13.05248	2.82171	-0.02196	.00055
1.130	-9.300	-0.1278	-0.0812	.02262	-0.08777	13.27363	2.80514	-0.01635	.00376
1.130	-7.002	-0.0784	-0.0472	.01922	-0.05877	13.60289	2.69093	-0.01023	.00660
1.129	-4.739	-0.0278	-0.0126	.01565	-0.02863	14.64546	2.35084	-0.00395	.00950
1.130	-2.492	.00303	.00281	.01129	.00358	-2.92901	9.29341	.00315	.01206
1.129	-.271	.00851	.00668	.00661	.03447	11.13947	3.75388	.00991	.01401
1.130	1.932	.01330	.01003	.00237	.06159	11.86730	3.46396	.01581	.01560
1.130	4.154	.01776	.01311	-.00177	.08758	12.14595	3.34067	.02133	.01705
1.129	6.380	.02159	.01575	-.00550	.11000	12.28741	3.27978	.02607	.01813
1.128	8.554	.02431	.01756	-.00822	.12714	12.35698	3.23232	.02949	.01909
1.129	10.772	.02406	.01709	-.00560	.13128	12.28870	3.15795	.02940	.02160
GRADIENT		.00231	.00162	-.00197	.01308	.43647	-.17150	.00285	.00084

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/82

(RHCH03) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 SDFLAP = .000

RUN NO. 19/ 0 RVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLW0	CM46	CM	XCPM	YCPM	CBM	CTM
1.200	-11.697	-.01719	-.01112	.02609	-.11433	13.21656	2.64963	-.02164	.00353
1.201	-9.354	-.01223	-.00787	.02462	-.08212	13.47346	2.63623	-.01537	.00698
1.202	-7.052	-.00693	-.00419	.01927	-.05161	13.82286	2.69907	-.00903	.00818
1.203	-4.757	-.00113	-.00006	.01293	-.02015	15.09619	1.96649	-.00195	.00860
1.204	-2.515	.00472	.00410	.00710	.01168	9.16325	5.22720	.00520	.00961
1.205	-.239	.00996	.00770	.00268	.04257	11.75107	3.63294	.01169	.01182
1.206	1.939	.01432	.01055	-.00364	.06894	12.09408	3.39732	.01713	.01417
1.207	4.129	.01835	.01347	-.00350	.09192	12.23596	3.31127	.02209	.01615
1.208	6.395	.02176	.01578	-.00577	.11263	12.33538	3.25087	.02633	.01743
1.209	8.987	.02475	.01783	-.00987	.13034	12.40955	3.21994	.03006	.01813
1.209	10.807	.02640	.01889	-.01136	.14145	12.43131	3.18947	.03216	.01903
GRADIENT		.00218	.00151	-.00183	.01263	-.12622	.03866	.00269	.00088

LARC 8-TFT-693 (IA43) CONFIGURATION 02/74/97

(RHCH06) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1292.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 SDFLAP = .000

RUN NO. 27/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLW0	CM46	CM	XCPM	YCPM	CBM	CTM
.601	-10.362	-.01519	-.00923	.01134	-.11186	12.53125	2.71302	-.01974	-.01270
.601	-8.474	-.01136	-.00683	.00980	-.08570	12.59649	2.68510	-.01487	-.00881
.603	-6.372	-.00777	-.00429	.00828	-.05555	12.72222	2.55163	-.01044	-.00480
.601	-4.292	-.00446	-.00206	.00677	-.04320	12.97115	2.36543	-.00630	-.00094
.600	-2.198	-.00107	.00027	.00854	-.02324	13.63636	1.83940	-.00210	.00312
.603	-.121	.00236	.00261	.00854	-.00471	20.68114	-3.25321	.00217	.00733
.603	1.939	.00586	.00309	.00845	.01450	9.28364	5.22393	.00645	.01157
.599	4.072	.00971	.00782	.00826	.03560	10.94831	3.99621	.01116	.01591
.603	6.161	.01360	.01056	.00746	.05726	11.43140	3.66606	.01593	.01976
.599	8.249	.01781	.01349	.00603	.08137	11.69813	3.49151	.02112	.02351
.603	10.343	.02179	.01649	.00459	.09963	11.83169	3.48586	.02583	.02604
GRADIENT		.00169	.00118	-.00205	.00964	-.40324	.31843	.00208	.00202



LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/87

(RMCH08) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 34. FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

RUN NO. 26/ 0 RIVL = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CM4G	CMW	XCFW	YCFW	CBW	CTM
.601	-10.953	-0.1502	-0.0959	-0.1356	-0.10227	12.67951	2.81689	-0.01918	-0.00841
.601	-8.784	-0.1145	-0.0724	-0.1183	-0.07930	12.75935	2.79361	-0.01466	-0.00321
.601	-6.629	-0.0782	-0.0488	-0.1101	-0.05536	12.99402	2.76405	-0.01007	-0.00089
.601	-4.459	-0.0424	-0.0243	-0.1067	-0.03409	13.53603	2.63625	-0.00563	-0.00333
.600	-2.317	-0.0066	-0.0000	-0.1072	-0.01281	16.02401	1.93860	-0.00120	-0.00797
.601	-1.183	-0.0001	-0.0000	-0.1082	-0.00229	5.65106	4.64329	-0.00335	-0.01260
.601	1.962	-0.0694	-0.0329	-0.1093	-0.01106	10.38014	3.53296	-0.00621	-0.01761
.600	4.124	-0.1116	-0.0620	-0.1096	-0.05575	11.15068	3.31626	-0.01343	-0.02254
.601	6.259	-0.1569	-0.1139	-0.0911	-0.08099	11.51594	3.25587	-0.01699	-0.02651
.601	8.407	-0.1808	-0.1288	-0.0640	-0.09794	11.79974	3.17037	-0.02207	-0.02744
.601	10.555	-0.1980	-0.1410	-0.0435	-0.10924	11.66094	3.14755	-0.02435	-0.02782
GRADIENT		-0.00179	-0.01124	-0.00000	-0.01043	-4.48406	-1.40111	-0.00222	-0.00224

RUN NO. 25/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CM4G	CMW	XCFW	YCFW	CBW	CTM
.900	-11.165	-0.1576	-0.1010	-0.1574	-0.10661	12.75102	2.82601	-0.02010	-0.00716
.900	-8.938	-0.1166	-0.0747	-0.1252	-0.07892	12.80324	2.82320	-0.01487	-0.00443
.900	-6.725	-0.0732	-0.0458	-0.1013	-0.05161	12.98197	2.76985	-0.00942	-0.00096
.900	-4.515	-0.0287	-0.0154	-0.0827	-0.02505	13.61746	2.51442	-0.00389	-0.00269
.900	-2.350	-0.0156	-0.0149	-0.0681	-0.0132	-12.47403	12.52399	-0.01161	-0.00709
.900	-1.186	-0.0617	-0.0464	-0.0612	-0.02882	11.04167	3.44675	-0.00734	-0.01231
.900	1.991	-0.1015	-0.0735	-0.0642	-0.0274	11.47201	3.24401	-0.01290	-0.01775
.900	4.140	-0.1217	-0.0851	-0.0772	-0.06094	11.51828	3.09489	-0.01498	-0.02253
.901	6.313	-0.1462	-0.1014	-0.0707	-0.08438	11.69218	3.06419	-0.01805	-0.02520
.900	8.485	-0.1708	-0.1175	-0.0439	-0.10039	11.84237	3.03490	-0.02117	-0.02596
.900	10.643	-0.1911	-0.1308	-0.0200	-0.11359	11.96639	3.01732	-0.02373	-0.02640
GRADIENT		-0.0179	-0.01120	-0.00000	-0.01106	-9.1574	-3.37640	-0.00224	-0.00231

QUALITY

LARC 6-TPT-693 (IA43) CONFIGURATION 02/TA/S7

(RHCD06) ( 14 FEB 75 )

## REFERENCE DATA

MACH = 2690.0000 94. FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 24/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM0	CM4C	CM	XCFM	YCFM	CBM	CTW
.963	-11.382	-.01702	-.01077	.02055	-.11772	12.87885	2.79355	-.02181	-.00474
.961	-9.110	-.01250	-.00791	.01694	-.08645	12.98034	2.79960	-.01602	-.00163
.961	-6.847	-.00780	-.00470	.01427	-.05839	13.21039	2.69257	-.01018	.00173
.961	-4.634	-.00346	-.00180	.01232	-.03127	13.92088	2.47784	-.00473	.00560
.961	-2.424	-.00080	.00110	.01100	-.00565	21.29303	.11517	.00037	.00979
.961	-.223	.00562	.00446	.00875	.02185	10.14852	3.85063	.00651	.01344
.963	1.963	.01080	.00815	.00519	-.04991	11.55630	3.46803	.01283	.01591
.963	4.158	.01545	.01137	.00234	.07685	11.90542	3.32446	.01858	.01885
.963	6.333	.01893	.01369	.00004	.09870	12.04808	3.23784	.02295	.02124
.963	8.527	.02033	.01448	-.00060	.11019	12.07585	3.16952	.02482	.02307
.979	10.733	.02209	.01563	-.00206	.12167	12.13039	3.14182	.02704	.02408
GRADIENT		.00218	.00152	-.00117	.01237	-.52627	.22956	.00268	.00148

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-L1 = .000 ELV-R1 = .000  
ELV-R0 = .000 RUDDER = .000  
SPDRK = .000 BDFLAP = .000

RUN NO. 23/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM0	CM4C	CM	XCFM	YCFM	CBM	CTW
1.130	-11.604	-.01721	-.01106	.02534	-.11584	13.06866	2.83293	-.02183	.00045
1.132	-9.285	-.01275	-.00815	.02218	-.08664	13.26548	2.81969	-.01628	.00357
1.131	-7.014	-.00781	-.00478	.01874	-.05707	13.60908	2.72312	-.01013	.00648
1.130	-4.732	-.00275	-.00129	.01510	-.02793	14.63716	2.37800	-.00387	.00919
1.155	-2.482	.00312	.00280	.01036	.00603	3.88883	6.28998	.00337	.01165
1.130	-.262	.00855	.00653	.00594	.03616	11.27012	3.65984	.01002	.01371
1.130	1.952	.01338	.01002	.00154	.06329	11.93446	3.42162	.01596	.01514
1.130	4.161	.01782	.01305	-.00234	.08984	12.17366	3.29914	.02148	.01696
1.130	6.382	.02176	.01574	-.00626	.11339	12.31213	3.25885	.02638	.01810
1.130	8.580	.02411	.01733	-.00850	.12770	12.36603	3.20972	.02931	.01893
1.129	10.772	.02369	.01676	-.00635	.13053	12.28098	3.14131	.02900	.02169
GRADIENT		.00231	.00162	-.00197	.01314	.13546	-.04504	.00285	.00086



(RHCM06) ( 14 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/57

PARAMETRIC DATA

SREF = 2690.0000 34. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 22/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWD	CM4G	CMW	XCPM	YCPM	CBW	CTW
1.200	-11.663	-.01705	-.01111	.02732	-.11188	13.21790	2.86674	-.02160	.00348
1.200	-9.335	-.01220	-.00793	.02412	-.08043	13.47394	2.86216	-.01547	.00684
1.200	-7.034	-.00987	-.00425	.01866	-.04935	13.84537	2.74529	-.00888	.00806
1.201	-4.745	-.00104	-.00016	.01216	-.01657	15.53332	2.02902	-.00171	.00860
1.200	-2.504	.00465	.00387	.00659	.01469	9.92023	4.40597	.00525	.00975
1.200	-.249	.01001	.00756	.00204	.04615	11.84010	3.47313	.01189	.01195
1.201	1.952	.01439	.01061	-.00116	.07120	12.12736	3.33446	.01729	.01414
1.201	4.169	.01833	.01330	-.00426	.09474	12.26349	3.25353	.02219	.01609
1.200	6.396	.02183	.01570	-.00756	.11546	12.36089	3.21227	.02653	.01724
1.200	8.584	.02473	.01768	-.01032	.13222	12.42058	3.19106	.03008	.01809
1.200	10.810	.02512	.01775	-.00996	.13881	12.39067	3.13630	.03077	.01986
GRADIENT		.00218	.00151	-.00182	.01253	-.19547	-.06224	.00269	.00387

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 34. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

(RHCM07) ( 14 FEB 75 )

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/57

PARAMETRIC DATA

SREF = 2690.0000 34. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 32/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLWI	CLWD	CM4G	CMW	XCEM	YCEM	CBW	CTW
.601	-10.346	.00191	.00205	.00595	-.00264	22.76351	-5.34330	.00180	.00338
.601	-8.280	.00257	.00250	.00621	.00132	-9.70111	19.69932	.00262	.00632
.599	-6.214	.00276	.00259	.00670	.00320	2.11498	9.51512	.00289	.00739
.600	-4.152	.00290	.00280	.00738	.00188	-6.55369	15.86301	.00298	.00778
.601	-2.087	.00289	.00287	.00825	.00338	-91.93410	73.30122	.00291	.00833
.600	-.027	.00262	.00282	.00981	-.00377	24.41465	-5.07333	.00247	.00900
.600	2.030	.00276	.00303	.01113	-.00509	22.44140	-3.64221	.00255	.01004
.600	4.032	.00325	.00350	.01186	-.00471	24.00680	-5.02360	.00306	.01085
.599	6.156	.00390	.00408	.01180	-.00188	41.79375	-18.35125	.00390	.01140
.599	8.233	.00465	.00462	.01242	.00357	-92.31218	78.52284	.00467	.01234
.599	10.288	.00544	.00524	.00377	.00377	-4.49922	14.96787	.00559	.01394
GRADIENT		.00003	.00008	.00037	-.00090	8.51275	-5.75844	-.00001	.00038

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 34. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

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(RHCK07) ( 14 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/37

REFERENCE DATA

SREF = 2690.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 31/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLWI	CLWD	CMAG	CMW	XCFW	YCFW	CBW	CTW
.900	-10.647	.00347	.00260	.00231	.01659	11.38068	3.42478	.00414	.00563
.899	-8.324	.00431	.00319	.00253	.02110	11.48056	3.35502	.00517	.00706
.898	-6.398	.00518	.00382	.00211	.02562	11.65893	3.33543	.00622	.00761
.897	-4.268	.00603	.00442	.00180	.03032	11.76817	3.30386	.00726	.00831
.896	-2.159	.00647	.00478	.00283	.03183	11.62737	3.34517	.00777	.00967
.895	-.039	.00625	.00462	.00593	.02593	10.99584	3.61482	.00735	.01177
.894	2.095	.00674	.00523	.00962	.02931	10.47530	3.61780	.00792	.01595
.893	4.203	.00721	.00559	.01190	.03051	10.19828	3.63459	.00845	.01846
.892	6.333	.00763	.00591	.01292	.03240	10.15645	3.64735	.00895	.01988
.891	8.456	.00819	.00633	.01379	.03500	10.2073	3.59627	.00964	.02144
.890	10.586	.00874	.00667	.01500	.03899	10.20331	3.54101	.01033	.02338
GRADIENT		.00912	.00713	.00127	-.00012	-.20256	.04595	.00312	.00125

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFDORK = .000 BDFLAP = .000

RUN NO. 33/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLWI	CLWD	CMAG	CMW	XCFW	YCFW	CBW	CTW
.900	-10.749	.00162	.00152	.00929	.00188	-11.36847	9.48756	.00170	.00969
.891	-8.609	.00248	.00214	.00934	.00640	5.12514	5.06867	.00274	.01072
.892	-6.439	.00327	.00267	.00915	.01133	8.20574	4.15159	.00373	.01158
.893	-4.310	.00386	.00313	.00860	.01375	9.08026	4.07086	.00442	.01155
.894	-2.162	.00439	.00360	.00903	.01488	9.16860	4.20478	.00500	.01223
.895	-.040	.00500	.00445	.00982	.01978	9.69243	4.04621	.00631	.01407
.896	2.099	.00740	.00581	.00971	.02995	10.51055	3.75578	.00862	.01614
.897	4.233	.00917	.00705	.00936	.03993	10.93703	3.59236	.01080	.01794
.898	6.366	.01061	.00808	.00908	.04765	11.14529	3.52682	.01255	.01932
.899	8.529	.01161	.00876	.00999	.05368	11.16638	3.46714	.01380	.02152
.900	10.673	.01235	.00933	.01060	.05588	11.16521	3.47496	.01467	.02282
GRADIENT		.00064	.00047	.00010	.00316	.23684	-.06585	.00077	.00078



TABULATED SOURCE DATA - LARC 693 (1A43)

DATE 04 APR 75

(RMCM07) ( 14 FEB 75 )

LARC 6-TFT-693 (1A43) CONFIGURATION 02/14/57

REFERENCE DATA

SHEF = 2893.0000 90.FT. YMRP = 976.0000 IN. XT  
 LREF = 1293.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1293.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

ALPHA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDGRK = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 29/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMI	CLMO	CM4G	CM4J	XCFW	YCFW	CBM	CTM
1.120	-10.527	.00102	.00114	.01436	-.00226	42.21368	-2.78575	.00093	.01387
1.131	-8.661	.00243	.00217	.01439	.00490	-1.90180	6.08914	.00263	.01544
1.130	-6.489	.00407	.00325	.01312	.01544	8.01668	3.90961	.00470	.01644
1.130	-4.335	.00560	.00445	.01069	.02166	9.70673	3.86294	.00648	.01534
1.130	-2.164	.00705	.00559	.00902	.02750	10.49261	3.84265	.00617	.01493
1.130	-.040	.00860	.00672	.00714	.03541	11.09262	3.71618	.01004	.01475
1.130	2.114	.01048	.00796	.00484	.04746	11.56584	3.50944	.01241	.01504
1.130	4.250	.01227	.00922	.00245	.05745	11.84751	3.44191	.01461	.01479
1.129	6.413	.01382	.01027	-.00225	.06686	12.06775	3.37727	.01654	.01411
1.130	8.572	.01517	.01119	-.00261	.07496	12.21531	3.30679	.01822	.01349
1.129	10.756	.01627	.01196	-.00434	.08118	12.30384	3.31658	.01957	.01310
GRADIENT		.00078	.00056	-.00096	.00427	.24974	-.05478	.00096	-.00005

RUN NO. 28/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMI	CLMO	CM4G	CM4J	XCFW	YCFW	CBM	CTM
1.200	-10.871	.00197	.00190	.01413	.00132	-38.83466	15.43675	.00202	.01441
1.200	-8.688	.00384	.00320	.01319	.01205	6.85474	4.42510	.00433	.01578
1.200	-6.504	.00573	.00451	.01042	.02298	9.89697	3.77698	.00667	.01536
1.200	-4.341	.00721	.00563	.00764	.02976	10.83107	3.71063	.00842	.01403
1.200	-2.166	.00848	.00653	.00539	.03673	11.35322	3.60392	.00998	.01328
1.200	-.048	.00999	.00764	.00295	.04426	11.73356	3.55336	.01179	.01246
1.201	2.110	.01157	.00872	.00072	.05368	11.98632	3.46016	.01376	.01225
1.200	4.261	.01282	.00992	-.00165	.06216	12.17604	3.37324	.01535	.01170
1.200	6.423	.01392	.01024	-.00408	.06931	12.32948	3.32239	.01674	.01081
1.200	8.610	.01487	.01092	-.00592	.07440	12.42780	3.31342	.01790	.01006
1.200	10.785	.01568	.01148	-.00666	.07911	12.44973	3.29789	.01880	.01033
GRADIENT		.00067	.00046	-.00108	.00380	.13453	-.03808	.00082	-.00026

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/51

(RHC08) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDPRK = .000 BDFLAP = .000

RUN NO. 36/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
.600	-10.644	-.01490	-.01002	.01087	-.09192	12.61150	2.93970	-.01864	-.00668
.600	-8.536	-.01392	-.00759	.00945	-.11923	12.42633	2.53489	-.01877	-.01616
.600	-6.417	-.00930	-.00504	.00875	-.08024	12.56778	2.52696	-.01257	-.00849
.600	-4.342	-.00565	-.00263	.00852	-.05688	12.76117	2.37168	-.00797	-.00370
.599	-2.246	-.00237	-.00020	.00849	-.04087	13.03526	1.98443	-.00403	-.00029
.601	-.163	.00112	.00214	.00907	-.01921	14.29156	.89524	.00034	.00494
.599	1.927	.00474	.00463	.00933	.00207	-8.64368	22.87042	.00482	.00948
.600	4.023	.00864	.00741	.00894	.02317	10.21779	4.93453	.00958	.01392
.600	6.104	.01266	.01022	.00845	.04536	11.17701	4.02155	.01453	.01832
.600	8.206	.01673	.01308	.00701	.06875	11.56586	3.72071	.01953	.02178
.600	10.301	.02100	.01621	.00521	.09022	11.77581	3.62153	.02467	.02459
GRADIENT		.00171	.00119	.00037	.00971	-1.27922	1.24315	.00210	.00215

RUN NO. 35/ 0 RIVL = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
.901	-11.244	-.01430	-.01090	.01463	-.06404	13.13470	3.53289	-.01691	.00087
.899	-9.317	-.01292	-.00851	.01138	-.10209	12.57928	2.71942	-.01809	-.01055
.900	-6.812	-.01339	-.00594	.00948	-.14032	12.37077	2.33511	-.01910	-.02067
.899	-4.611	-.01286	-.00331	.00852	-.17988	12.27489	2.11096	-.02018	-.03012
.899	-2.417	-.01194	-.00007	.00741	-.22357	12.20737	1.94153	-.02104	-.04062
.901	-.252	.00357	.00302	.00727	.01036	8.71793	4.66923	.00399	.00950
.900	1.932	.00779	.00587	.00725	.03616	11.09681	3.45899	.00926	.01503
.900	4.101	.00802	.00744	.00772	.01092	8.69469	8.31776	.00846	.01007
.900	6.254	.00840	.00555	.00666	-.02185	13.49730	-2.15984	.00751	.00197
.900	8.443	.00896	.01149	.00416	-.04765	12.46449	-.31989	.00702	-.00608
.899	10.605	.00989	.01272	.00172	-.05330	12.20321	-.29662	.00772	-.00973
GRADIENT		.00282	.00126	-.00008	.02944	-.37947	.63922	.00402	.00624





TABLATED SOURCE DATA - LARC 693 (1A43)

LARC 8-TFT-693 (1A43) CONFIGURATION 02/14/51

REFERENCE DATA

MREF = 2630.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 34/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMAC	CMW	XCFW	YCFW	CBM	CTW
1.130	-11.691	-.00894	-.01267	.02866	-.07025	10.11309	-.24938	-.00608	-.04375
1.130	-9.367	-.00903	-.00973	.02510	-.01375	3.38250	-4.69980	-.00844	.02805
1.130	-7.073	-.00854	-.00641	.02144	-.04012	14.98739	3.43317	-.01017	-.01282
1.130	-4.800	-.00823	-.00280	.01745	-.10227	12.86010	2.19304	-.01239	-.00452
1.130	-2.540	-.00789	.00146	.01177	-.17611	12.36733	1.86095	-.01506	-.02606
1.130	-.322	-.00731	.00557	.00603	-.24260	12.16802	1.72354	-.01719	-.04609
1.130	1.904	-.00685	.00916	.00131	-.30155	12.07063	1.65407	-.01913	-.06347
1.130	4.113	-.00627	.01237	-.00262	-.35109	12.01457	1.60858	-.02056	-.07804
1.130	6.331	-.00590	.01521	-.00659	-.39573	11.97093	1.57858	-.02224	-.09160
1.130	8.532	-.00513	.01718	-.00942	-.42321	11.94356	1.55565	-.02079	-.09969
1.130	10.728	-.00437	.01705	-.00837	-.40345	11.94914	1.54276	-.02079	-.09524
GRADIENT		.00022	.00171	-.00227	-.02798	-.08940	-.06205	-.00092	-.00828

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPODRK = .000 BOFLAP = .000

RUN NO. 33/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMAC	CMW	XCFW	YCFW	CBM	CTW
1.200	-11.748	-.01903	-.01249	.03075	-.12318	13.23325	2.88834	-.02404	.00429
1.200	-9.404	-.01417	-.00928	.02716	-.09210	13.45011	2.88235	-.01792	.00737
1.200	-7.084	-.00900	-.00571	.02156	-.06197	13.70195	2.80170	-.01152	.00825
1.200	-4.812	-.00343	-.00177	.01495	-.03127	14.32026	2.46885	-.00470	.00823
1.200	-2.553	-.00238	.00238	.00834	-.00000	12.01040	1.46359	-.00238	.00834
1.200	-.319	-.00779	.00616	.00282	.00070	11.61388	3.81797	.00904	.00942
1.200	1.928	-.01256	.00945	-.00116	.05858	12.14402	3.44969	.01494	.01142
1.200	4.117	-.01679	.01238	-.00433	.08306	12.29751	3.33465	.02017	.01351
1.200	6.340	-.02069	.01502	-.00779	.10680	12.39634	3.25596	.02504	.01515
1.200	8.565	-.02500	.01718	-.01089	.12469	12.46468	3.22918	.02888	.01590
1.200	10.790	-.02575	.01847	-.01248	.13712	12.48214	3.20029	.03133	.01698
GRADIENT		.00227	.00159	-.00215	.01287	-.17620	.16659	-.00279	.00051

(RHCMD9) ( 14 FEB 72

TABULATED SOURCE DATA - LARC 693 (1A43)

LARC 8-TFT-693 (1A43) CONFIGURATION 02/12/87

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LRET = 1290.3000 INCHES YMRP = .0000 IN. YT  
 DRCT = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0120

RUN NO. 39/ 0 RVAL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWO	CMAC	CMW	XCPW	YCPW	CBM	CTW
.599	-10.618	-0.1516	-0.0922	.01154	-.11188	12.53974	2.71850	-.01971	-.01290
.603	-8.505	-0.1149	-0.0678	.01001	-.08871	12.58574	2.65446	-.01510	-.00905
.608	-6.385	-0.0785	-.0416	.00914	-.06350	12.67440	2.49924	-.01068	-.00579
.593	-4.299	-.00441	-.0181	.00870	-.04897	12.69351	2.28480	-.00640	-.00182
.599	-2.207	-.00104	.00054	.00851	-.02976	13.40774	1.76864	-.00225	.00212
.599	-.113	.00229	.00289	.00849	-.01130	15.61697	-.45673	.00183	.00605
.603	1.950	.00601	.00549	.00832	.00979	8.01658	7.18894	.00541	.01042
.599	4.041	.00978	.00813	.00819	.03108	10.79875	4.38893	.01105	.01487
.603	6.140	.01371	.01095	.00753	.05198	11.36225	3.91158	.01583	.01870
.599	8.245	.01783	.01386	.00636	.07478	11.64516	3.67477	.02087	.02242
.599	10.343	.02183	.01578	.00478	.09512	11.81140	3.59102	.02370	.02521
GRADIENT		.00170	.00119	-.00006	.00959	-.45802	.46031	.00209	.00200

RUN NO. 38/ 0 RVAL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWO	CMAC	CMW	XCPW	YCPW	CBM	CTW
.901	-11.211	-0.1582	-.00397	.01508	-.11019	12.69981	2.78614	-.02031	-.00959
.903	-8.953	-.01171	-.00733	.01169	-.08250	12.72280	2.77084	-.01507	-.00603
.903	-6.745	-.00723	-.00438	.00930	-.05368	12.87259	2.70287	-.00942	-.00223
.903	-4.536	-.00303	-.00149	.00772	-.02901	13.31369	2.41975	-.00421	.00149
.899	-2.355	.00165	.00174	.00590	-.00170	28.57541	-7.67587	.00158	.00554
.899	-.222	.00607	.00479	.00561	.02411	10.94517	3.79959	.00705	.01079
.901	1.990	.01024	.00757	.00547	.00029	11.53356	3.34855	.01229	.01627
.903	4.122	.01229	.00977	.00720	.06630	11.53438	3.17761	.01499	.02144
.900	6.292	.01466	.01034	.00669	.08137	11.65962	3.12890	.01797	.02417
.900	8.462	.01704	.01191	.00407	.09682	11.85000	3.09315	.02097	.02483
.903	10.650	.01918	.01332	.00142	.11037	11.98892	3.06998	.02367	.02513
GRADIENT		.00181	.00122	-.00007	.01122	-.94674	.57603	.00227	.00234

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = .000 ELV-R1 = .000  
 ELV-R0 = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAF = .000



TABULATED SOURCE DATA - LARC 693 (IA43)

LARC 8-TFT-693 (IA43) CONFIGURATION OC/12/37

DATE 04 APR 75

(RHCM09) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 37/0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLVO	CMAC	CMW	XCPW	YCPW	CBW	CTW	BETA	ELV-LO	ELV-RI	RUDDER	BDFLAP
1.130	-11.629	-0.1736	-0.1103	.02516	-.11923	13.05196	2.80314	-.02221	-.00045	.000	.000	.000	.000	.000
1.130	-9.315	-0.1276	-0.0803	.02187	-.09909	13.21555	2.78285	-.01639	.00273	.000	.000	.000	.000	.000
1.130	-7.022	-0.0795	-0.0472	.01856	-.06084	13.49950	2.66531	-.01043	.00549	.000	.000	.000	.000	.000
1.130	-4.742	-0.0274	-0.0112	.01482	-.03051	14.35609	2.28241	-.00396	.00826	.000	.000	.000	.000	.000
1.130	-2.514	.00301	.00293	.01035	.00151	-20.56319	20.15223	.00307	.01067	.000	.000	.000	.000	.000
1.130	-.282	.00854	.00681	.00571	.03258	11.21798	3.89618	.00987	.01271	.000	.000	.000	.000	.000
1.129	1.953	.01342	.01021	.00173	.06046	11.91414	3.52036	.01598	.01472	.000	.000	.000	.000	.000
1.129	4.129	.01787	.01326	-.03231	.08683	12.17631	3.36901	.02140	.01634	.000	.000	.000	.000	.000
1.129	6.350	.02177	.01594	-.00637	.10981	12.32343	3.29829	.02624	.01722	.000	.000	.000	.000	.000
1.129	8.522	.02418	.01756	-.00845	.12469	12.37177	3.25772	.02926	.01834	.000	.000	.000	.000	.000
1.129	10.737	.02360	.01703	-.00676	.12864	12.29950	3.17857	.02910	.02008	.000	.000	.000	.000	.000
GRADIENT		.00233	.00162	-.00193	.01323	1.26237	-.84914	.00286	.00091	.000	.000	.000	.000	.000

LARC 8-TFT-693 (IA43) CONFIGURATION OC/14/37

(RHCM10) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 96.FT. XMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

RUN NO. 43/0 RIVL = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLVO	CMAC	CMW	XCPW	YCPW	CBW	CTW	BETA	ELV-LO	ELV-RI	RUDDER	BDFLAP
.903	-11.136	-0.1244	-0.0812	.02085	-.08137	12.09960	2.87334	-.01575	-.01663	.000	.000	.000	.000	.000
.899	-8.901	-0.0868	-0.0575	-.00078	-.05895	11.98718	2.85217	-.01123	-.01345	.000	.000	.000	.000	.000
.903	-6.711	-0.0495	-0.0315	-.00155	-.03390	11.83293	2.80868	-.00633	-.00863	.000	.000	.000	.000	.000
.899	-4.516	-0.0268	-0.0037	-.00219	-.02961	10.96753	2.29939	-.00127	-.00423	.000	.000	.000	.000	.000
.899	-2.319	.00349	.00266	-.00248	.01563	12.80321	3.53236	.00413	.00088	.000	.000	.000	.000	.000
.899	-.168	.00799	.00576	-.00265	.04200	12.34956	3.22311	.00970	.00067	.000	.000	.000	.000	.000
.920	2.013	.01216	.00851	-.00314	.06875	12.26686	3.09806	.01496	.01163	.000	.000	.000	.000	.000
.900	4.166	.01503	.01032	-.00257	.08871	12.18755	3.02823	.01864	.01649	.000	.000	.000	.000	.000
.900	6.341	.01785	.01223	-.00379	.10585	12.22000	3.02080	.02216	.01895	.000	.000	.000	.000	.000
.899	8.529	.01981	.01349	-.00474	.11904	12.23906	3.00008	.02466	.02083	.000	.000	.000	.000	.000
.899	10.668	.02161	.01467	-.00572	.13072	12.29409	2.98981	.02693	.02136	.000	.000	.000	.000	.000
GRADIENT		.00187	.00126	-.00207	.01151	.08826	-.04752	.00234	.00241	.000	.000	.000	.000	.000

TABULATED SOURCE DATA - LARC 693 (IA43)

DATE 04 APR 75

(IRNCKID) ( 14 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/S7

REFERENCE DATA

MACH = 2690.0000 30. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 42/ 0 RVL = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CM4G	CMW	XCFW	YCFW	CBW	CTW
.980	-11.369	-.01497	-.00969	-.00747	-.05945	12.40564	2.85126	-.01902	-.01389
.981	-9.093	-.01066	-.00692	-.00537	-.07044	12.41195	2.65874	-.01353	-.00976
.981	-6.837	-.00616	-.00386	-.00341	-.04332	12.42374	2.77320	-.00792	-.00590
.990	-4.630	-.00189	-.00099	-.00224	-.01695	12.67741	2.48563	-.00256	-.00140
.981	-2.413	-.00242	-.00197	-.00125	-.00848	11.34977	4.11567	-.00277	-.00307
.980	-.203	-.00715	-.00530	-.00352	-.03503	12.12047	3.35564	-.00859	-.00701
.981	1.963	-.01239	-.00932	-.00325	-.06347	12.29311	3.26965	-.01497	-.01039
.980	4.184	-.01724	-.01245	-.00593	-.09022	12.36208	3.23117	-.02091	-.01345
.980	6.363	-.02072	-.01471	-.00776	-.11320	12.37548	3.15579	-.02533	-.01636
.980	8.542	-.02268	-.01589	-.00919	-.12789	12.39118	3.10239	-.02789	-.01828
.979	10.705	-.02437	-.01696	-.01083	-.13957	12.41843	3.07682	-.03205	-.01915
GRADIENT	.00219	.00219	.00154	-.00095	.01224	.01394	.02962	.00269	.00168

RUN NO. 41/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CM4G	CMW	XCFW	YCFW	CBW	CTW
1.130	-11.592	-.01576	-.01036	-.01507	-.10171	12.75350	2.89268	-.01990	-.00678
1.131	-9.275	-.01115	-.00733	-.01201	-.07195	12.84254	2.89284	-.01408	-.00345
1.130	-6.960	-.00639	-.00404	-.00884	-.04426	12.99826	2.79353	-.00819	-.00067
1.130	-4.711	-.00126	-.00051	-.00549	-.01413	13.89824	2.27676	-.00164	-.00246
1.130	-2.467	-.00472	-.00369	-.00398	-.01940	11.81015	3.72019	-.00351	-.00515
1.130	-.236	-.01022	-.00754	-.00288	-.05048	12.32089	3.33772	-.01227	-.00796
1.130	1.990	-.01504	-.01097	-.00550	-.07605	12.45259	3.27899	-.01816	-.00997
1.130	4.175	-.01931	-.01393	-.00968	-.10133	12.50356	3.22622	-.02344	-.01209
1.130	6.378	-.02314	-.01652	-.01304	-.12337	12.55186	3.19817	-.02816	-.01346
1.130	8.566	-.02626	-.01878	-.01600	-.14089	12.58821	3.18717	-.03200	-.01427
1.130	10.782	-.02469	-.01721	-.01316	-.14289	12.49330	3.08279	-.03043	-.01711
GRADIENT	.00232	.00232	.00163	-.00170	.01297	-.09689	.06596	.00284	.00108

PARAMETRIC DATA

BETA = .000 ELV-LO = .0000  
 ELV-LI = 8.000 ELV-RI = 8.0000  
 ELV-RO = .000 RUDDER = .0000  
 SPDRK = .000 BOFLAP = .000



TABULATED SOURCE DATA - LARC 693 (IA43)

(RHCMI0) ( 14 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 40/ 0 RIVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CM46	CMW	XCPW	YCPW	CBW	CTW
1.200	-11.658	-0.01563	-0.01044	0.01735	-0.09813	12.68947	2.93511	-0.01964	-0.00375
1.201	-9.332	-0.01069	-0.00717	0.01396	-0.06630	13.04974	2.93157	-0.01339	-0.00026
1.201	-7.003	-0.00348	-0.00351	0.00896	-0.03711	13.18373	2.82465	-0.00699	0.00089
1.200	-4.714	0.00059	0.00073	0.00275	-0.00640	14.08890	0.70087	0.00013	0.00137
1.200	-2.469	0.00625	0.00489	-0.00269	0.02362	12.54860	3.72669	0.00729	0.00281
1.200	-.235	0.01149	0.00933	-0.00651	0.05375	12.60441	3.37170	0.01376	0.00347
1.200	1.959	0.01587	0.01153	-0.00921	0.08174	12.58495	3.25977	0.01920	0.00635
1.200	4.180	0.01968	0.01426	-0.01179	0.10585	12.57884	3.20043	0.02419	0.01095
1.200	6.407	0.02335	0.01670	-0.01461	0.12325	12.60382	3.18746	0.02845	0.01230
1.200	8.592	0.02610	0.01861	-0.01694	0.14107	12.62015	3.17422	0.03184	0.01337
1.200	10.815	0.02731	0.01929	-0.01750	0.15106	12.60006	3.13473	0.03346	0.01495
	GRADIENT	0.00219	0.00152	-0.00160	0.01263	-0.13476	-0.16956	0.00270	0.00111

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-L1 = 6.000 ELV-RI = 6.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 47/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CM46	CMW	XCPW	YCPW	CBW	CTW
0.900	-11.123	-0.01040	-0.00654	-0.00241	-0.07270	11.89261	2.78118	-0.01336	-0.01603
0.900	-8.902	-0.00692	-0.00428	-0.00395	-0.04972	11.67283	2.74483	-0.00894	-0.01463
0.901	-6.699	-0.00301	-0.00164	-0.00457	-0.02590	11.20911	2.53391	-0.00406	-0.01011
0.899	-4.520	0.00098	0.00097	-0.00454	-0.00170	-6.66616	-3.42119	0.00081	-0.00490
0.899	-2.336	0.00514	0.00392	-0.00486	0.02298	13.05420	3.53648	0.00608	0.00008
0.899	-.153	0.00946	0.00683	-0.00457	0.04954	12.48803	3.23007	0.01146	0.00607
0.899	2.027	0.01363	0.00961	-0.00516	0.07572	12.37557	3.12742	0.01671	0.01111
0.899	4.191	0.01775	0.01239	-0.00663	0.10296	12.36181	3.08814	0.02186	0.01506
0.899	6.379	0.02056	0.01411	-0.00733	0.11772	12.34564	3.06131	0.02515	0.01796
0.899	8.532	0.02178	0.01494	-0.00804	0.12883	12.34651	3.02481	0.02702	0.01964
0.900	10.695	0.02384	0.01629	-0.00997	0.14221	12.38288	3.01158	0.02963	0.02058
	GRADIENT	0.00194	0.00131	-0.00021	0.01187	1.16396	0.37936	0.00243	0.00234

PARAMETRIC DATA

BETA = .000 ELV-LC = 4.000  
 ELV-L1 = 6.000 ELV-RI = 6.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

(RHCMI1) ( 14 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/T4/S7

ORIGINAL PAGE IS OF POOR QUALITY

LARC 8-TFT-693 (1A43) CONFIGURATION 02/14/57

(RHCMI3) ( 14 FEB 75

REFERENCE DATA

SREF = 2690.0000 30.FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 0.000 ELV-RI = 0.000  
 ELV-RO = 4.000 RUDDER = .000  
 SFDRIK = .000 BDFLAP = .000

RUN NO. 45/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMAC	CMW	XCFW	YCFW	CBM	CTW
.981	-11.361	-0.1274	-0.0798	.00414	-.08966	12.26925	2.77231	-.01639	-.01512
.981	-9.085	-.00864	-.00530	.00189	-.05291	12.19265	2.72773	-.01120	-.01162
.981	-6.833	-.00397	-.00214	-.00008	-.03447	12.03898	2.52014	-.00557	-.00748
.981	-4.607	-.00039	.00082	-.00126	-.00810	11.31134	.99026	-.00006	-.00000
.981	-2.336	.00478	.00386	-.00241	-.01733	12.71035	4.02510	.00549	.00131
.981	-.182	.00951	.00722	-.00407	.04502	12.47928	3.44090	.01144	.00560
.980	2.000	.01480	.01035	-.00652	-.07252	12.47690	3.35300	.01775	.00906
.980	4.181	.01899	.01383	-.00829	-.09719	12.45499	3.27148	.02295	.01259
.980	6.376	.02245	.01605	-.01035	-.12054	12.44585	3.18574	.02736	.01585
.980	8.557	.02402	.01695	-.01131	-.13316	12.45326	3.13085	.02944	.01730
.980	10.745	.02630	.01842	-.01412	-.14842	12.50170	3.10107	.03234	.01777
GRADIENT		.00215	.00151	-.00083	.01210	.09378	-.17772	.00264	.00177

RUN NO. 45/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMAC	CMW	XCFW	YCFW	CBM	CTW
1.129	-11.559	-0.1381	-0.0980	.01197	-.09436	12.65228	2.81210	-.01765	-.00830
1.131	-9.282	-.00945	-.00601	.00944	-.06479	12.74176	2.80743	-.01209	-.00448
1.131	-6.965	-.00453	-.00260	.00624	-.03635	12.86502	2.60854	-.00601	-.00157
1.131	-4.735	.00052	.00090	.00274	-.00716	13.86765	.76078	.00023	.00120
1.131	-2.459	.00655	.00520	-.00172	.02562	12.36881	3.64004	.00760	.00378
1.130	-.226	.01204	.00903	-.00343	-.05669	12.50475	3.43050	.01435	.00675
1.131	1.980	.01673	.01227	-.00871	.08344	12.54563	3.31600	.02010	.00922
1.131	4.188	.02097	.01517	-.01174	.10924	12.56025	3.23930	.02542	.01173
1.130	6.419	.02449	.01761	-.01470	.12959	12.58861	3.21149	.02977	.01314
1.131	8.602	.02626	.01870	-.01587	.14239	12.57917	3.16969	.03206	.01472
1.130	10.802	.02639	.01853	-.01535	.14834	12.54230	3.11099	.03242	.01645
GRADIENT		.00230	.00160	-.00162	.01308	-.11016	-.20041	.00283	.00119



(RMCM11) ( 14 FEB 75 ) LARC 6-TPT-693 (IA43) CONFIGURATION 02/14/57

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 976.0000 IN. XT BETA = .000 ELV-LO = 4.000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-L1 = 6.000 ELV-RI = 6.000  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = 4.000 RUDDER = .000  
 SCALE = .0100 SPDRBK = .000 BOFLAP = .000

RUN NO. 44/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CM46	CMW	XCPW	YCPW	CBJ	CTW
1.200	-11.642	-0.1394	-0.0907	.01416	-.09173	12.78295	2.86478	-.01767	-.00555
1.202	-9.312	-.00695	-.00580	.01055	-.05933	12.89428	2.85426	-.01137	-.00220
1.203	-7.015	-.00379	-.00218	.00641	-.03032	13.05363	2.61596	-.00502	-.00010
1.200	-4.718	-.00207	.00198	-.00010	.00179	12.33009	12.87921	.00214	.00026
1.200	-2.458	-.00788	.00608	-.00475	.03390	12.71522	3.61837	.00926	.00253
1.200	-.227	-.01299	.00964	-.00875	.06310	12.70842	3.36964	.01556	.00481
1.201	4.169	.01727	.01256	-.01130	-.08871	12.65478	3.26473	.02098	.00776
1.201	6.403	.02455	.01761	-.01373	-.11169	12.63366	3.21749	.02573	.01026
1.201	8.611	.02725	.01946	-.01641	.13072	12.64606	3.20048	.02987	.01167
1.200	10.844	.02822	.02002	-.01876	.14673	12.65707	3.18089	.03322	.01276
GRADIENT		.00214	.00148	-.00152	.15445	12.63594	3.18274	.03451	.01412
					-.00235	.02474	-.88775	.00264	.00113

(RMCM12) ( 14 FEB 75 ) LARC 6-TPT-693 (IA43) CONFIGURATION 02/14/57

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 976.0000 IN. XT BETA = .000 ELV-LO = 6.000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-L1 = 6.000 ELV-RI = 6.000  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = 6.000 RUDDER = .000  
 SCALE = .0100 SPDRBK = .000 BOFLAP = .000

RUN NO. 51/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CM46	CMW	XCPW	YCPW	CBJ	CTW
1.200	-11.131	-.00946	-.00572	-.00463	-.07044	11.73793	2.69918	-.01233	-.01876
1.203	-8.904	-.00592	-.00345	-.00621	-.05322	11.41622	2.63321	-.00781	-.01620
1.200	-6.707	-.00287	-.00153	-.00554	-.02324	11.00781	2.50641	-.00390	-.01096
1.201	-4.312	.00109	.00115	-.00566	-.00113	-11.72979	-7.59299	.00104	-.00590
1.200	-2.332	.00535	.00414	-.00584	.02279	13.26666	3.64011	.00628	-.00094
1.200	-.135	.01046	.00762	-.00685	.05349	12.65802	3.27291	.01264	.00464
1.200	2.031	.01554	.01114	-.00877	.08287	12.53245	3.19767	.01891	.00903
1.200	4.201	.01949	.01382	-.01024	.10680	12.50326	3.15071	.02304	.01270
1.200	6.377	.02202	.01541	-.01064	.12450	12.45377	3.09796	.02709	.01611
1.200	8.527	.02328	.01614	-.01111	.13448	12.44225	3.06275	.02875	.01776
1.200	10.691	.02519	.01739	-.01338	.14691	12.48242	3.04732	.03117	.01818
GRADIENT		.00216	.00148	-.00033	.15445	12.48242	3.04732	.03117	.01818
					.01266	2.19417	.96693	.00267	.00217

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LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/75

(RHCM12) ( 14 FEB 75

REFERENCE DATA

HREF = 2690.0000 90.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LJ = 8.000 ELV-RI = 8.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

RUN NO. 50/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
.981	-11.357	-.01119	-.02666	.00241	-.08532	12.07282	2.66973	-.01466	-.01752
.981	-9.083	-.00702	-.00393	-.00188	-.05820	11.89663	2.57109	-.00939	-.01438
.981	-6.837	-.00263	-.00099	-.00051	-.03089	11.51048	2.23880	-.00389	-.01015
.981	-4.607	-.00198	.00214	-.00486	-.00301	4.39299	-4.71279	.00186	-.00551
.981	-2.395	.00634	.00515	-.00601	.02241	13.32312	4.09078	.00725	-.00119
.981	-.201	-.01134	.00863	-.00773	.05104	12.76904	3.52225	.01342	.00324
.981	1.987	.01604	.01199	-.00973	.07628	12.55936	3.41085	.01915	.00660
.981	4.183	.02356	.01508	-.01164	.10322	12.58545	3.30738	.02476	.01053
.981	6.369	.02666	.01700	-.01333	.12544	12.55454	3.20799	.02877	.01362
.980	8.567	.02526	.01791	-.01465	.13844	12.55245	3.15039	.03090	.01509
.983	10.735	.02776	.01957	-.01737	.15426	12.58464	3.12690	.03404	.01577
GRADIENT		.00213	.00149	-.00079	.01213	.71733	.70286	.00263	.00182

RUN NO. 49/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
1.131	-11.578	-.01251	-.00775	.00888	-.08966	12.52027	2.74828	-.01616	-.01038
1.130	-9.254	-.00807	-.00485	.00599	-.06085	12.51894	2.68764	-.01094	-.00704
1.130	-6.971	-.00318	-.00148	.00261	-.03202	12.43702	2.37154	-.00448	-.00427
1.130	-4.631	.00209	.00220	-.00094	-.00207	9.89584	-8.00741	.00201	-.00139
1.130	-2.453	.00806	.00637	-.00505	.03183	12.80326	3.81304	.00936	.00179
1.130	-.224	.01322	.01003	-.00846	.06003	12.71853	3.50221	.01567	.00445
1.131	1.983	.01777	.01313	-.01144	.08729	12.67151	3.34583	.02133	.00734
1.131	4.187	.02186	.01592	-.01431	.11188	12.65729	3.27143	.02641	.00973
1.130	6.401	.02524	.01821	-.01700	.13241	12.65959	3.22577	.03063	.01145
1.129	8.603	.02672	.01906	-.01765	.14428	12.63084	3.17601	.03259	.01334
1.130	10.798	.02713	.01914	-.01766	.15043	12.60717	3.12988	.03326	.01467
GRADIENT		.00222	.00154	-.00149	.01278	.24373	.99853	.00274	.00125





LARC 8-TFT-693 (1A43) CONFIGURATION 02/TA/S7

(RMCH12) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 48/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 8.000 ELV-RI = 8.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MACH	ALPHA	CLMT	CLWD	CM46	CM	XCPW	YCPW	CBW	CTW
1.201	-11.647	-.01277	-.00811	-.01187	-.08777	12.69211	2.80407	-.01634	-.00657
1.201	-9.314	-.00768	-.00473	-.00831	-.05556	12.76010	2.75597	-.00894	-.00363
1.200	-7.006	-.00246	-.00108	-.00307	-.02599	12.61079	2.32779	-.00352	-.00251
1.200	-4.735	-.00321	-.00294	-.00255	-.00509	14.49078	7.35365	-.00342	-.00146
1.200	-2.466	-.00881	-.00586	-.00714	-.03673	12.49301	3.88808	-.01031	-.00073
1.200	-.225	-.01396	-.01042	-.01077	-.06668	12.81693	3.40240	-.01667	-.00395
1.200	1.985	-.01810	-.01321	-.01300	-.09210	12.72016	3.28202	-.02185	-.00678
1.200	4.182	-.02201	-.01587	-.01559	-.11565	12.69006	3.22397	-.02672	-.00925
1.200	6.408	-.02525	-.01810	-.01804	-.13467	12.68602	3.19750	-.03073	-.01089
1.200	8.613	-.02756	-.01964	-.01978	-.14917	12.67957	3.17180	-.03365	-.01227
1.200	10.837	-.02812	-.01987	-.01963	-.15539	12.64980	3.13634	-.03445	-.01375
GRADIENT		-.00211	-.00145	-.00143	-.01241	-.16833	-.39077	-.00261	-.00123

REFERENCE DATA

SREF = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 55/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

LARC 8-TFT-693 (1A43) CONFIGURATION 02/TA/S7

(RMCH13) ( 14 FEB 75 )

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 8.000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MACH	ALPHA	CLMT	CLWD	CM46	CM	XCPW	YCPW	CBW	CTW
1.900	-11.147	-.00997	-.00606	-.00082	-.07365	11.99069	2.70935	-.01297	-.01674
1.901	-8.922	-.00678	-.00404	-.00226	-.05161	11.64208	2.67185	-.00888	-.01335
1.901	-6.750	-.00322	-.00172	-.00273	-.02825	11.59121	2.50884	-.00437	-.00880
1.901	-4.514	-.00073	-.00083	-.00309	-.00245	6.05819	-1.23647	-.00060	-.00362
1.900	-2.345	-.00480	-.00365	-.00335	-.02166	12.78433	3.51699	-.00566	-.00130
1.901	-.177	-.00939	-.00685	-.00361	-.04784	12.40827	3.27974	-.01134	-.00667
1.900	2.009	-.01433	-.01023	-.00320	-.07722	12.36971	3.17943	-.01747	-.01139
1.900	4.169	-.01825	-.01295	-.00602	-.09983	12.35633	3.15370	-.02231	-.01543
1.900	6.330	-.02063	-.01447	-.00527	-.11602	12.30658	3.10677	-.02535	-.01866
1.901	8.505	-.02237	-.01549	-.00712	-.12959	12.31088	3.05825	-.02765	-.02072
1.900	10.670	-.02404	-.01657	-.00935	-.14070	12.36552	3.04171	-.02977	-.02088
GRADIENT		-.00205	-.00142	-.00306	-.01198	-.55878	-.38854	-.00254	-.00222

LARC 8-TFT-693 (IA43) CONFIGURATION 02/14/75

(RHCN13) ( 14 FEB 75

REFERENCE DATA

SREF = 2890.0000 38. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 SREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 8.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 8.000 RUDDER = .000  
 SFCBRK = .000 SDFLAP = .000

RUN NO. 54/ 0 RIVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWO	CM46	CMW	XCFW	YCFW	CBW	CTW
.990	-11.366	-.01177	-.00690	.00509	-.09022	12.31787	2.66327	-.01544	-.01429
.991	9.083	-.00753	-.00421	.00248	-.08253	12.23830	2.56921	-.01008	-.01095
.991	-6.851	-.00288	-.00106	.00317	-.03428	12.07355	2.22824	-.00428	-.00719
.991	-4.626	.00147	.00185	-.00120	-.00716	11.25395	-.48247	.00118	-.00274
.981	-2.412	.00587	.00486	-.00246	.01902	12.60398	4.33155	.00654	.00163
.991	-2.209	.01052	.00818	-.00429	.04596	12.49321	3.60578	.01249	.00558
.980	1.975	.01563	.01171	-.00698	.07327	12.50232	3.43561	.01858	.00876
.980	4.196	.01989	.01466	-.00875	.09851	12.47174	3.33256	.02390	.01241
.980	6.351	.02299	.01658	-.00934	.12373	12.42517	3.22491	.02790	.01640
.980	8.538	.02453	.01748	-.01026	.15279	12.41586	3.17162	.02994	.01827
.990	10.712	.02653	.01882	-.01245	.14710	12.45185	3.13696	.03262	.01915
GRADIENT		.00212	.00148	-.00089	.01210	.10394	.30799	.00261	.00171

RUN NO. 53/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWO	CM46	CMW	XCFW	YCFW	CBW	CTW
1.129	-11.593	-.01314	-.00808	.01368	-.09531	12.75152	2.73271	-.01702	-.00679
1.131	-9.276	-.00867	-.00515	.01068	-.06630	12.81484	2.66618	-.01137	-.00356
1.130	-6.973	-.00370	-.00173	.00726	-.03711	12.97899	2.37532	-.00321	-.00071
1.130	-4.724	.00153	.00187	.00358	-.00640	14.70428	-.79655	.00127	.00220
1.130	-2.472	.00749	.00610	-.00090	.02618	12.21322	4.12100	.00856	.00472
1.133	-2.243	.01260	.00967	-.00434	.05519	12.42339	3.57986	.01485	.00752
1.133	1.974	.01719	.01283	-.00760	.08212	12.48941	3.40199	.02053	.01004
1.133	4.178	.02129	.01558	-.01049	.10755	12.51311	3.29551	.02567	.01261
1.130	6.380	.02471	.01787	-.01356	.12883	12.54974	3.23783	.02995	.01412
1.129	8.575	.02636	.01887	-.01436	.14107	12.53330	3.19148	.03210	.01595
1.129	10.776	.02635	.01866	-.01346	.14503	12.49065	3.14375	.03226	.01770
GRADIENT		.00221	.00154	-.00137	.01276	-.18937	.33715	.00273	.00117



LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/75

(RMCH13) ( 14 FEB 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 52/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = .000 ELV-LO = 0.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 0.000 RUDDER = .000  
 SFDPRK = .000 BOFLAP = .000

MACH	ALPHA	CLMI	CLWD	CMAC	CMW	XCFW	YCFW	CBM	CTW
1.200	-11.676	-0.1345	-0.0844	.01718	-.09436	12.91443	2.77637	-.01729	-.00309
1.201	-9.331	-.00834	-.00508	.01363	-.06140	13.10395	2.71353	-.01084	-.00044
1.200	-7.027	-.00311	-.00144	.00816	-.03145	13.28173	2.36741	-.00439	.00140
1.200	-4.744	-.00264	.00261	.00174	.00057	-2.57079	45.20372	.00266	.00186
1.200	-2.486	-.0023	.00652	-.00280	.03221	12.46277	3.83474	.00954	.00412
1.200	-.243	-.01326	.01000	-.00620	-.06140	12.32942	3.46406	.01376	.00699
1.200	1.964	-.01752	.01290	-.00889	.08702	12.53507	3.32717	.02106	.00980
1.200	4.171	.02140	.01553	-.01151	.11056	12.54429	3.25429	.02590	.01224
1.200	6.387	.02464	.01773	-.01437	.13015	12.57423	3.21460	.02994	.01399
1.200	8.594	.02714	.01936	-.01665	.14654	12.58948	3.17610	.03311	.01483
1.200	10.804	.02737	.01933	-.01613	.15143	12.55973	3.13422	.03353	.01640
GRADIENT		.00210	.00145	-.00146	.01234	1.36622	-3.80535	.00260	.00119

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/75

(RMCH14) ( 14 FEB 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 59/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SFDPRK = .000 BOFLAP = .000

MACH	ALPHA	CLMI	CLWD	CMAC	CMW	XCFW	YCFW	CBM	CTW
.920	-11.144	-0.1157	-.00714	.00258	-.08344	12.19681	2.74012	-.01497	-.01939
.900	-8.925	-.00808	-.00489	.00018	-.06008	12.06422	2.70092	-.01053	-.01273
.900	-6.721	-.00360	-.00200	-.00167	-.03390	11.81612	2.49116	-.00518	-.00895
.901	-4.329	.00028	.00069	-.00255	-.00772	10.48217	1.10168	-.00003	-.00421
.900	-2.338	.00459	.00371	-.00309	.01657	12.93515	4.03517	.00526	.00047
.901	-.183	.00668	.00646	-.00286	.04181	12.37475	3.39570	.01038	.00612
.901	1.988	.01248	.00891	-.00215	-.06724	12.20181	3.17976	.01522	.01230
.901	4.158	.01567	.01103	-.00173	.08739	12.14399	3.12076	.01923	.01705
.901	6.332	.01832	.01279	-.00264	.10416	12.17034	3.08878	.02256	.01974
.901	8.511	.02039	.01416	-.00414	.11734	12.21752	3.06990	.02517	.02107
.903	10.682	.02206	.01525	-.00598	.12827	12.27136	3.05223	.02728	.02158
GRADIENT		.00178	.00119	.00012	.01110	.11986	-.14726	.00223	.00250

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57

(RMCH14) ( 14 FEB 75

REFERENCE DATA

SREF = 2690.0000 50. FT. XMRP = 976.0000 IN. XT  
 LREF = 1230.0000 INCHES YMRP = .0000 IN. YT  
 BREF = 1230.0000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-L1 = 4.000 ELV-R1 = 4.000  
 ELV-R0 = 4.000 RUDDER = .000  
 SFD8RK = .000 BDFLAP = .000

RUN NO. 52/ 0 RW/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWD	CMAC	CIAM	XCFW	YCFW	CBM	CTW
.981	-11.379	-.01393	-.00855	.00912	-.10133	12.47732	2.72892	-.01806	-.01265
.981	-9.090	-.00961	-.00379	.00638	-.07195	12.47102	2.69236	-.01254	-.00900
.981	-6.856	-.00521	-.00268	.00407	-.04389	12.49033	2.51060	-.00680	-.00536
.981	-4.634	-.00075	.00022	.00259	-.01827	12.72309	1.82581	-.00149	-.00133
.981	-2.421	.00363	.00321	.00123	.00791	11.31176	5.73939	.00395	.00293
.981	-2.19	.00347	.00661	-.00053	.00503	12.12183	3.70589	.00990	.00700
.981	1.379	.01367	.01330	-.00354	.06347	12.31480	3.45854	.01625	.01010
.981	4.148	.01808	.01338	-.00581	.08852	12.36162	3.35432	.02168	.01321
.981	6.345	.02121	.01537	-.00660	.11020	12.33429	3.24742	.02569	.01703
.981	8.528	.02296	.01630	-.00735	.12356	12.33244	3.17427	.02789	.01919
.981	10.718	.02474	.01753	-.00929	.13580	12.37481	3.14771	.03027	.01988
GRADIENT		.00217	.00152	-.00398	.01225	.01250	.03605	.00267	.00165

RUN NO. 57/ 0 RW/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWI	CLWD	CMAC	CIAM	XCFW	YCFW	CBM	CTW
1.130	-11.501	-.01493	-.00936	.01681	-.10435	12.81489	2.77880	-.01915	-.00561
1.129	-9.291	-.01033	-.00643	.01359	-.07459	12.92147	2.74609	-.01343	-.00233
1.129	-7.020	-.00559	-.00312	.01064	-.04552	13.13589	2.56677	-.00748	.00065
1.129	-4.709	-.00038	.00046	.00704	-.01582	14.16269	1.66627	-.00102	.00364
1.129	-2.469	.00552	.00464	.00242	.01657	11.35677	4.173	.00618	.00599
1.129	-2.236	.01103	.00948	-.00169	.04803	12.21707	3.59237	.01299	.00863
1.129	1.959	.01566	.01174	-.00513	.07383	12.37989	3.45796	.01867	.01073
1.129	4.172	.01996	.01465	-.00838	.10001	12.44783	3.31062	.02403	.01311
1.129	6.389	.02363	.01719	-.01175	.12130	12.50993	3.26602	.02857	.01431
1.122	8.571	.02565	.01844	-.01341	.13580	12.51885	3.21047	.03118	.01576
1.123	10.770	.02539	.01801	-.01198	.13920	12.45921	3.15220	.03105	.01788
GRADIENT		.00229	.00160	-.00173	.01332	-.10919	.09792	.00282	.00107



LARC 8-TFT-693 (IA43) CONFIGURATION 02/TA/S7 (RMCH14) ( 14 FEB 75 )

## REFERENCE DATA

REF = 2690.0000 SQ.FT. XGRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YGRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZGRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 56/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	CLM4	CLM5	CLM6	CLM7	CLM8	CLM9	CLM10	YCFM	CBM	CTM
1.200	-11.671	-0.1301	-0.0961	0.1978	-0.1071	12.97337	2.82361	-0.01815	-0.00207					
1.199	-9.336	-0.01008	-0.00638	-0.01633	-0.06969	13.16257	2.79611	-0.01292	.00136					
1.201	-7.037	-0.00484	-0.00277	0.1118	-0.03899	13.41149	2.61497	-0.00643	.00280					
1.200	-4.747	-0.01110	-0.0149	-0.03470	-0.00735	15.08792	.03866	.00080	.00312					
1.201	-2.480	-0.06993	-0.0962	-0.00087	0.02467	12.21741	4.07206	.00793	.00443					
1.200	-.249	-0.1203	-0.0917	-0.00462	0.05387	12.45721	3.53309	.01422	.00695					
1.200	1.960	-0.01626	-0.01205	-0.00714	0.07930	12.47752	3.36199	.01949	.00990					
1.200	4.166	-0.02020	-0.01471	-0.00971	0.10340	12.49595	3.27108	.02441	.01250					
1.200	6.393	-0.02367	-0.01710	-0.01278	0.12375	12.54035	3.23294	.02871	.01360					
1.200	8.589	-0.02620	-0.01680	-0.01509	0.13936	12.56404	3.20201	.03187	.01485					
1.200	10.813	-0.02670	-0.01895	-0.01494	0.14597	12.53595	3.15458	.03264	.01642					
	GRADIENT	.00214	.00148	-0.00158	0.01240	-0.22249	.26008	.00264	.00109					

## PARAMETRIC DATA

BETA = .000 ELV-LO = 4.000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = 4.000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

LARC 8-TFT-693 (IA43) CONFIGURATION 02/TA/S7

(RMCH15) ( 14 FEB 75 )

## REFERENCE DATA

REF = 2690.0000 SQ.FT. XGRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YGRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZGRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 63/ 0 RIVL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	CLM4	CLM5	CLM6	CLM7	CLM8	CLM9	CLM10	YCFM	CBM	CTM
1.200	-11.161	-0.01298	-0.00832	0.00589	-0.08777	12.35239	2.82648	-0.01655	-0.01327					
1.199	-8.937	-0.00925	-0.00584	-0.02255	-0.06442	12.23796	2.78779	-0.01186	-0.01129					
1.201	-6.731	-0.00494	-0.00299	0.00062	-0.03673	12.19015	2.70113	-0.00644	-0.00727					
1.200	-4.532	-0.00073	-0.00015	-0.00047	-0.01092	11.84573	2.06721	-0.00117	-0.00282					
1.200	-2.345	-0.00353	-0.00280	-0.00108	0.01375	12.42294	3.84605	.00409	.00187					
1.200	-.188	-0.00793	-0.00585	-0.00154	0.03916	12.23664	3.33726	.00952	.00688					
1.200	1.992	-0.01196	-0.00849	-0.00107	0.06536	12.12773	3.15534	.01462	.01297					
1.200	4.143	-0.01368	-0.00947	-0.00129	0.07930	11.97276	3.05723	.01691	.01633					
1.200	6.320	-0.01654	-0.01140	-0.00056	0.09681	12.03234	3.04156	.02048	.02116					
1.200	8.485	-0.01864	-0.01276	-0.00104	0.11075	12.09459	3.01778	.02315	.02275					
1.200	10.656	-0.02019	-0.01360	-0.00272	0.12036	12.15730	3.01258	.02509	.02314					
	GRADIENT	.00172	.00115	-0.00016	0.01070	-0.00176	.00980	.00215	.00246					

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57

(RHCM15) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 \*SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = 4.000 ELV-RI = 4.000  
 ELV-RO = .000 RUDDER = .000  
 SFLAP = .000 BOFLAP = .000

RUN NO. 62/ 0 RVL = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	KCFW	YCFW	CBW	CTW
.980	-11.333	-0.0158	-0.00975	.01206	-.10604	12.58998	2.79982	-.01970	-.01072
.991	-9.108	-0.0100	-0.00694	.00935	-.07647	12.63053	2.78867	-.01411	-.00706
.981	-6.865	-0.00643	-0.00384	.00714	-.04878	12.74493	2.67591	-.00842	-.00334
.981	-4.633	-0.00225	-0.0104	.00587	-.02279	13.27291	2.36603	-.00318	-.00097
.981	-2.433	.00213	.00195	.00466	.00339	5.52386	7.32602	.00227	.00539
.981	-.226	.00687	.00529	.00299	.02976	11.57296	3.60361	.00808	.00938
.980	1.942	.01223	.00309	-.00353	.05914	12.09255	3.37824	.01464	.01218
.980	4.143	.01651	.01219	-.00269	.08325	12.20342	3.31011	.02000	.01519
.980	6.379	.02137	.01456	-.00432	.10566	12.24412	3.22341	.02437	.01838
.980	8.523	.02158	.01533	-.00481	.11772	12.24400	3.15838	.02637	.02048
.980	10.709	.02343	.01648	-.00554	.13090	12.28721	3.11781	.02876	.02158
GRADIENT		.00219	.00153	-.00102	.01221	.23167	-.09370	.02268	.00161

RUN NO. 61/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	KCFW	YCFW	CBW	CTW
1.130	-11.611	-0.01617	-0.01044	.01982	-.10793	12.92195	2.84468	-.02056	-.00337
1.131	-9.331	-0.01164	-0.00749	.01693	-.07817	13.07230	2.83614	-.01482	-.00004
1.130	-7.097	-0.00682	-0.00415	.01354	-.05029	13.32835	2.71156	-.00887	-.00274
1.130	-4.741	-0.00171	-0.00064	.01004	-.02015	14.41534	2.23605	-.00253	-.00571
1.130	-2.487	.00417	.00353	.00552	.01795	9.87579	4.68152	.00466	.00811
1.129	-.255	.00971	.00743	.00108	.04644	11.93059	3.55919	.01146	.01031
1.130	1.952	.01455	.01381	-.00270	.07953	12.23150	3.37215	.01744	.01247
1.130	4.151	.01869	.01371	-.00604	.09390	12.35574	3.30767	.02251	.01411
1.129	6.374	.02265	.01640	-.00981	.11791	12.44594	3.24143	.02746	.01552
1.129	8.563	.02499	.01794	-.01182	.13279	12.47264	3.20407	.03040	.01671
1.129	10.763	.02442	.01724	-.00995	.13524	12.39933	3.13267	.02993	.01910
GRADIENT		.00230	.00162	-.00182	.01289	-.08097	.03839	.00283	-.00095



REFERENCE DATA  
 SREF = 2630.0000 30. FT. YMRP = 976.0000 IN. XT BETA = .000 ELV-LO = .000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-LI = 4.000 ELV-RI = 4.000  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .000 RUDDER = .000  
 SCALE = .0100 SFDRK = .000 BDFLAP = .000

RUN NO. 60/ 0 RIVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CMAC	CMW	XCPM	YCFM	CBM	CTM
1.201	-11.685	-0.1612	-0.1049	.02235	-.19604	13.05072	2.86519	-.02044	-.00043
1.200	-9.351	-0.1114	-0.0727	.01905	-.07289	13.29087	2.87281	-.01411	-.00339
1.200	-7.043	-.00390	-.00365	.01377	-.04238	13.59275	2.74533	-.00763	-.00467
1.201	-4.757	-.00011	.00050	.00744	-.01149	15.12458	1.53098	-.00058	-.00497
1.200	-2.498	.00570	.00460	.00177	.02072	11.64438	4.01822	.00654	.00622
1.200	-.258	.01096	.00823	-.00229	.05142	12.26145	3.43779	.01305	.00876
1.200	1.964	.01533	-.01128	-.00502	.07628	12.36246	3.32367	.01844	.01137
1.200	4.156	.01914	.01392	-.00762	.09832	12.41798	3.26473	.02314	-.01350
1.200	6.387	.02274	.01638	-.01081	.11979	12.47846	3.21958	.02762	-.01492
1.201	8.582	.02535	.01813	-.01326	.13599	12.51297	3.18736	.03089	-.01595
1.200	10.807	.02639	.01869	-.01372	.14503	12.49917	3.14568	.03229	-.01744
GRADIENT		.00216	.00190	-.00166	.01235	-.21201	.12537	.00266	-.00100

REFERENCE DATA  
 SREF = 2680.0000 30. FT. YMRP = 976.0000 IN. XT BETA = 5.000 ELV-LO = .000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-LI = .000 ELV-RI = .000  
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .000 RUDDER = .000  
 SCALE = .0100 SFDRK = .000 BDFLAP = .000

RUN NO. 68/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CMAC	CMW	XCPM	YCFM	CBM	CTM
1.200	-10.697	.00012	-.00923	.01284	.17611	11.70382	1.44768	.00729	.00067
1.200	-8.561	.00014	-.00657	.01180	.12638	11.60670	1.45168	.00328	.00895
1.200	-6.464	.00014	-.00379	.01118	.07402	11.53288	1.45902	.00315	.02708
1.200	-4.348	.00014	-.00110	.01089	.02336	9.83615	1.49745	.00109	.01591
1.200	-2.269	.00012	.00140	.01034	-.02411	14.12574	1.39468	-.00286	.00536
1.200	-.173	.00014	.00411	.01074	-.07478	12.73196	1.42376	-.00290	-.00532
1.200	1.919	.00010	.00706	.01024	-.13109	12.41364	1.43415	-.00324	-.01812
1.200	4.056	.00012	.01012	.00990	-.18835	12.28948	1.43533	-.00755	-.03096
1.200	6.155	.00016	.01302	.00914	-.24184	12.22944	1.43433	-.00966	-.04282
1.200	8.236	.00012	.01618	.00803	-.30249	12.17604	1.43758	-.00966	-.05685
1.200	10.369	.00012	.01949	.00608	-.36484	12.12913	1.43822	-.01473	-.07230
GRADIENT		-.00000	.00134	-.00016	-.02527	-.19294	-.00401	-.00103	-.00556

LARC 8-TPT-693 (IA43) CONFIGURATIONI 02/74/93

(R-CH16) ( 14 FEB 75 )

REFERENCE DATA

94EF = 2890.0000 94.FT. 94RIP = 976.0000 94. XT  
 94EF = 1290.3000 94.INCHES 94RIP = .0000 94. YT  
 94EF = 1290.3000 94.INCHES 94RIP = 400.0000 94. ZT  
 SCALE = .0100

RUN NO. 67/ 0 RIWL = 3.96 GRADIENT INTERVAL = -9.00/ 5.00

PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
.899	-11.260	.00010	-.00961	.01736	-.18289	11.59931	1.44642	-.00754	.05665
.899	-9.039	.00010	-.00687	.01509	-.13128	11.50424	1.44843	.00544	.04329
.899	-6.834	.00011	-.00404	.01418	-.07817	11.18867	1.45448	.00329	.03097
.900	-4.639	.00009	-.00209	.01250	-.01224	7.20226	1.50251	.00058	.01513
.900	-2.434	.00010	.00273	.01142	-.04954	13.14459	1.42339	-.00192	.00078
.899	-.258	.00011	.00590	.01104	-.10906	12.53065	1.43185	-.00433	-.01239
.900	1.926	.00010	.00845	.01049	-.15727	12.36669	1.43334	-.00630	-.02330
.899	4.111	.00008	.01030	.01002	-.19249	12.23715	1.43741	-.00776	-.03133
.899	6.308	.00007	.01237	.00893	-.23167	12.19203	1.43847	-.00936	-.04284
.900	8.489	.00006	.01382	.00756	-.25917	12.11705	1.43913	-.01049	-.05202
.899	11.662	.00008	.01493	.00551	-.27914	12.07568	1.43862	-.01128	-.05846
GRADIENT		.00000	.00126	-.00027	-.02357	.43157	-.00338	-.00096	-.00535

RUN NO. 66/ 0 RIWL = 4.09 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CLMT	CLWD	CMAC	CMW	XCFW	YCFW	CBW	CTW
.980	-11.537	.00009	-.01081	.02421	-.20530	11.49010	1.44541	.00845	.06832
.982	-8.237	.00009	-.00739	.02155	-.14089	11.32375	1.44728	.00583	.05182
.980	-6.956	.00010	-.00384	.01885	-.07421	10.84397	1.45392	.00312	.03479
.981	-4.739	.00010	-.00110	.01614	-.03377	8.29026	1.68995	.00025	.01695
.983	-2.499	.00013	.00377	.01296	-.06912	12.94019	1.42775	-.00271	-.00189
.983	-.256	.00010	.00813	.00810	-.15125	12.30428	1.43511	-.00506	-.02439
.983	1.942	.00010	.01163	.00440	-.21717	12.14620	1.43699	-.00874	-.04225
.983	4.122	.00009	.01405	.00231	-.26294	11.03171	1.43839	-.01051	-.05418
.983	6.746	.00010	.01631	-.00011	-.30532	12.04829	1.43823	-.01233	-.06570
.983	8.534	.00009	.01702	-.00177	-.31838	12.02365	1.43855	-.01289	-.07027
.979	10.735	.00010	.01807	-.00445	-.33847	11.98758	1.43853	-.01368	-.07716
GRADIENT		.00000	.00163	-.00164	-.03076	1.81149	-.02241	-.00125	-.00824





DATE 24 APR 75

TABULATED SOURCE DATA - LARC 693 (1A43)

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LARC 8-TIT-693 (1A43) CONFIGURATION 02/74/87

(RHCMI6) ( 14 FEB 75 )

REFERENCE DATA

SHEET = 2693.0000 SQ. FT. YMRP = 976.0000 IN. XT  
 LIFT = 1293.3000 INCHES YMRP = .0000 IN. YT  
 DIST = 1293.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = 9.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

RUN NO. 65/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMAC	CMW	XCPW	YCPW	CBM	CTW
1.130	-11.736	-0.0009	-0.01039	.02622	-.19739	11.41931	1.44557	.00813	.06863
1.131	-9.432	.00010	-.00690	-.02142	.13185	11.27863	1.44840	.00547	-.04974
1.131	-7.108	.00011	-.00297	-.01625	.02601	10.72002	1.45906	.00247	.02871
1.130	-4.835	.00010	.00181	-.01018	-.03221	13.55070	1.41222	-.00121	.00326
1.130	-2.568	.00011	.00639	-.00448	-.11828	12.22983	1.43259	-.00471	-.02093
1.130	-.295	.00010	.01036	-.00316	-.18760	12.04595	1.43631	-.00754	-.04046
1.130	1.936	.00010	.01334	-.00368	-.24936	11.97993	1.43754	-.01005	-.03725
1.130	4.145	.00010	.01624	-.00686	-.30400	11.94266	1.43822	-.01228	-.07217
1.130	6.354	.00008	.01846	-.00926	-.34619	11.92300	1.43914	-.01401	-.08363
1.130	8.593	.00009	.01962	-.01059	-.36785	11.91331	1.43901	-.01488	-.08962
1.129	10.823	.00006	.02016	-.01209	-.37821	11.89822	1.43932	-.01532	-.09334
GRADIENT		-.00000	.00159	-.00188	-.03005	-.15479	.00254	-.00122	-.00834

RUN NO. 64/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMAC	CMW	XCPW	YCPW	CBM	CTW
1.200	-11.804	.00011	-.01017	.02662	-.19362	11.39723	1.44662	.00799	.06822
1.201	-9.468	.00010	-.00631	-.01963	.12073	11.27802	1.44906	.00301	.04557
1.199	-7.141	.00011	-.00272	-.01221	.04012	10.60496	1.46698	.00174	.02083
1.200	-4.862	.00010	.00244	-.00512	-.04407	12.60157	1.42025	-.00169	-.00435
1.200	-2.562	.00009	.00660	-.00234	-.12262	12.02909	1.43442	-.00490	-.02688
1.200	-.309	.00010	.01016	-.00406	-.18948	11.94826	1.43636	-.00761	-.04477
1.200	1.953	.00011	.01335	-.00716	-.24936	11.91368	1.43717	-.01004	-.06073
1.201	4.142	.00011	.01602	-.01005	-.29967	11.89076	1.43786	-.01209	-.07443
1.201	6.367	.00010	.01801	-.01182	-.33734	11.88363	1.43852	-.01365	-.08429
1.200	8.612	.00011	.01954	-.01403	-.36597	11.86798	1.43948	-.01479	-.09265
1.200	10.823	.00010	.02085	-.01670	-.39083	11.84712	1.43990	-.01591	-.10066
GRADIENT		.00000	.00151	-.00164	-.02834	-.06857	.00171	-.00115	-.00773

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 OF POOR QUALITY

LARC 8-TPT-693 (1A43) CONFIGURATION 02/74/37

(RHCMI7) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 30. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SFDGRK = .000 BDFLAP = .000

RUN NO. 73/ 0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCFW	CBM
.600	-10.687	.00001	-.00002	-.15125	1.44192	.00617
.600	-8.564	-.00001	-.00566	.10642	1.44042	.00432
.601	-6.466	.00001	-.00325	.06140	1.44263	.00251
.600	-4.340	.00001	-.00097	.01846	1.44637	.00076
.600	-2.266	.00001	.00112	-.02091	1.43662	-.00084
.599	-.171	.00001	.00309	-.05801	1.43969	-.00235
.600	1.929	-.00001	.00520	-.09813	1.44225	-.00400
.600	4.040	-.00003	.00751	-.14232	1.44328	-.00581
.599	6.118	.00001	.00999	-.18797	1.44080	-.00764
.599	8.246	-.00003	.01271	-.23996	1.44247	-.00980
.600	10.343	-.00001	.01528	-.28799	1.44163	-.01173
	GRADIENT	-.00000	.00100	-.01900	-.00000	-.00078

RUN NO. 72/ 0 RVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCFW	CBM
.900	-11.254	.00001	-.00867	-.16349	1.44187	.00667
.900	-9.027	-.00003	-.00611	-.11414	1.43720	.00460
.900	-6.812	-.00008	-.00329	-.06046	1.42891	.00238
.900	-4.610	-.00001	-.00065	.01205	1.43353	.00048
.900	-2.430	.00001	.00189	-.03541	1.43865	-.00143
.900	-.249	.00001	.00441	-.08287	1.44017	-.00336
.900	1.939	-.00010	.00675	-.12902	1.44856	-.00535
.901	4.130	.00002	.00883	-.16594	1.44017	-.00673
.900	6.293	-.00001	.01007	-.19205	1.44229	-.00776
.900	8.491	-.00014	.01144	-.21811	1.44731	-.00902
.900	10.668	-.00010	.01261	-.23939	1.44321	-.00985
	GRADIENT	-.00000	.00109	-.02058	-.00106	-.00084



LARC 6-TPT-693 (1A43) CONFIGURATION 02/14/75

(RMCHRG) ( 14 FEB 75 )

REFERENCE DATA

SHEP = 2890.0000 30. FT. YMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = 5.000 ELV-LO = .000  
 ELV-L1 = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BOFLAP = .000

RUN NO. 65/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM	CLMO	CMC	CM	XCFM	YCFM	CBM	CTM
1.130	-11.756	.00009	-.01039	.02622	.19739	11.41931	1.44557	.00813	-.06863
1.131	-9.432	.00010	-.00690	.02142	.13165	11.27663	1.44840	.00547	-.04974
1.131	-7.108	.00011	-.00297	.01625	.05601	10.72002	1.45906	.00247	-.02871
1.130	-4.835	.00010	.00181	.01018	-.03221	13.55070	1.41222	-.00121	.00326
1.130	-2.568	.00011	.00639	.00446	-.11828	12.22963	1.43259	-.00471	-.02093
1.130	-.295	.00010	.01035	-.00016	-.16760	12.04595	1.43631	-.00794	-.04046
1.130	1.936	.00010	.01334	-.00368	-.24936	11.97993	1.43754	-.01005	-.05725
1.130	4.145	.00010	.01624	-.00686	-.30400	11.94286	1.43822	-.01226	-.07217
1.130	6.354	.00008	.01846	-.00926	-.34619	11.92300	1.43914	-.01401	-.08363
1.130	8.593	.00009	.01962	-.01059	-.36785	11.91331	1.43901	-.01468	-.08962
1.129	10.803	.00006	.02016	-.01209	-.37821	11.89822	1.43932	-.01532	-.09334
GRADIENT		-.00000	.00159	-.00186	-.03005	-.15479	.00254	-.00122	-.00834

RUN NO. 64/ 0 RVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM	CLMO	CMC	CM	XCFM	YCFM	CBM	CTM
1.200	-11.804	.00011	-.01017	.02667	.19382	11.39723	1.44662	.00789	-.06822
1.201	-9.468	.00010	-.00631	.01963	.12073	11.27802	1.44906	.00301	-.04937
1.199	-7.141	.00011	-.00202	.01221	.04012	10.60496	1.46888	.00174	-.02083
1.200	-4.862	.00010	.00244	.00312	-.04407	12.60157	1.42005	-.00169	-.00435
1.200	-2.562	.00009	.00660	-.00054	-.12262	12.02909	1.43442	-.00480	-.02688
1.200	-.309	.00010	.01016	-.00406	-.18948	11.94826	1.43636	-.00761	-.04477
1.200	1.953	.00011	.01335	-.00716	-.24938	11.91368	1.43717	-.01004	-.06073
1.200	4.142	.00011	.01602	-.01005	-.29967	11.89076	1.43786	-.01209	-.07443
1.201	6.367	.00010	.01801	-.01182	-.33734	11.86363	1.43832	-.01363	-.08429
1.200	8.612	.00011	.01954	-.01403	-.36597	11.86798	1.43848	-.01479	-.09263
1.200	10.823	.00010	.02085	-.01670	-.39063	11.84712	1.43990	-.01591	-.10068
GRADIENT		.00000	.00151	-.00164	-.02834	-.06837	.00171	-.00115	-.00773

(RMCH17) ( 14 FEB 75 )

LARC 8-TPT-693 (IA43) CONFIGURATION 02/74/37

REFERENCE DATA

SHEP = 2690.0000 36. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

RUN NO. 75/ 0 RIVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00  
 BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDRK = .000 BDFLAP = .000

PARAMETRIC DATA

MACH	ALPHA	CLMT	CLMO	CM	YCFM	CBW
.600	-10.687	.00001	-.00602	.15125	1.44192	.00617
.600	-8.964	-.00001	-.00366	.10642	1.44042	.00432
.601	-6.466	.00001	-.00325	.06140	1.44283	.00251
.600	-4.340	.00001	-.00097	.01846	1.44637	.00076
.600	-2.266	.00001	.00112	-.02091	1.43682	-.00084
.599	-.171	.00001	.00309	-.05801	1.43969	-.00235
.600	1.929	-.00001	.00320	-.09813	1.44225	-.00400
.600	4.040	-.00003	.00751	-.14202	1.44328	-.00581
.599	6.116	.00001	.00999	-.18797	1.44080	-.00764
.599	8.246	-.00003	.01271	-.23996	1.44247	-.00980
.600	10.343	-.00001	.01528	-.28799	1.44163	-.01173
	GRADIENT	-.00000	.00100	-.01900	-.00003	-.00078

RUN NO. 72/ 0 RIVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCFM	CBW
.900	-11.254	.00001	-.00667	.16349	1.44187	.00667
.900	-9.027	-.00005	-.00611	.11414	1.43720	.00460
.900	-6.812	-.00008	-.00329	.06046	1.42891	.00238
.900	-4.610	-.00001	-.00065	.01205	1.43353	.00048
.900	-2.430	.00001	.00189	-.03541	1.43885	-.00143
.900	-.249	.00001	.00441	-.08287	1.44017	-.00336
.900	1.939	-.00010	.00675	-.12902	1.44856	-.00535
.901	4.130	.00002	.00893	-.16594	1.44017	-.00673
.900	6.293	-.00002	.01007	-.19205	1.44229	-.00776
.900	8.491	-.00014	.01144	-.21811	1.44731	-.00902
.900	10.668	-.00010	.01261	-.25939	1.44521	-.00985
	GRADIENT	-.00000	.00109	-.02058	.00106	-.00084



LARC 6-TPT-693 (IA43) CONFIGURATION 02/14/97

(RMCM17) ( 14 FEB 75 )

## REFERENCE DATA

SREF = 2690.0000 96. FT.    XREF = 976.0000 IN. XT  
 LREF = 1290.5000 INCHES    YREF = .0000 IN. YT  
 BREF = 1290.5000 INCHES    ZREF = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = -5.000    ELV-LO = .000  
 ELV-LI = .000    ELV-RI = .000  
 ELV-RO = .000    RUDDER = .000  
 SPOBRK = .000    BDFLAP = .000

RUN NO.    71/ 0    RM/L = 4.09    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLJO	OM	YCPW	CBM
.960	-11.516	.00001	-.01046	.19720	1.44177	.00804
.980	-9.211	.00001	-.00782	.14748	1.44194	.00601
.980	-6.973	.00001	-.00486	.09173	1.44232	.00374
.960	-4.707	.00001	-.00221	.04181	1.44354	.00171
.979	-2.494	.00002	.00032	-.00565	1.40815	-.00021
.979	-2.273	-.00001	.00302	-.05707	1.44294	-.00233
.979	1.929	-.00001	.00607	-.11432	1.44212	-.00467
.979	4.112	-.00002	.00925	-.17460	1.44237	-.00713
.979	6.325	.00001	.01229	-.23130	1.44090	-.00941
.960	6.520	.00002	.01400	-.26531	1.44059	-.01070
.979	10.712	.00001	.01508	-.28384	1.44097	-.01154
	GRADIENT	-.00000	.00130	-.02455	.00143	-.00100

RUN NO.    70/ 0    RM/L = 4.21    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLJO	OM	YCPW	CBM
1.130	-11.749	.00000	-.01067	.20097	1.44130	.00618
1.131	-9.410	.00000	-.00826	.15556	1.44130	.00633
1.131	-7.125	.00000	-.00514	.09681	1.44130	.00394
1.130	-4.830	.00000	-.00222	.04181	1.44130	.00170
1.130	-2.556	.00000	.00062	-.01168	1.44130	-.00048
1.130	-.317	.00000	.00493	-.07591	1.44130	-.00309
1.130	1.930	.00000	.00751	-.14145	1.44130	-.00576
1.130	4.136	.00000	.01056	-.19890	1.44130	-.00810
1.130	6.357	.00000	.01311	-.24693	1.44130	-.01005
1.130	8.575	.00000	.01492	-.28102	1.44130	-.01144
1.130	10.804	.00000	.01504	-.28328	1.44130	-.01153
	GRADIENT	.00000	.00145	-.02726	.00000	-.00111

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/75

(RHCH17) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 96. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = -5.000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

RUN NO. 69/ 0 RV/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCPW	CBM
1.200	-11.627	.00000	-.01043	.19645	1.44130	.00900
1.201	-9.475	.00000	-.00807	.15200	1.44130	.00819
1.201	-7.148	.00000	-.00492	.09267	1.44130	.00377
1.200	-4.857	-.00001	-.00166	.03106	1.43829	.00126
1.201	-2.569	.00000	.00172	-.03240	1.44130	-.00132
1.201	-.318	.00000	.00514	-.09681	1.44130	-.00394
1.201	1.932	.00000	.00837	-.15765	1.44130	-.00642
1.200	4.159	.00000	.01107	-.20850	1.44130	-.00849
1.200	6.362	.00001	.01348	-.25371	1.44095	-.01052
1.200	8.603	.00000	.01540	-.29006	1.44130	-.01181
1.200	10.839	.00000	.01557	-.29326	1.44130	-.01194
	GRADIENT	.00000	.00143	-.02683	.00027	-.00109

LARC 8-TPT-693 (IA43) CONFIGURATION 02/11/75

(RHCH18) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 96. FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BDFLAP = .000

RUN NO. 76/ 0 RV/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCPW	CBM
.601	-10.602	.00010	-.00880	.16763	1.44689	.00692
.600	-8.498	.00016	-.00633	.12224	1.45356	.00514
.601	-6.401	.00012	-.00393	.07440	1.45641	.00315
.600	-4.293	.00012	-.00132	.02712	1.48274	.00122
.599	-2.223	.00010	.00096	-.01620	1.58347	-.00096
.599	-.147	.00009	.00336	-.06176	1.42917	-.00243
.600	1.956	-.00012	.00553	-.10842	1.45186	-.00445
.600	4.059	-.00012	.00822	-.15706	1.44846	-.00651
.600	6.140	-.00014	.01106	-.21095	1.44752	-.00873
.600	8.220	-.00014	.01390	-.26444	1.44626	-.01090
.600	10.334	-.00008	.01686	-.31907	1.44365	-.01307
	GRADIENT	-.00003	.00113	-.02196	.00002	-.00093



REFERENCE DATA

SREF = 2690.0000 SQ.FT.    XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES    YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES    ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000    ELY-LO = .000  
 ELY-L1 = .000    ELY-RI = .000  
 ELY-RO = .000    RUOER = .000  
 SPORRK = .000    BDFLAP = .000

RUN NO. 75/ 0    RW/L = 3.98    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMJ	YCFW	CBW
.901	-11.193	.00006	-.00995	.18101	1.44440	-.00743
.903	-8.957	.00006	-.00705	.13392	1.41550	.00551
.903	-6.747	.00007	-.00391	.07496	1.45005	.00312
.903	-4.551	.00006	-.00096	.01523	1.46999	.00096
.903	-2.758	.00006	.00211	-.03861	1.42874	-.00151
.899	-.207	.00007	.00498	-.08267	1.43422	-.00370
.903	1.974	.00006	.00758	-.14164	1.43753	-.00571
.901	4.139	.00006	.00865	-.16179	1.43783	-.00653
.903	6.308	.00007	.01043	-.19513	1.43794	-.00787
.903	8.473	.00006	.01197	-.22433	1.43879	-.00907
.903	10.636	.00007	.01319	-.24712	1.43865	-.00999
GRADIENT		-.00000	.00114	-.02146	-.00248	-.00087

RUN NO. 74/ 0    RW/L = 4.20    GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLWO	CMJ	YCFW	CBW
1.130	-11.634	.00007	-.01069	.20267	1.44454	.00832
1.131	-9.309	.00006	-.00781	.14823	1.44509	.00609
1.130	-7.006	.00005	-.00437	.08325	1.44693	.00344
1.130	-4.762	.00005	-.00291	.01808	1.46720	.00079
1.130	-2.511	.00005	.00016	-.05858	1.43330	-.00233
1.130	-.269	.00004	.00709	-.13279	1.43948	-.00537
1.130	1.937	.00005	.01046	-.19607	1.43891	-.00793
1.130	4.149	.00004	.01350	-.25352	1.43962	-.01028
1.130	6.361	.00007	.01609	-.30174	1.43913	-.01221
1.130	8.556	.00006	.01741	-.32679	1.43958	-.01324
1.129	10.752	.00005	.01698	-.31888	1.43983	-.01293
GRADIENT		-.00000	.00162	-.03057	-.00222	-.00125

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LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57

(RMCM29) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000  
 RVL = 4.400

RUN NO. 98/ 0 RVL = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	C/M	YCPW	CBW
.600	-2.325	.00004	.00001	.00017	2.10437	.00006	
.600	-1.261	.00004	.00001	.00057	2.10437	.00006	
.600	-.215	.00002	.00001	.00019	2.43590	.00003	
.600	.875	.00002	.00004	-.00038	.94400	.00000	
.600	1.925	.00002	.00001	.00019	2.43590	.00003	
	GRADIENT	-.00001	.00000	-.00018	-.04789	-.00001	

LARC 8-TPT-693 (1A43) CONFIGURATION 02/14/57

(RMCM60) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDBRK = .000 BOFLAP = .000  
 RVL = 5.150

RUN NO. 99/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM1	CLM2	CLM3	C/M	YCPW	CBW
.600	-2.447	.00002	.00003	-.00019	.44670	.00001	
.600	-1.361	.00001	.00002	-.00019	.94400	.00000	
.601	-.282	.00001	.00002	-.00019	.94400	.00000	
.600	.838	.00002	.00003	-.00019	.44670	.00001	
.600	1.916	.00002	.00001	.00019	2.43590	.00003	
	GRADIENT	.00000	-.00000	.00007	.31765	.00000	





LARC 8-TPT-693 (1A43) CONFIGURATION 02/74/57

REFERENCE DATA  
 MACH = 2690.0000 50.FT. XMRP = 976.0000 IN. XT BETA = .0000 ELV-LO = .0000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-LI = .0000 ELV-RI = .0000  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .0000 RUDDER = .0000  
 SCALE = .0100 SPDBRK = .0000 BDFLAP = .0000  
 RV/L = 4.750

PARAMETRIC DATA

RUN NO. 100/ 0 RV/L = 4.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMW	YCFW	CBM
.900	-2.450	.00071	.00002	-.00019	.94400	.00000
.920	-1.369	.00001	.00002	-.00019	.94400	.00000
.901	-.253	.00000	.00001	-.00019	1.44130	-.00001
.901	.839	.00001	.00001	.00000	1.44139	.00001
.900	1.951	.00001	.00001	.00000	1.44139	.00001
GRADIENT	-.00000	-.00000	-.00000	.00005	.13566	.00000

REFERENCE DATA  
 MACH = 2690.0000 50.FT. XMRP = 976.0000 IN. XT BETA = .0000 ELV-LO = .0000  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT ELV-LI = .0000 ELV-RI = .0000  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT ELV-RO = .0000 RUDDER = .0000  
 SCALE = .0100 SPDBRK = .0000 BDFLAP = .0000  
 RV/L = 2.100

PARAMETRIC DATA

RUN NO. 101/ 0 RV/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CMW	YCFW	CBM
1.200	-2.820	.00003	.00007	-.00075	1.06832	-.00000
1.200	-1.160	.00003	.00004	-.00019	-.05060	.00002
1.199	-.111	.00003	.00002	.00019	2.93320	.00004
1.199	.940	.00005	.00004	.00019	3.92780	.00006
1.199	1.969	.00003	.00004	-.00019	-.05060	.00002
GRADIENT	.00000	.00000	-.00001	.00014	.16988	.00001

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LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/87

(RNC693) ( 14 FEB 75 )

## REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDGRK = .000 BOFLAP = .000  
 RIVL = 2.050

RUN NO. 102/ 0 RIVL = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CM	YCPM	CBM
.981	-2.182	.00001	.00003	-.00038	1.19265	-.00001
.981	-1.137	.00004	.00005	-.00019	-.54790	.00003
.981	-.097	.00004	.00003	.00019	3.43050	.00005
.981	.942	.00001	.00003	-.00038	1.19265	-.00001
.981	1.972	.00001	.00003	-.00038	1.19265	-.00001
	GRADIENT	-.00000	-.00000	-.00002	-.16738	-.00000

## REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT  
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
 SCALE = .0100

## PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
 ELV-LI = .000 ELV-RI = .000  
 ELV-RO = .000 RUDDER = .000  
 SPDGRK = .000 BOFLAP = .000  
 RIVL = 1.980

RUN NO. 103/ 0 RIVL = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMI	CLMO	CM	YCPM	CBM
.901	-2.155	.00004	.00003	.00019	3.43050	.00005
.902	-1.132	.00004	.00003	.00019	3.43050	.00005
.901	-.096	.00004	.00006	-.00038	.44670	.00002
.903	.932	.00004	.00006	-.00038	.44670	.00002
.901	1.984	.00001	.00006	-.00094	1.34184	-.00003
	GRADIENT	-.00001	-.00001	-.00027	-.69089	-.00002

LARC 8-TPT-693 (IA43) CONFIGURATION 02/14/87

(RNC694) ( 14 FEB 75 )



(RHCMS9) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2630.0000 33. FT. YMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SFDRK = .000 BOFLAP = .000  
RV/L = 1.000

RUN NO. 1047 0 RV/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCFW	CBM
.801	-2.138	.00005	.00006	-.00019	-1.04520	-.00004
.800	-1.120	.00008	.00003	.00094	2.25598	.00012
.800	-.090	.00008	.00003	.00094	2.23698	.00012
.800	.938	.00002	.00006	-.00075	1.19265	-.00001
.803	1.979	.00005	.00003	.00038	2.68455	.00007
GRADIENT	-.00001	-.00000	-.00006	.62204	-.00001	

LARC 8-TFT-693 (IA43) CONFIGURATION 08/14/57

(RHCMS6) ( 14 FEB 75 )

REFERENCE DATA

SREF = 2680.0000 33. FT. YMRP = 976.0000 IN. XT  
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT  
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT  
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000  
ELV-LI = .000 ELV-RI = .000  
ELV-RO = .000 RUDDER = .000  
SFDRK = .000 BOFLAP = .000  
RV/L = 1.370

RUN NO. 1057 0 RV/L = 1.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMT	CLMO	CM	YCFW	CBM
.600	-2.092	.00011	.00009	.00038	4.17645	-.00013
.603	-1.085	.00002	.00003	-.00132	1.29921	-.00003
.603	-.067	.00002	.00005	-.00057	1.10977	-.00000
.603	.954	.00007	.00009	-.00038	-.29925	.00005
.602	1.971	.00002	.00005	-.00057	1.10977	-.00000
GRADIENT	-.00001	-.00000	-.00009	-.00009	-.75947	-.00012

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