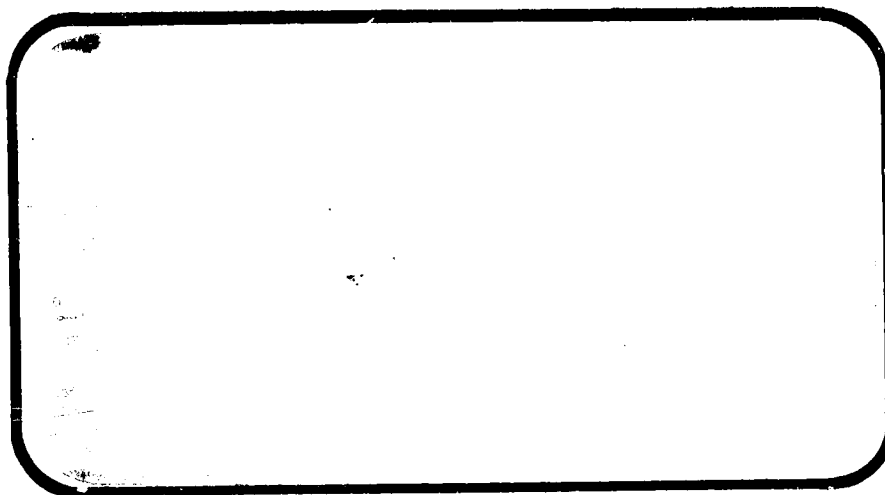




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

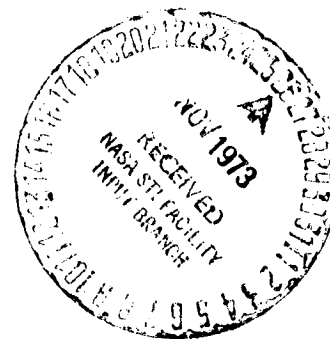


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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION  CHRYSLER CORPORATION

September 1973

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TRANSONIC AERODYNAMIC CHARACTERISTICS ASSOCIATED
WITH VARIATIONS IN THE GEOMETRY OF THE
FORWARD PORTION OF IRREGULAR PLANFORM WINGS

By

Bernard Spencer, Jr. & David R. Stone, NASA/LARC

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

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Test Number: LaRC 8 Ft. TPT-644
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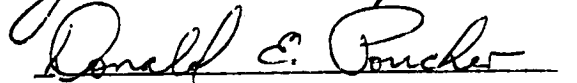
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TRANSONIC AERODYNAMIC CHARACTERISTICS ASSOCIATED WITH
VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION
OF IRREGULAR PLANFORM WINGS

by

Bernard Spencer, Jr. and David R. Stone
Langley Research Center

SUMMARY

The experimental aerodynamic characteristics of three basic wing planforms on a LaRC conceptual orbiter fuselage (designated the LO-100) have been obtained in the NASA/LaRC 8-Foot Transonic Pressure Tunnel. The study included variations in the forward portion (fillet) of each basic wing. Fillet sweeps to 78° were investigated while holding the spanwise intersection of the fillet and wing constant. The data were obtained at Mach numbers of 0.35 to 1.2 and at Reynolds number (depending on Mach number) of 1.9×10^6 to 2.11×10^6 per foot. The angle of attack was varied from about -2° to 22° at 0° of sideslip.

INDEX OF MODEL FIGURES

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INDEX OF DATA FIGURES

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SCHEDULE OF COEFFICIENTS PLOTTED:

- (A) CA, CN, CL, CIM, L/D, CD versus ALPHA
CN, CL versus CIM, CD versus CL
- (B) CP versus ALPHA
- (C) DCIMAX versus LAMDAF
- (D) XCP/L versus LAMDAF

NOMENCLATURE
General

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

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

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

NOMENCLATURE (CONCLUDED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
S_f		wing fillet planform area, in ²
Λ_f	LAMDAF	wing fillet leading edge sweep angle, degrees
$\Delta C_{L_{MAX}}$	DCIMAX	differential lift coefficient at maximum lift
X_{cp}/l_B	XCP/L	longitudinal position of the normal force center of pressure, based on body length, l_B $X_{cp}/l_B = X_{MRP}/B - (C_m/C_N)(\bar{c}/l_B)$
δ_{rf}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{rf} = (\delta_{rL} + \delta_{rR})/2$, positive deflection; degrees
δ_{BF}	BDFLAP	flap, surface deflection angle, positive deflection trailing edge down; degrees
δ_e	ELEVTR	elevator, surface deflection angle, positive deflection trailing edge down; degrees.

INTRODUCTION

The NASA Langley Research Center has recently initiated both an experimental and analytical program to study the aerodynamic characteristics of irregular planform wings having application to space shuttle orbiter design. The benefits to be derived from the use of an irregular planform wing (also referred to as a cranked leading-edge wing (ref. 1) or a double delta wing (ref. 2)) for shuttle application are primarily directed to: (1) the subsonic landing configuration in that linearization of the lift-curve slope to high angles of attack beyond that specified for landing greatly reduces landing speed or minimizes wing area for specified weight and landing velocity; and (2) the desired hypersonic trim angle and stability (dictated by cross-range or heating constraints) can be achieved by slight alteration in the forward portion of the irregular planform wing without greatly altering the desired subsonic characteristics. This forward portion is herein referred to as a fillet, according to the connotations given in reference 3. Because subsonic and hypersonic conditions are the two prime areas of concern in the present application of wing-fillet combinations, this study has been designated the Subsonic/Hypersonic Irregular Planforms Study (SHIPS).

The presently initiated experimental program addresses itself to the determination of the aerodynamic characteristics of a systematic series of wing-fillet combinations which will include subsonic, transonic, low to high supersonic, and hypersonic Mach numbers; since

it is the purpose of the overall study not only to provide experimental aerodynamic information at the desired design points but to indicate any off-design penalties which may negate the selection of a near optimum wing-fillet combination from purely subsonic/hypersonic considerations. For example, excessive transonic pitch-up or adverse effects on directional stability in Mach number areas where inherent vehicle aerodynamics are expected to suffice (i.e. no reaction jet controls required) would certainly warrant a reconsideration of the selected combination.

The second portion of the study involves the development of simplified analytical tools or boundaries which may be employed by the engineer both during pre-design iterations for a specific mission or during development of a vehicle, in that these empirical and simplified analytical tools may be used to perturbate small vehicular changes with confidence and without resorting to wind tunnel verification until a near-optimum configuration is conceived. It is the intent of the present study to provide information boundaries (based on experimental results) regarding the attainment of linearized subsonic lift (ref. 3) with the avoidance of pitch instabilities at high lift (ref. 4) as well as determine the effects of wing-fillet combinations on lateral-directional stability. The hypersonic aerodynamics regarding trim and stability have been presented in the initial experimental portion of the overall SHIPS investigation in reference 5.

It is the purpose of the present paper to present the transonic aerodynamic characteristics at Mach numbers of 0.35, 0.80, 0.90, 0.98 and 1.20 on a series of wing-fillet combinations, each basic wing having been separately proposed as a candidate shuttle orbiter design. The basic wings studied are: the LO-100, a 53.2° cropped delta wing (refs. 6, 7 and 8); an optimal design from an analytical program (ODIN) having a 46.8° sweep, designated W-33 (ref. 9); and the MSC-049, a 35° trapezoidal wing (ref. 10). Variations in the forward portion of the wing (fillet) have been studied with each basic wing. Fillet sweep angles to 78° were incorporated while holding the spanwise intersection of the fillet and wing constant. The data were obtained at a Reynolds number of 1.90×10^6 to 2.11×10^6 per foot depending on Mach number over an angle-of-attack range of -2° to 22° at a sideslip angle of 0° .

CONFIGURATIONS INVESTIGATED

The fuselage for the present investigation was a 0.01875 scale version of the LO-100 Orbiter Concept (ref. 6). The fuselage had a maximum cross-sectional area somewhat in excess of the minimum required to house the 15 foot diameter payload bay. This was done to allow for some body base boattailing to reduce subsonic base drag and improve aerodynamic performance. The fuselage forebody incorporated an unswept nose (positive camber) to produce near zero or positive pitching moment at zero angle of attack at hypersonic speeds. A body base flap was also included to shield the main engines during entry and also as a hypersonic control device. The overall body length, excluding the base flap, was 1350 inches.

The LO-100 wing (fig. 2(a)) had a 53.2° leading-edge sweep, unswept trailing edge, taper ratio of 0.15, aspect ratio of 2.212, NACA 0006 airfoil section at the theoretical root with 1° of incidence, and NACA 0012 airfoil section at the tip with -4° incidence. The W-33 wing (fig. 2(b)) had a 46.8° leading-edge sweep, -11.2° trailing edge sweep, taper ratio of 0.135, aspect ratio of 2.415, NACA 0008 airfoil section at the theoretical root, NACA 0012 airfoil section at the tip, and a 1.5° incidence. The MSC 049 wing (fig. 2(c)) had a 35° leading-edge sweep, -19.6° trailing edge sweep, taper ratio of 0.2, aspect ratio of 2.525, NACA 0008 airfoil section, and a 1.5° incidence. A more detailed description of the model components is listed in Table III.

The longitudinal location of each wing on the fuselage was selected to produce a wing-fillet intersection at 0.62 of the body reference length with a spanwise intersection at 0.176 of the body reference length. Fillet sweeps to 78° (Table IV) were investigated on each wing while holding the spanwise intersection of the fillet and wing constant.

TEST FACILITY DESCRIPTION

The NASA-Langley 8-Foot Transonic Pressure Tunnel is a single return closed circuit tunnel with Mach number continuously variable from 0.2 to 1.3. The test medium is air with stagnation pressure, stagnation temperature, and dew point temperature controlled. The test section is 7.1 feet square and has a sting-type model support system with tunnel wall mounts available. Six-component moment type internal balances are commonly used with balance output recorded digitally on magnetic tape for reduction at a later time.

Examples of operating conditions are:

Mach Number	0.2 to 0.3	0.4 to 1.0	1.03 to 1.2	1.3
Stagnation pressure, atm.	0.25 to 2.0	0.25 to 1.7	0.25 to 1.4	0.25
Stagnation temperature, °R	580	580	580	580
Dynamic pressure, lb/ft ²	14 to 250	53 to 1333	203 to 1232	226 to 906
Reynolds number x 10 ⁻⁶ /ft	0.3 to 3.6	0.6 to 7.0	1.0 to 5.9	1.0 to 4.2

TEST CONDITIONS

Tunnel conditions existing during the tests are summarized in Table I (Test Conditions). The model was sting supported and the aerodynamic forces and moments were measured by an internally mounted six-component strain-gage balance. Model angle of attack was varied from about -2° to 22° at a sideslip angle of 0° .

DATA REDUCTION

The aerodynamic forces and moments have been reduced to coefficient form based on the following reference values:

WING NO. 1 (LO-100)

S_{ref} = total or theoretical wing projected area = 175.7376 sq. in.

l_{ref} = body length = 25.510 in.

b_{ref} = total wing span = 19.7156 in.

WING NO. 2 (W-33)

$$S_{\text{ref}} = 171.4720 \text{ sq. in.}$$

$$l_{\text{ref}} = 25.510 \text{ in.}$$

$$b_{\text{ref}} = 20.3597 \text{ in.}$$

WING NO. 3 (MSC-049)

$$S_{\text{ref}} = 173.1312 \text{ sq. in.}$$

$$l_{\text{ref}} = 25.510 \text{ in.}$$

$$b_{\text{ref}} = 20.9096 \text{ in.}$$

The moments have been reduced about a center of gravity located at 66 percent of the fuselage length. This point is:

$$\text{Fus. Sta.} = 16.8366 \text{ inches}$$

$$\text{Water line} = 0.0 \text{ (centerline of payload bay)}$$

$$\text{Body line} = 0.0$$

All data are presented as uncorrected for model base pressure effects; however, base pressure coefficients are presented for both the base and cavity regions. Transition strips 1/16 inch wide composed of No. 120 sand grit were located 1.0 inch aft of the apex of the nose and 0.5 inch (measured in the streamwise direction) on the wing, fillet, and vertical tail.

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TABLE I. TEST CONDITIONS

TEST: LaRC 8-FT. TPT 644		DATE: 4/18-25/73	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
.35	2.08×10^6	1.146	100°
.80	1.90×10^6	2.160	100°
.90	2.00×10^6	2.458	100°
.98	2.04×10^6	2.674	100°
1.20	2.11×10^6	3.055	100°
BALANCE UTILIZED: LaRC 840			
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>800 lb.</u>	<u>± 4.0 lb.</u>	_____
SF	<u>250 lb.</u>	<u>± 1.25 lb.</u>	_____
AF	<u>125 lb.</u>	<u>± .625 lb.</u>	_____
PM	<u>1600 in.-lb.</u>	<u>+ 8.0 in.-lb.</u>	_____
RM	<u>500 in.-lb.</u>	<u>+ 2.5 in.-lb.</u>	_____
YM	<u>500 in.-lb.</u>	<u>+ 2.5 in.-lb.</u>	_____
COMMENTS:			

TABLE II.

TEST: <u>8'-TPT 644</u>		DATE: <u>4/25/73</u>										
DATA SET / RUN NUMBER COLLATION SUMMARY		MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS					TEST RUN NUMBERS
		α	β	WING Λ	SRE		.35	.80	.90	.98	1.2	
<u>RP5001</u>	<u>BW1VFB</u>	A	0	1	53.2	0	90	89	88	87	86	
02					60		115	114	113	112	111	
03					65		110	109	108	107	106	
04					70		105	104	103	102	101	
05					75		100	99	98	97	96	
06					78		95	94	93	92	91	
07	<u>BW2VFB</u>				2	46.8	20	19	18	17	16	
08					55		50	49	48	47	46	
09					60		45	44	43	42	41	
10					65		40	39	38	37	36	
11					70		35	34	33	32	31	
12					75		15	14	13	12	11	
13					78		30	29	28	27	26	
14					46.8	10	25	24	23	22	21	
15					75	10	10	9	8	7	6	

COEFFICIENTS
 α OR β
 SCHEDULES
 A) $-2^\circ \rightarrow 22^\circ$, $Ad = 2^\circ$

TABLE III.--MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: BODY - B

GENERAL DESCRIPTION: .01875 scale of LO-100 orbiter concept (DM3-DR-2023)

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> In. or In ²	<u>MODEL SCALE</u> In.
Length	<u>1350</u>	<u>25.510</u>
Max. Width	<u>252.30</u>	<u>4.725</u>
Max. Depth	<u>231.0</u>	<u>4.331</u>
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W1 (LO-100 WING)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS: _____ FULL-SCALE MODEL SCALE
in. or in.²

TOTAL DATA

Area	499,824	175.7376
Planform	_____	_____
Wetted	_____	_____
Span (equivalent)	1051.512	19.7156
Aspect Ratio	2.212	2.212
Rate of Taper	_____	_____
Taper Ratio	.15	.15
Dihedral Angle, degrees	7.0°	7.0°
Incidence Angle, degrees	+ 1° root, -4° tip	+ 1° root, -4° tip
Aerodynamic Twist, degrees	_____	_____
Toe-In Angle	_____	_____
Cant Angle	_____	_____
Sweep Back Angles, degrees	53.2°	53.2°
Leading Edge	7.0°	0.0°
Trailing Edge	_____	_____
0.25 Element Line	_____	_____
Chords:		
Root (Wing Sta. 0.0)	826.8	15.502
Tip, (equivalent)	124.02	2.325
MAC	501.984	10.537
Fus. Sta. of .25 MAC	928.508	17.410
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____
Airfoil Section		
Root	NACA 0006-64	_____
Tip	NACA 0012-64	_____

EXPOSED DATA

Area	_____	_____
Span, (equivalent)	_____	_____
Aspect Ratio	_____	_____
Taper Ratio	_____	_____
Chords		
Root	_____	_____
Tip	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W2 (WING - 33)
 GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> in. or in. ²	<u>MODEL SCALE</u> in. or in. ²
<u>TOTAL DATA</u>		
Area		
Planform	487,742.7	171.472
Wetted	-----	-----
Span (equivalent)	1085.85	20.3597
Aspect Ratio	2.4154	2.4154
Rate of Taper	-----	-----
Taper Ratio	.13465	.13465
Dihedral Angle, degrees	7.0°	7.0°
Incidence Angle, degrees	1.5°	1.5°
Aerodynamic Twist, degrees	None	None
Toe-In Angle	-----	-----
Cant Angle	-----	-----
Sweep Back Angles, degrees		
Leading Edge	46.825°	46.825°
Trailing Edge	-11.154	-11.154°
0.25 Element Line	-----	-----
Chords:		
Root (Wing Sta. 0.0)	792.091	14.8517
Tip, (equivalent)	106.667	2.0000
MAC	536.520	10.0600
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----
Airfoil Section		
Root	NACA 0008-64	NACA 0008-64
Tip	NACA 0012-64	NACA 0012-64

<u>EXPOSED DATA</u>		
Area	_____	_____
Span, (equivalent)	_____	_____
Aspect Ratio	_____	_____
Taper Ratio	_____	_____
Chords		
Root	_____	_____
Tip	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W3 (MSC 049 WING)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS: FULL-SCALE MODEL SCALE
In. or In.² In. or In.²

TOTAL DATA

Area		
Planform	492,462.1	173,131.2
Wetted	-----	-----
Span (equivalent)	1115.2	20.9096
Aspect Ratio	2.525	2.525
Rate of Taper	-----	-----
Taper Ratio	.200	.200
Dihedral Angle, degrees	7°	7°
Incidence Angle, degrees	1.5°	1.5°
Aerodynamic Twist, degrees	None	None
Toe-In Angle	-----	-----
Cant Angle	-----	-----
Sweep Back Angles, degrees		
Leading Edge	35°	35°
Trailing Edge	-19.6°	-19.6°
0.25 Element Line	-----	-----
Chords:		
Root (Wing Sta. 0.0)	736.084	13.8016
Tip, (equivalent)	147.114	2.7584
MAC	-----	-----
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----
Airfoil Section	NACA 0008-64	NACA 0008-64
Root	-----	-----
Tip	-----	-----

EXPOSED DATA

Area	_____	_____
Span, (equivalent)	_____	_____
Aspect Ratio	_____	_____
Taper Ratio	_____	_____
Chords		
Root	_____	_____
Tip	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

TABLE III.--(CONTINUED)

MODEL COMPONENT: Vertical Tail-V

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS: FULL-SCALE
In. or In.² MODEL SCALE
In. or In.²

TOTAL DATA

Area		
Planform	69,836	24.552
Wetted	-----	-----
Span	396.168	6.922
Aspect Ratio	1.414	1.414
Rate of Taper	-----	-----
Taper Ratio	.412	.412
Dihedral Angle, degrees	-----	-----
Incidence Angle, degrees	-----	-----
Aerodynamic Twist, degrees	-----	-----
Toe-In Angle	-----	-----
Cant Angle	-----	-----
Sweep Back Angles, degrees		
Leading Edge	+5°	45°
Trailing Edge	25°	25°
0.25 Element Line	-----	-----
Chords:		
Root (Wing Sta. 0.0)	288.0	5.400
Tip, (equivalent)	90.347	1.694
MAC	-----	-----
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----
Airfoil Section		
Root	NACA 0012-64	NACA 0012-64
Tip	"	"

EXPOSED DATA

Area	-----	-----
Span, (equivalent)	-----	-----
Aspect Ratio	-----	-----
Taper Ratio	-----	-----
Chords		
Root	-----	-----
Tip	-----	-----
MAC	-----	-----
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----

TABLE III.-(CONCLUDED)

MODEL COMPONENT: BODY FLAP - FB

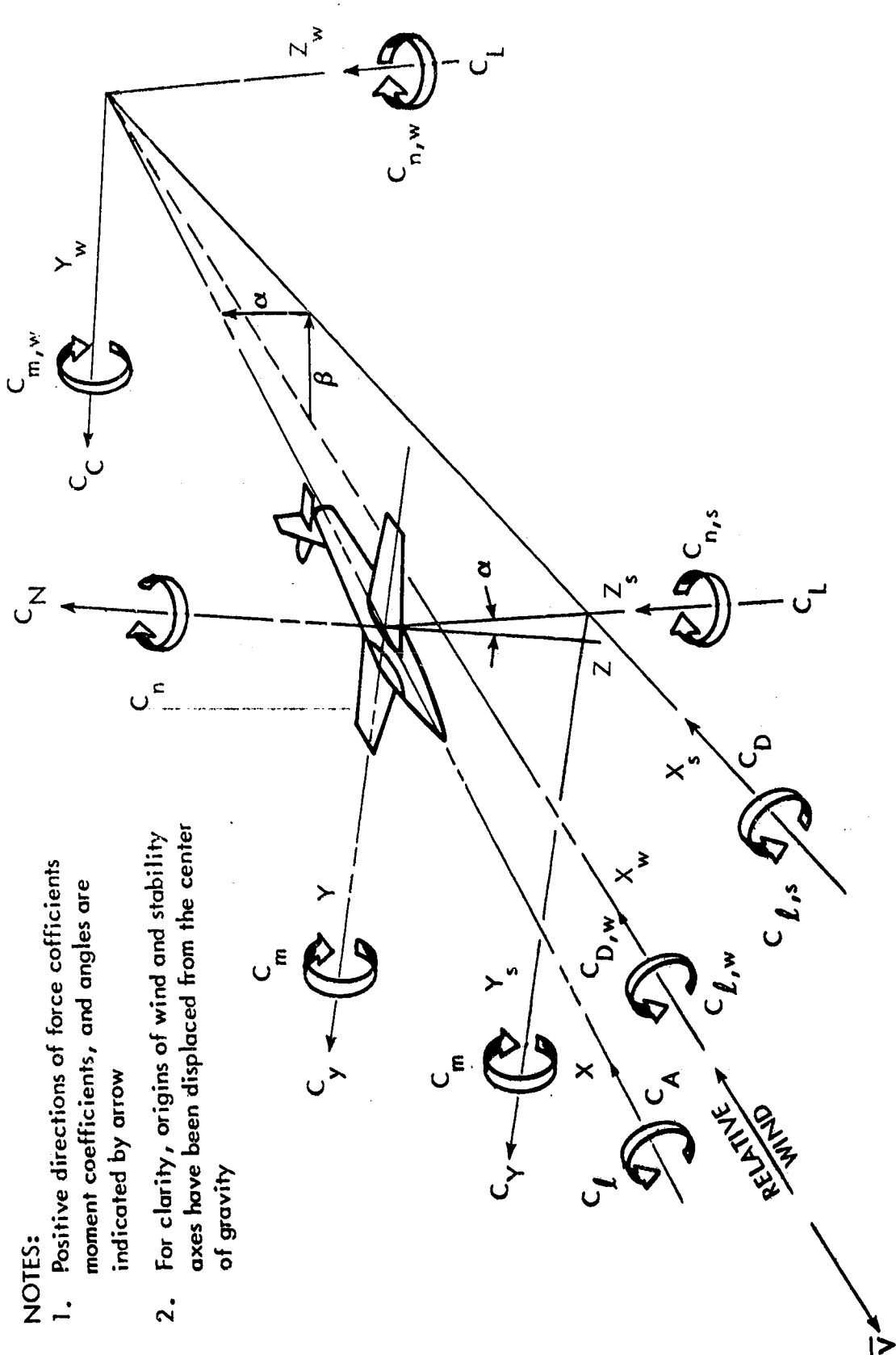
GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> in. or in. ²	<u>MODEL SCALE</u> in. or in. ²
Area	<u>9160.0</u>	<u>3.220</u>
Span (equivalent)	<u>252.0</u>	<u>4.725</u>
Inb'd equivalent chord	<u>79.65</u>	<u>1.493</u>
Outb'd equivalent chord	<u>79.65</u>	<u>1.493</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>---</u>	<u>---</u>
At Outb'd equiv. chord	<u>---</u>	<u>---</u>
Sweep Back Angles, degrees		
Leading Edge	<u>---</u>	<u>---</u>
Tailing Edge	<u>---</u>	<u>---</u>
Hingeline	<u>---</u>	<u>---</u>
Area Moment (Normal to hinge line)	<u>---</u>	<u>---</u>

TABLE IV. - PLANFORM AREA OF FILLETS

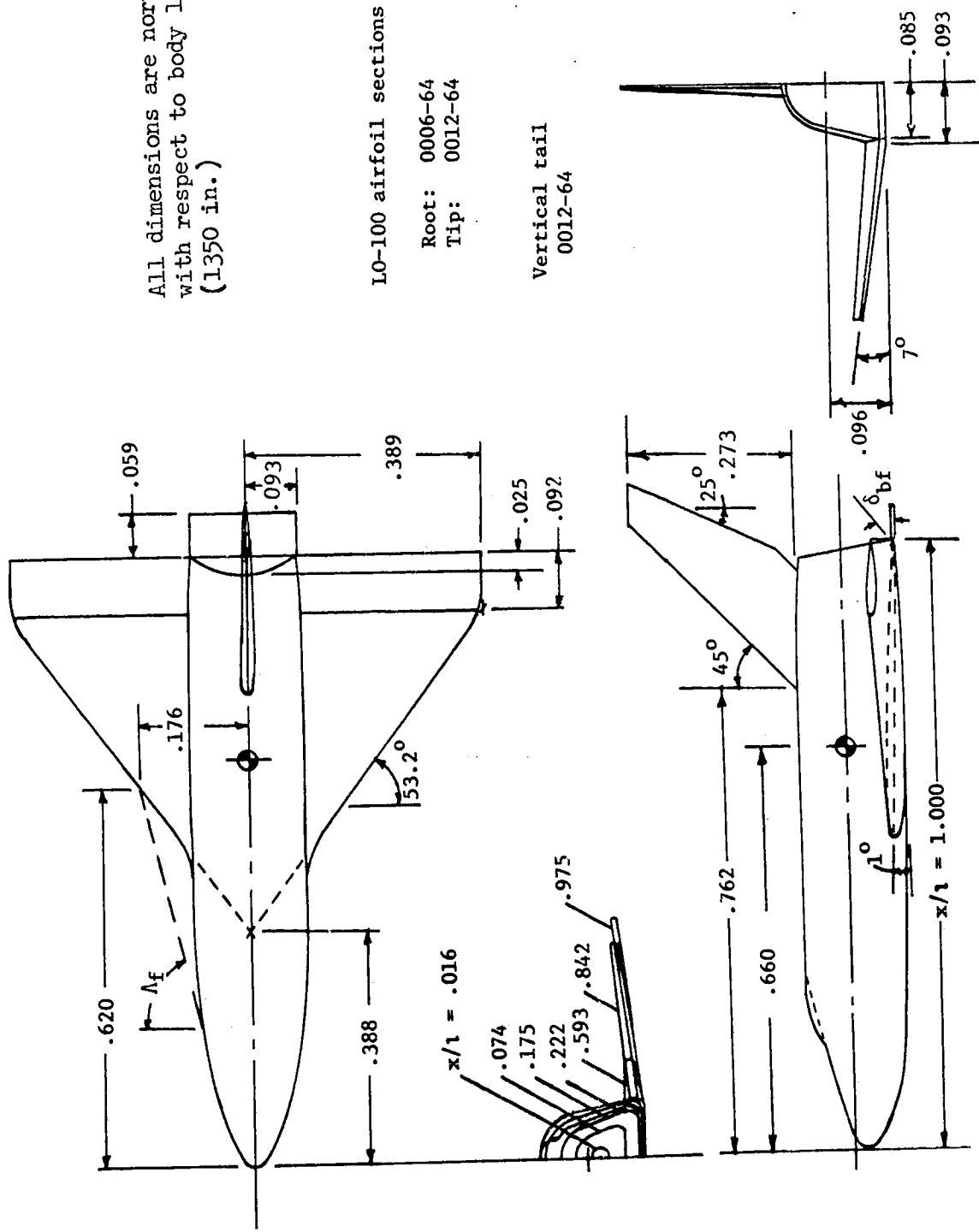
WING NUMBER	Λ_f (degrees)	S_f/S_{REF}	S_{REF} (inches ²)
1 (LO-100)	78	.382	$\frac{175.7376}{\downarrow}$
	75	.272	
	70	.161	
	65	.093	
	60	.046	
	55	.012	
2 (W-33)	78	.421	$\frac{171.4720}{\downarrow}$
	75	.309	
	70	.195	
	65	.125	
	60	.078	
	55	.043	
	50	.015	
3 (MSC-049)	78	.459	$\frac{173.1312}{\downarrow}$
	75	.348	
	70	.235	
	65	.166	
	60	.119	
	55	.084	
	50	.057	
	45	.035	



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

Figure 1. - Axis Systems.

All dimensions are normalized
with respect to body length
(1350 in.)



(a) Wing Number 1 (LO-100)

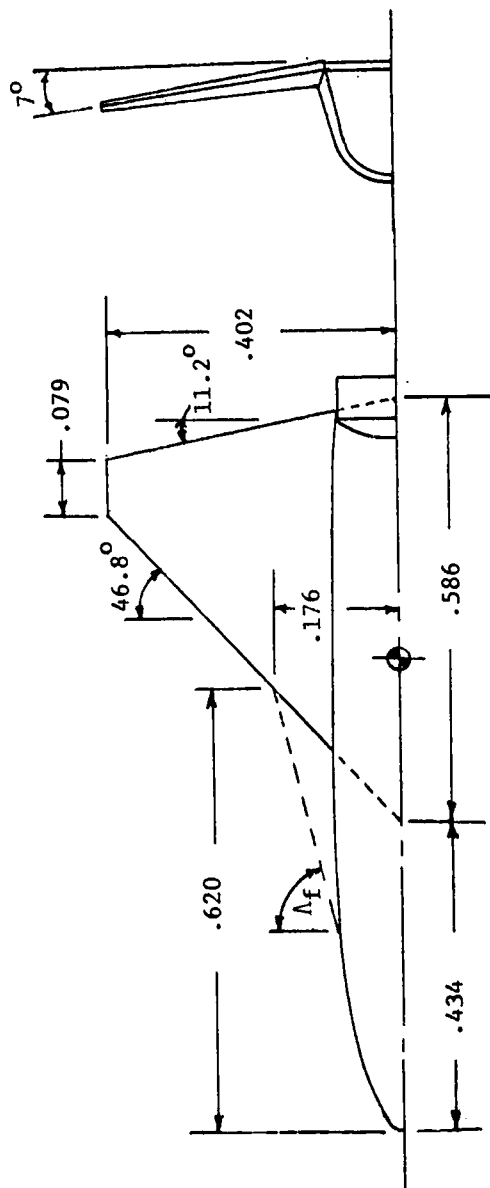
Figure 2. - Sketch of Models Used in Investigation.

W-33 airfoil sections

Root: 0008-64

Tip : 0012-64

Incidence: 1.5°



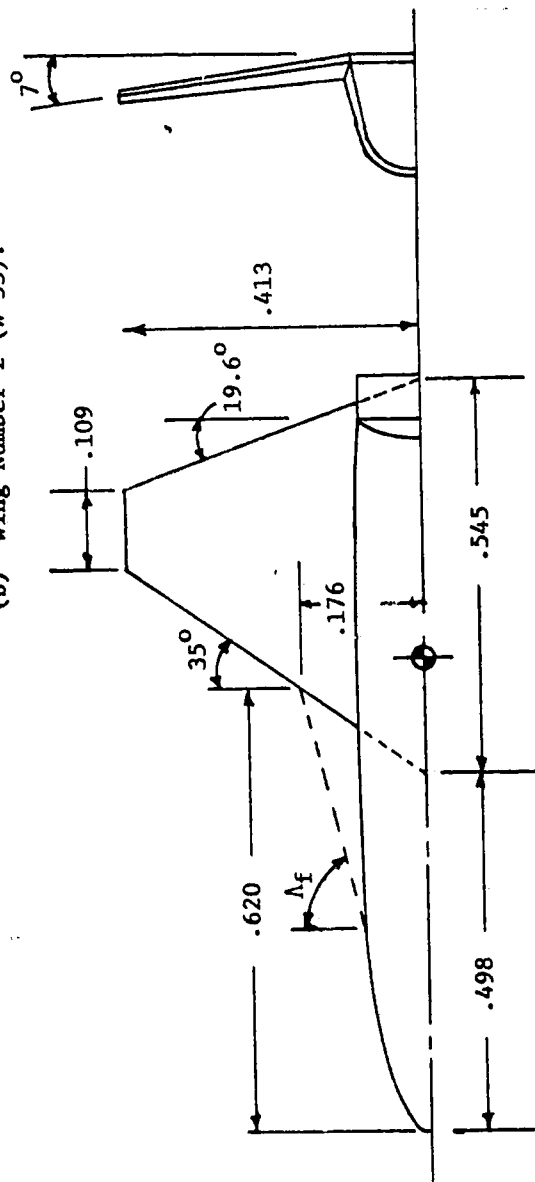
(b) Wing Number 2 (W-33).

MSC 049 airfoil sections

Root: 0008-64

Tip : 0008-64

Incidence: 1.5°



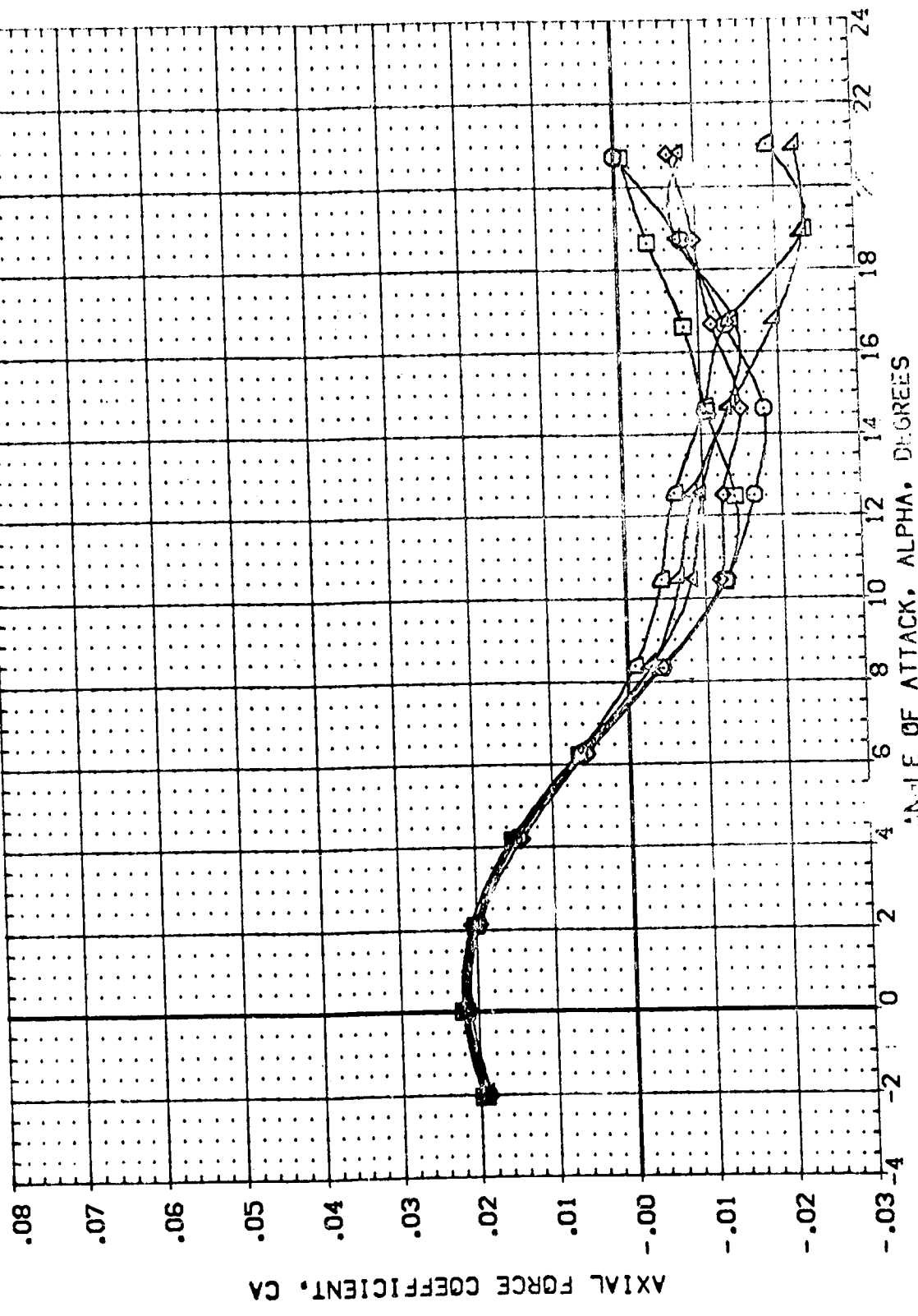
(c) Wing Number 3 (MSC-049).

Figure 2. - Concluded.

DATA FIGURES



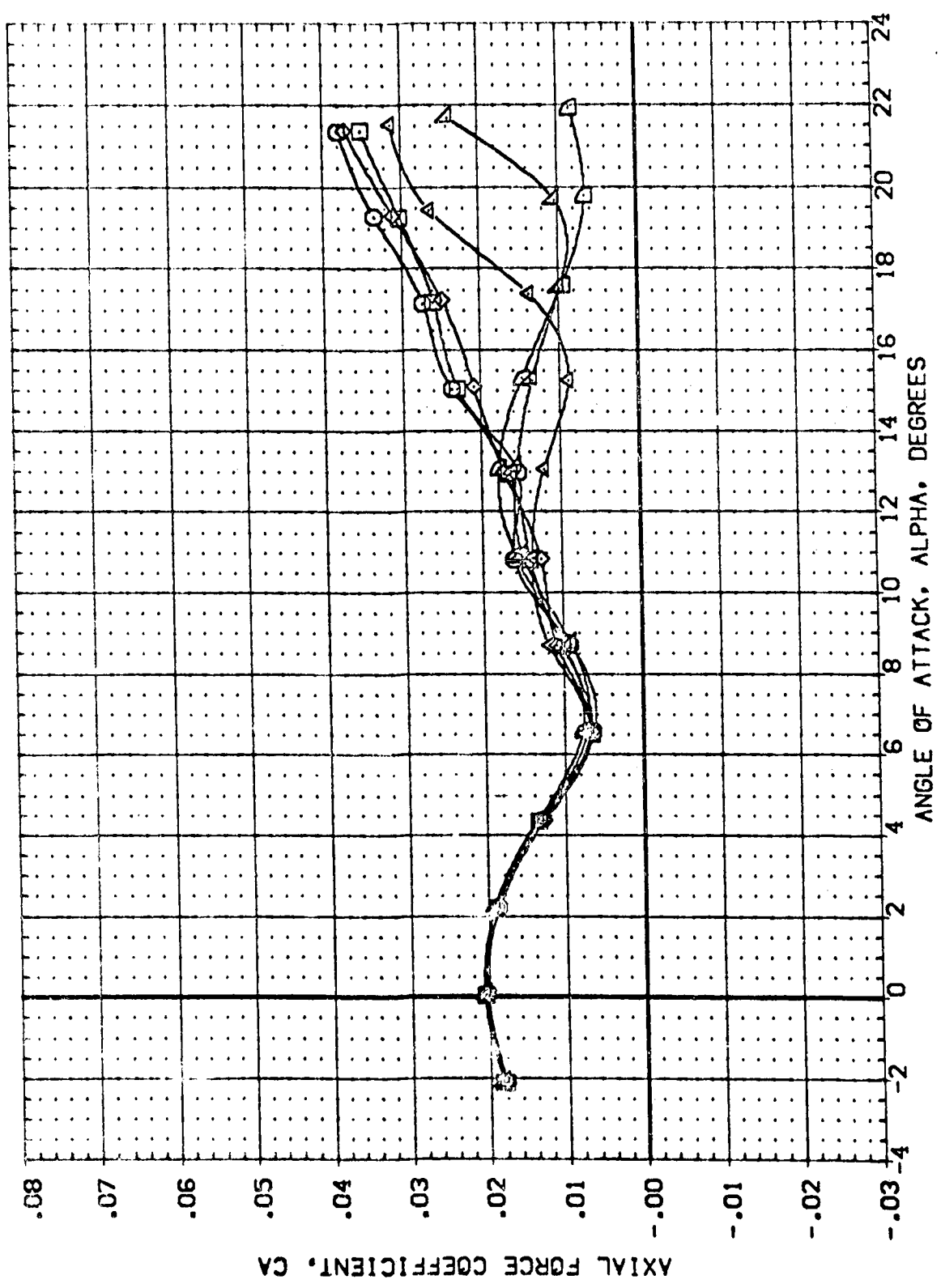
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SO.IN: INCHES
(RPS002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RPS003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RPS004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	70.000	1.000	.000	.000	XPRP 16.8633 INCHES
(RPS005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RPS006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(AJMACH = .35

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUEFLR	BO-LAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	53.200	1.000	.000	.000	SREF 175.7376
(RPS002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	60.000	1.000	.000	.000	LREF 25.5100
(RPS003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	65.000	.650	.000	.000	BREF 19.7156
(RPS004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	70.000	.000	.000	.000	XREF 15.8633
(RPS005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	75.000	1.000	.000	.000	YREF .0000
(RPS006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BWI VFB)	78.000	1.000	.000	.000	ZREF .0000
						SCALE .0188

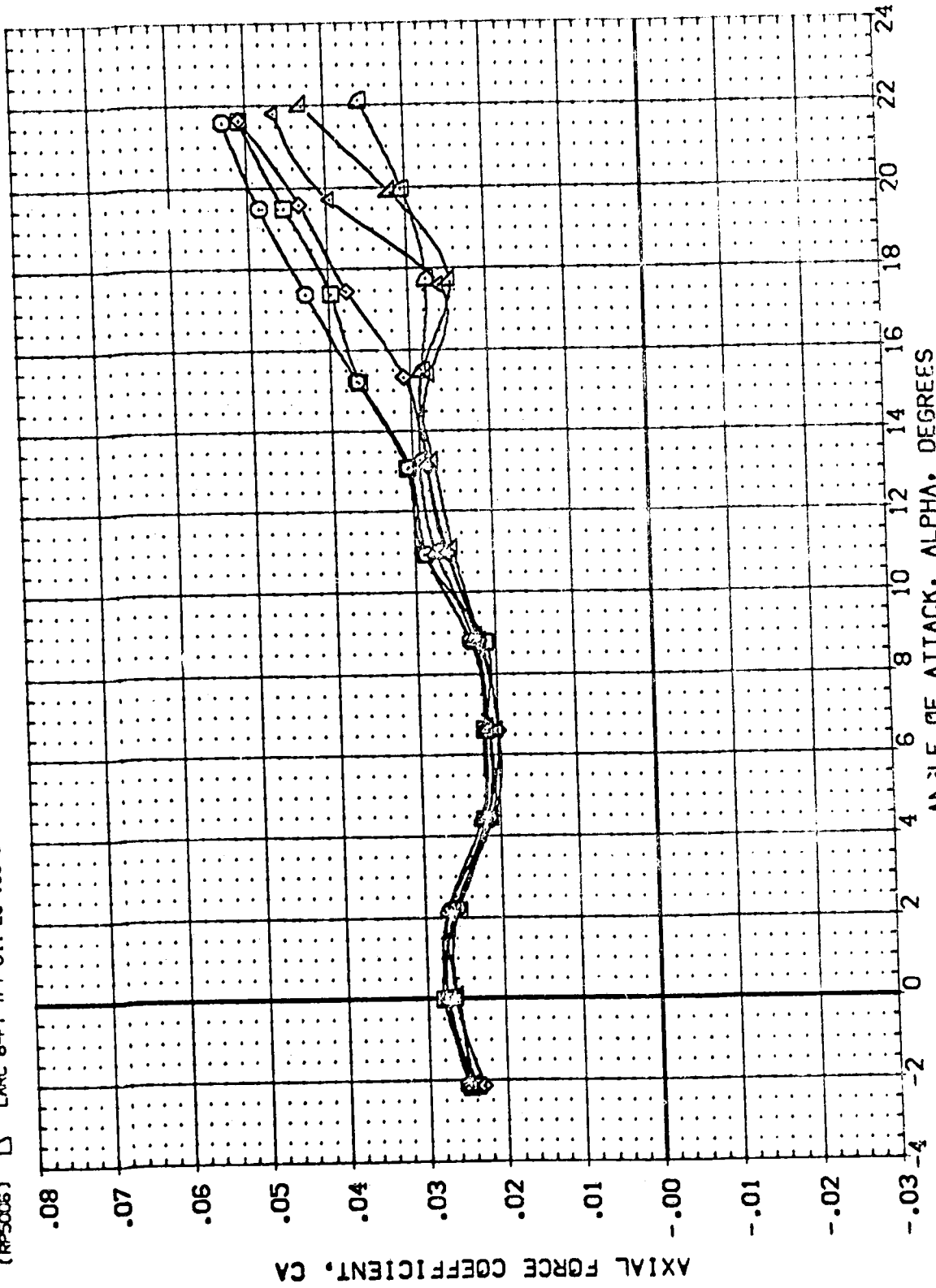


EFFECT OF FILLET ON LO-100 WING (B W I V F B)

(B)MACH = .80



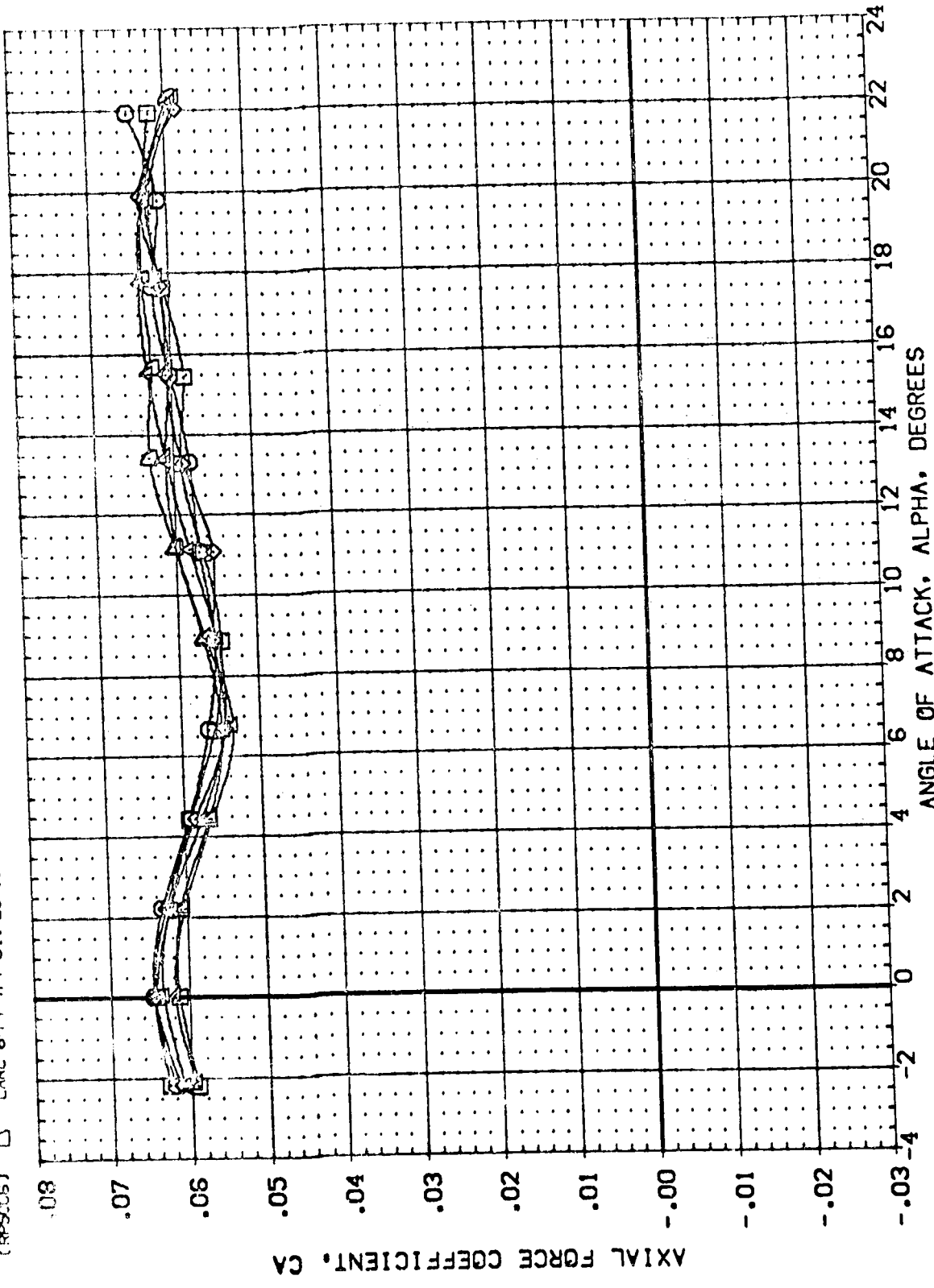
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WING	RUDFLR	BDFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	70.000	1.000	.000	.000	XMRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BVI VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W I V F B)

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDW	WINGW	RUGFLR	SEFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (SWIVFB)	53.200	1.000	.000	.000	CREF 175.7375 50.1 IN
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BWVFB)	60.000	.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BWVFB)	65.000	.000	.000	.000	PREF 19.7155 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BWVFB)	70.000	.000	.000	.000	XTRP 15.5333 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BWVFB)	75.000	.000	.000	.000	YTRP .0000 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BWVFB)	78.000	1.000	.000	.000	ZTRP .0000 INCHES
						SCALE .0188 SCALE

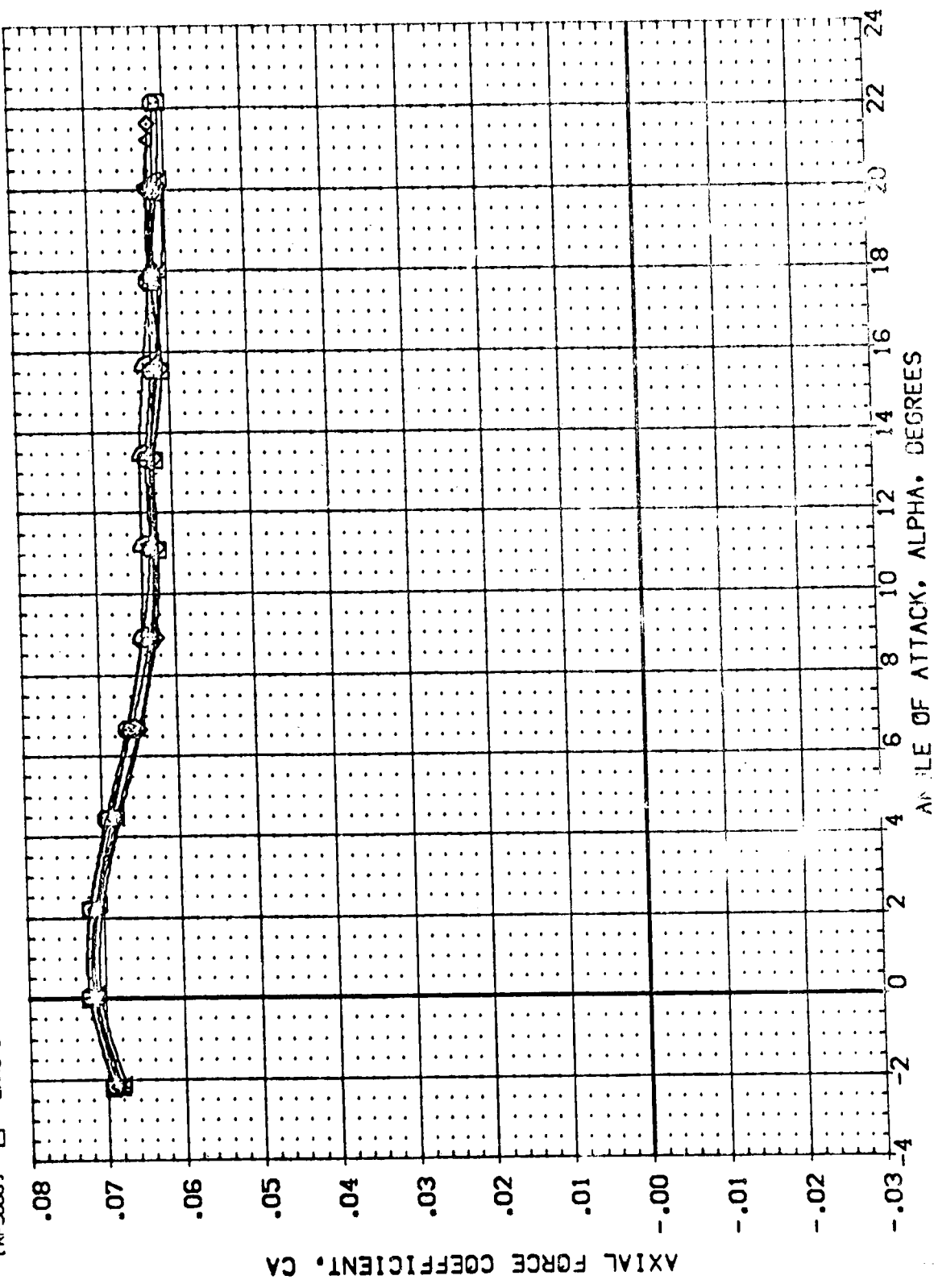


EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(0)MACH = .98



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ. IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XMRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W I V F B)
 (E)MACH = 1.20

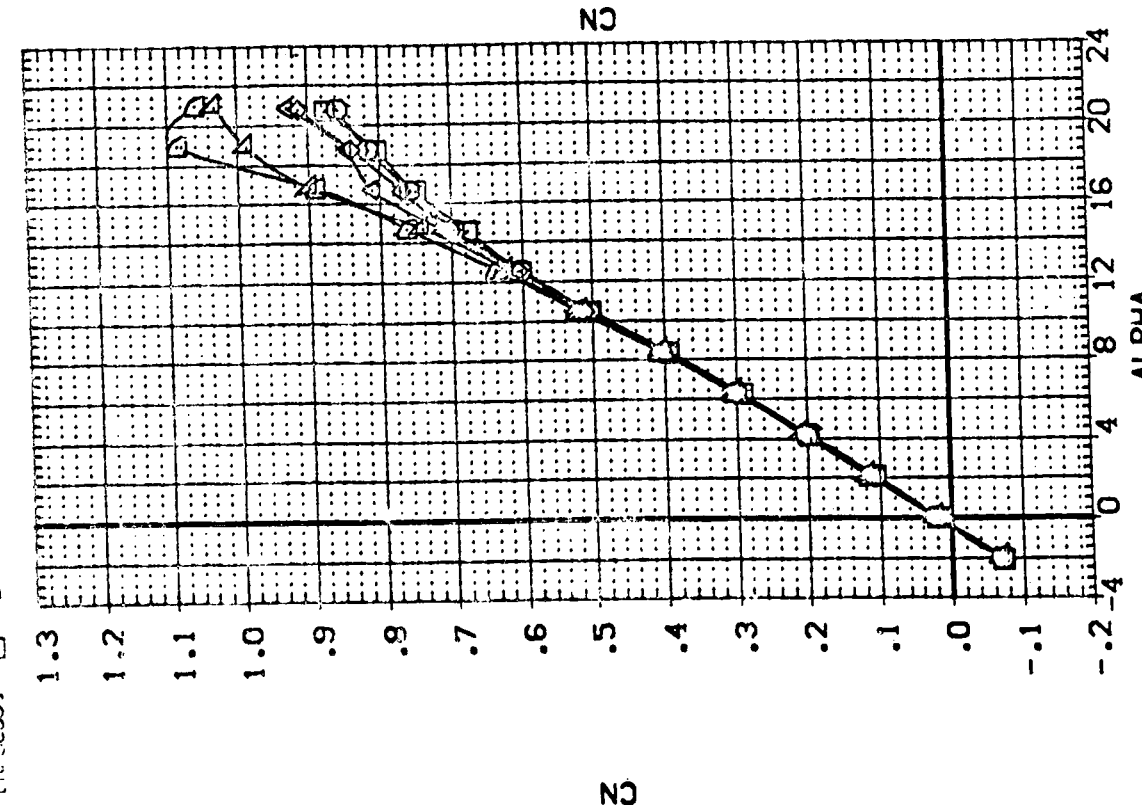
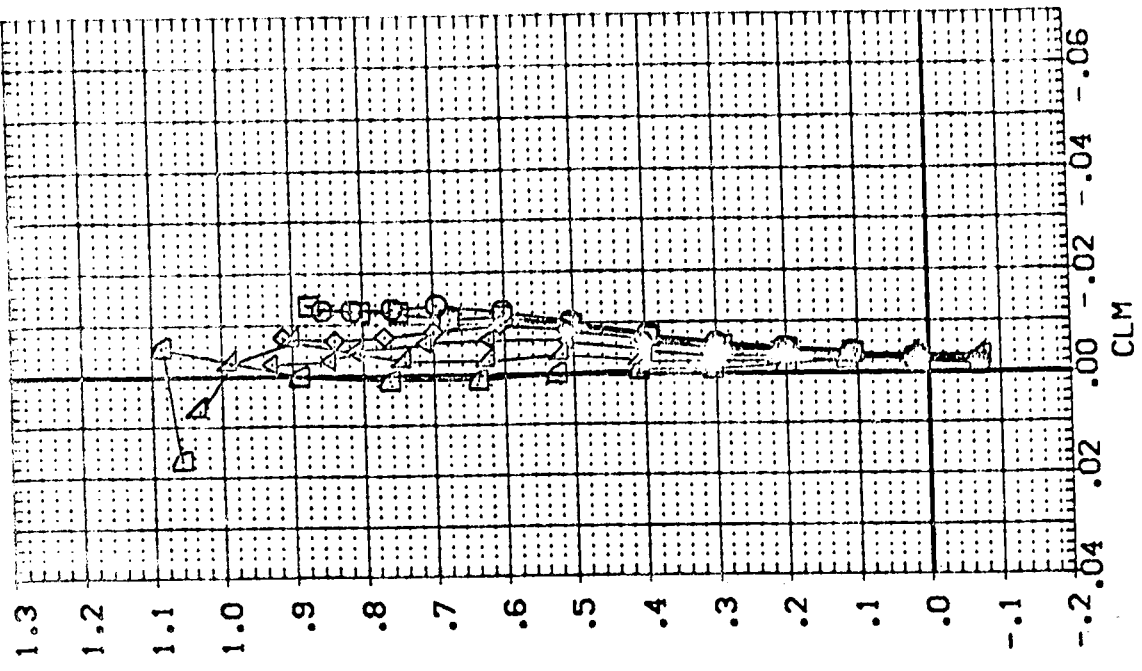
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RPS001)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)
(RPS002)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)
(RPS003)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)
(RPS004)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)
(RPS005)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)
(RPS006)	LARC 8-SET TPT 644 LG-100	(B3)TER(SHIPS)	(B)M(VFB)

REFERENCE INFORMATION

SREF	175.7375	50.1 IN.
LRGE	25.5100	100.0 IN.
LRGE	19.7155	100.0 IN.
LRGE	16.8633	100.0 IN.
LRGE	14.0000	100.0 IN.
LRGE	11.1367	100.0 IN.
LRGE	8.2734	100.0 IN.
LRGE	5.4101	100.0 IN.
LRGE	2.5468	100.0 IN.
LRGE	0.0000	100.0 IN.
SCALE	0.189	SCALE

LANDAF 53.200
 WINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 VINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 WINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 LANDAF 60.000
 WINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 VINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 LANDAF 65.000
 WINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 VINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 LANDAF 70.000
 WINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 VINGQ 1.000
 RUSFLR 0.000
 RUSFLP 0.000
 LANDAF 75.000
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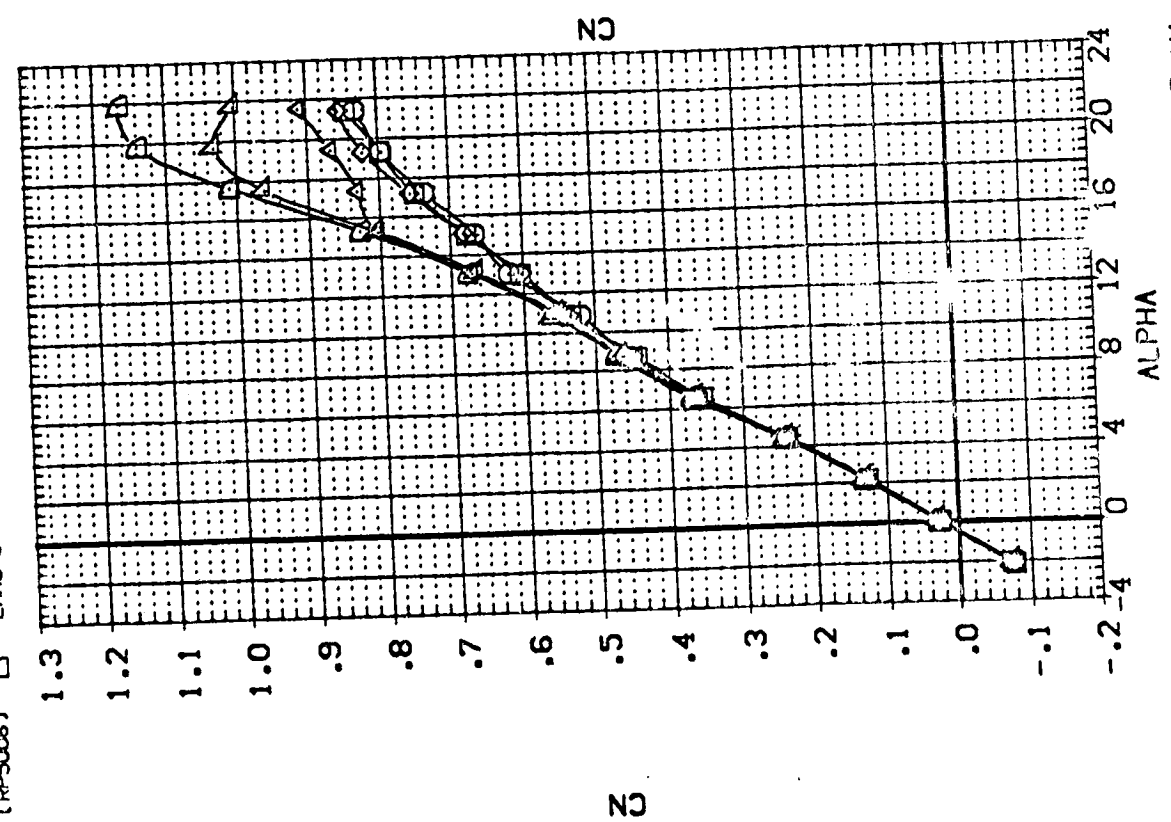
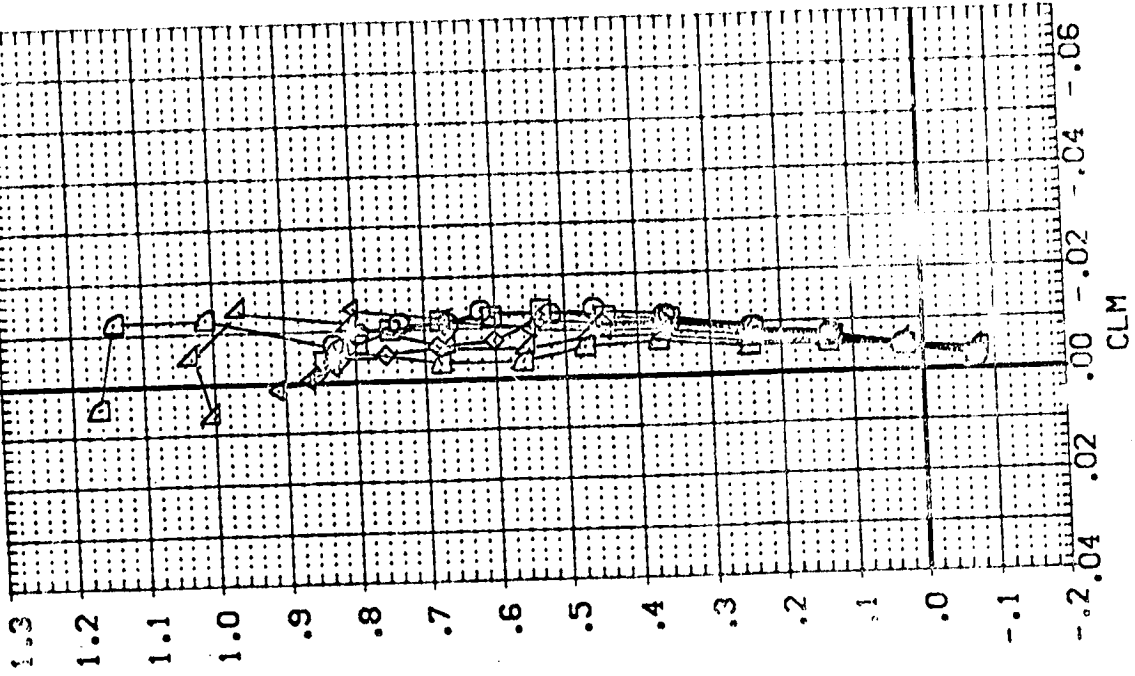


EFFECT OF FILLET ON LG-100 WING (B M1 V FB)

(A)MACH = .35

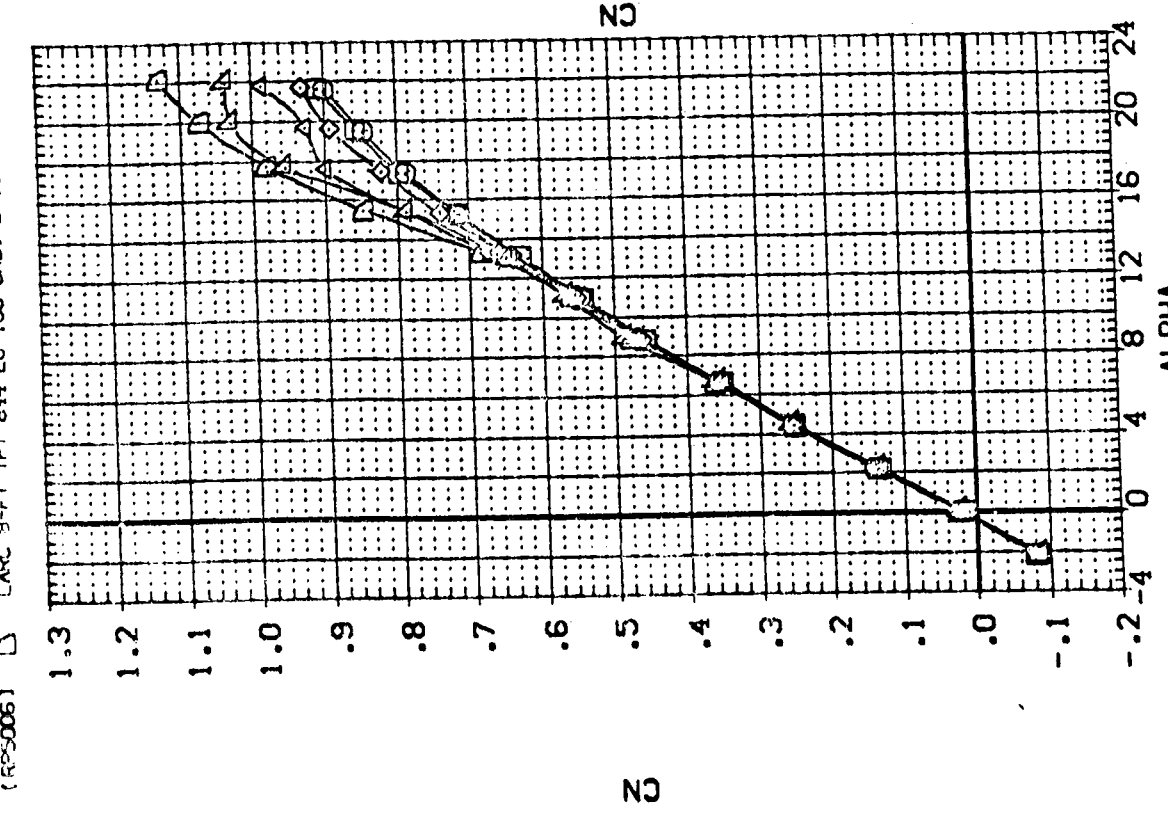
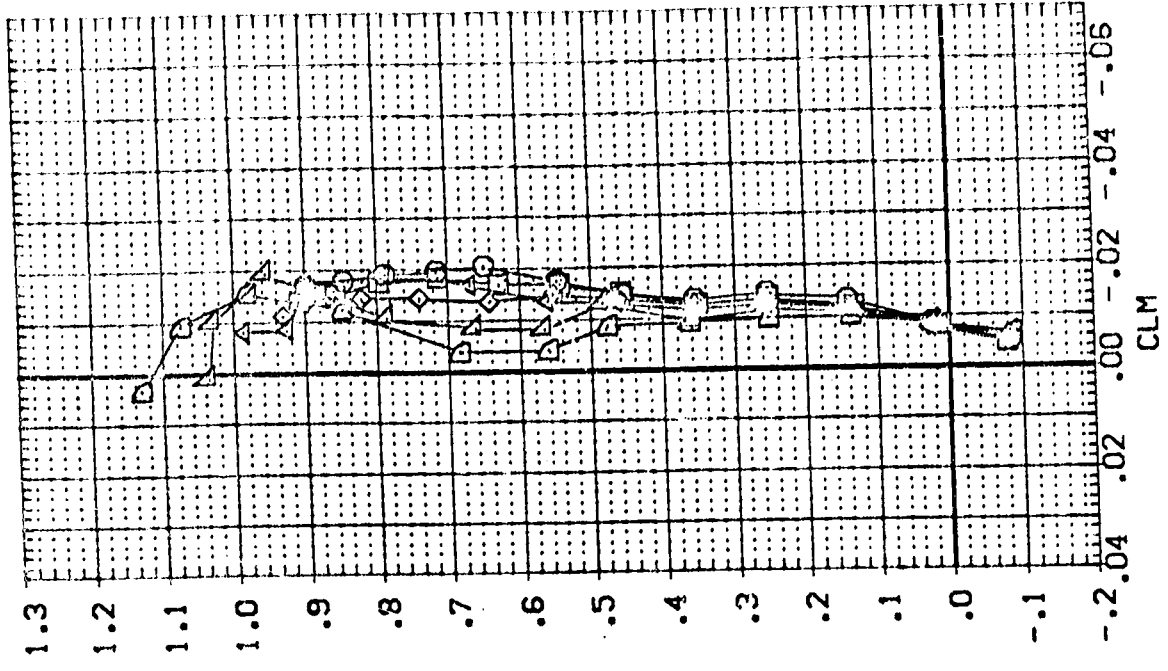


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XPRP 16 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZPRP .0000 INCHES
						SCALE .0189 SCALE



EFFECT OF FILLET ON LG-100 WING (B W I V F B)
 (B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE CONFIGURATION	WINGND	PANELS	BOXLAP	SCALE
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	53,200	1,000	.000	.000	1.0188
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	60,000	1,000	.000	.000	1.0188
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	65,000	1,000	.000	.000	1.0188
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	70,000	1,000	.000	.000	1.0188
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	75,000	1,000	.000	.000	1.0188
(RP5006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	78,000	1,000	.000	.000	1.0188

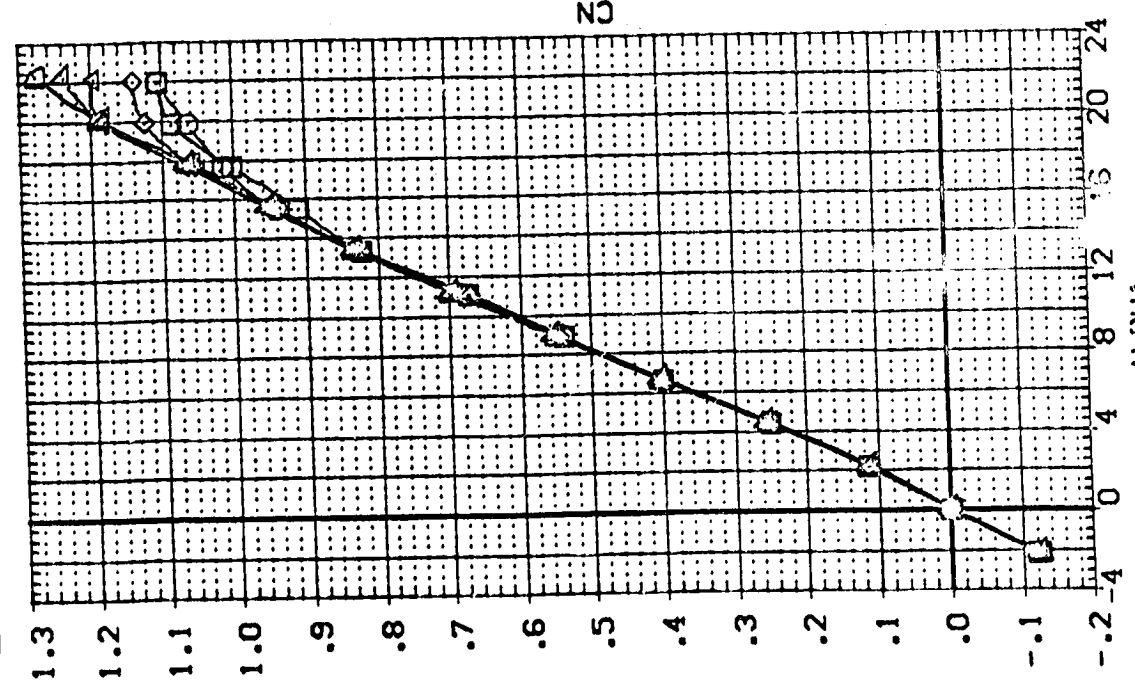
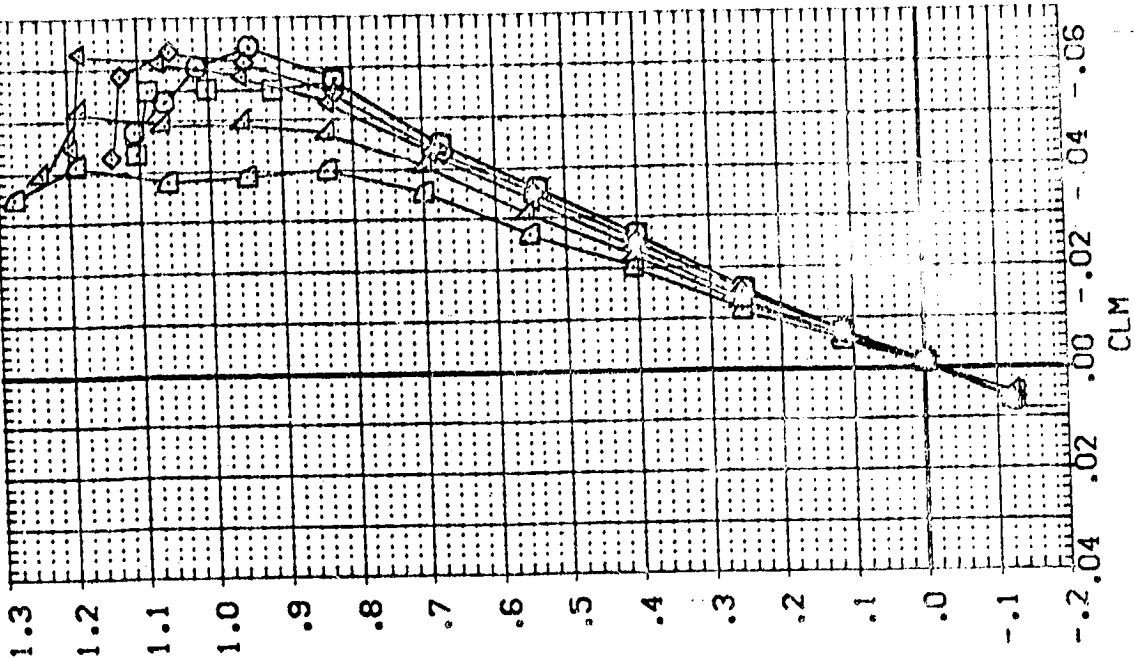


EFFECT OF FILLET ON LG-100 WING (B W I V F B)

(C)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	53.200	1.000	.000	.000	SREF 175.7376 SG.IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	65.000	1.000	.000	.000	BREF 19.7155 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	70.000	1.000	.000	.000	XPRP 16.6633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BVI/VFB)	78.000	1.000	.000	.000	ZPRP .0188 SCALE



EFFECT OF FILLET ON LO-100 WING (B W I V F B)

COJMACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RP5001) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)
 (RP5002) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)
 (RP5003) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)
 (RP5004) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)
 (RP5005) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)
 (RP5006) LARC 8-FT TPT 644 LC-100 CR8ITER(SHIPS) (BV1VFB)

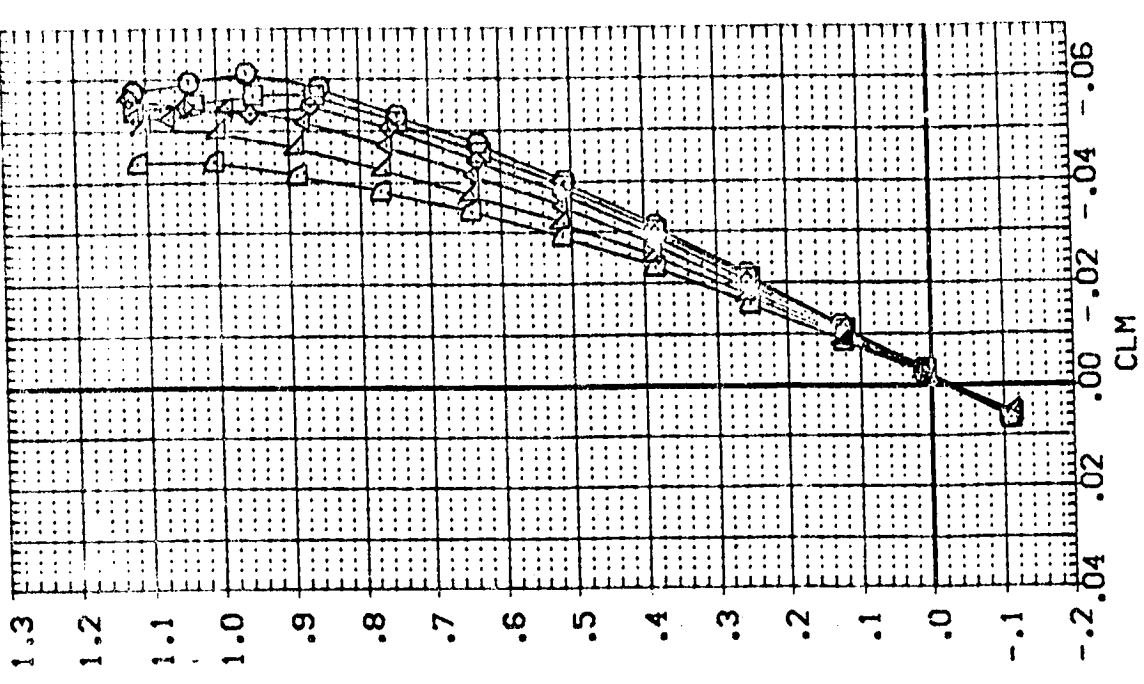
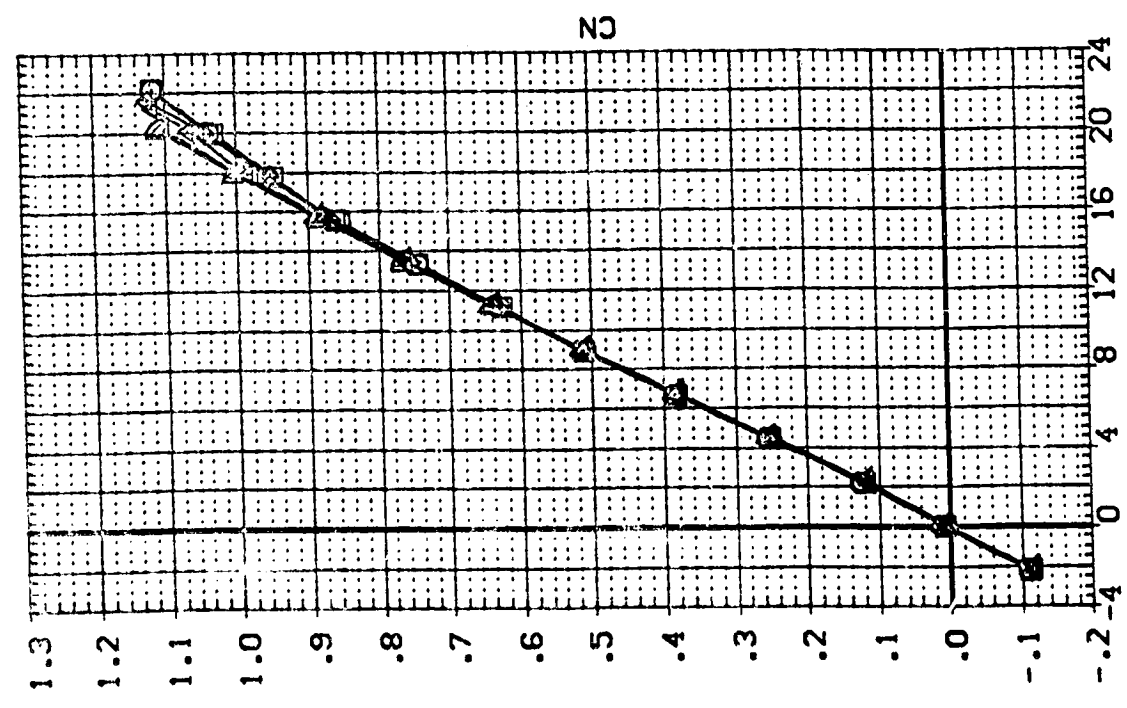
L/D CLM 53.200
 59.000
 65.000
 70.000
 75.000
 78.000

WING 1.000
 1.000
 1.000
 1.000
 1.000
 1.000

RUFLR .000
 .000
 .000
 .000
 .000
 .000

EDFLR .000
 .000
 .000
 .000
 .000
 .000

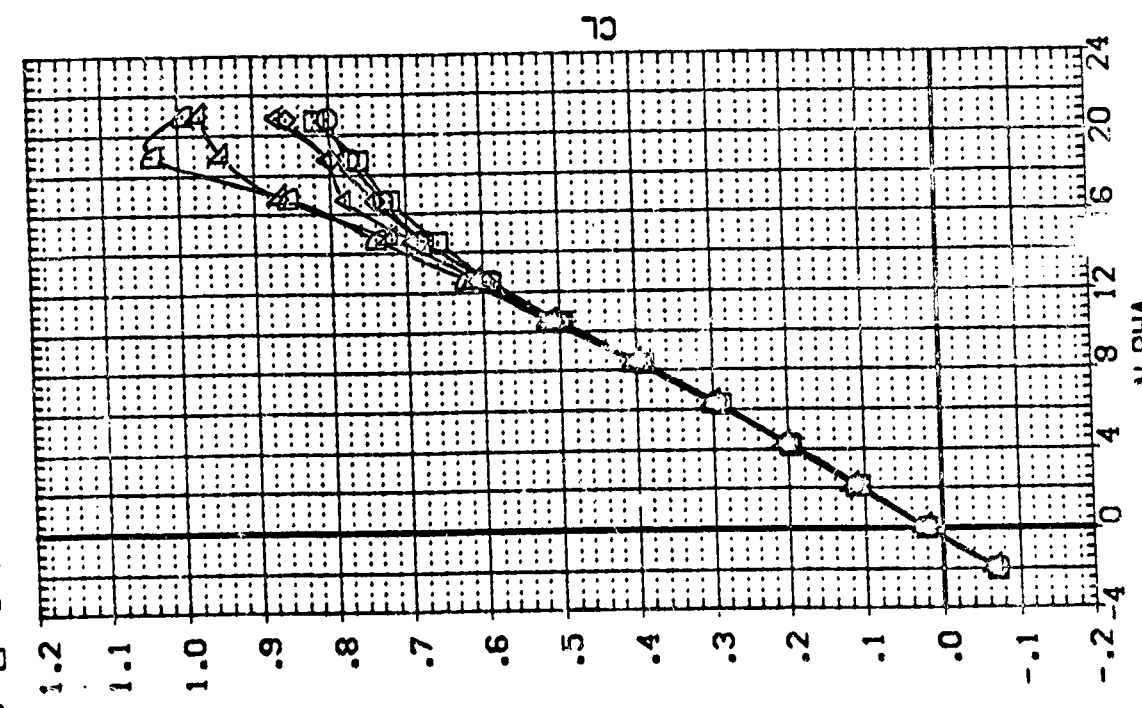
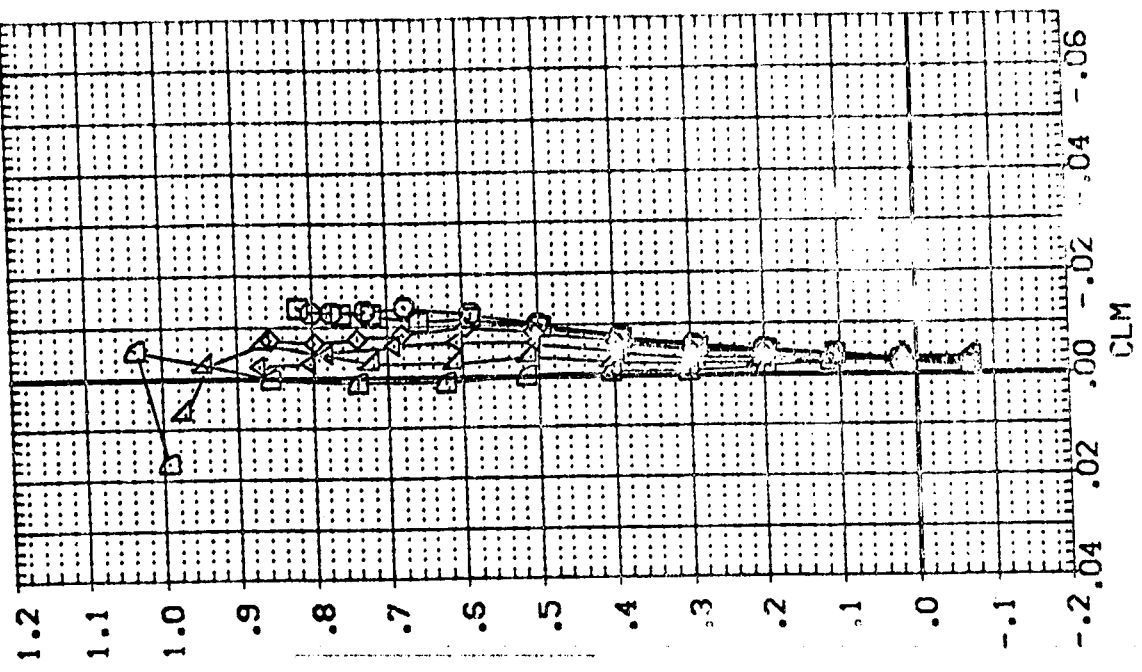
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 LREF 175.7376
 BRFLR 19.5156
 XMRP 19.5156
 YMRP 19.5156
 ZMRP 19.5156
 SCALE .0198



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)
 (E)MACH = 1.20

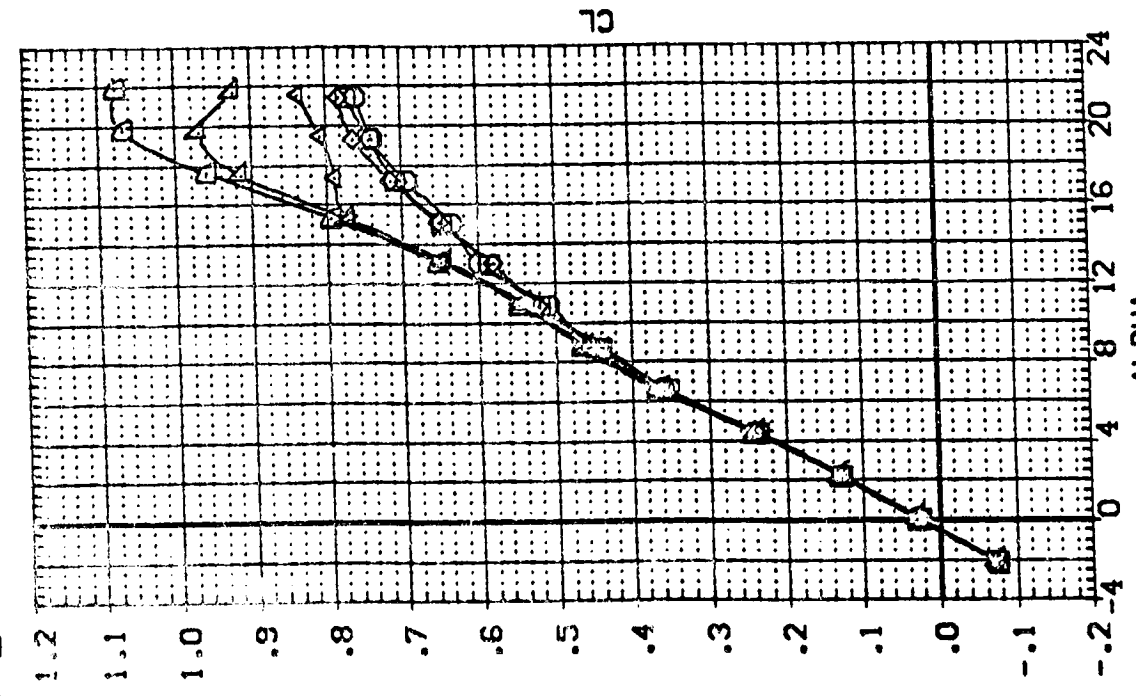
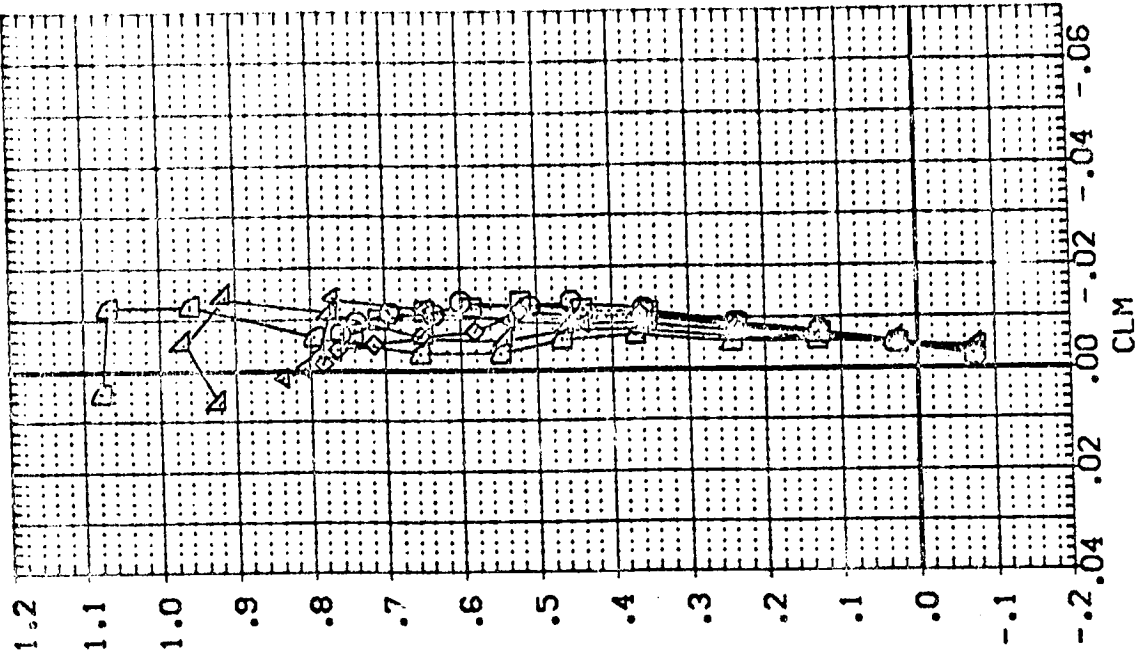


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ORBITER(SHIPS)	(BVI/VFB)	LAMDAF	VINGW	RUFLLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	53.200	1.000	.000	.000	SREF 175.7376 50.1IN
(RP5002)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	70.000	1.000	.000	.000	XVFRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	75.000	1.000	.000	.000	YVFRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100	ORBITER(SHIPS)	(BVI/VFB)	78.000	1.000	.000	.000	ZVFRP .0188 INCHES
								SCALE



EFFECT OF FILLET ON LG-100 WING (B W I V F B)
 (A)MACH = .35

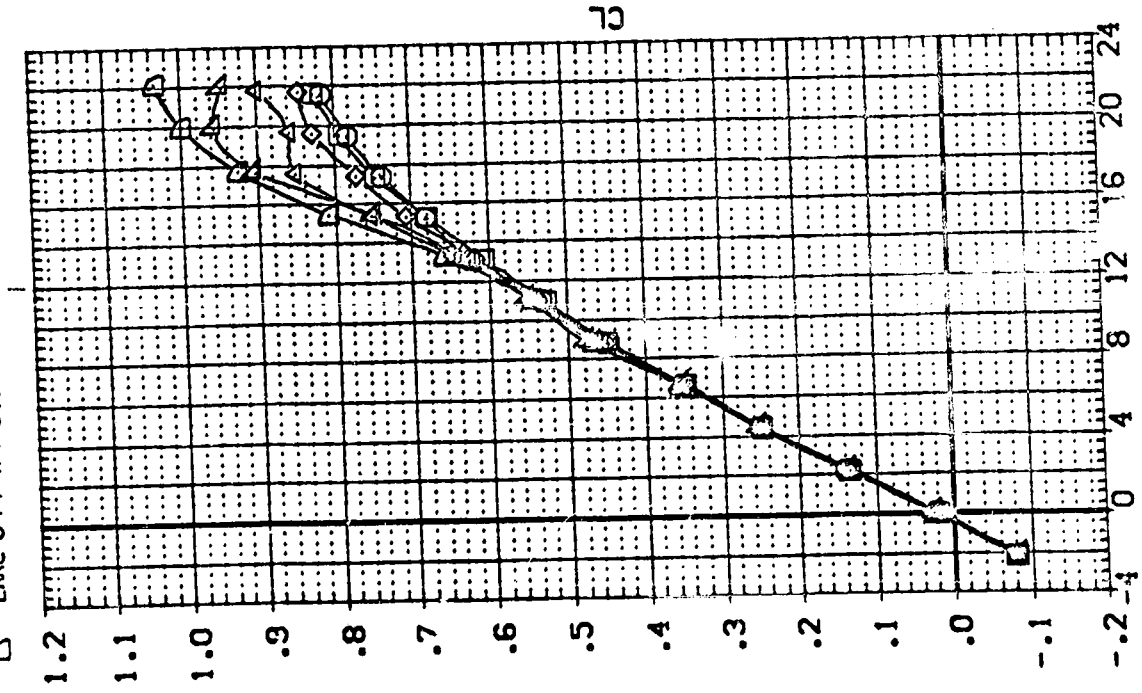
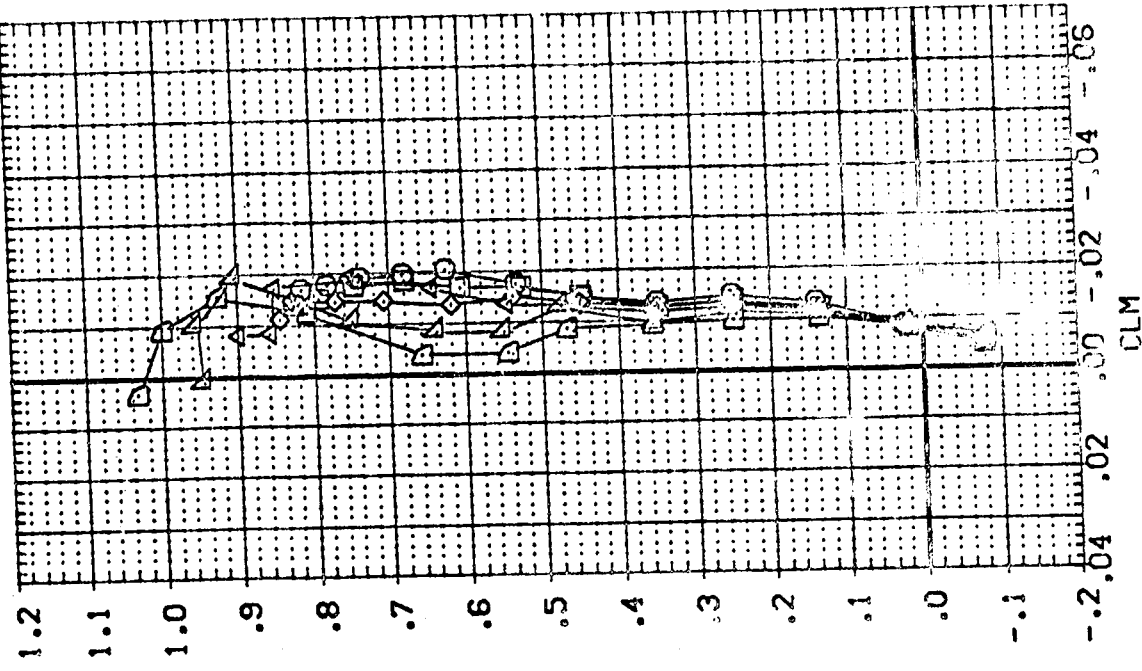
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGAR	RUSLR	ENDCAP	REF	SCALE
(P-5001)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	53.200	1.000	.000	.000	175.7916	SCALE
(P-5002)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	60.000	1.000	.000	.000	25.7158	SCALE
(P-5003)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	68.000	1.000	.000	.000	16.8933	SCALE
(P-5004)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	70.000	1.000	.000	.000	.0000	SCALE
(P-5005)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	75.000	1.000	.000	.000	.0000	SCALE
(P-5006)	LARC 8-FT TPT 644 LG-100 CRBTER(SHIPS) (B1VFB)	78.000	1.000	.000	.000	.0198	SCALE



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)
 (B)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDVF	VINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	53.200	1.000	.000	.000	SREF 175.7376 SO. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	63.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	70.000	1.000	.000	.000	XWRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	75.000	1.000	.000	.000	YWRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BVI VFB)	78.000	1.000	.000	.000	ZWRP .0188 SCALE



EFFECT OF FILLET ON LG-100 WING (B VI V FB)

(C)MACH = .90

DATA SET SYMBOL
 (RPS001)
 (RPS002)
 (RPS003)
 (RPS004)
 (RPS005)
 (RPS006)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CABINER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LO-100 CABINER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LO-100 CABINER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LO-100 CABINER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LO-100 CABINER(SHIPS) (BVLVFB)

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 70.000
 75.000
 78.000

WINGW .000
 .000
 .000
 .000
 .000
 .000

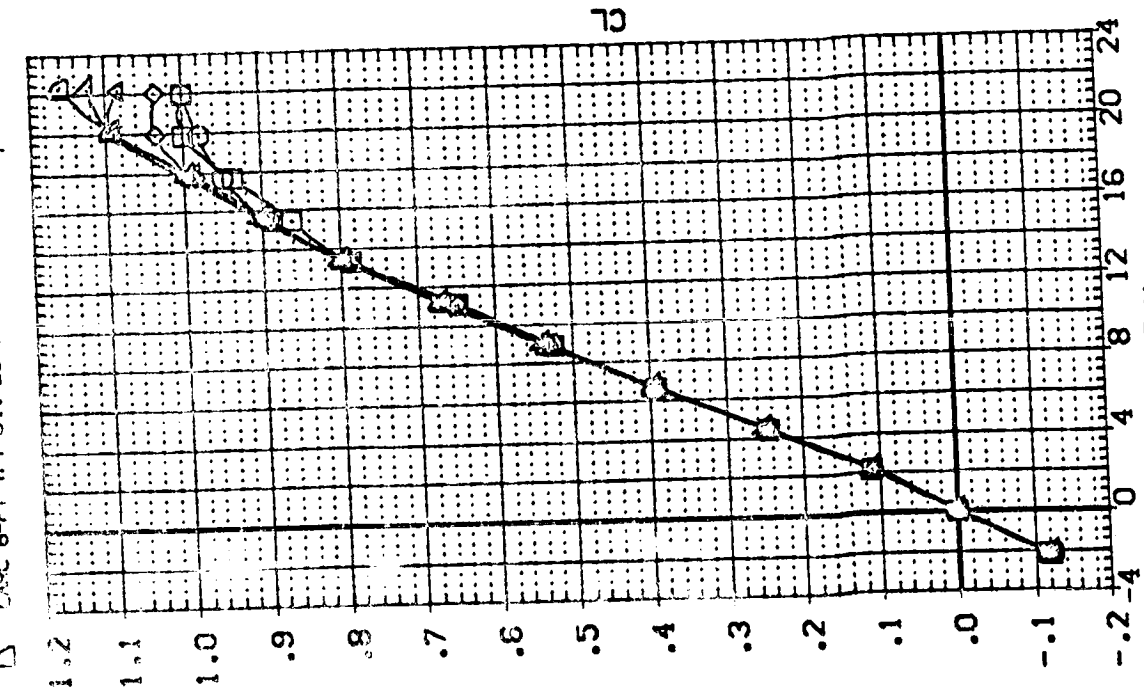
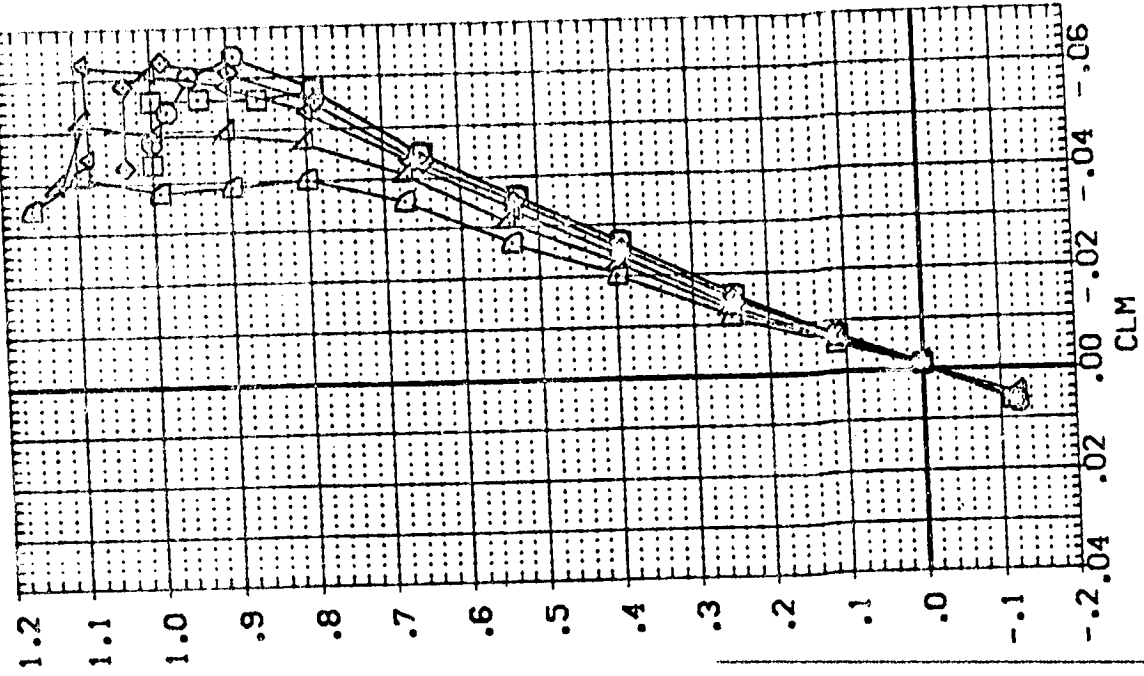
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SCALF 175.7275
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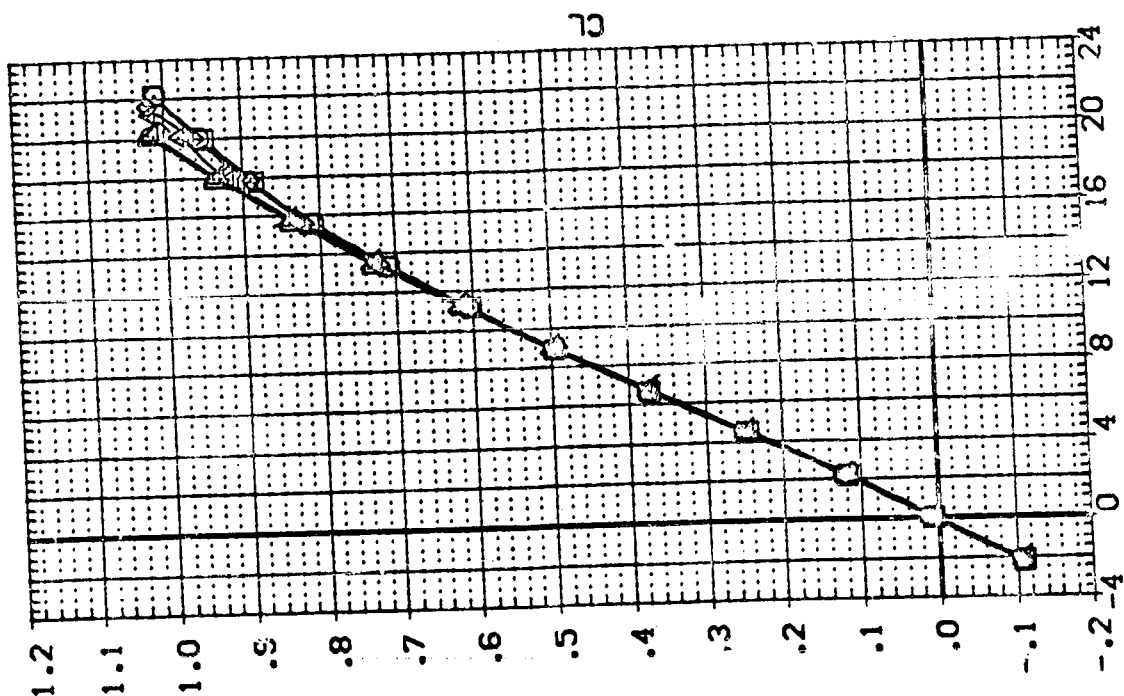
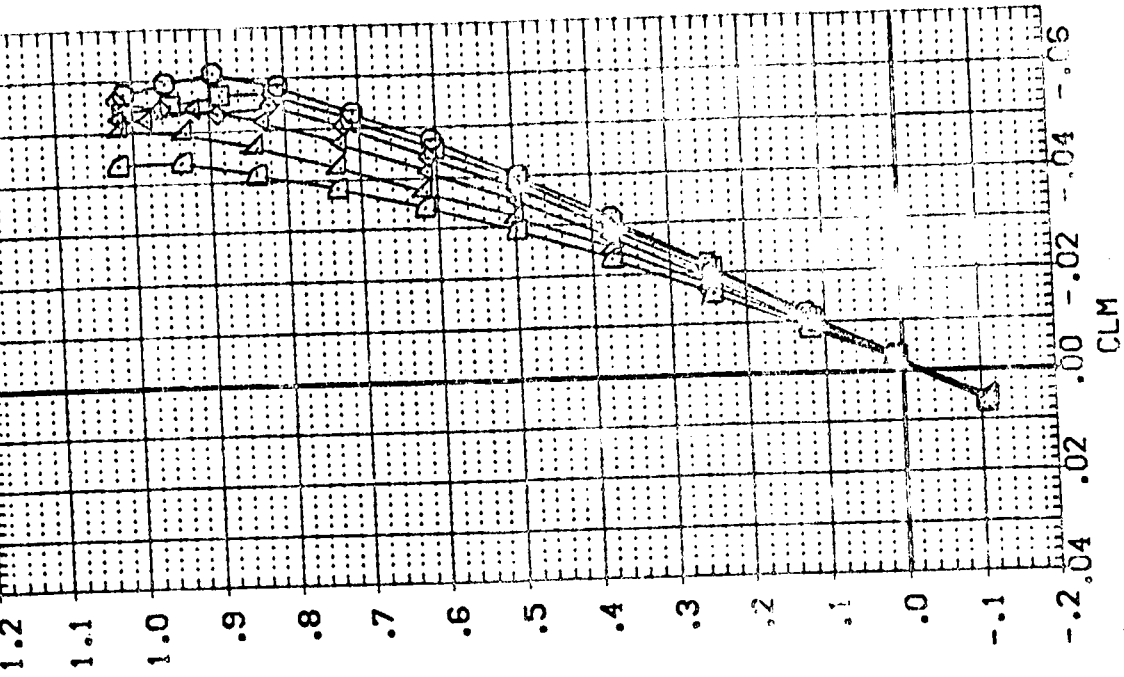
SCALE .0188



EFFECT OF FILLET ON LO-100 WING (8 W1 V FB)
 (0)MACH = .98



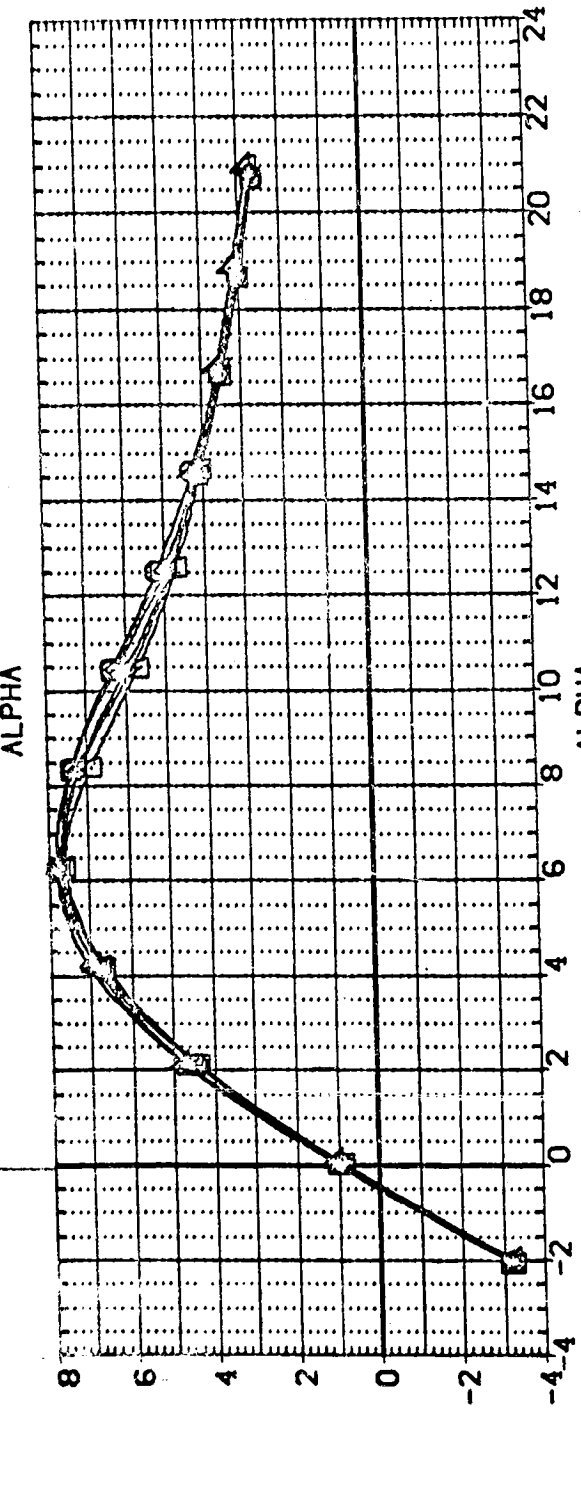
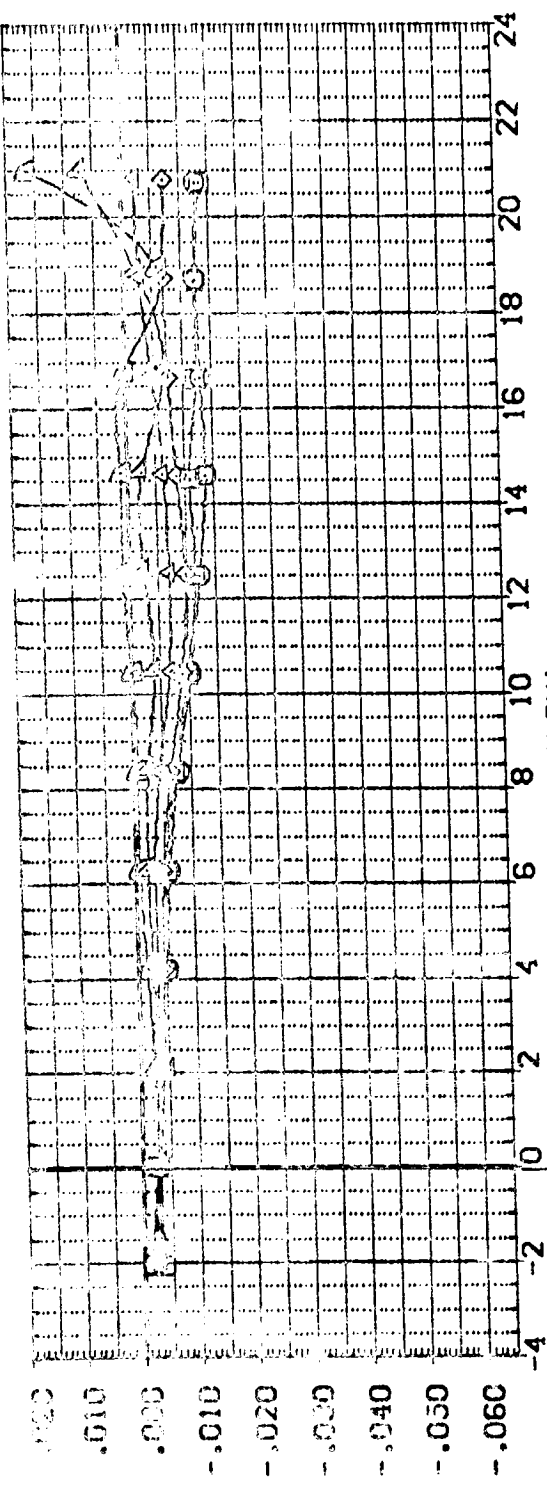
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUDFLR	BDFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ. IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XMRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZMRP .0188 INCHES
						SCALE



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(MACH = 1.20

DATA SET SYMBOL	CONF. QUANTITY	DESCRIPTION	LA:QVF	WING:WB	R:COLR	REF:FLAP	REFERENCE INFORMATION	SCALE
(195-001)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	59.200	.000	.000	0.00	175.7375	0.0175
(195-002)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	60.000	.000	.000	0.00	75.5158	0.0075
(195-003)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	65.000	.000	.000	0.00	19.7158	0.0019
(195-004)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	70.000	.000	.000	0.00	0.0000	0.0000
(195-005)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	75.000	.000	.000	0.00	0.0000	0.0000
(195-006)	LARC 8-PT 844	LO-100 CRBITTER(SHIPS)	78.000	.000	.000	0.00	0.0000	0.0000

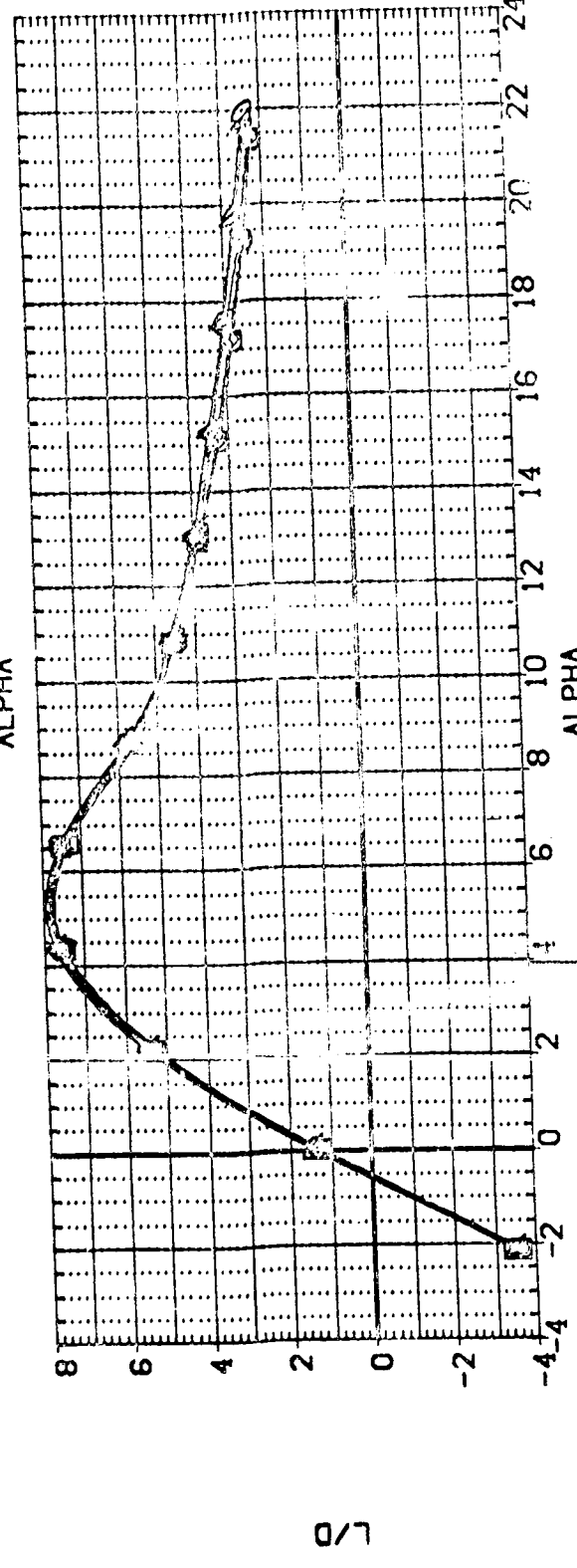
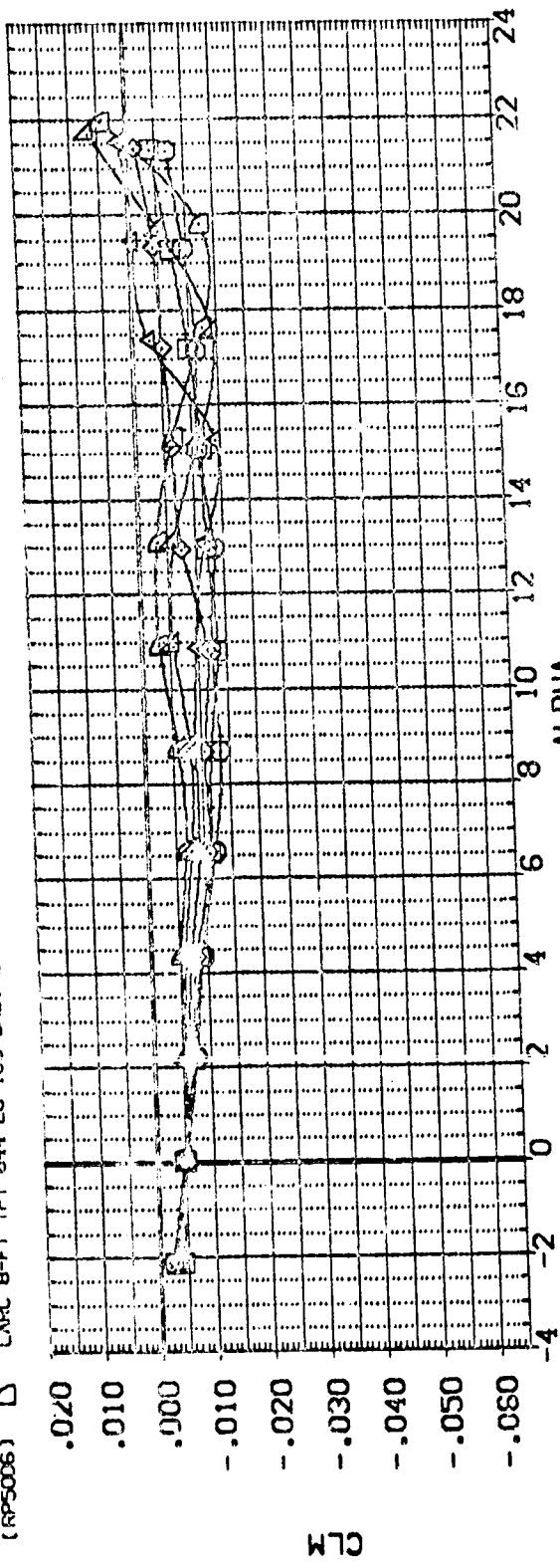


EFFECT OF FILLET ON LO-100 WING (B W I V F B)

(A)MACH = .35



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAWAF	VINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	53.200	1.000	.000	.000	SREF 175.7376 SO. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	70.000	1.000	.000	.000	XVREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	75.000	1.000	.000	.000	YVREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB ITER(SHIPS) (BW1VF8)	78.000	1.000	.000	.000	ZVREF .0000 INCHES
						SCALE .0168



EFFECT OF FILLET ON LG-100 WING (BW1 VFB)

(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R05001) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)
 (R05002) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)
 (R05003) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)
 (R05004) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)
 (R05005) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)
 (R05006) LARC 8-SET TPT 844 LG-100 C881TER(SHIPS) (B/W1VFB)

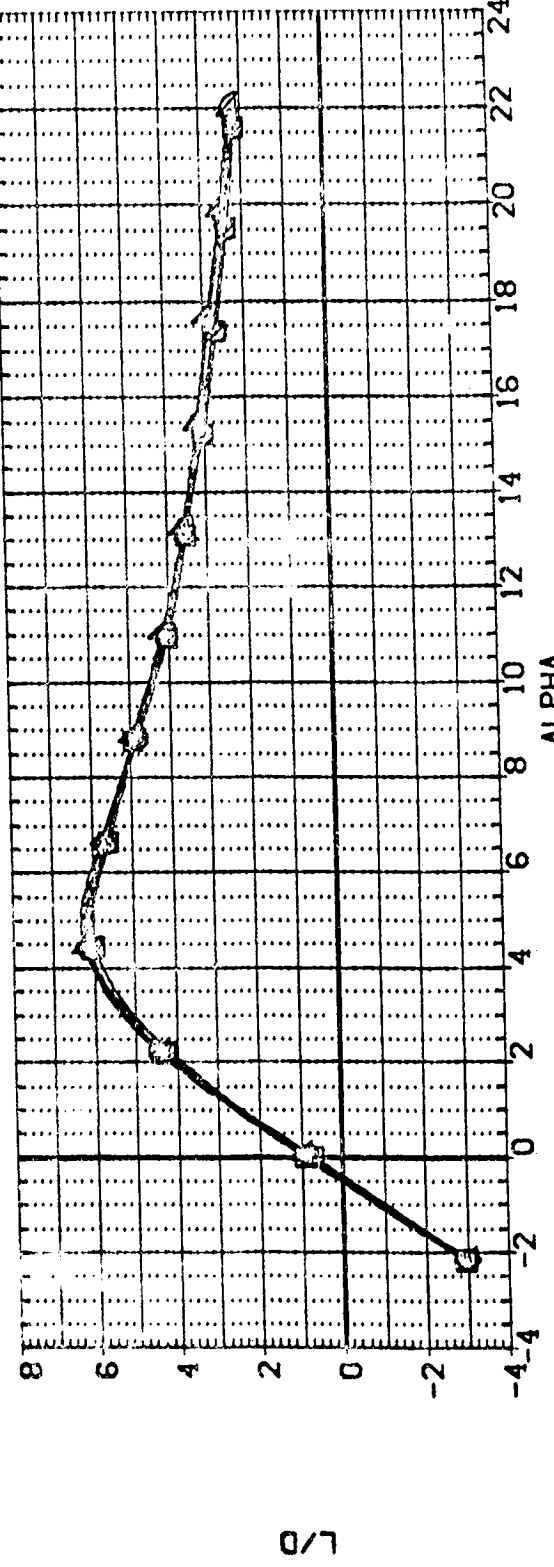
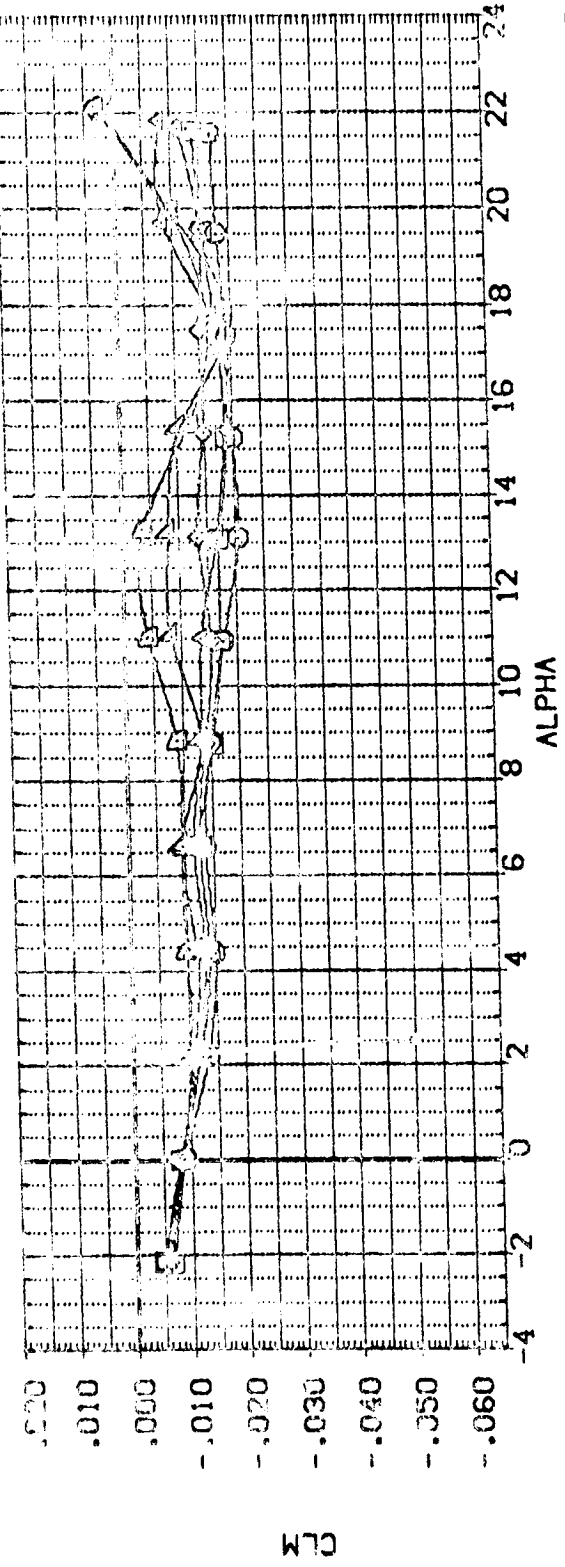
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WINDING 1.000
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 1.000

NUMBER 1.000
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 1.000
 1.000
 1.000
 1.000

REFLECTOR 175.7375
 175.5100
 173.7156
 15.0000
 1.0000
 .0189

REFERENCE INFORMATION
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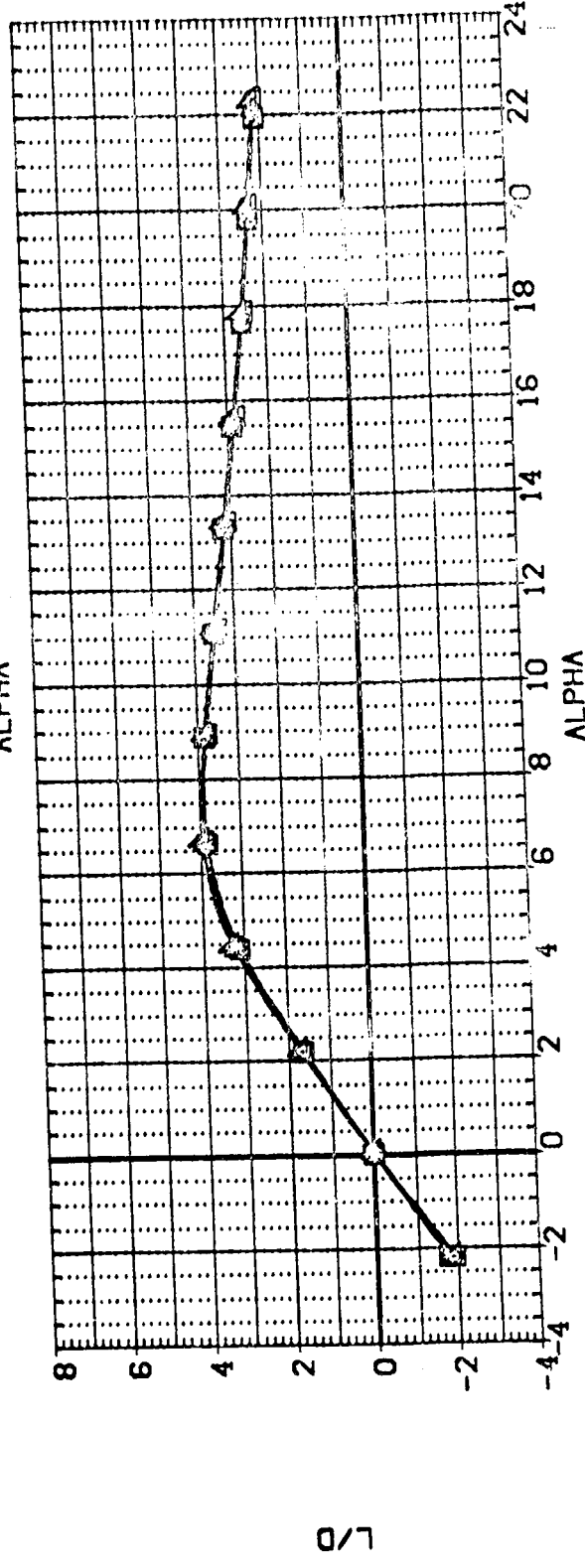
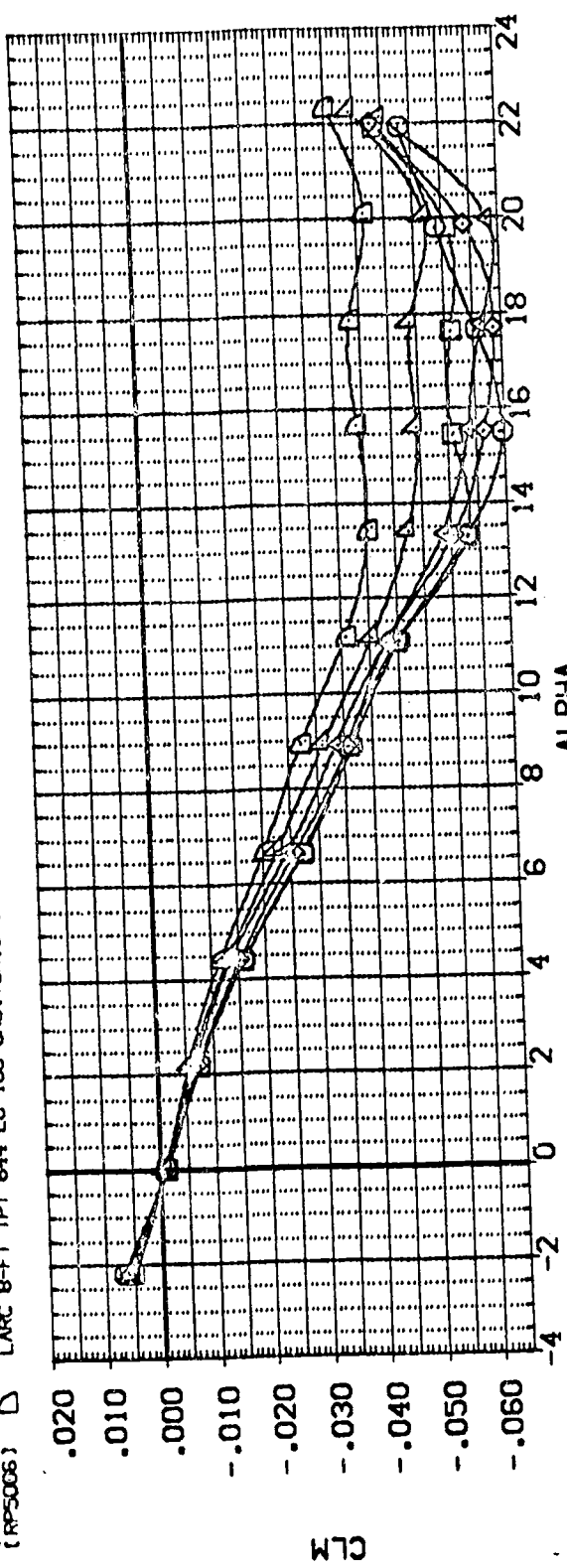


EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(CJ)MACH = .90



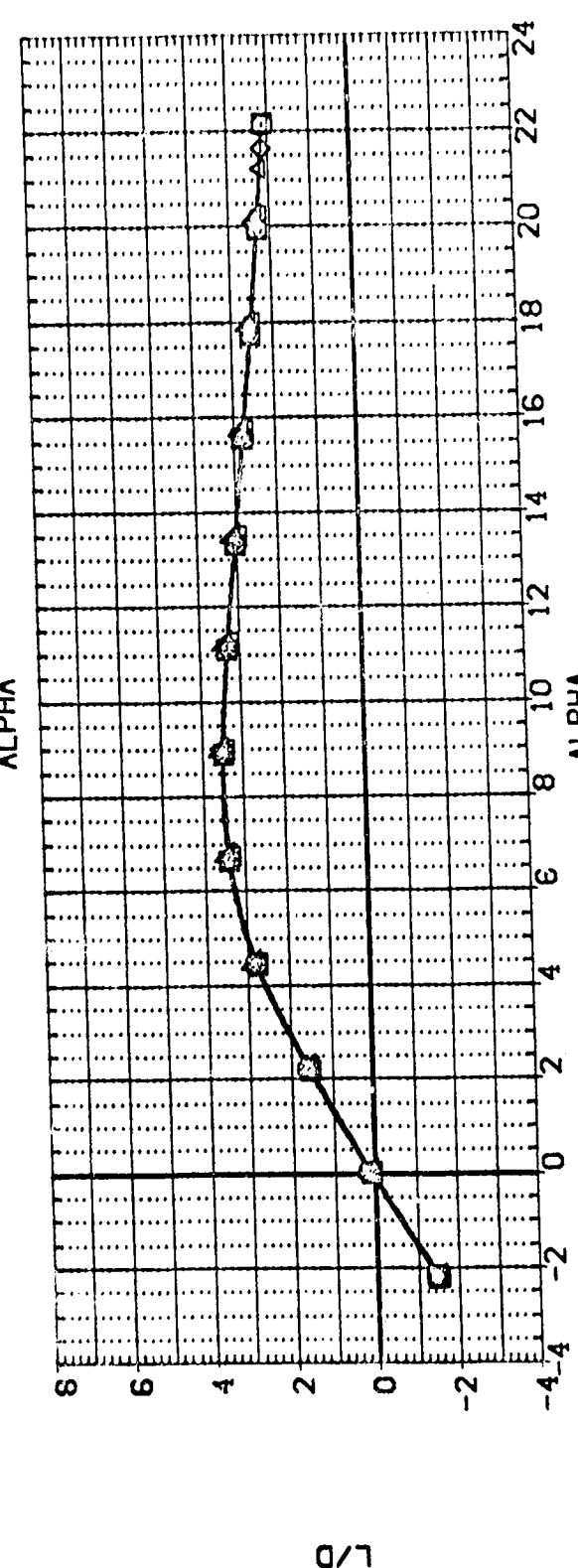
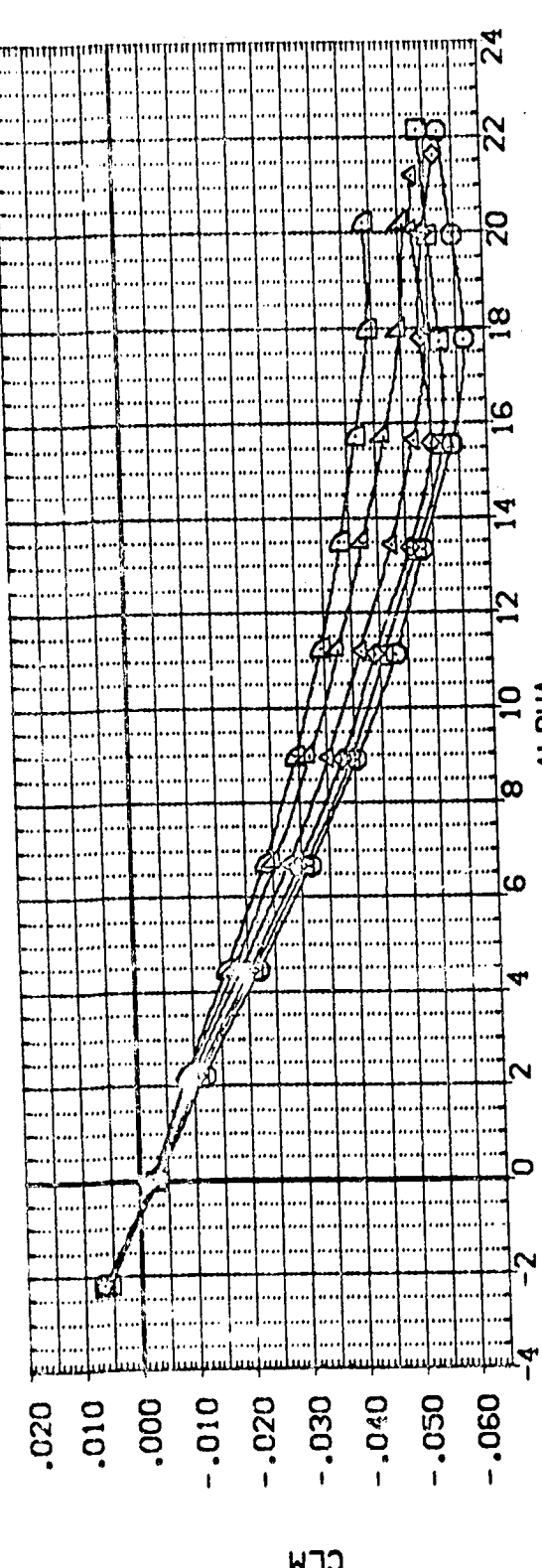
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNB	RUDFLR	EDFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	53.200	1.000	.000	.000	SREF 175.7376 50.1N.
(RP5002)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	70.000	1.000	.000	.000	XPRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BW1VFB)	78.000	1.000	.000	.000	ZPRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(D)MACH = .98

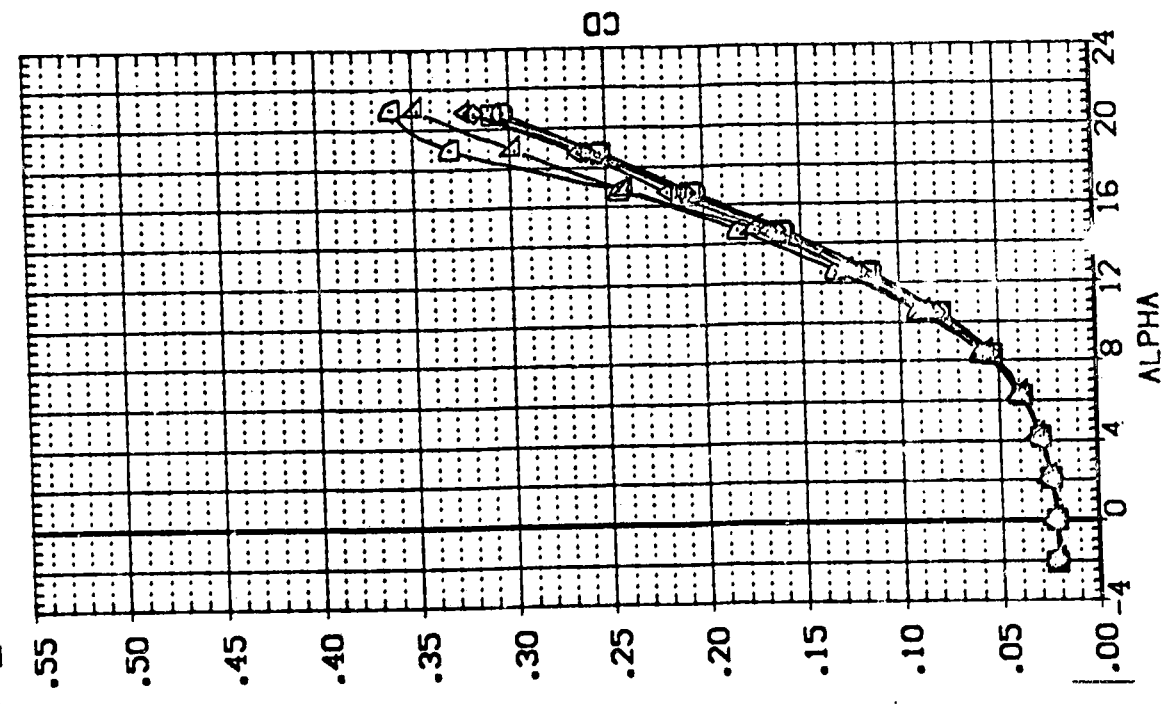
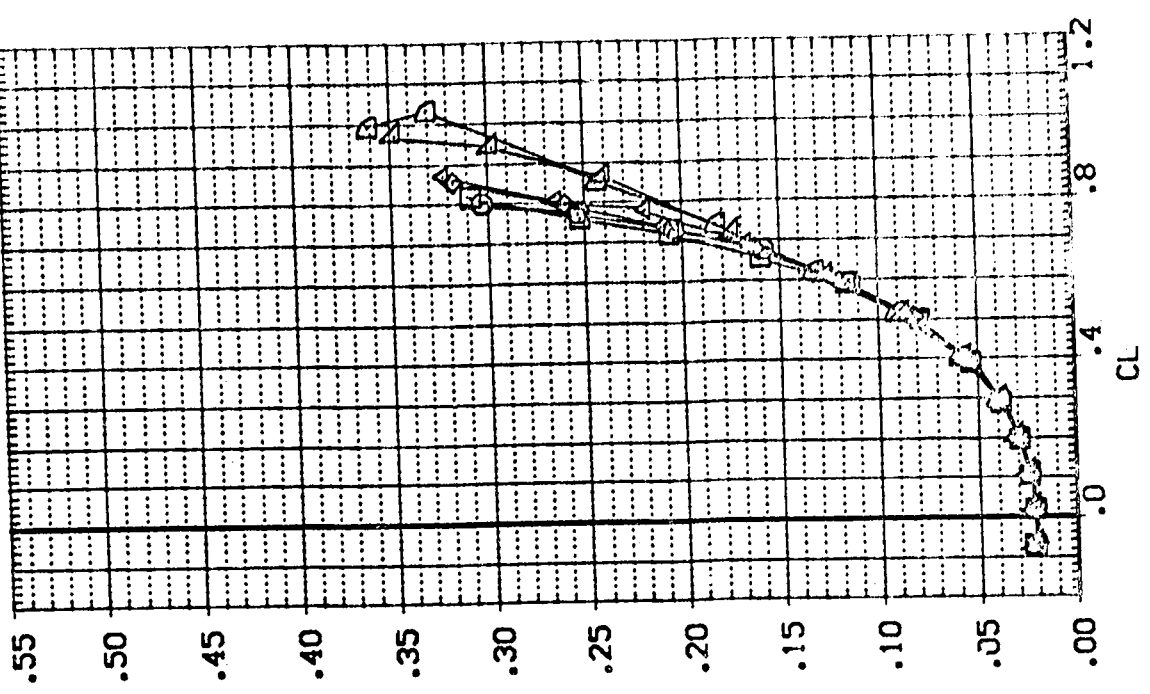
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGND	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	53.200	1.000	.000	.000	SREF 175.7375
(RPS002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	60.000	1.000	.000	.000	LREF 25.5100
(RPS003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	65.000	1.000	.000	.000	BREF 19.7156
(RPS004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	70.000	1.000	.000	.000	XCRP 16.8633
(RPS005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	75.000	1.000	.000	.000	YCRP .0000
(RPS005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS)	78.000	1.000	.000	.000	ZCRP .0188
						SCALE



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)
 (E)MACH = 1.20



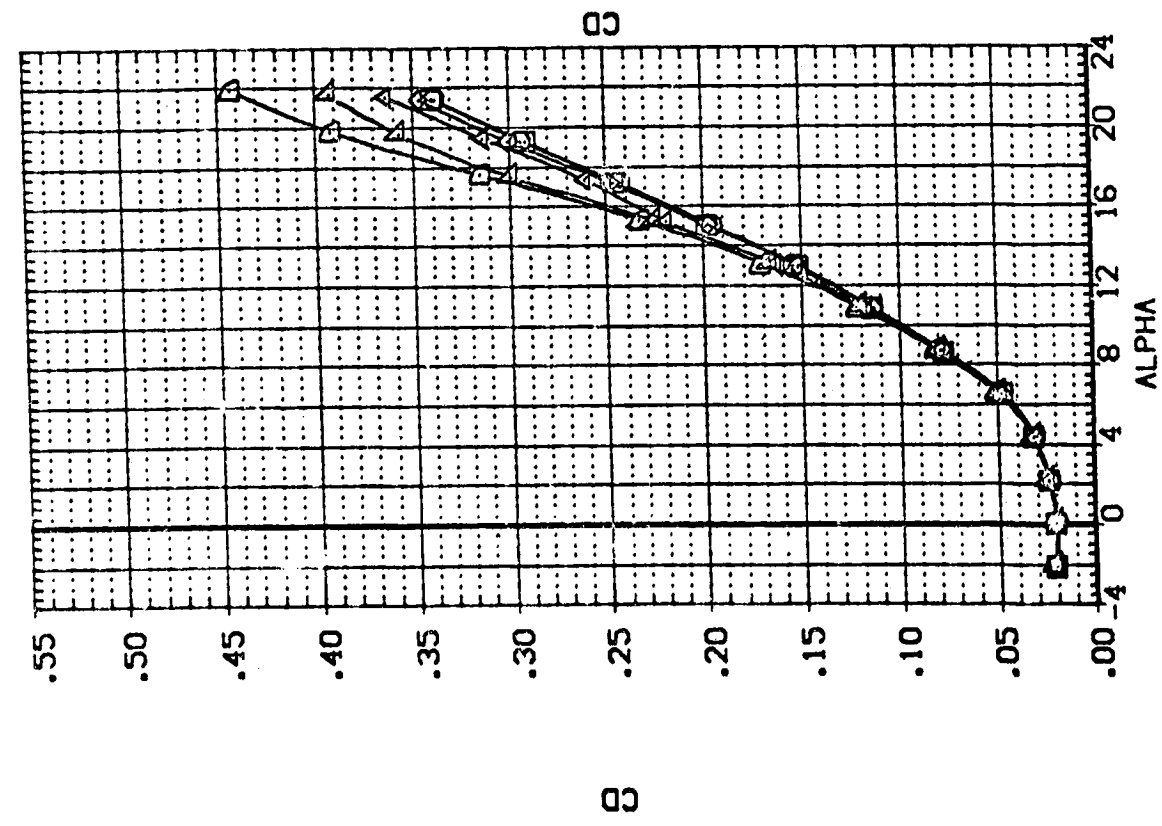
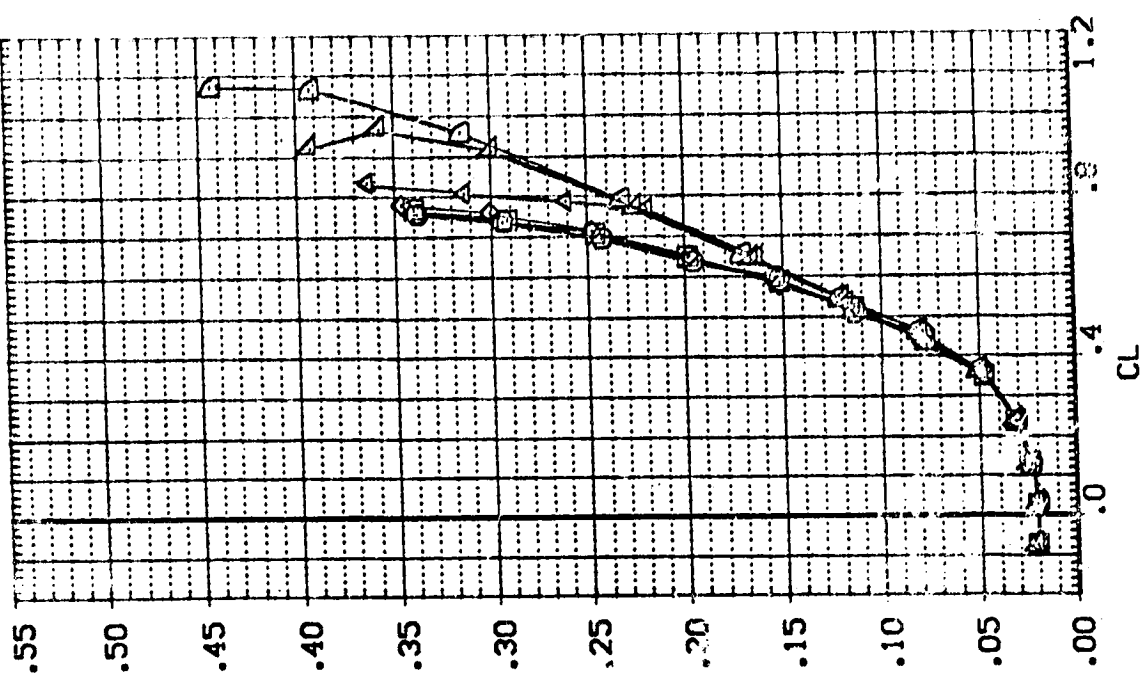
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGND	RUOFLR	BOFLAP	REFERENCE INFORMATION	SCALE
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	53.200	1.000	.000	.000	SREF 175.7376	50. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	60.000	1.000	.000	.000	LREF 25.5100	INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	65.000	1.000	.000	.000	BREF 19.7156	INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	70.000	1.000	.000	.000	XCZP 16.8633	INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	75.000	1.000	.000	.000	YCRP .0000	INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV VFB)	78.000	1.000	.000	.000	ZCRP .0000	INCHES
							.0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

CA/MACH = .35

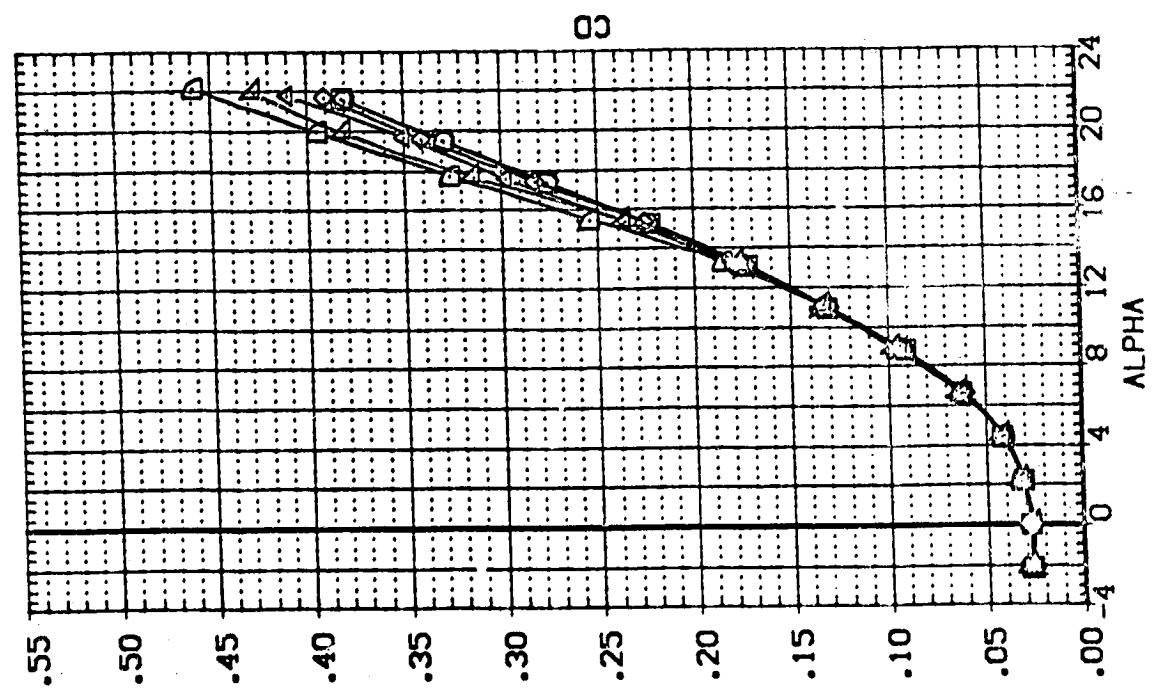
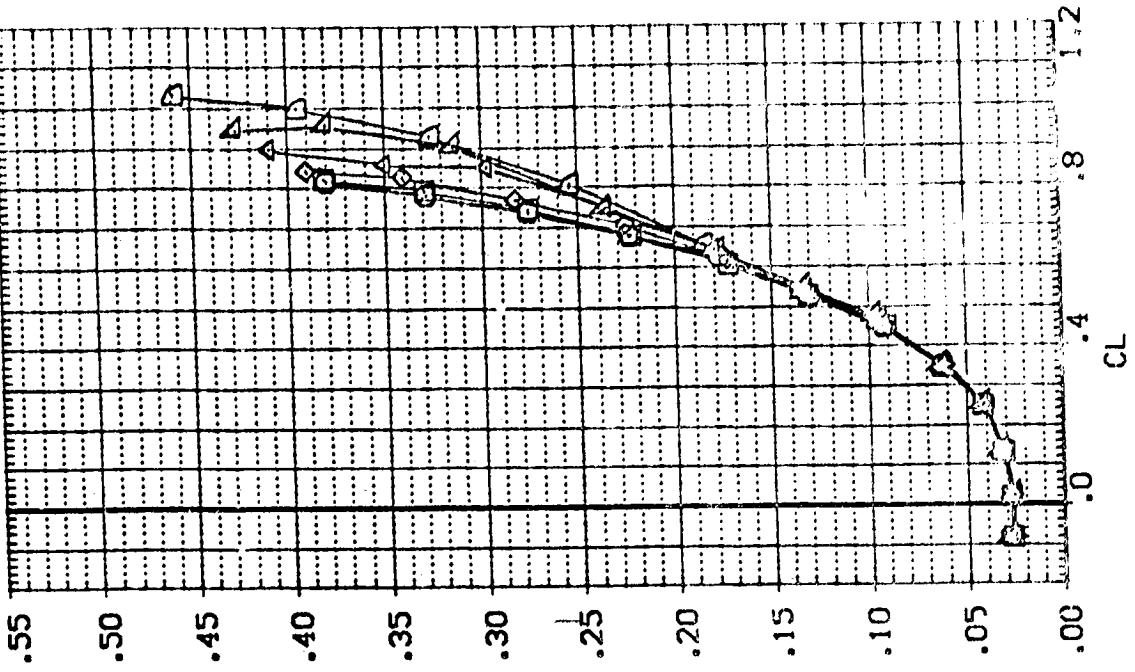
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	GR8ITER(SHIPS)	(BV1VFB)	LAPDAP	WINGDG	RUDFLR	SOFLAP	SREF	REFERENCE INFORMATION	SO IN
(RP5001)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	53.200	1.000	.000	.000	175.7376	INCHES	50
(RP5002)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	60.000	1.000	.000	.000	25.5100	INCHES	10
(RP5003)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	65.000	1.000	.000	.000	19.7156	INCHES	10
(RP5004)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	70.000	1.000	.000	.000	16.8633	INCHES	10
(RP5005)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	75.000	1.000	.000	.000	.0000	INCHES	10
(RP5006)	LARC 8-FT TPT 644 LO-100	GR8ITER(SHIPS)	(BV1VFB)	78.000	1.000	.000	.000	.0000	INCHES	10
								ZMP	SCALE	SCALE



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)
 (B)MACH = .80



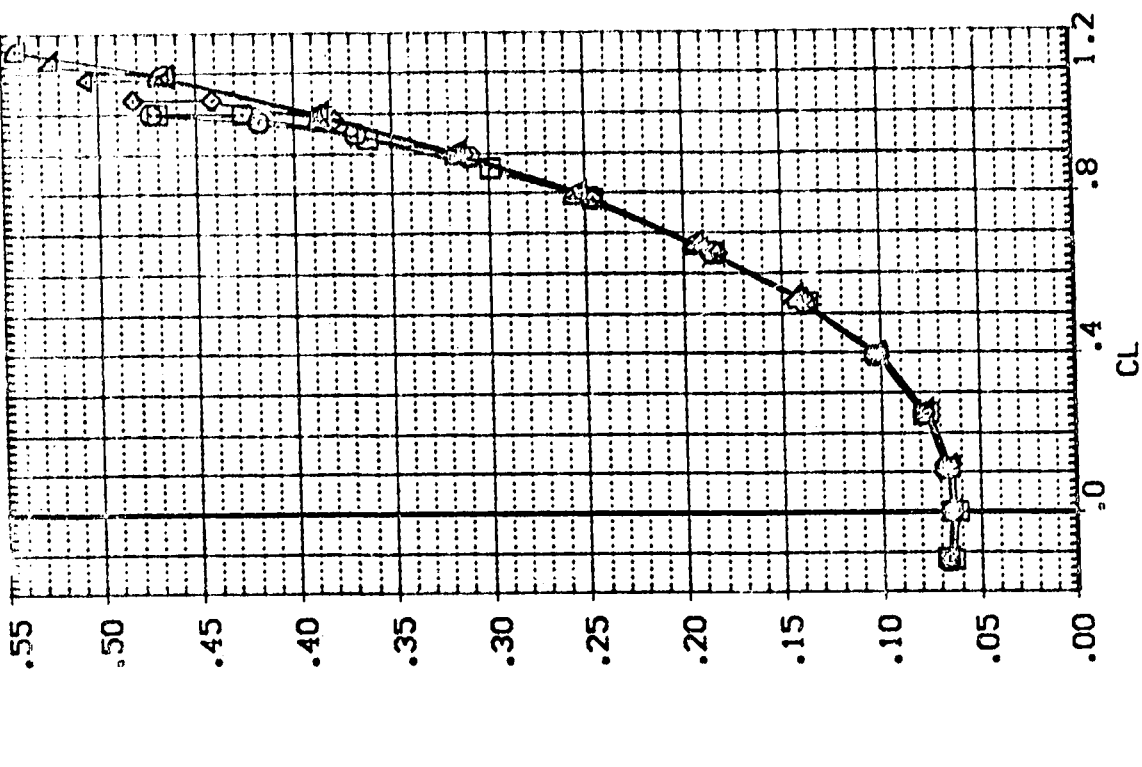
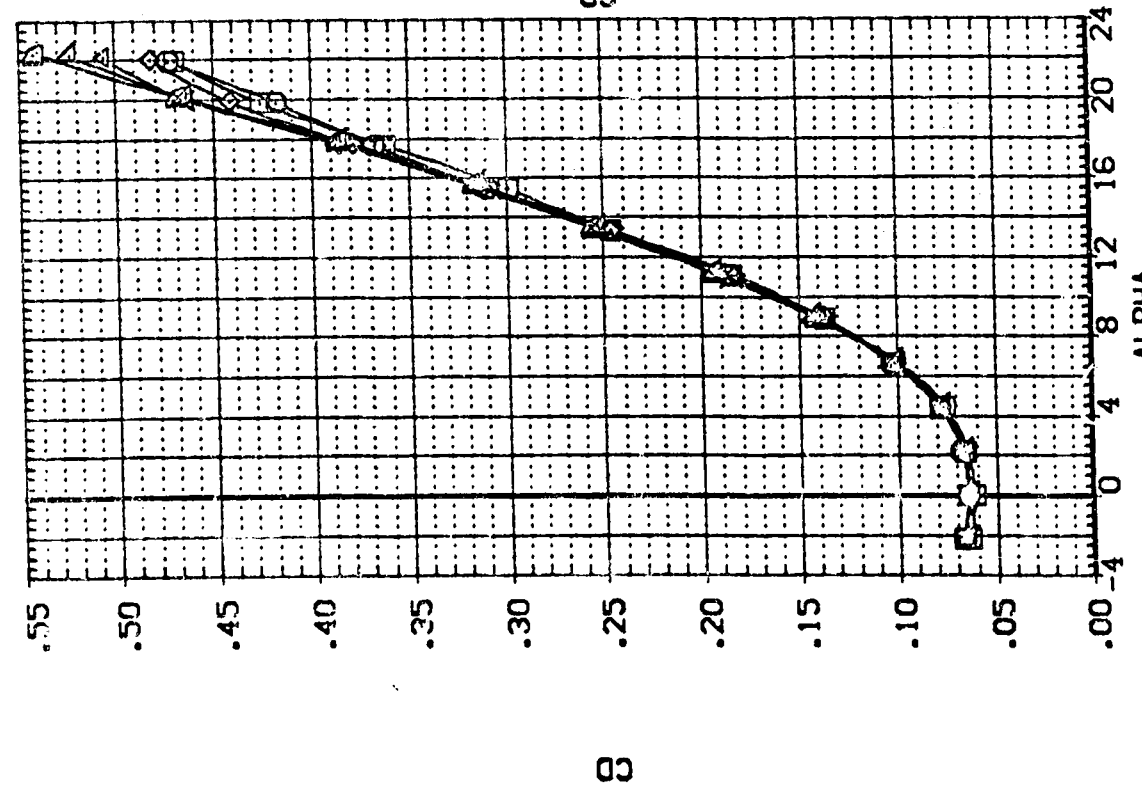
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAR	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7375 50.1N.
(RP5002)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XPRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZPRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(C)MACH = .90

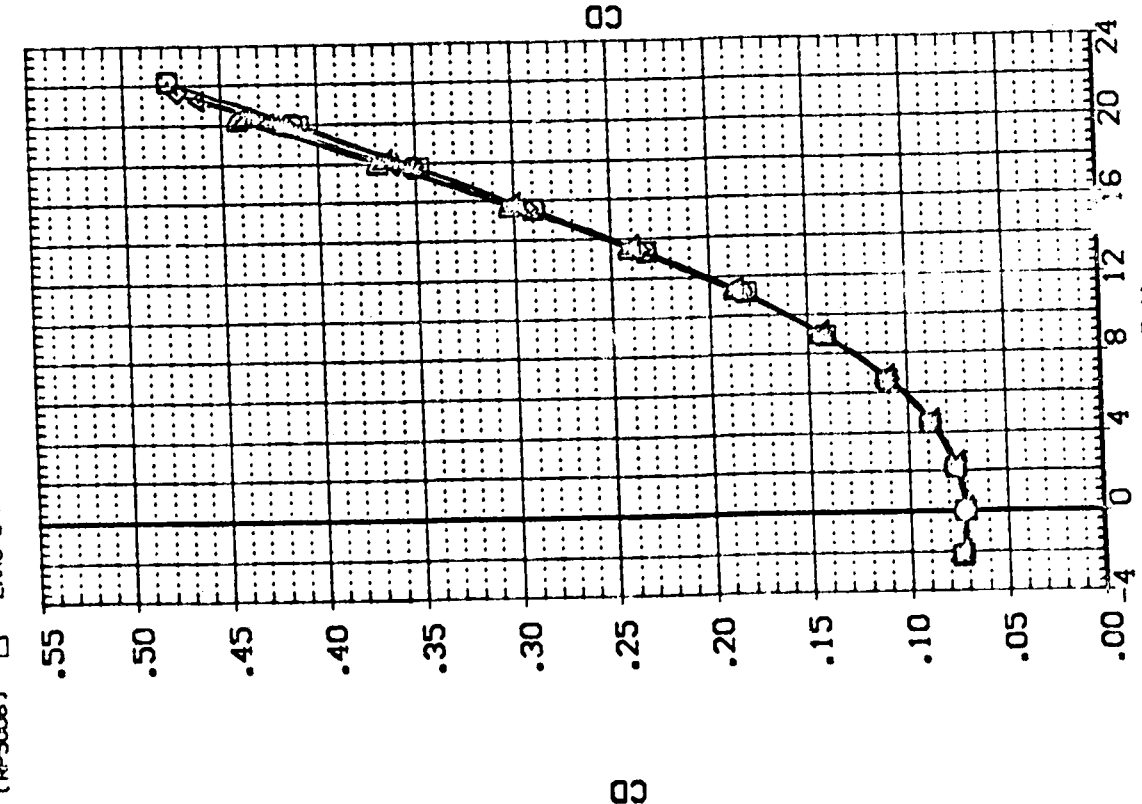
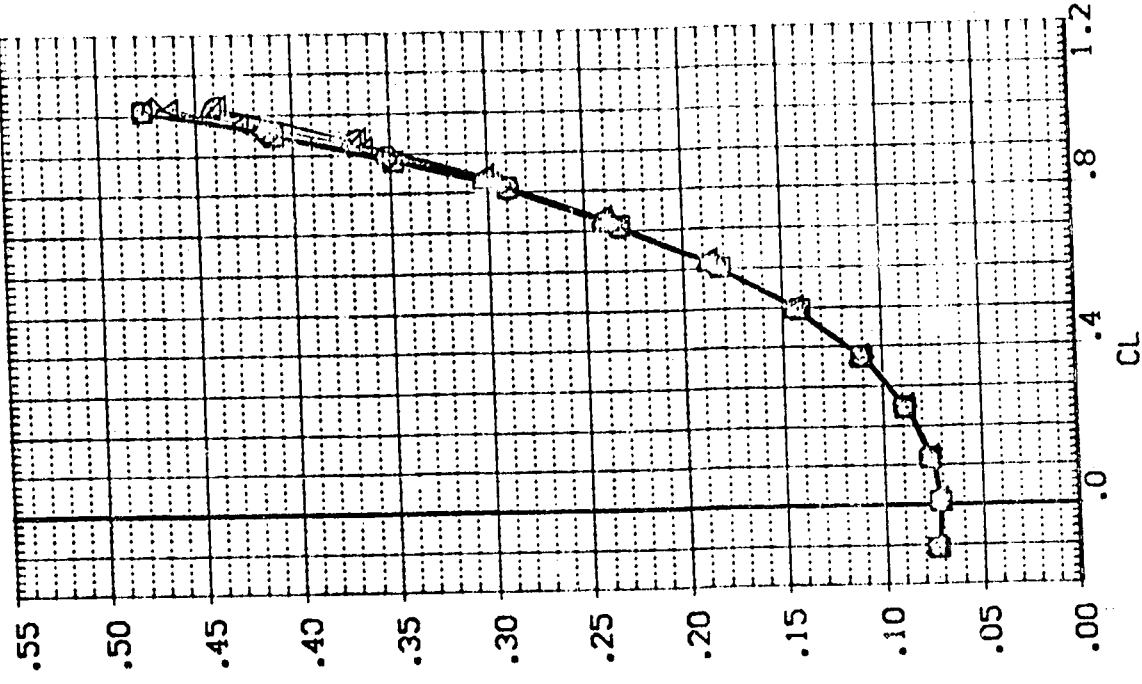
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGND	RUEFLR	SEFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7576 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	59.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	RREF 18.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XGRP .0000 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YGRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZGRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LG-100 WING (B W I V F B)
 (D)MACH = .98



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RJOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	53.200	1.000	.000	.000	SREF 175.7375 SG.IN.
(RP5002)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	60.000	1.000	.000	.000	LREF 25.5110 INCHES
(RP5003)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	70.000	1.000	.000	.000	XMRP 16.6633 INCHES
(RP5005)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 L0-100 CRB TER(SHIPS) (BVI VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188



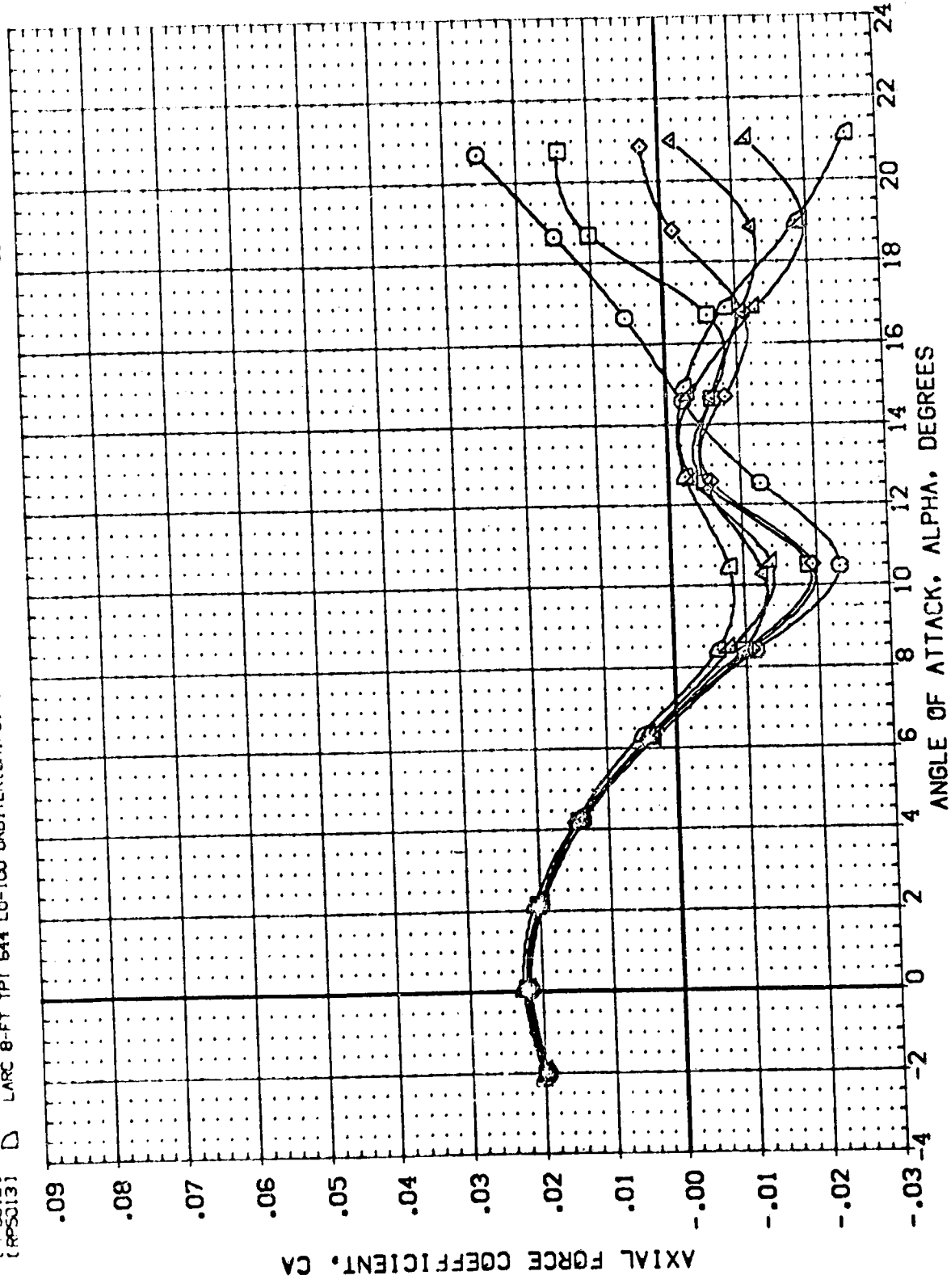
EFFECT OF FILLET ON LO-100 WING (B W I V F B)
 (EJMACH = 1.20)

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 25.5100 INCHES
 SREF 20.2697 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188 SCALE

BOFLAP .000
 RUCFLR .000
 WINGG 2.000
 LAMCAF 46.800
 60.000
 55.000
 70.000
 75.000
 78.000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVZVFB)

DATA SET SYMBOL
 (RP5007) 
 (RP5009) 
 (RP5010) 
 (RP5011) 
 (RP5012) 
 (RP5013) 

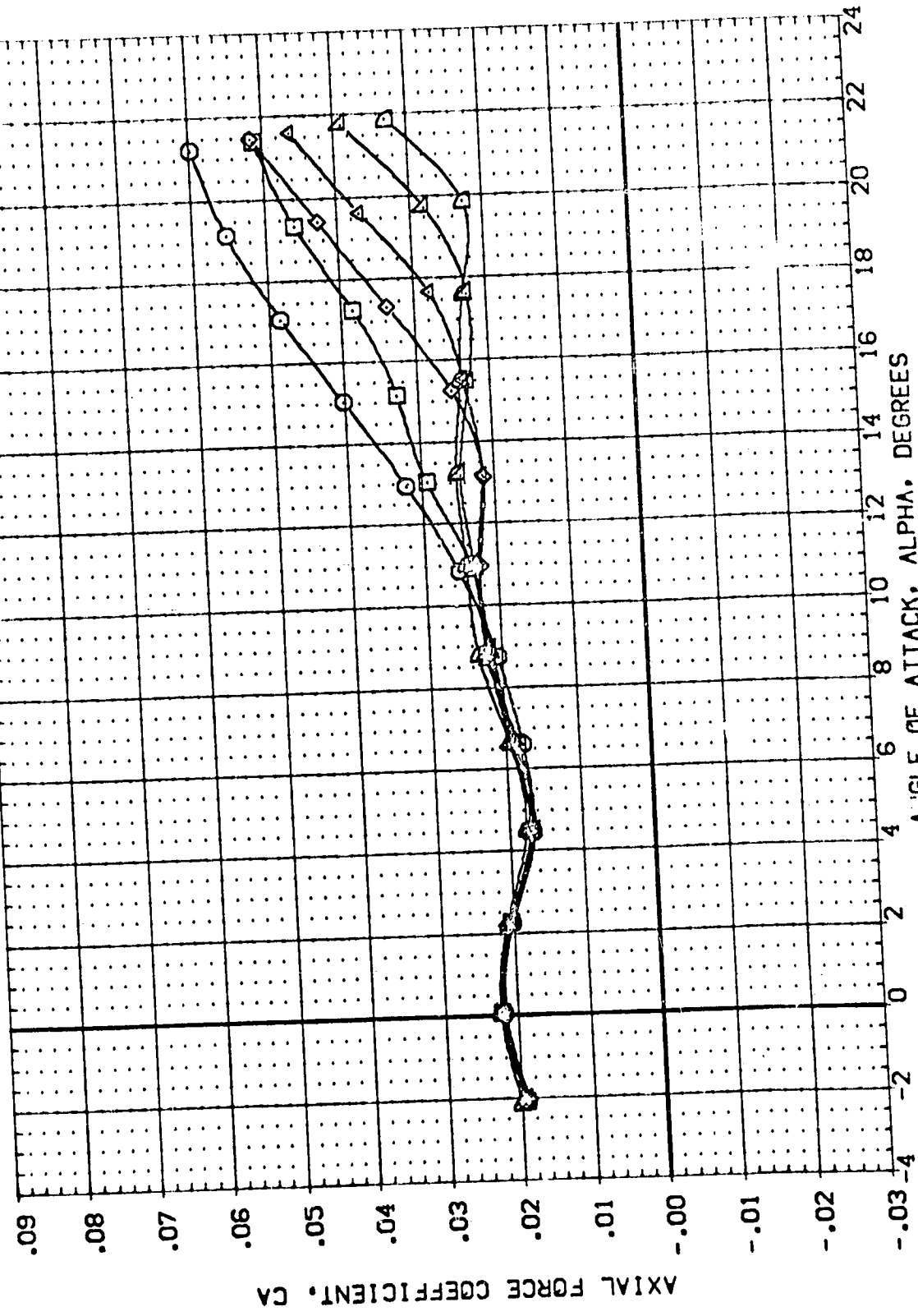


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(A)MACH = .35



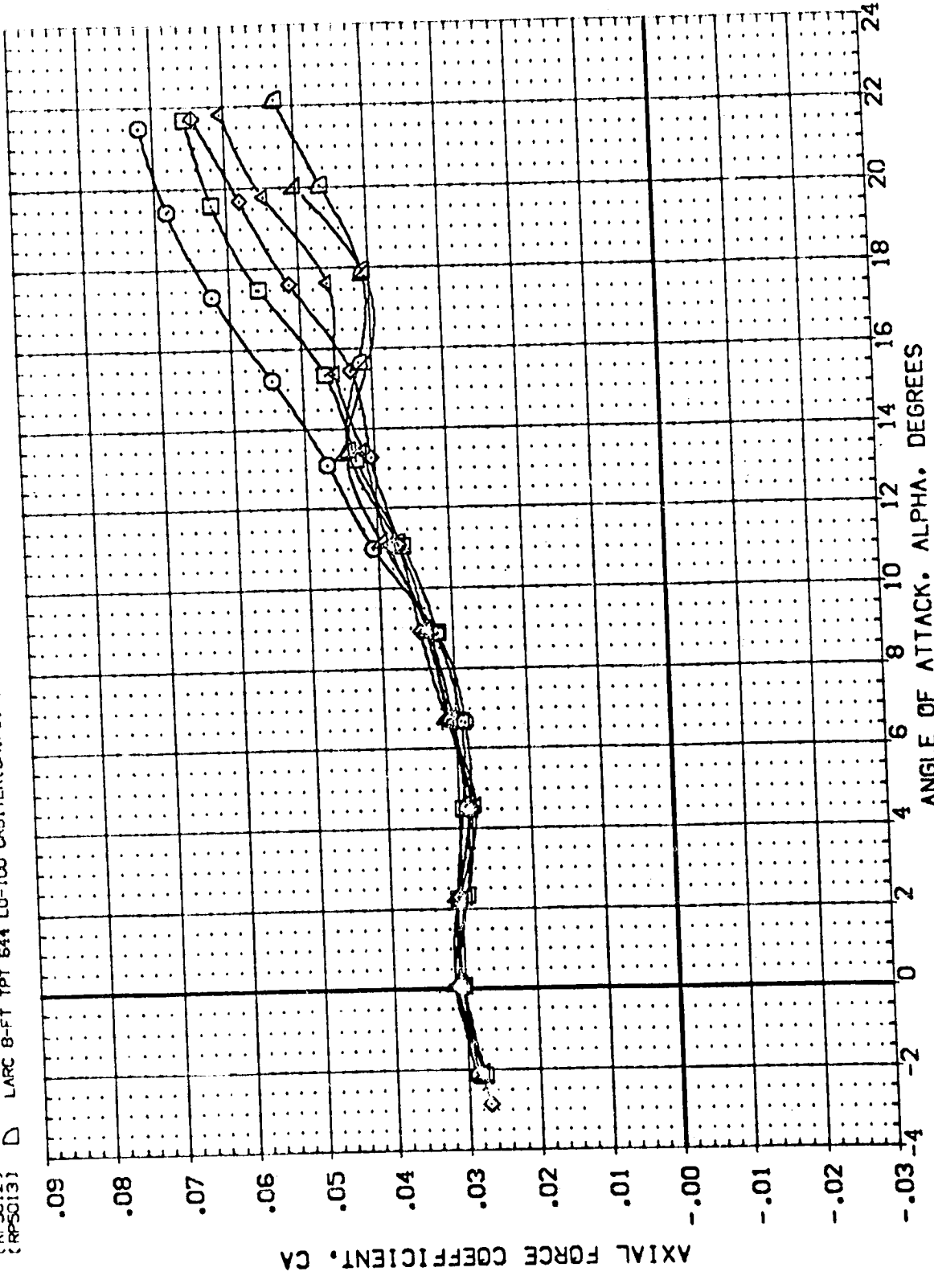
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	45.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RP5009)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	50.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	55.000	2.000	.000	.000	BREF 20.3597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	X-REF 15.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	Y-REF .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	Z-REF .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(B)MACH = .80

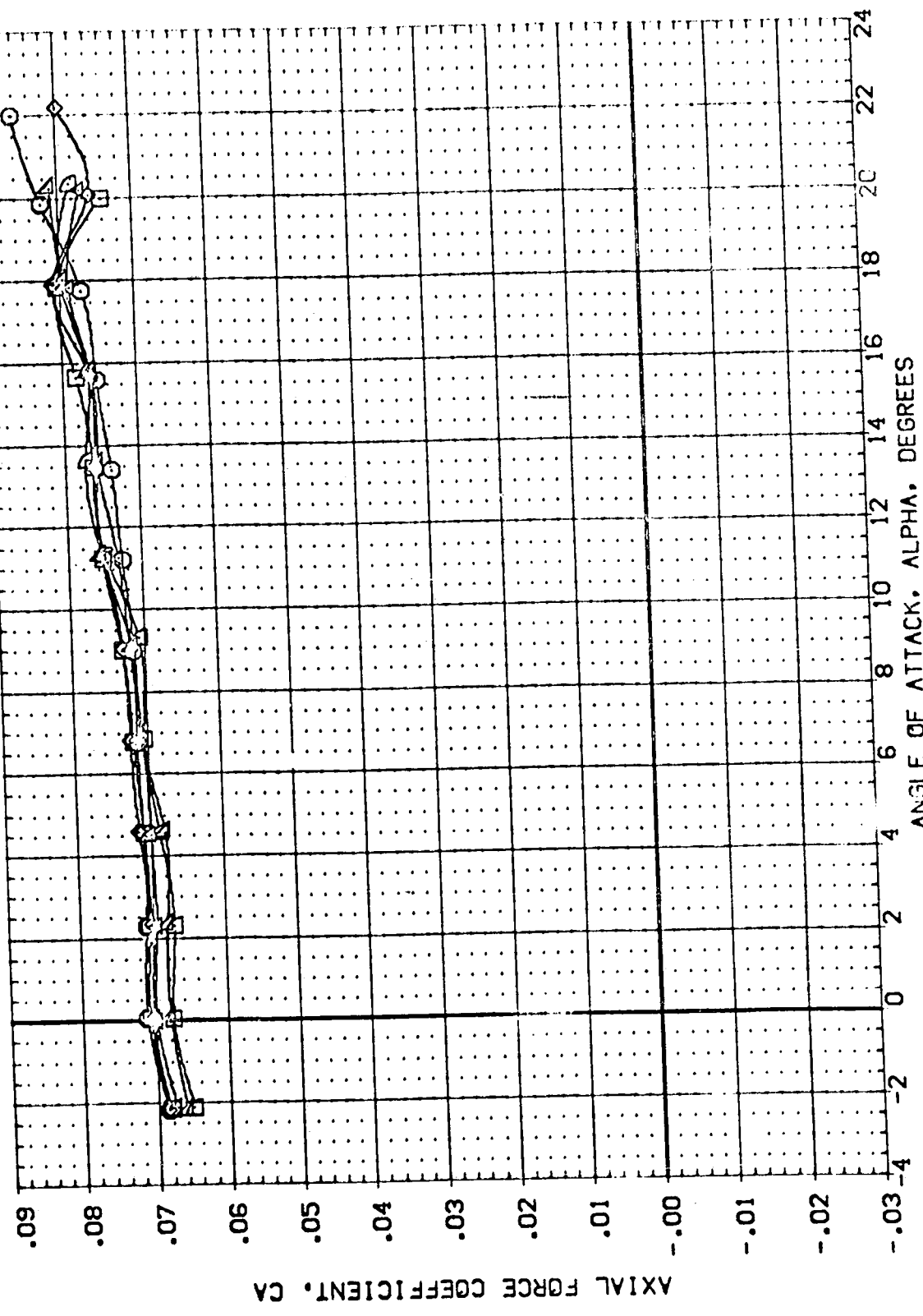
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGMD	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720
(RP5009)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 23.5100
(RP5010)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3557
(RP5011)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMRP 16.8633
(RP5012)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YMRP .0000
(RP5013)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZMRP .0188
						SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
(C)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	VINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RP5009)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3557 INCHES
(RP5011)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMRP 16.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YMRP .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZMRP .0188 INCHES
						SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(0)MACH = .98

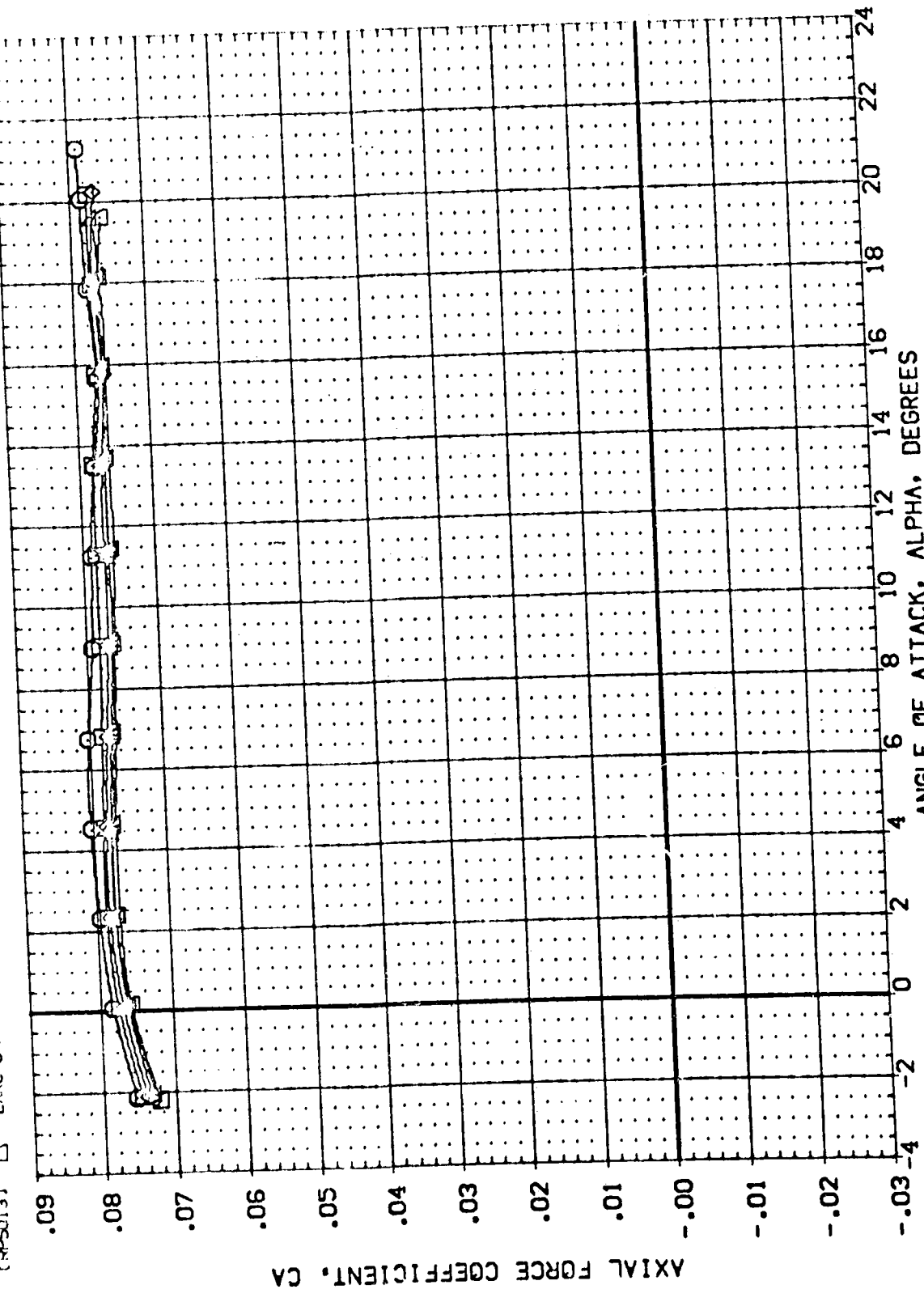
DATA SET SYMBOL:

CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)

REFERENCE INFORMATION:
 SQ. IN. 171.4720
 INCHES 25.5100
 INCHES 20.8633
 INCHES 16.0000
 INCHES .0000
 INCHES .0000
 INCHES .0188

BOFLAP .000
 RUFLR .000
 VINGN 2.000
 LAYDAF 45.800
 (BV2VFB) 60.000
 (BV2VFB) 65.000
 (BV2VFB) 70.000
 (BV2VFB) 75.000
 (BV2VFB) 78.000

SREF 171.4720
 LREF 25.5100
 BREF 20.8633
 XMRP 16.0000
 YMRP .0000
 ZMRP .0000
 SCALE .0188

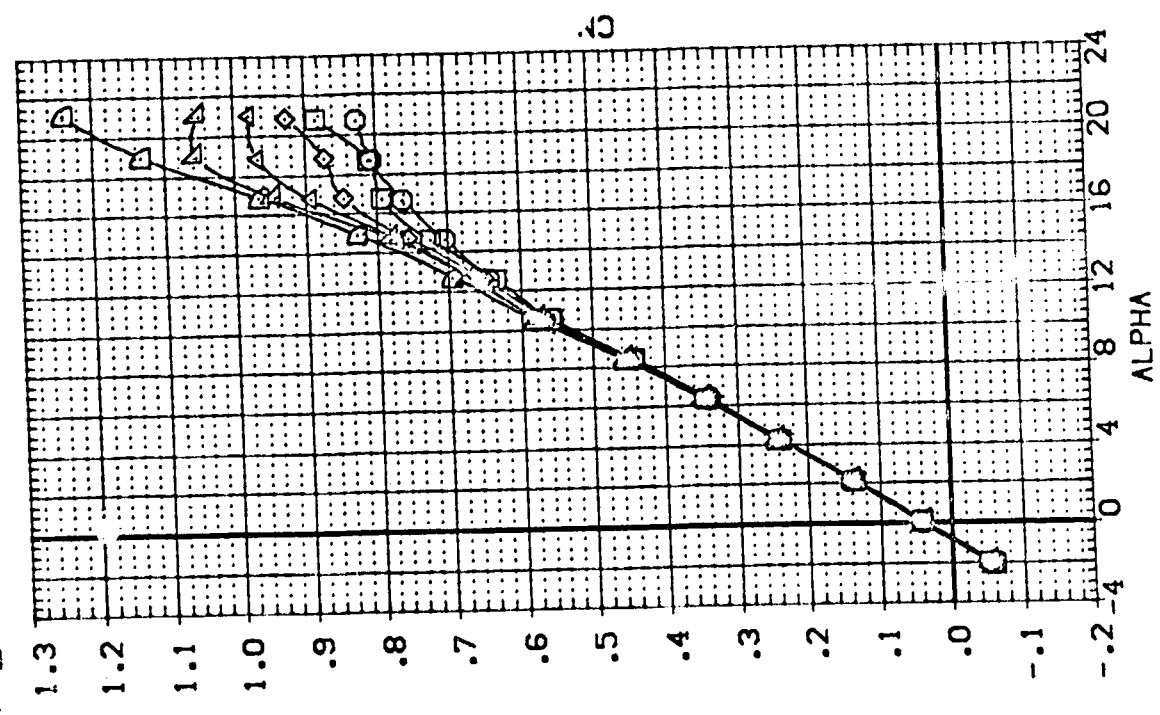
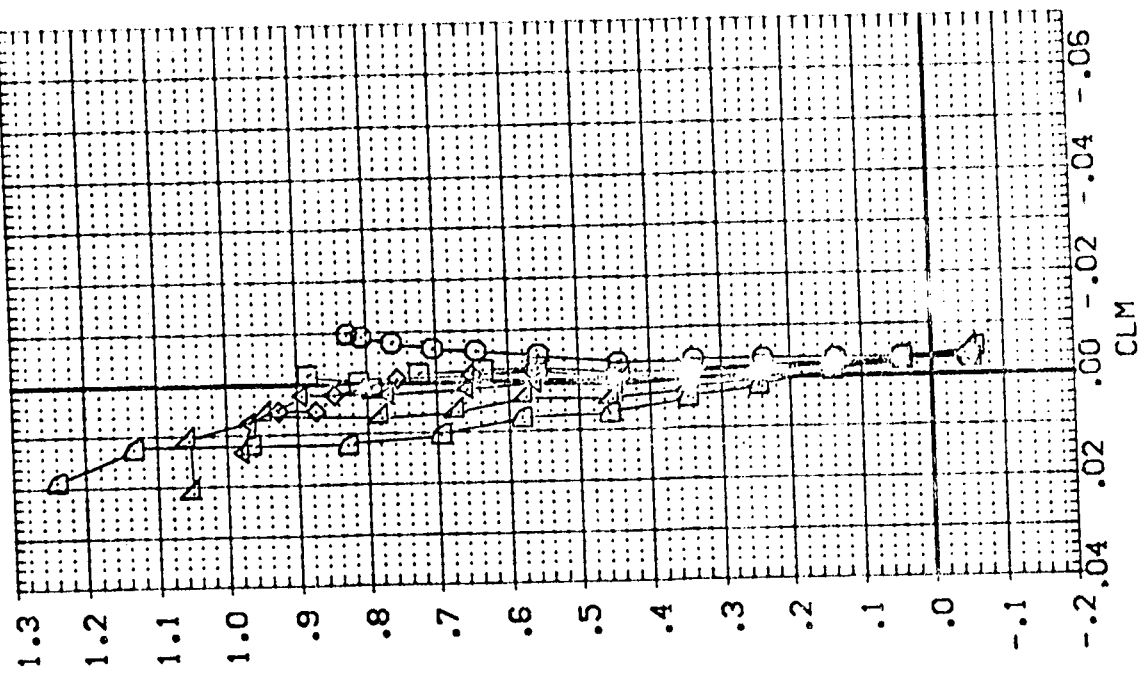


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(E)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANOAF	WINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION	SO, IN
[RP5007]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	46.800	2.000	.000	.000	SREF	171.4720
[RP5009]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	60.000	2.000	.000	.000	LREF	29.5100
[RP5010]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	65.000	2.000	.000	.000	BREF	20.3597
[RP5011]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	70.000	2.000	.000	.000	XMRP	15.8633
[RP5012]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	75.000	2.000	.000	.000	ZMRP	.0000
[RP5013]	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BVZVFB)	78.000	2.000	.000	.000	SCALE	.0188



3

EFFECT OF FILLET ON W-33 WING (B W2 V FB)

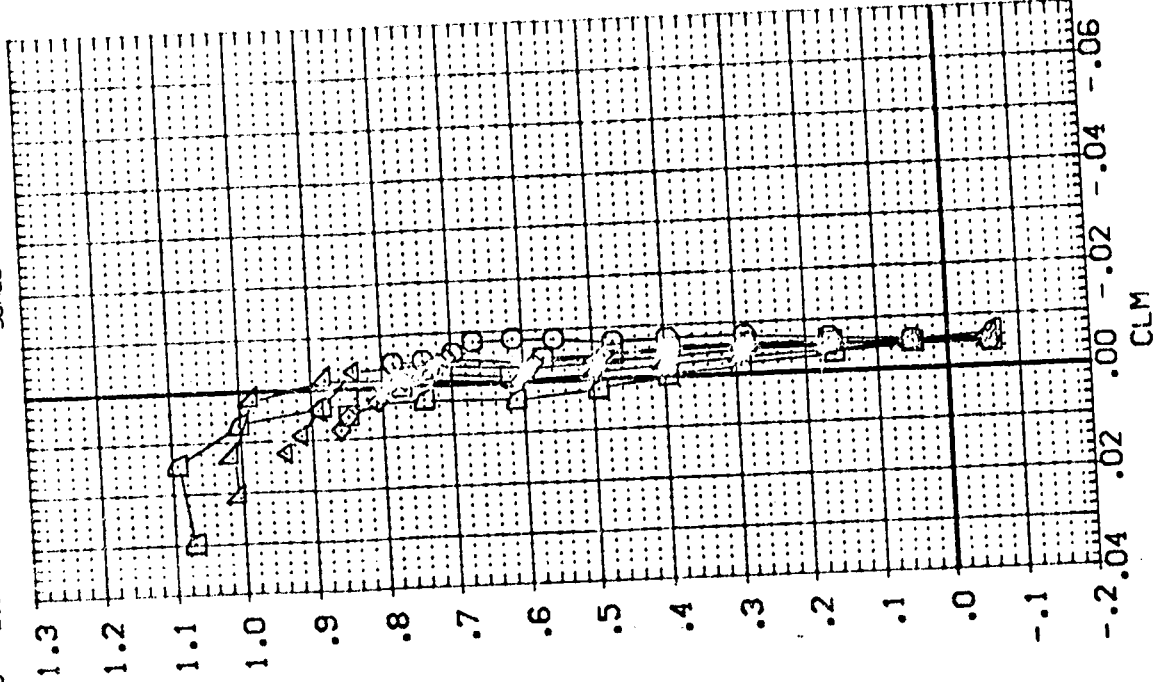
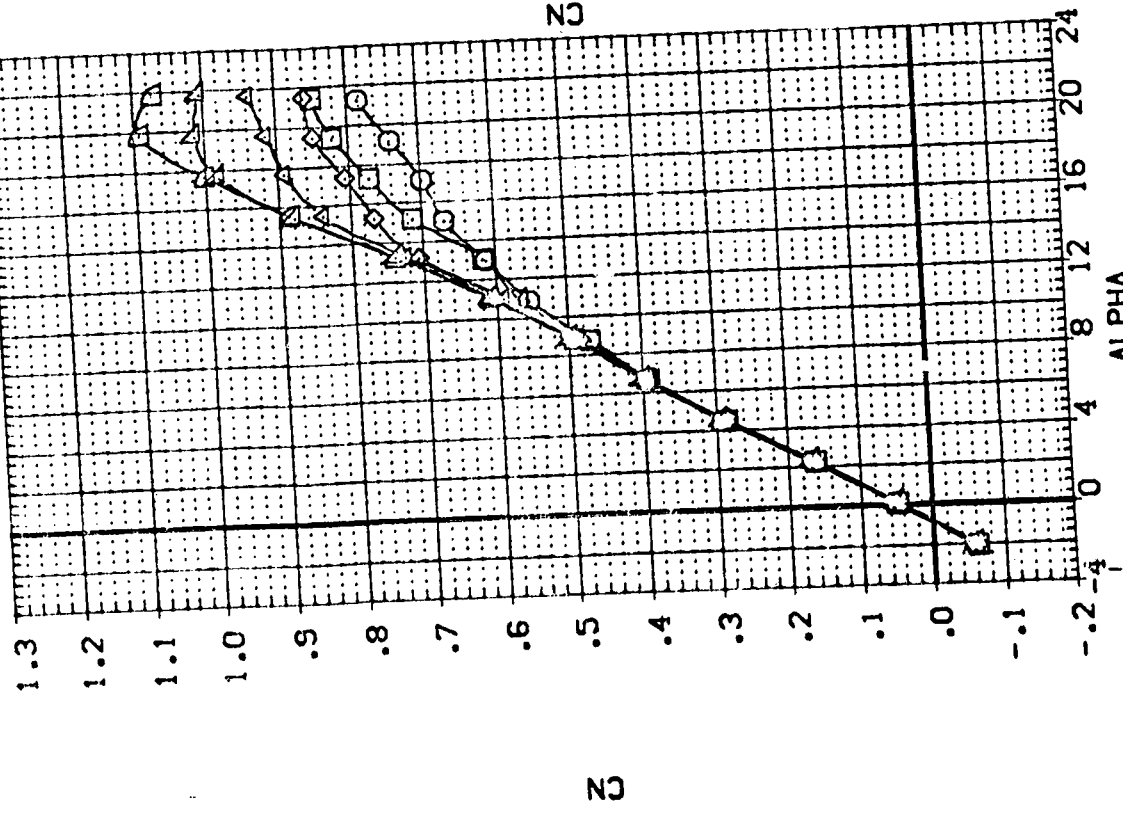
CA/MACH = .35

DATA SET SYMBOL
 (RP5007) □
 (RP5009) ○
 (RP5010) △
 (RP5011) ◇
 (RP5012) □
 (RP5013) △

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)

LAYDAP 46.800
 VINGND 2.000
 RUOFLR .000
 BOFLAP .000
 SREF 171.4720
 LREF 29.5100
 BRFF 20.3557
 XMRP 7.68633
 YMRP .0000
 ZMRP .0000
 SCALE .0189

SCALE
 X-AXIS
 Y-AXIS
 Z-AXIS
 W-AXIS



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (B)MACH = .80



DATA SET SYMBOL

(RP5007)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
(RP5008)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
(RP5010)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
(RP5011)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
(RP5012)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
(RP5013)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)

CONFIGURATION DESCRIPTION

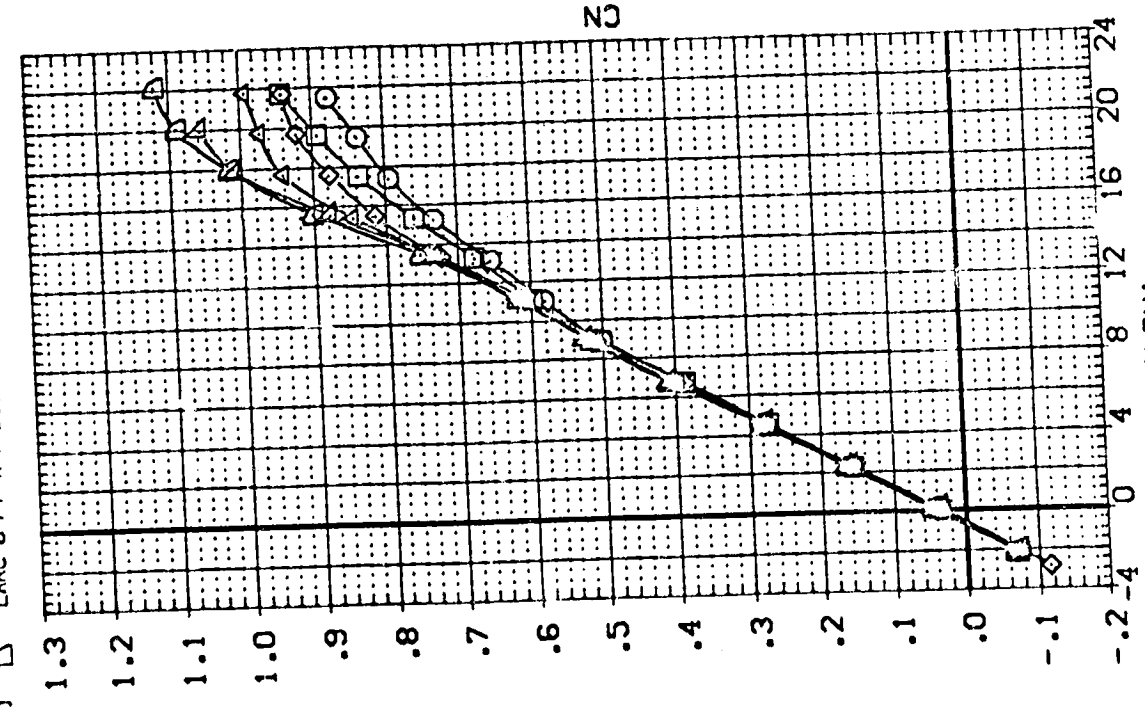
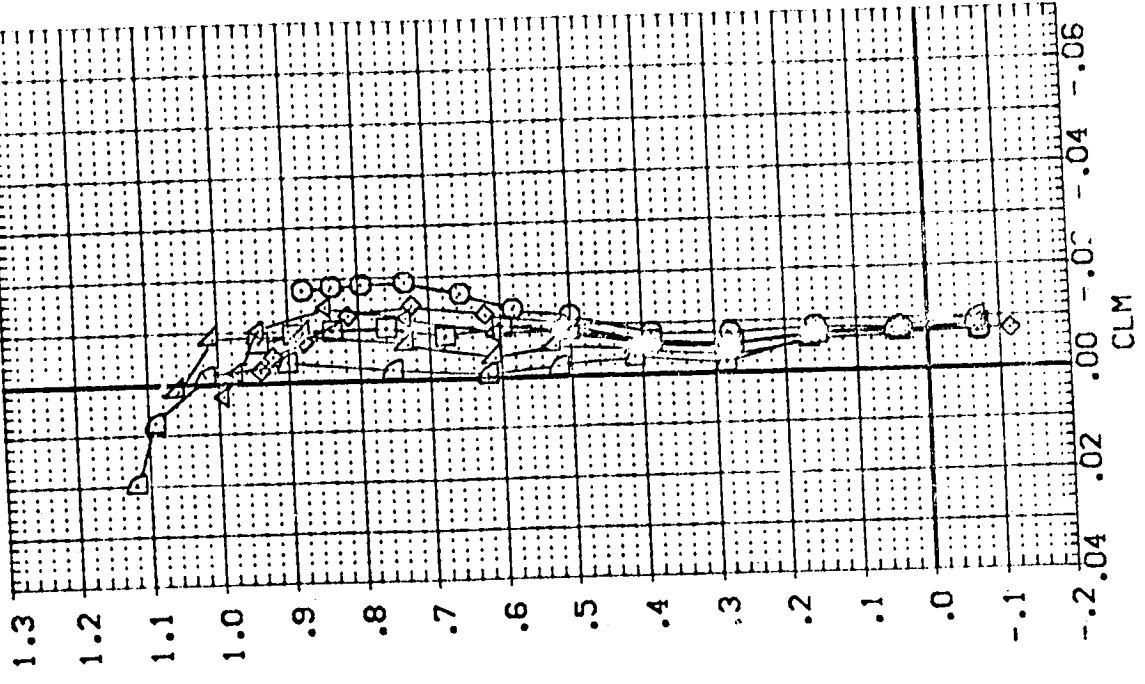
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)
LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BV2VFB)

REFERENCE INFORMATION

SREF	171.4720	SO, IN.
LREF	25.5100	INCHES
BREF	20.3597	INCHES
XPRP	16.8633	INCHES
YPRP	.0000	INCHES
ZPRP	.0000	INCHES
SCALE	.0188	SCALE

BOFLAP

BOFLAP	.000
RUDFLR	.000
VINGAO	2.000
LANDAF	45.800
LANDAF	60.000
LANDAF	65.000
LANDAF	70.000
LANDAF	75.000
LANDAF	78.000



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(C)MACH = .90

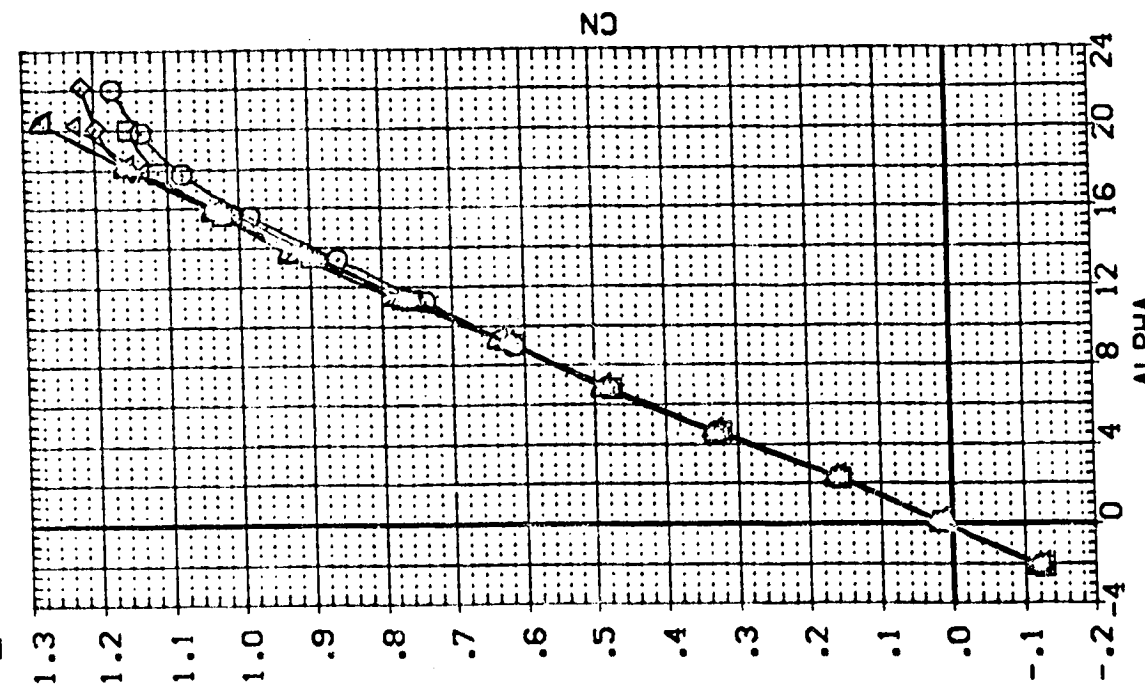
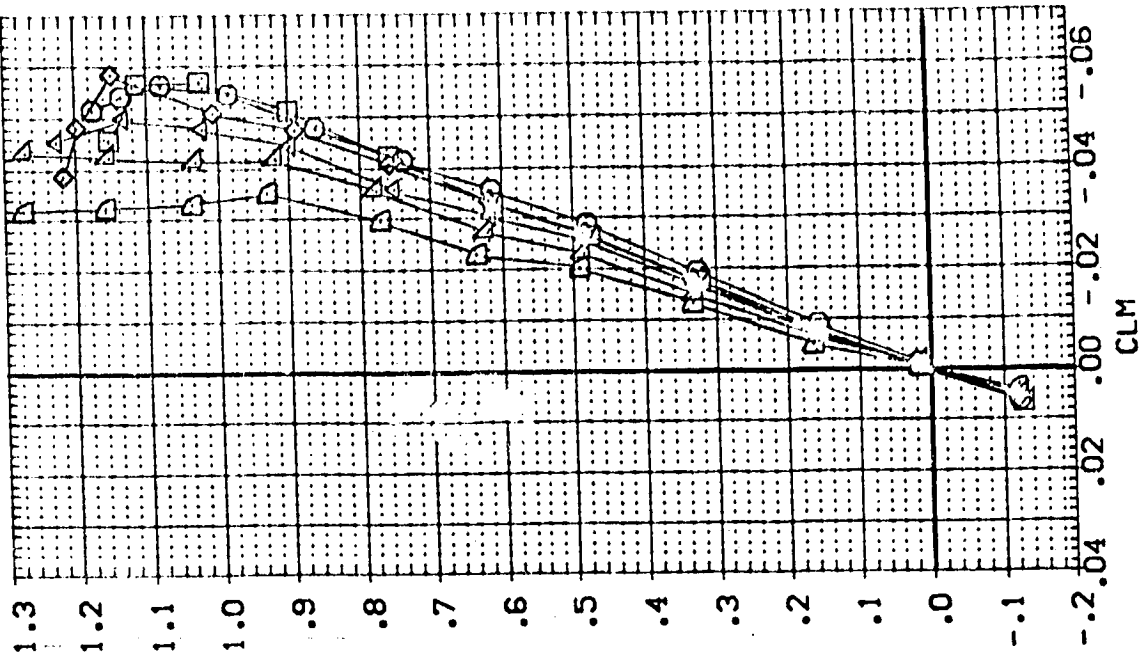
DATA SET SYMBOL: (RP5007) (RP5009) (RP5010) (RP5011) (RP5012) (RP5013)

CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)

REFERENCE INFORMATION:
 SREF 171.4720 SQ.IN.
 LREF 26.5100 INCHES
 XREF 20.3597 INCHES
 YREF 15.8933 INCHES
 ZREF 0.0000 INCHES
 SCALE 0.169 SCALE

WINGING: WINGNG 2.000
 RUOFLR 0.000
 BOFLAP 0.000

LAMDAF: LAMDAF 46.800
 60.000
 65.000
 70.000
 75.000
 78.000

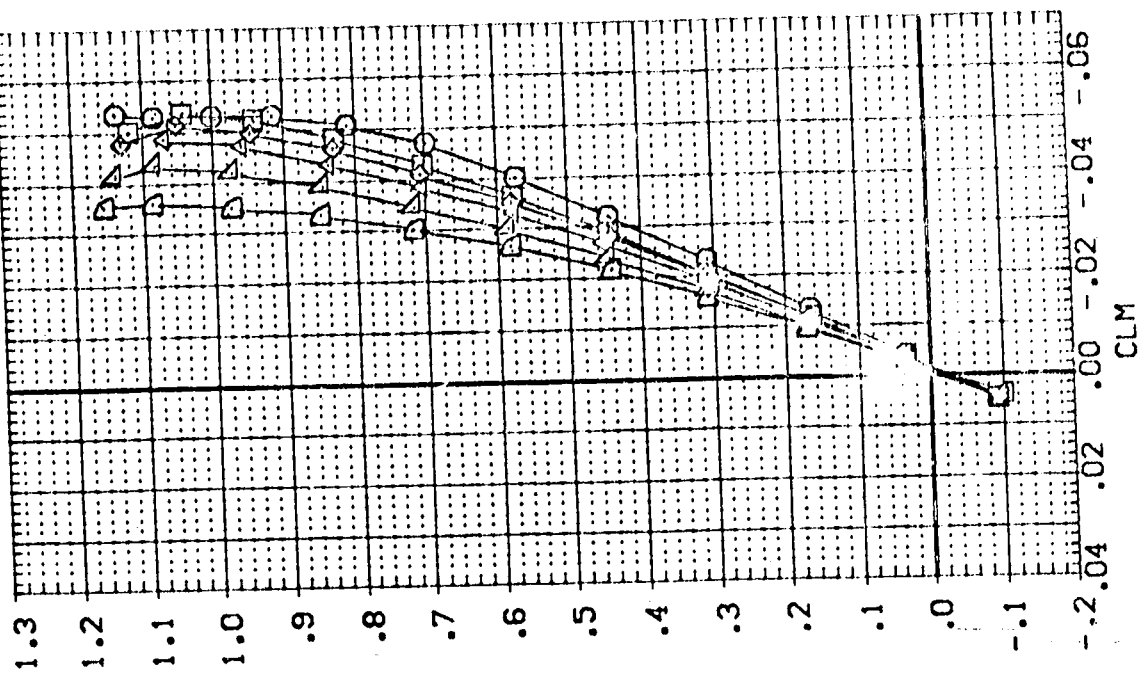
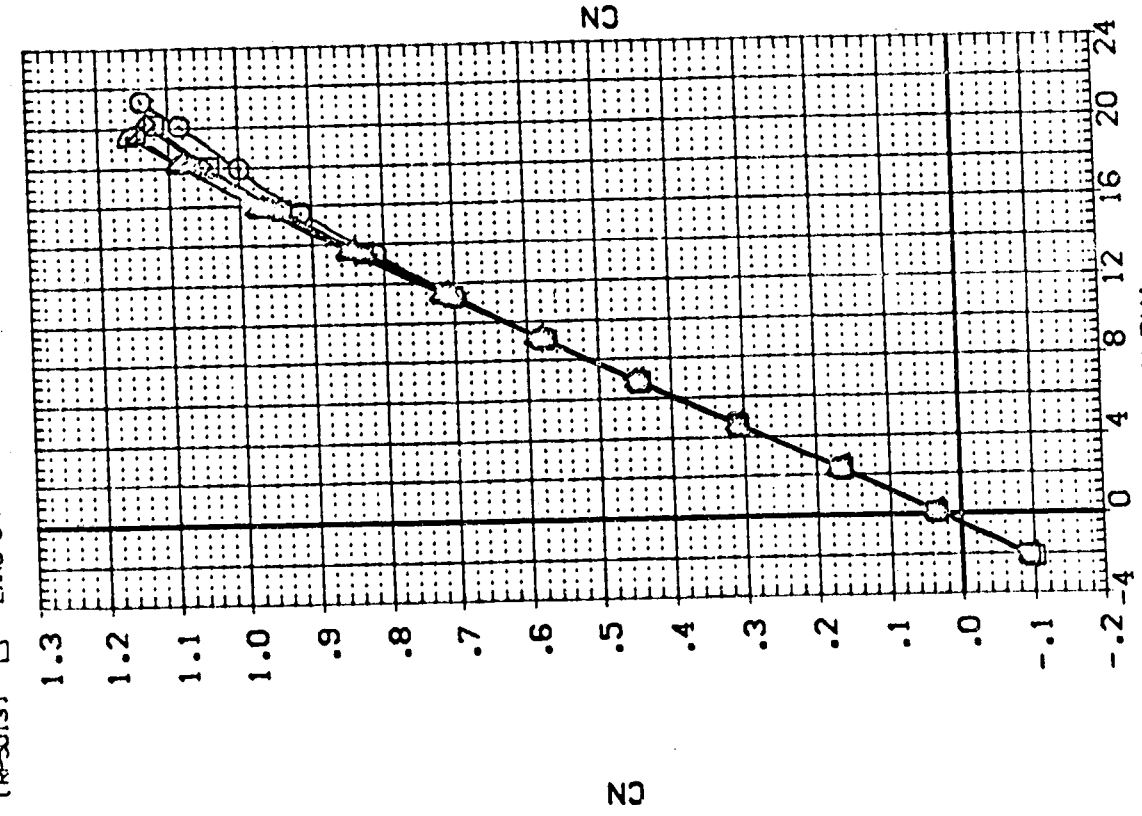


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(D)MACH = .98

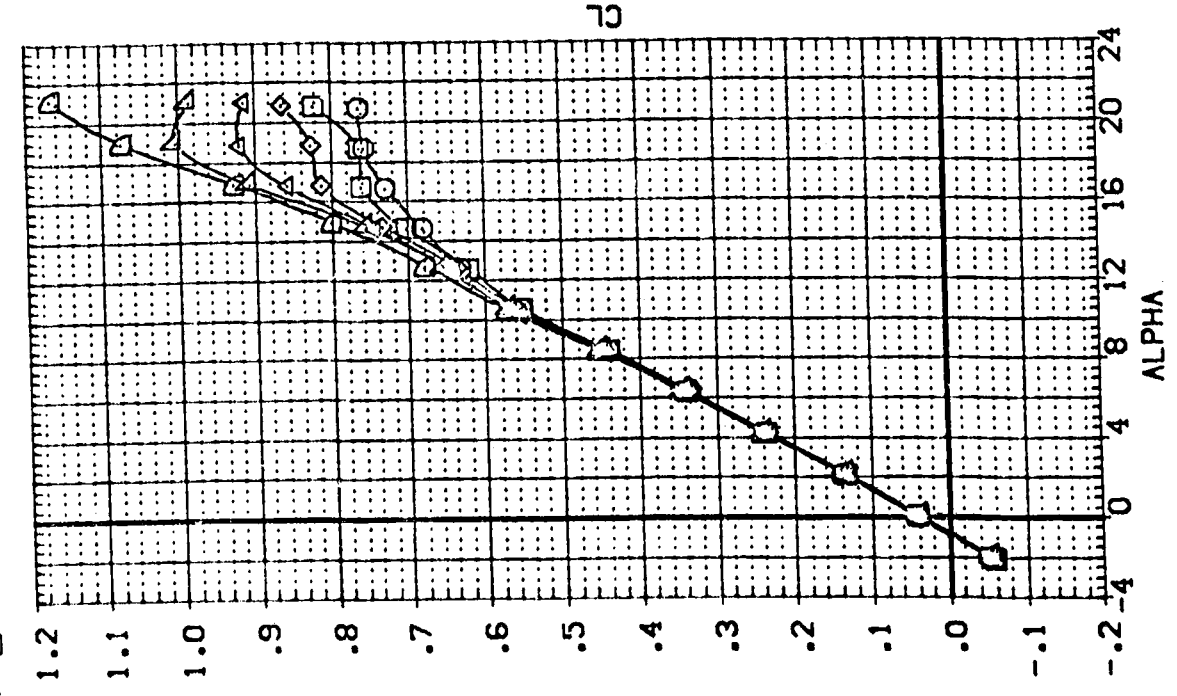
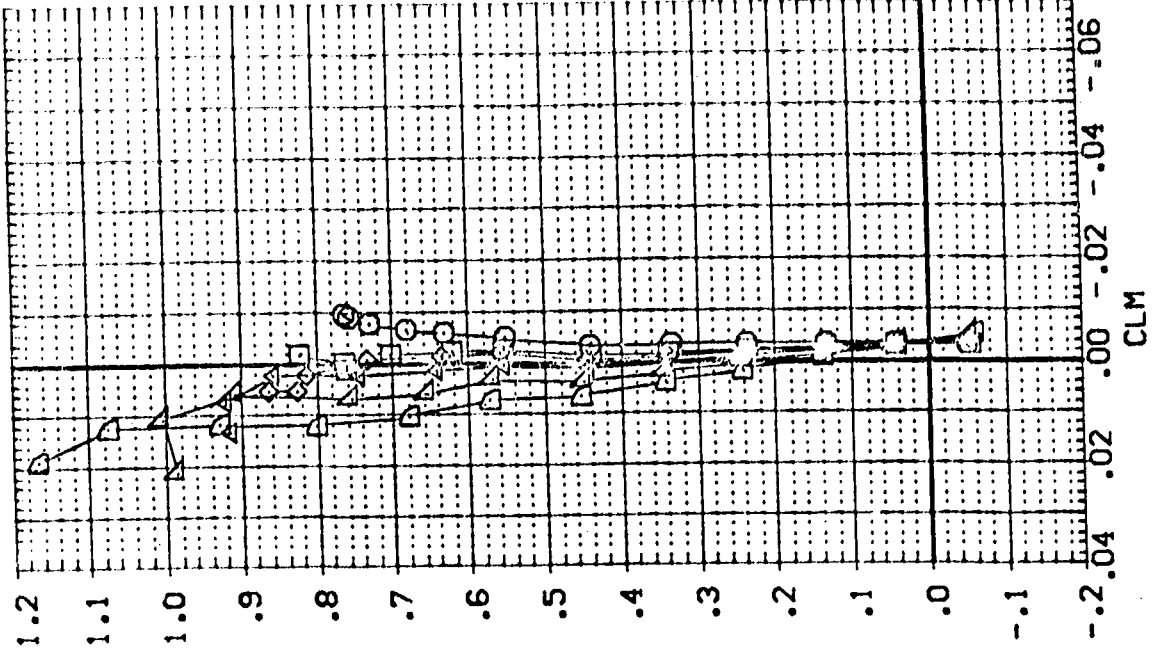


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION	SCALE
(RPS007)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	46.800	2.000	.000	.000	SREF 171.4720	SC.IN.
(RPS009)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	60.000	2.000	.000	.000	LREF 25.5100	INCHES
(RPS010)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	65.000	2.000	.000	.000	BREF 22.3597	INCHES
(RPS011)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	70.000	2.000	.000	.000	XPRP 16	INCHES
(RPS012)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	75.000	2.000	.000	.000	YPRP .0000	INCHES
(RPS013)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BVZVFB)	78.000	2.000	.000	.000	ZPRP .0188	INCHES



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (E)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	WINGND	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RPS009)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	LREF 25.5100 ACES
(RPS010)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	BREF 20.3597 ACES
(RPS011)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	XREF .5 ACES
(RPS012)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	YREF .0000 ACES
(RPS013)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	2.000	.000	.000	ZREF .0000 ACES
					SCALE .0158 SCALE

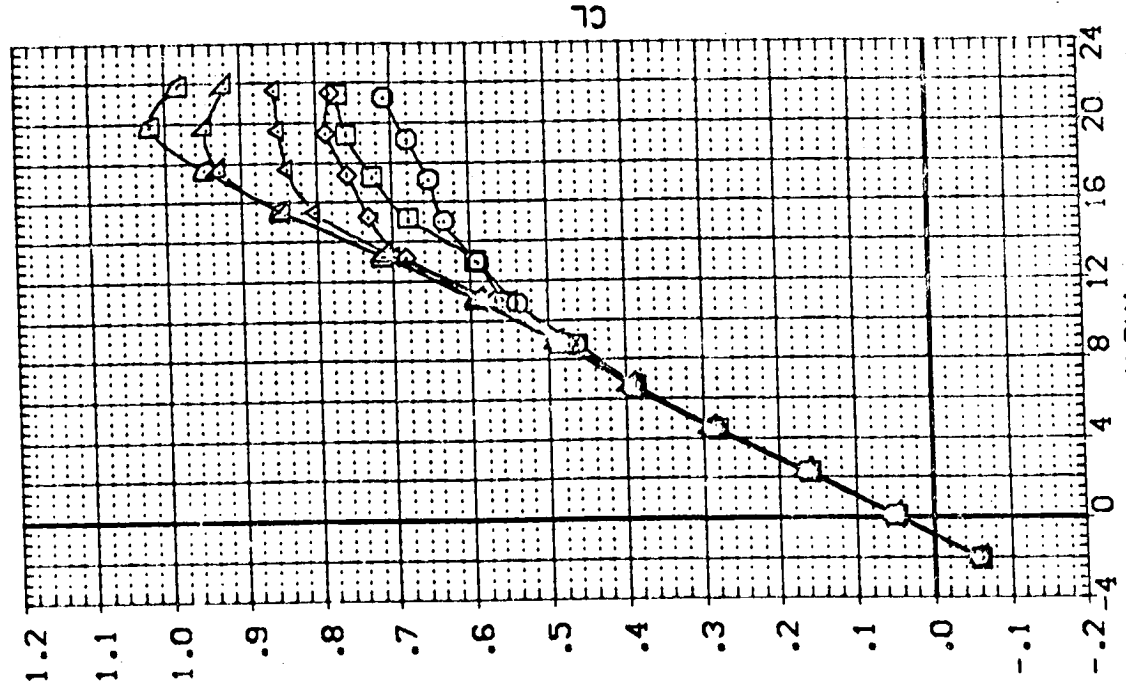
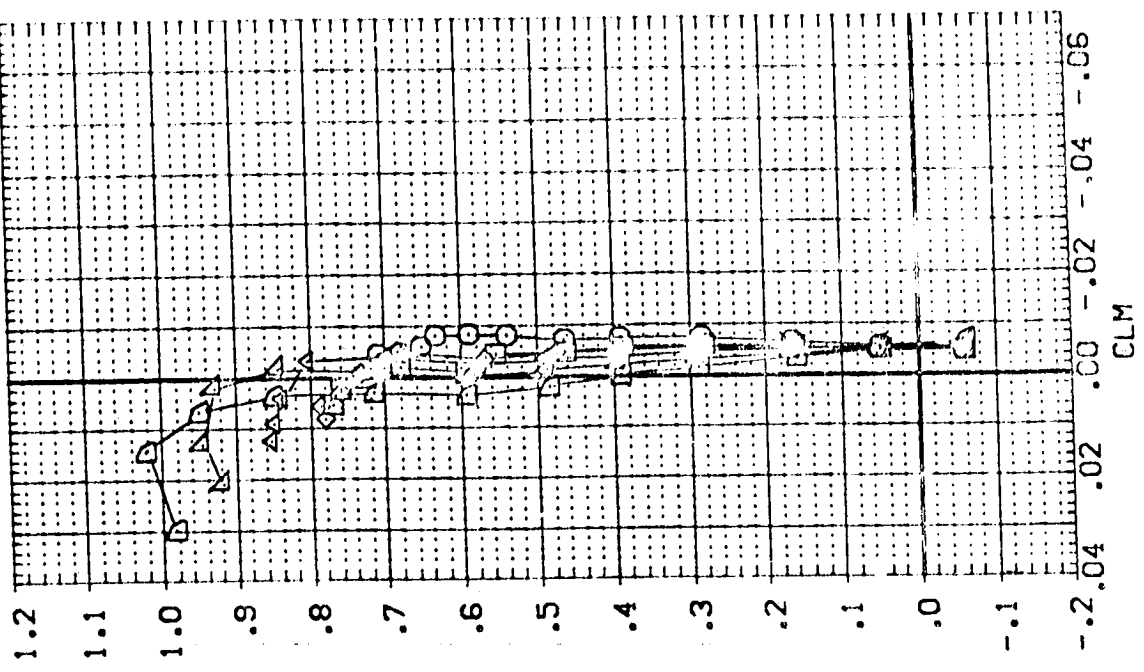


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(A)MACH = .35



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RUFLR	WING	LAMDAF	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	46.800	SREF 171.4720
(RP5009)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	60.000	LREF 25.5100
(RP5010)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	69.000	BREF 23.5557
(RP5011)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	70.000	XPRP 16.8533
(RP5012)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	75.000	YPRP .0000
(RP5013)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	.000	.000	2.000	78.000	ZPRP .0000
						SCALE .0188



EFFECT OF FILLET ON W-33 WING (B #2 V FB)

(B)MACH = .80

DATA SET NAME: (R-5007) (R-5009) (R-5010) (R-5011) (R-5012) (R-5013)

COMBINATION: LARC 8-FT TPT 644 (R-5007) LARC 8-FT TPT 644 (R-5009) LARC 8-FT TPT 644 (R-5010) LARC 8-FT TPT 644 (R-5011) LARC 8-FT TPT 644 (R-5012) LARC 8-FT TPT 644 (R-5013)

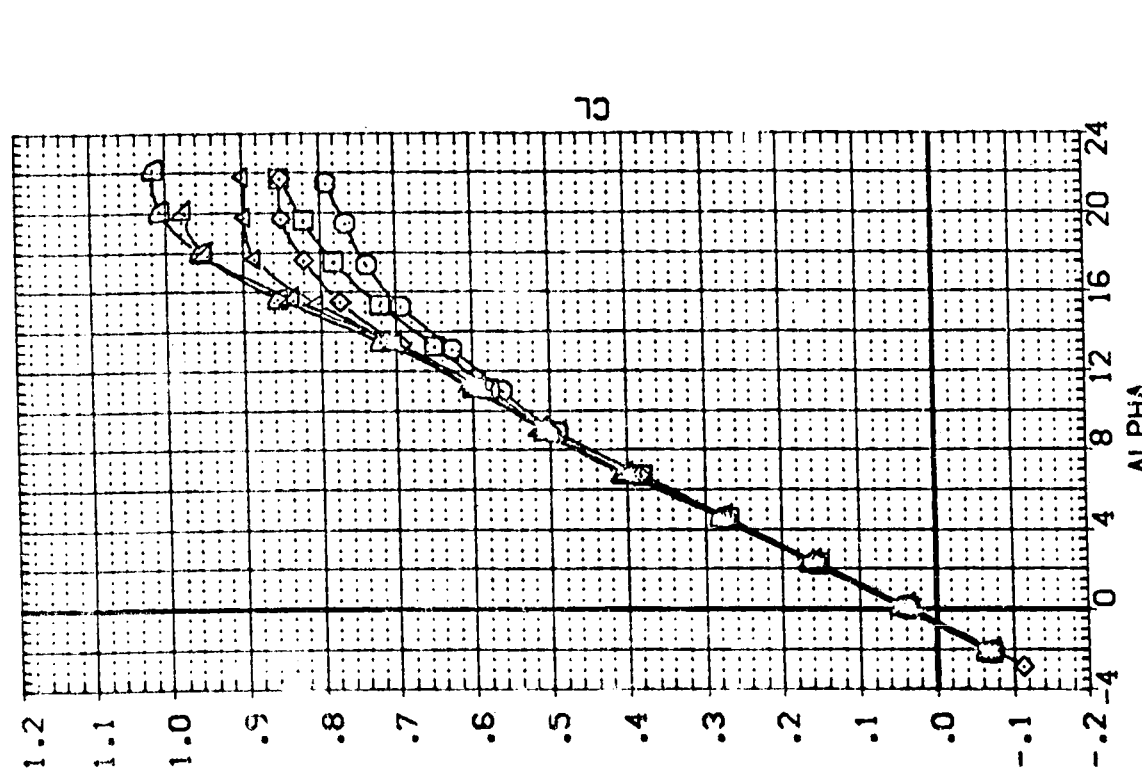
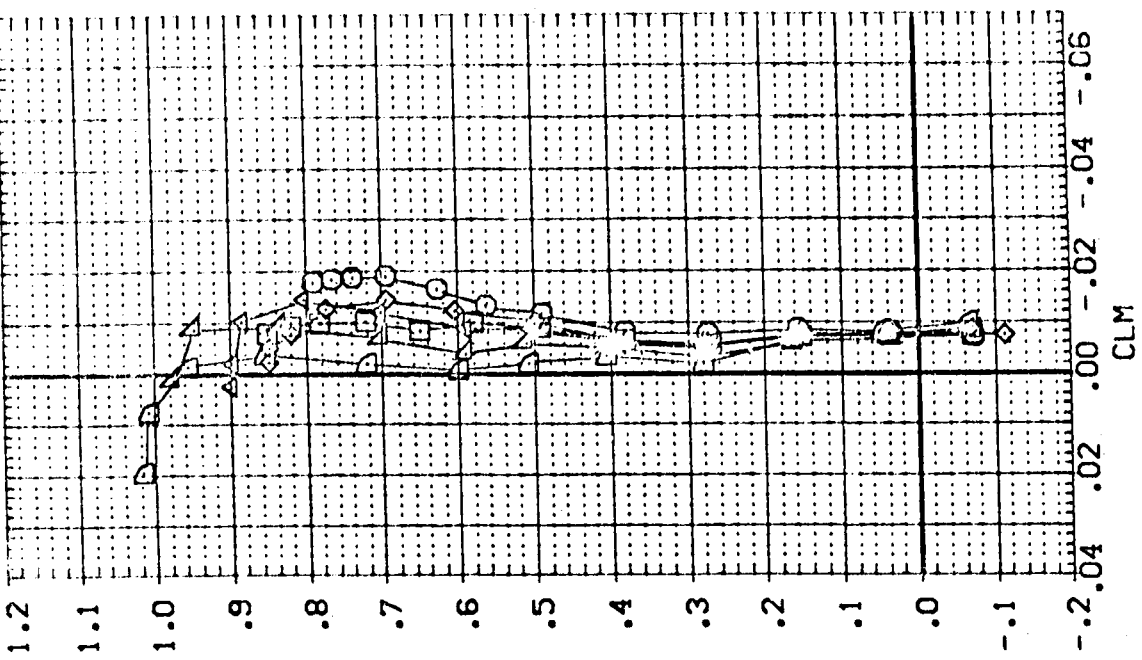
DESCRIPTION: LG-100 OR8 TER(SHIPS) (B-V2VFB) LG-100 OR8 TER(SHIPS) (B-V2VFB) LG-100 OR8 TER(SHIPS) (B-V2VFB) LG-100 OR8 TER(SHIPS) (B-V2VFB) LG-100 OR8 TER(SHIPS) (B-V2VFB) LG-100 OR8 TER(SHIPS) (B-V2VFB)

WING: 2.000 2.000 2.000 2.000 2.000 2.000

3D LAR: .000 .000 .000 .000 .000 .000

REF: 171.4700 176.5100 180.3300 185.0000 189.6700 194.3400

SCALE: .0158 .0158 .0158 .0158 .0158 .0158

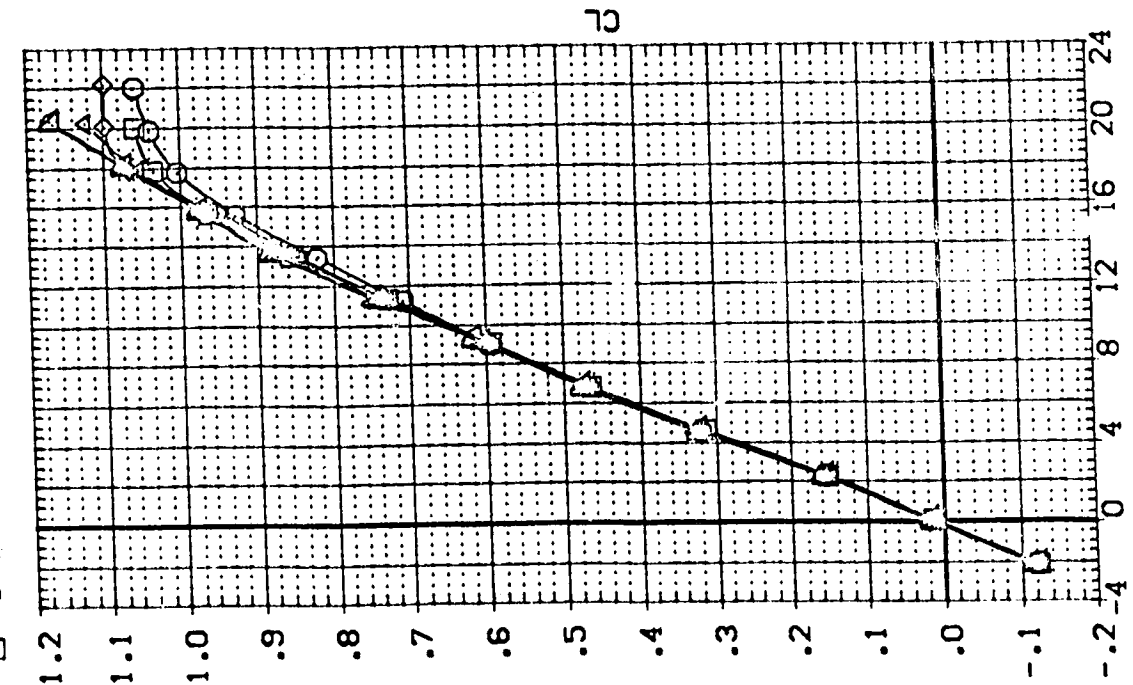
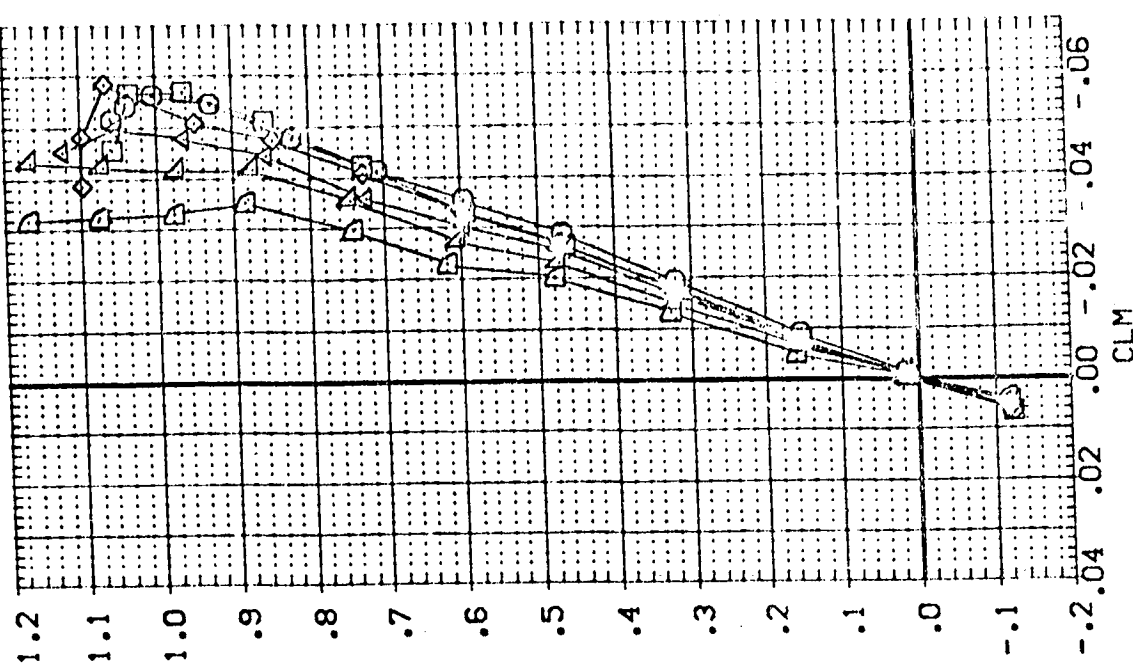


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(CJMACH = .90



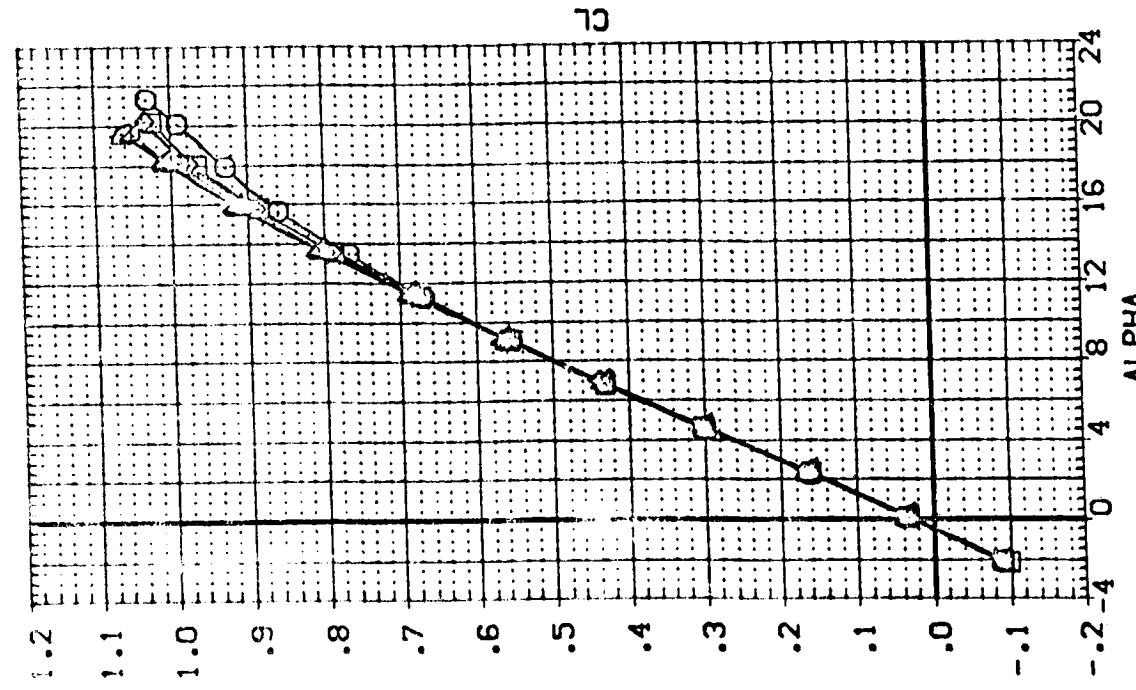
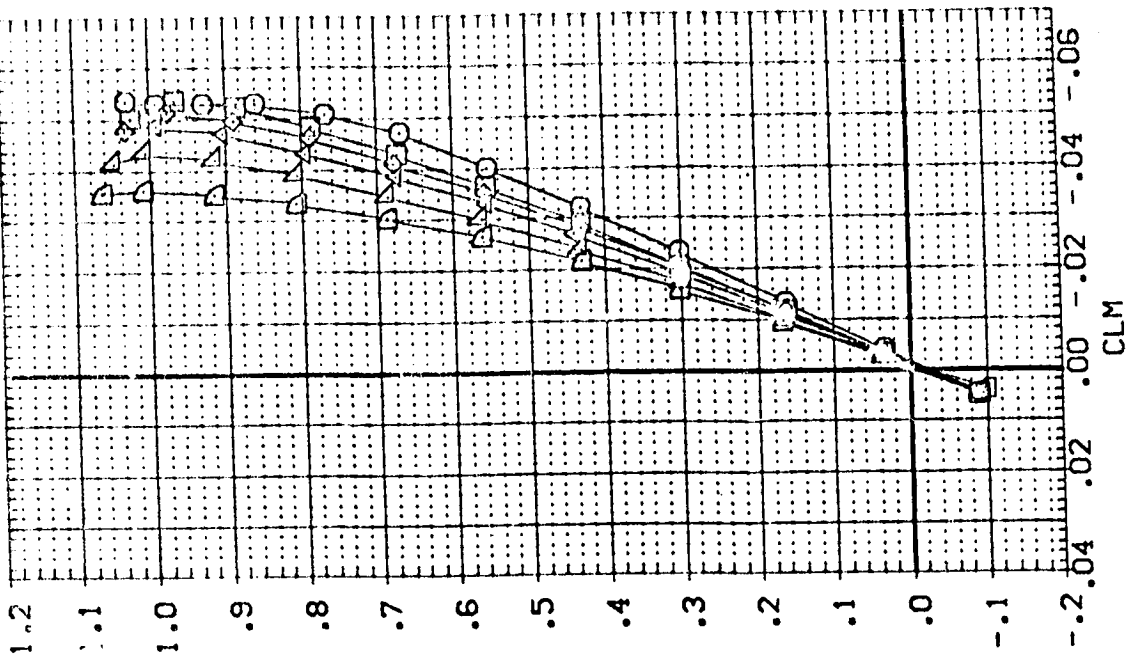
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAR	VINGNO	RUDFLR	BDFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RP5009)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMRP 3533 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	ZMRP .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	SCALE .0188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(0)MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUEFLR	REFLUP	REFERENCE INFORMATION
[005007]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	45.000	2.000	.000	.000	WINGNO
[005008]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	50.000	2.000	.000	.000	WINGNO
[005009]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	65.000	2.000	.000	.000	WINGNO
[005010]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	70.000	2.000	.000	.000	WINGNO
[005011]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	75.000	2.000	.000	.000	WINGNO
[005012]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)	78.000	2.000	.000	.000	WINGNO
[005013]	LARC 8-FIT TPT 644 LO-100 CR3TER(SH)PS (BV2VFB)					SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(E)MACH = 1.20



DATA SET SYMBOL
 (RP5007) □
 (RP5009) ○
 (RP5010) △
 (RP5011) ◇
 (RP5012) □
 (RP5013) △

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)

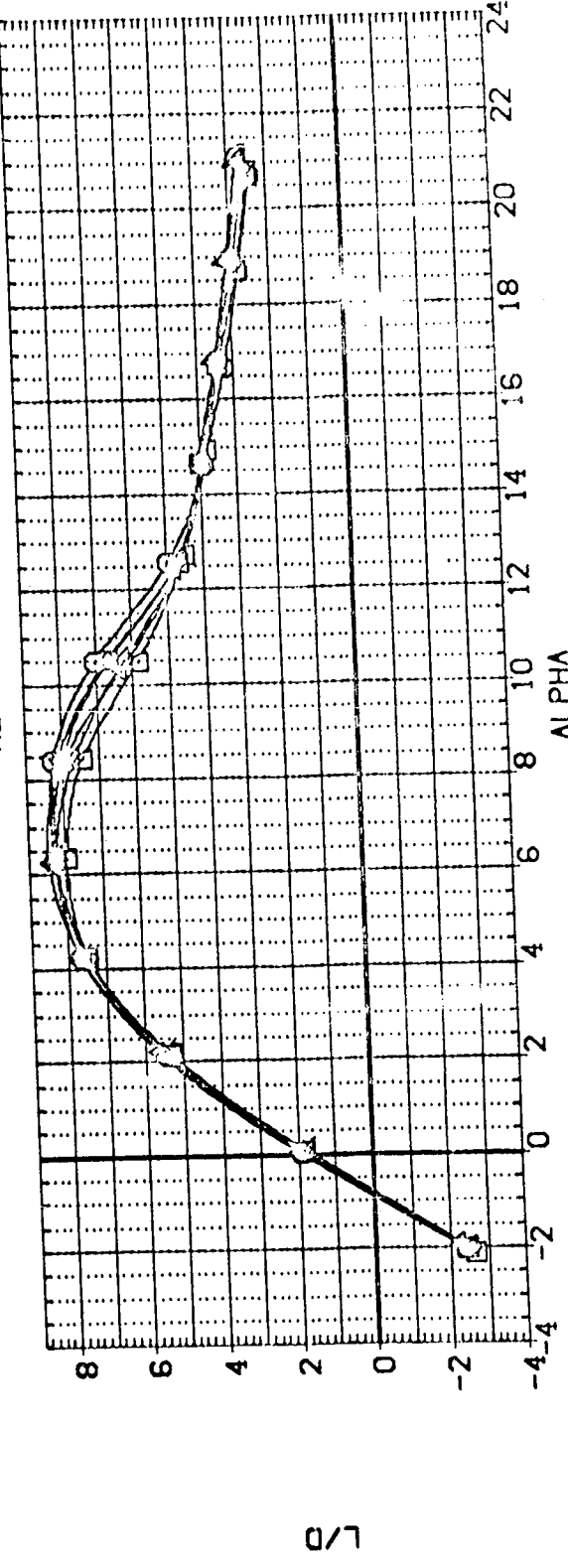
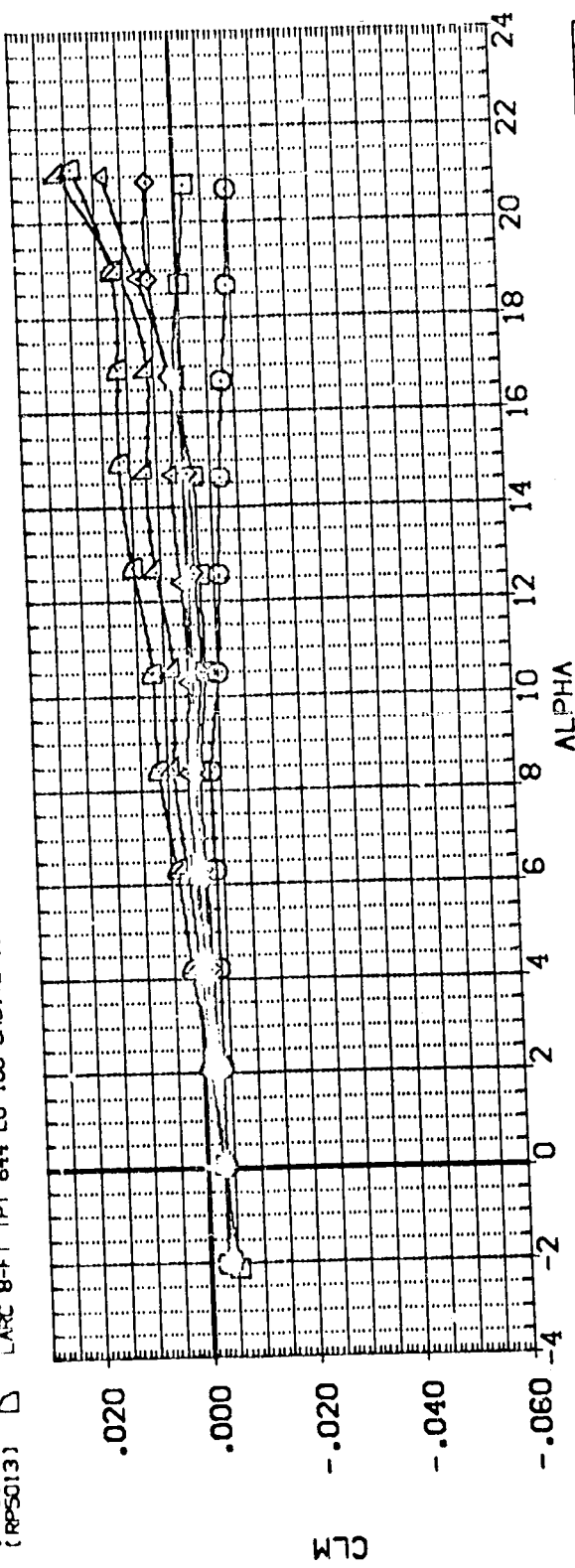
LAMDAF 46.800
 60.000
 65.000
 70.000
 75.000
 78.000

VINGNO 2.000
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 2.000
 2.000
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 2.000

RUOFLR .000
 .000
 .000
 .000
 .000
 .000

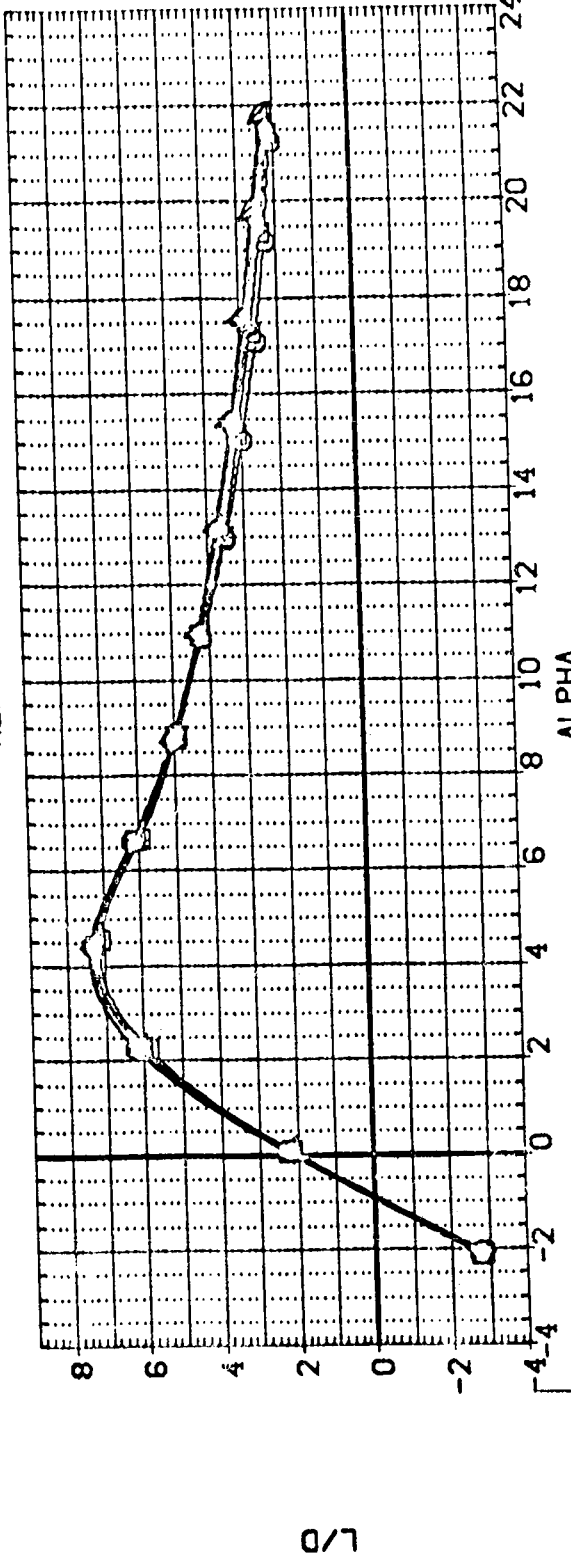
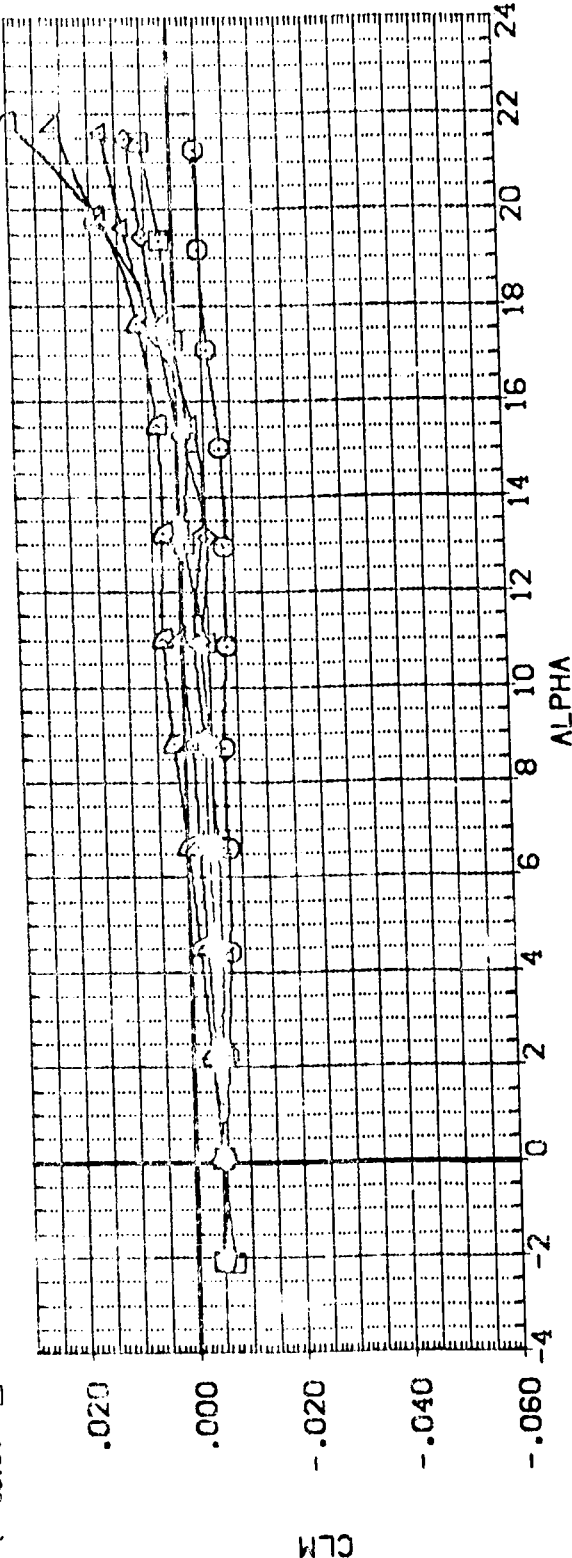
BOFLAP .000
 .000
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 .000

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 25.5100 INCHES
 BREF 20.3557 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE 0.188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (M)MACH = .35

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (05007) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05008) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05009) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05010) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05011) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05012) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)
 (05013) TPT 644 LG-100 CRBITER(SHIPS) (BZVFB)

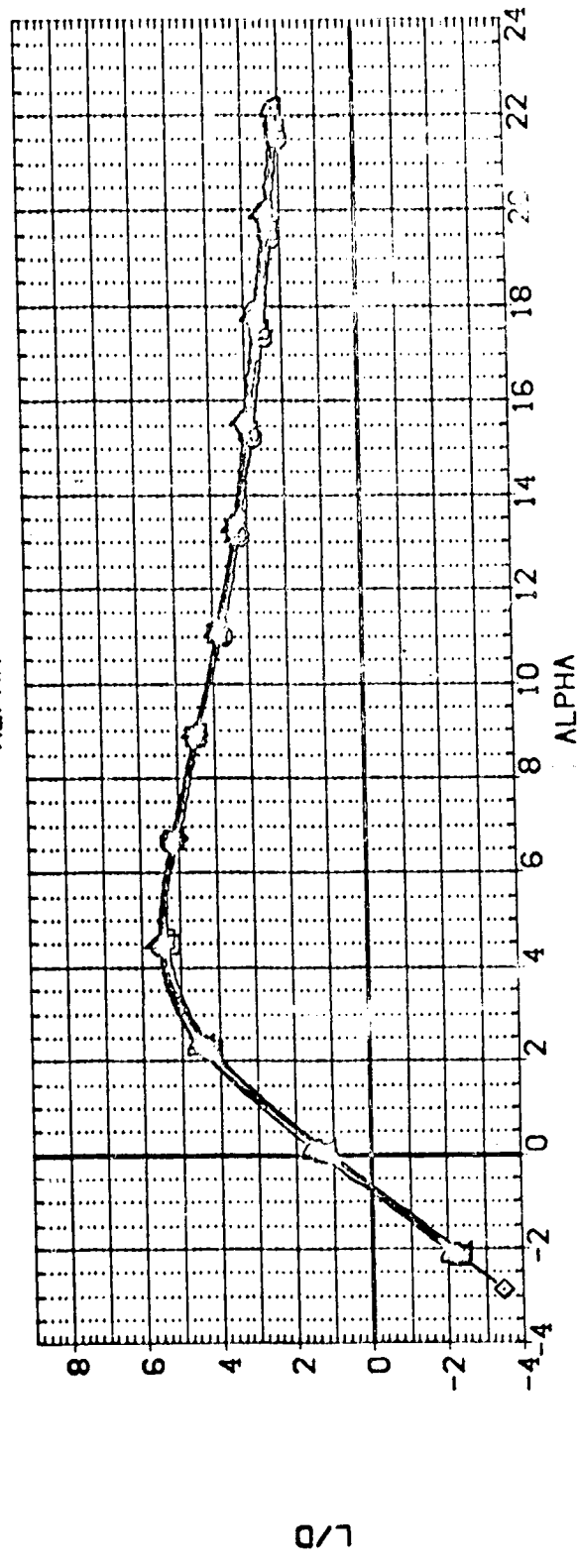
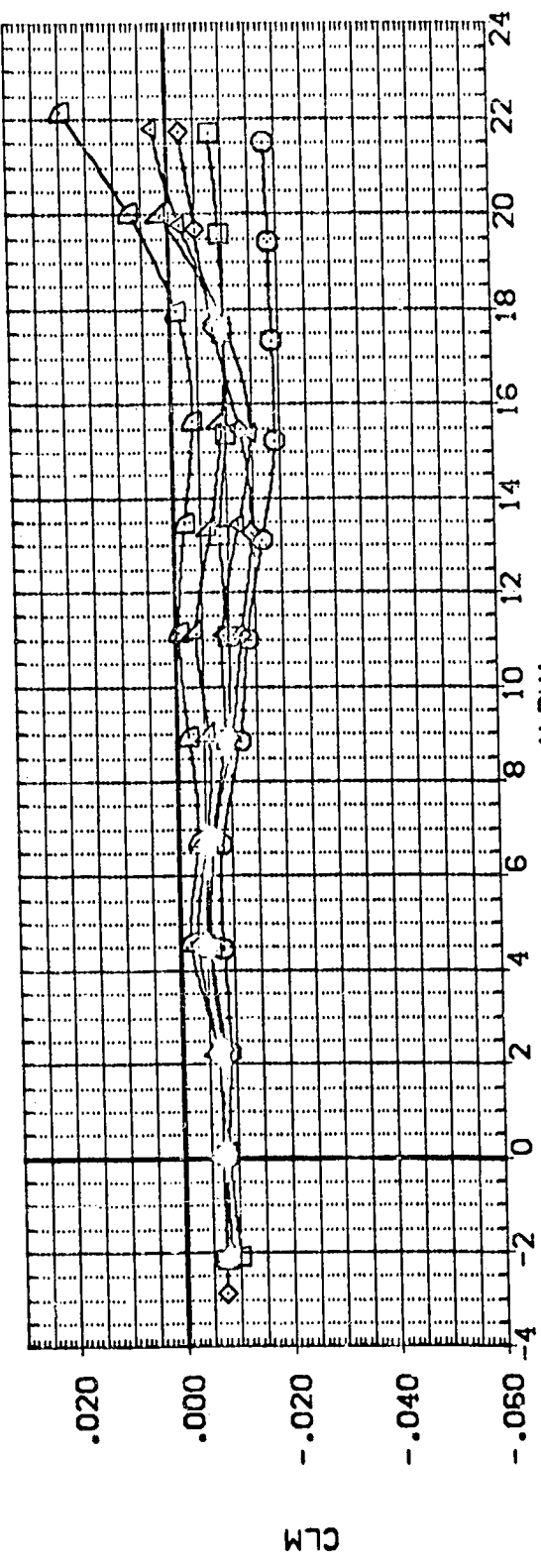


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(B)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RP5008)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	55.000	2.000	.000	.000	BREF 27.3597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XPRP 16.8533 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YPRP .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZPRP .0188 INCHES
						SCALE



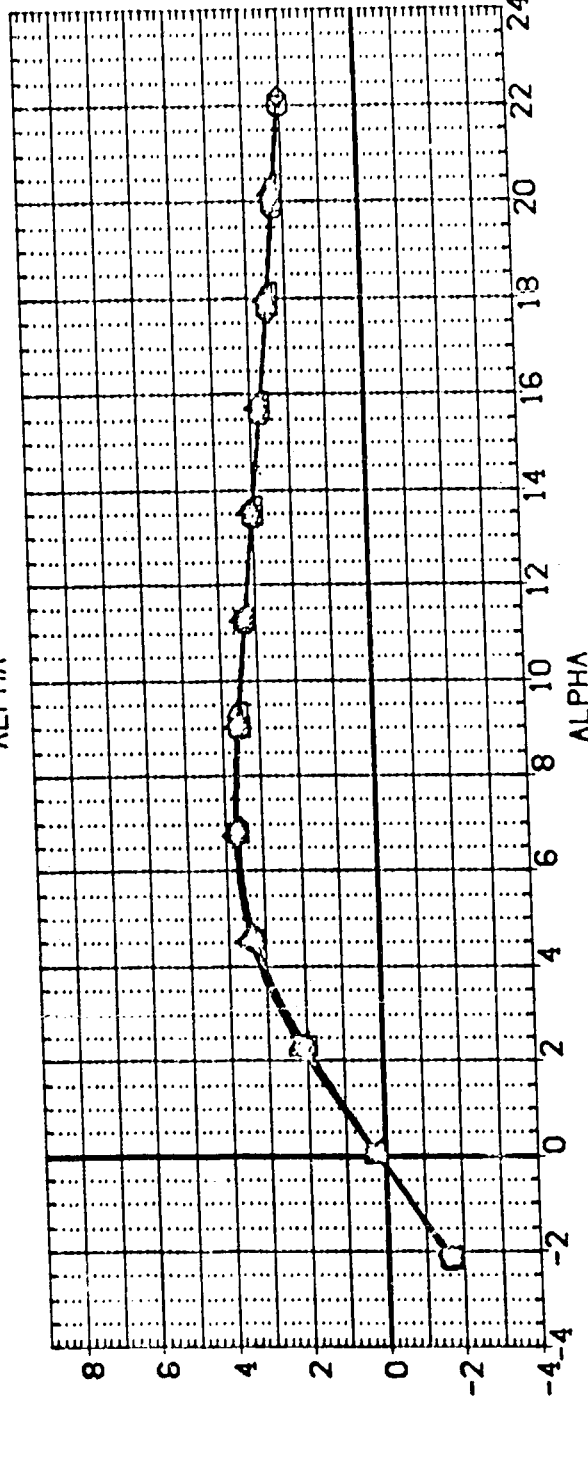
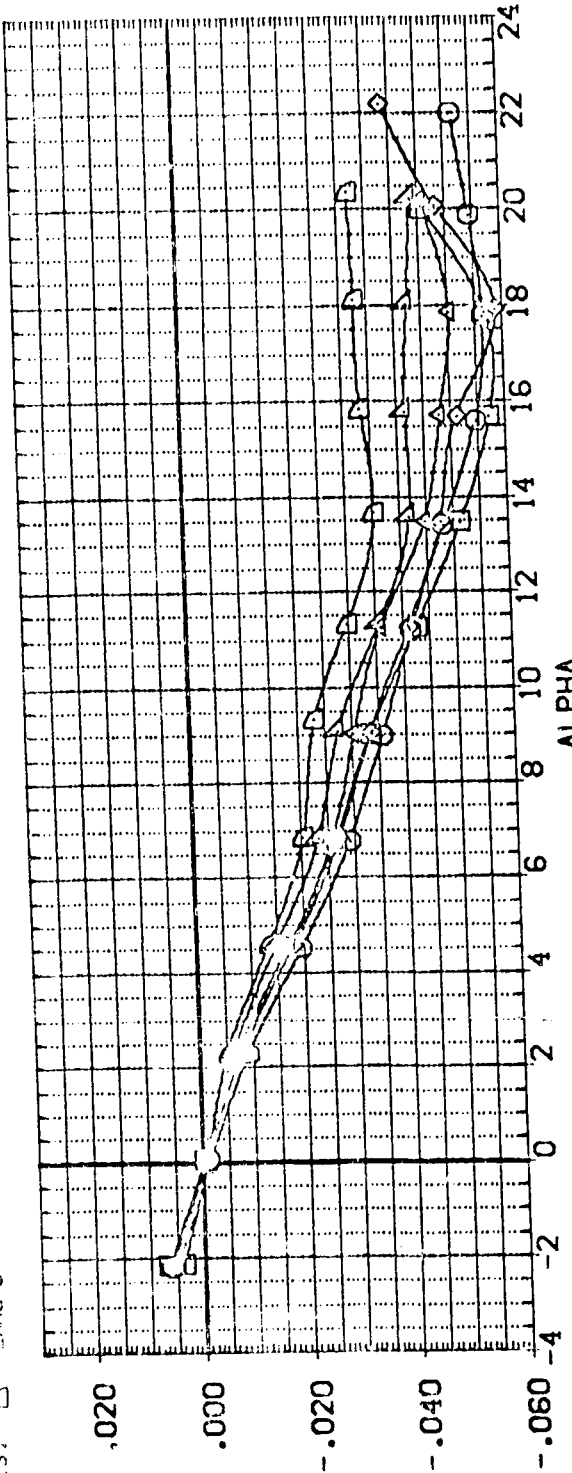
EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (CJMACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

W-33-007	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)
W-33-009	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)
W-33-010	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)
W-33-011	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)
W-33-012	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)
W-33-013	LARC 8-FT TPT 644	LO-100 CR8	TER(SHIPS)	(BVZVFB)

REFERENCE INFORMATION

SCALE	.000
WIND	2.000
RUDFLR	.000
BOELAP	.000
LAMDAF	46.800
WIND	2.000
RUDFLR	.000
BOELAP	.000
LAMDAF	60.000
WIND	2.000
RUDFLR	.000
BOELAP	.000
LAMDAF	65.000
WIND	2.000
RUDFLR	.000
BOELAP	.000
LAMDAF	70.000
WIND	2.000
RUDFLR	.000
BOELAP	.000
LAMDAF	75.000
WIND	2.000
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BOELAP	.000
LAMDAF	78.000
WIND	2.000
RUDFLR	.000
BOELAP	.000

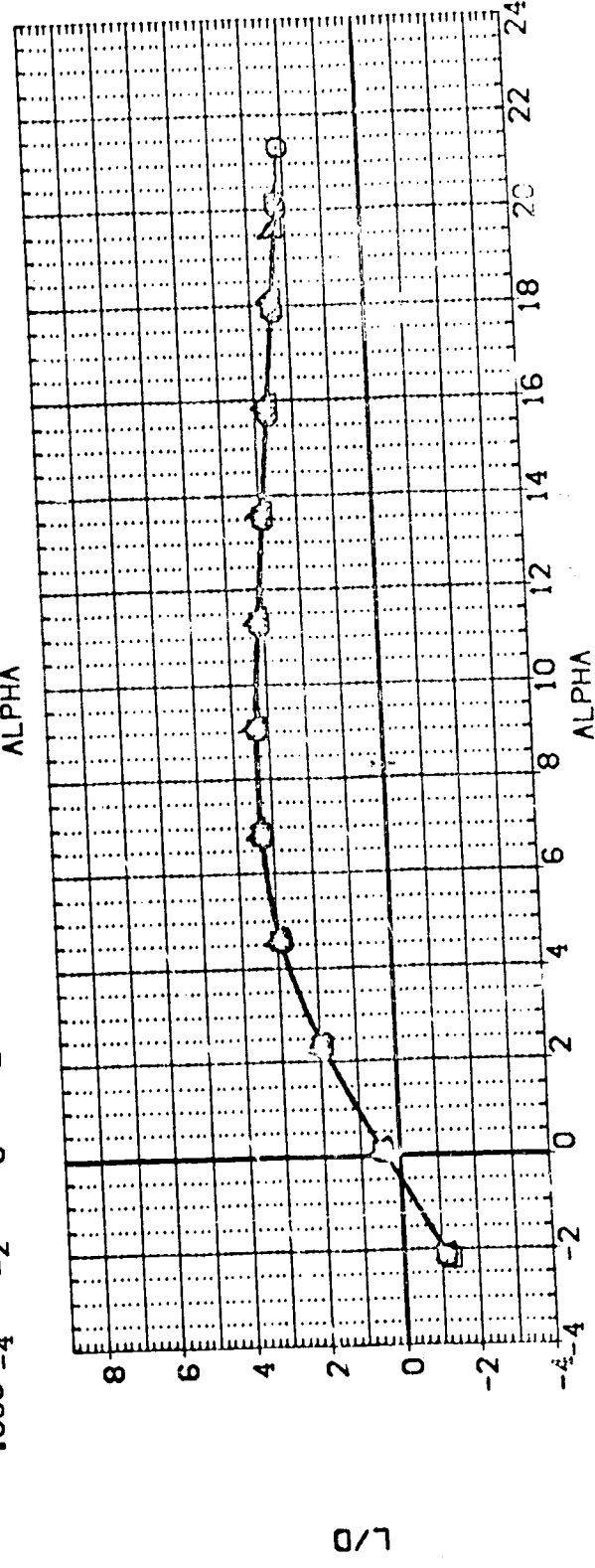
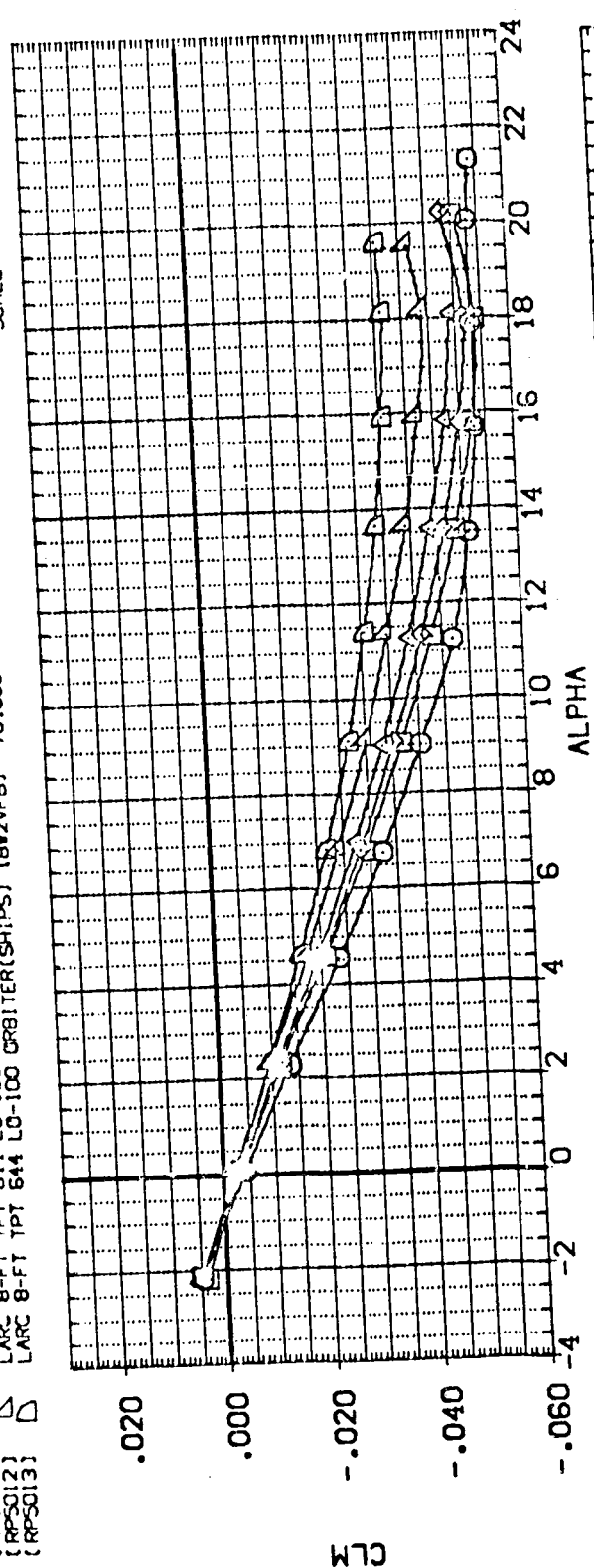


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

COMMACH = .98



DATA SET SYMBOL: (RP5007), (RP5009), (RP5010), (RP5011), (RP5012), (RP5013)
 CONFIGURATION DESCRIPTION: LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS), LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS), LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS), LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS), LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS)
 (BVZVFB), (BVZVFB), (BVZVFB), (BVZVFB), (BVZVFB)
 LAMDAF: 46.800, 60.000, 65.000, 70.000, 75.000, 78.000
 WINGND: 2.000, 2.000, 2.000, 2.000, 2.000, 2.000
 RUDELR: .000, .000, .000, .000, .000, .000
 BDFLAP: .000, .000, .000, .000, .000, .000
 REFERENCE INFORMATION: SREF 171.4720 SO.IN: INCHES, LREF 25.5100 INCHES, BRFP 23.2597 INCHES, XMRP .16.8533 INCHES, YMRP .0000 INCHES, ZMRP .0000 INCHES, SCALE .1:88



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(E)MACH = 1.20

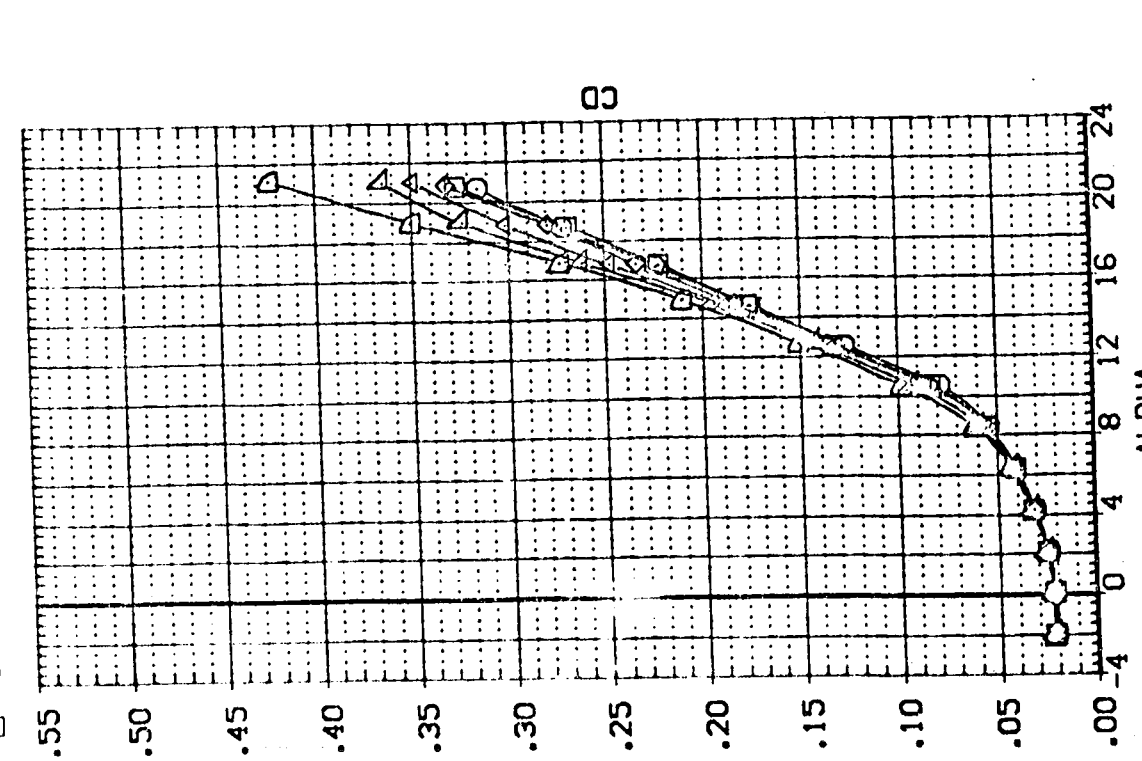
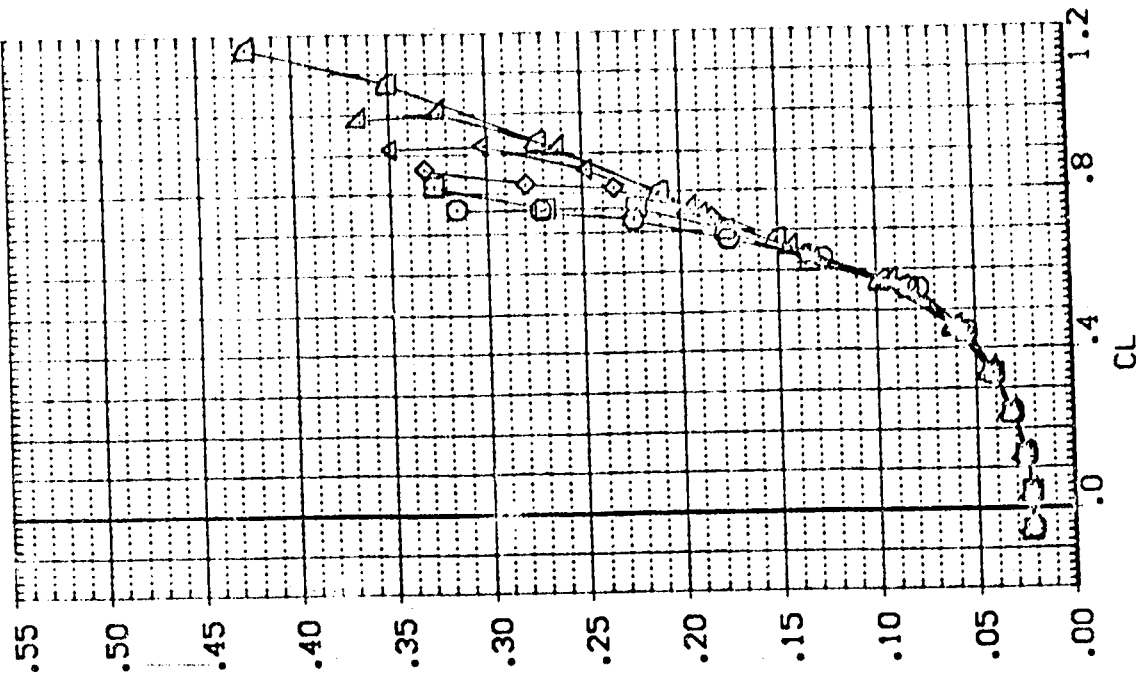
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RPS007)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS008)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS009)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS010)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS011)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS012)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)
(RPS013)	LARC 8-FT TPT 644	LO-100	CRBITER(SHIPS)	(BVZVFB)

REFERENCE INFORMATION

SREF	171.4720
LREF	25.5100
BREF	20.5100
XV90	1.0000
YV90	1.0000
ZV90	1.0000
SCALE	0.186

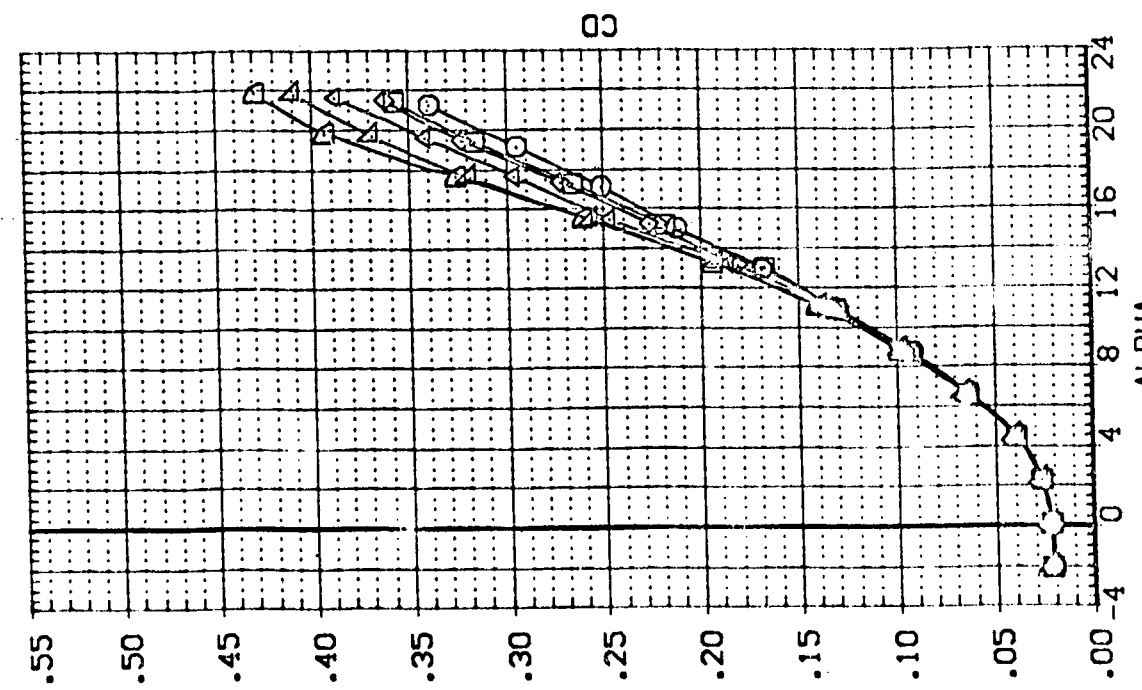
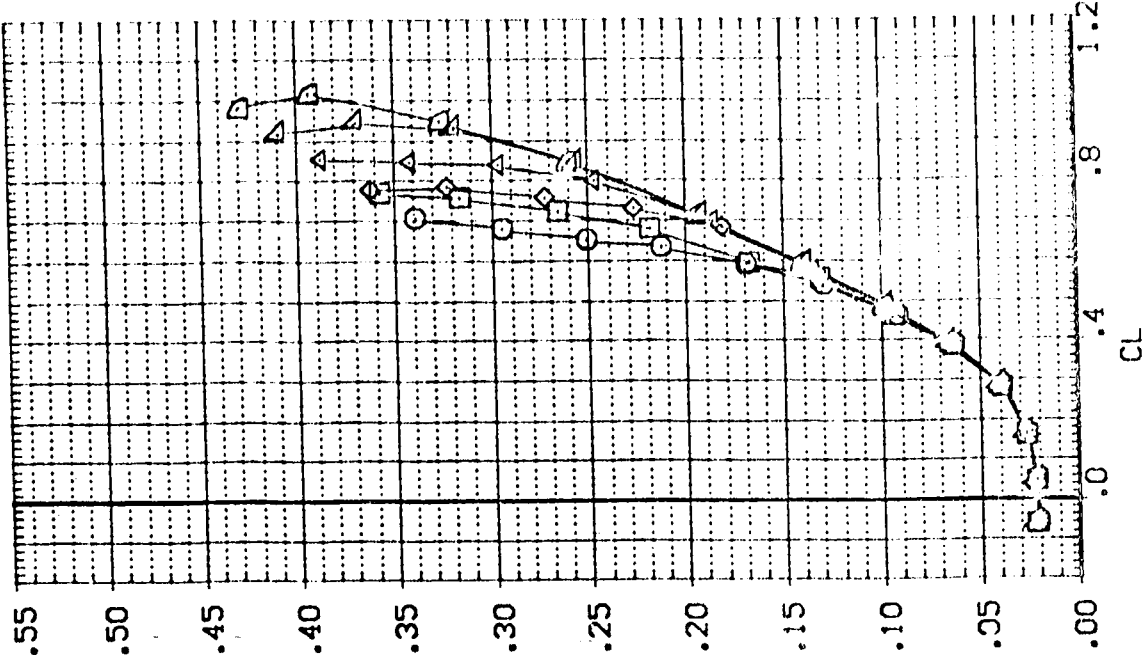
LAMDAP	46.800	WINDAR	2.000	RUDFLR	.000	SOFLAP	.000
	60.000		2.000		.000		.000
	65.000		2.000		.000		.000
	70.000		2.000		.000		.000
	75.000		2.000		.000		.000
	78.000		2.000		.000		.000



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (M)MACH = .35

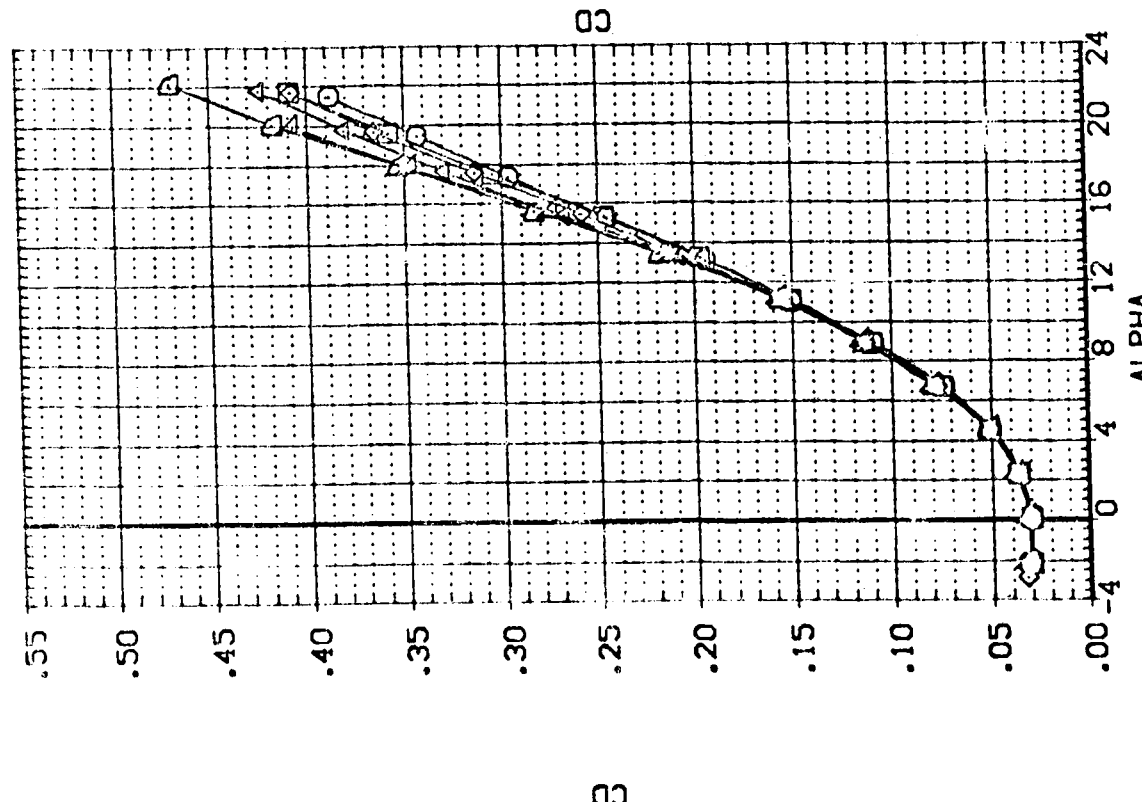
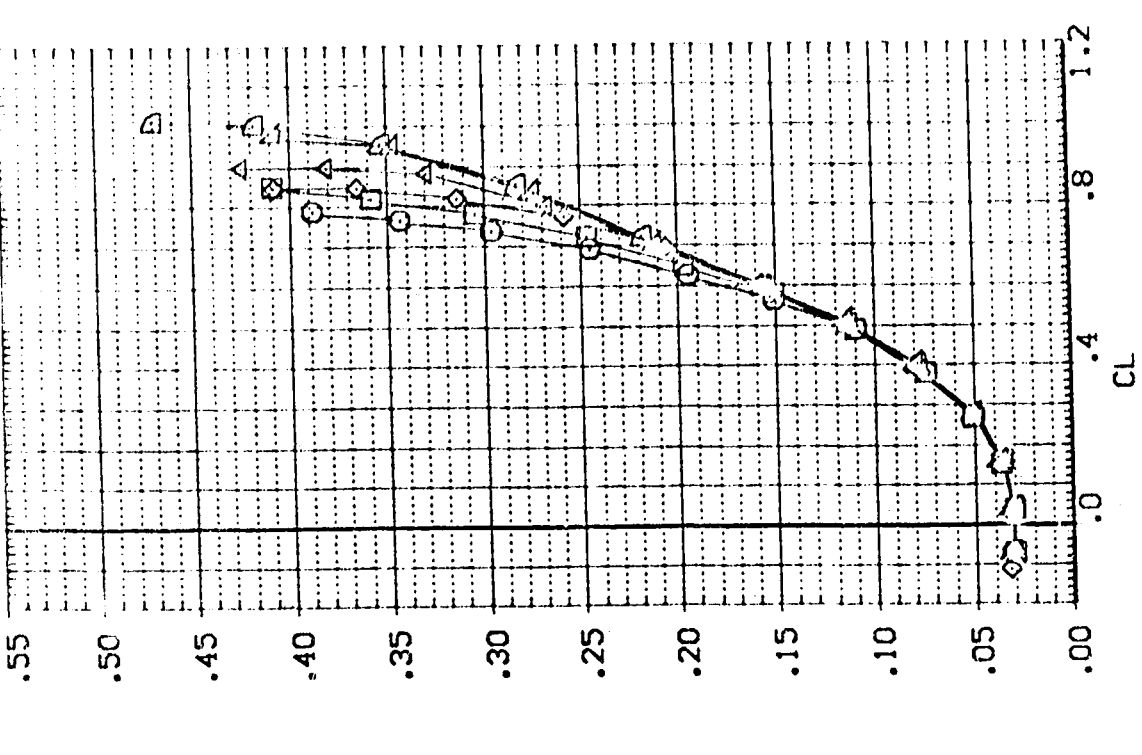


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGAD	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN. INCHES
(RP5009)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 26.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3697 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMRP 16.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YMRP .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188 SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (B)MACH = .80

DATA SET SYMBOL: CLK447
 (005007) (005008) (005009) (005010) (005011) (005012) (005013)
 CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)
 LARC 8-FT TPT 644 LG-100 ORB TER(SHIPS) (B*2\FB)

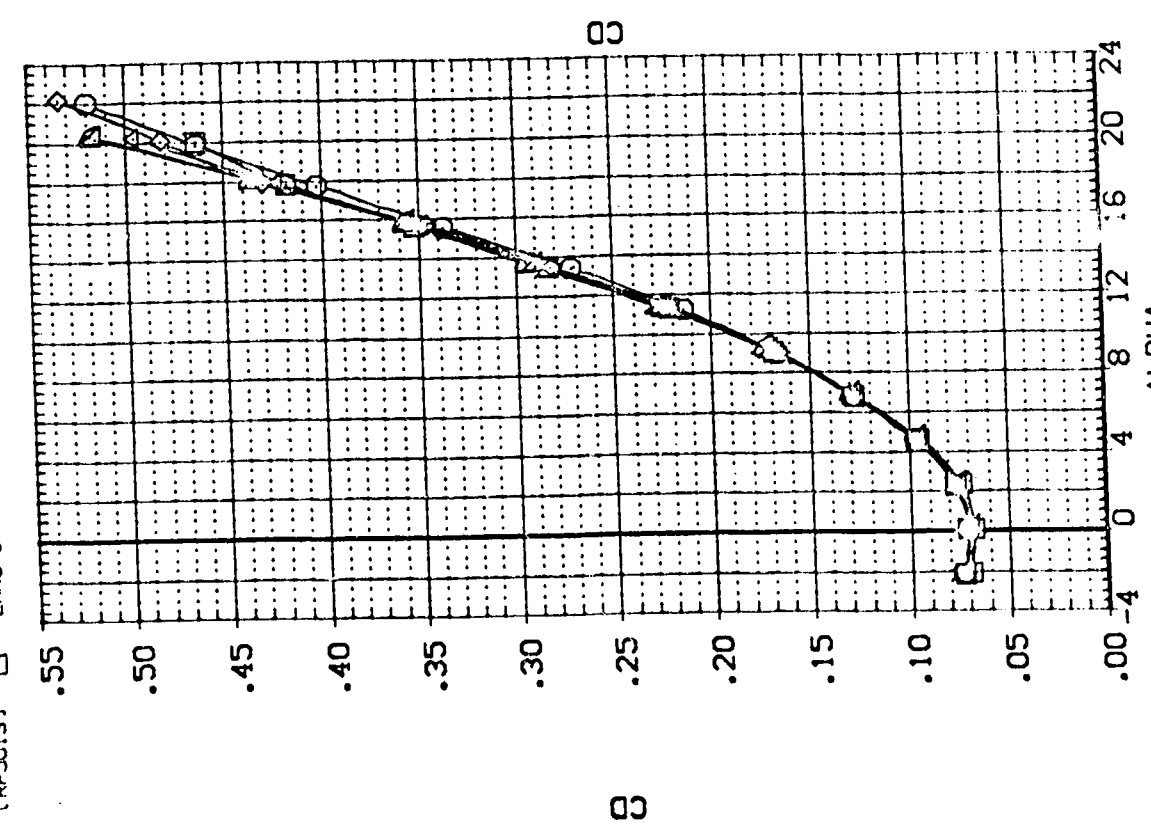
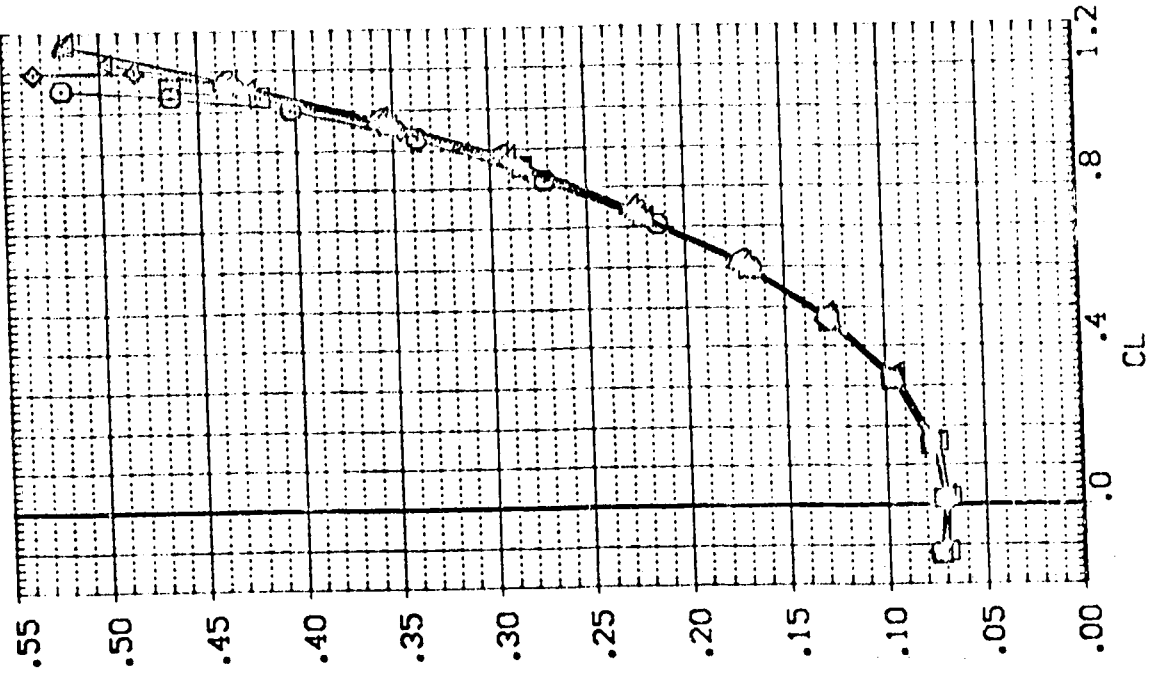


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(C)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RJDFLR	BOFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	46.800	2.000	.000	.000	SREF 171.4720
(RPS009)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	60.000	2.000	.000	.000	LREF 20.5100
(RPS010)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	65.000	2.000	.000	.000	BREF 20.3597
(RPS011)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	70.000	2.000	.000	.000	XMRP 15.8633
(RPS012)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	75.000	2.000	.000	.000	YMRP .0000
(RPS013)	LARC 8-FT TPT 644 LO-100 CR8 ITER(SHIPS)	78.000	2.000	.000	.000	ZMRP .0000
						SCALE .0188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(0)MACH = .98

DATA SET SYMBOL
 [RPS007]
 [RPS009]
 [RPS010]
 [RPS011]
 [RPS012]
 [RPS013]

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)

LAMDAF
 46.800
 60.000
 65.000
 70.000
 75.000
 78.000

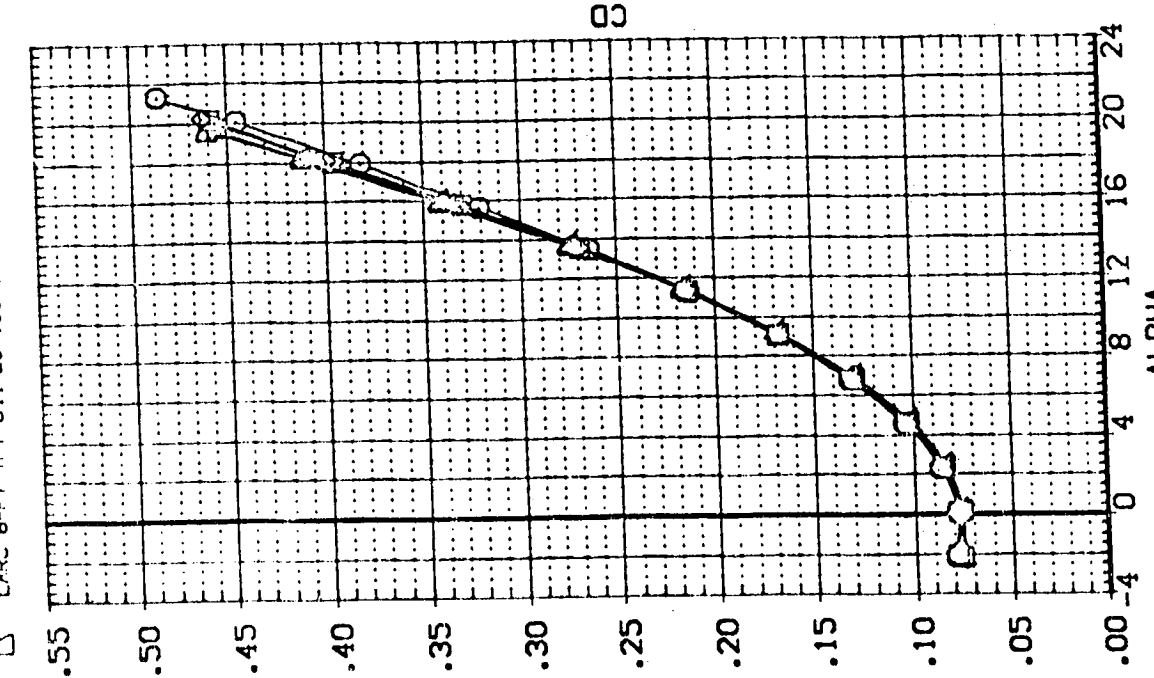
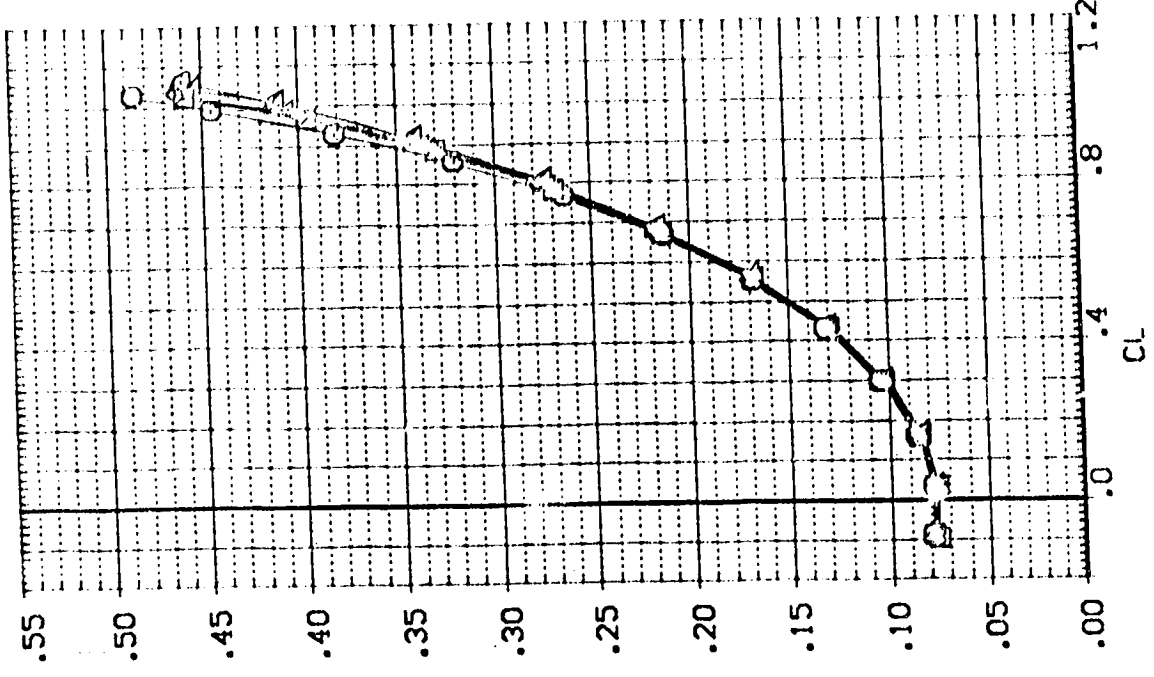
VINGNG
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RUDFLR
 .000
 .000
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BOFLAP
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 .000

SCALE
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 0.189

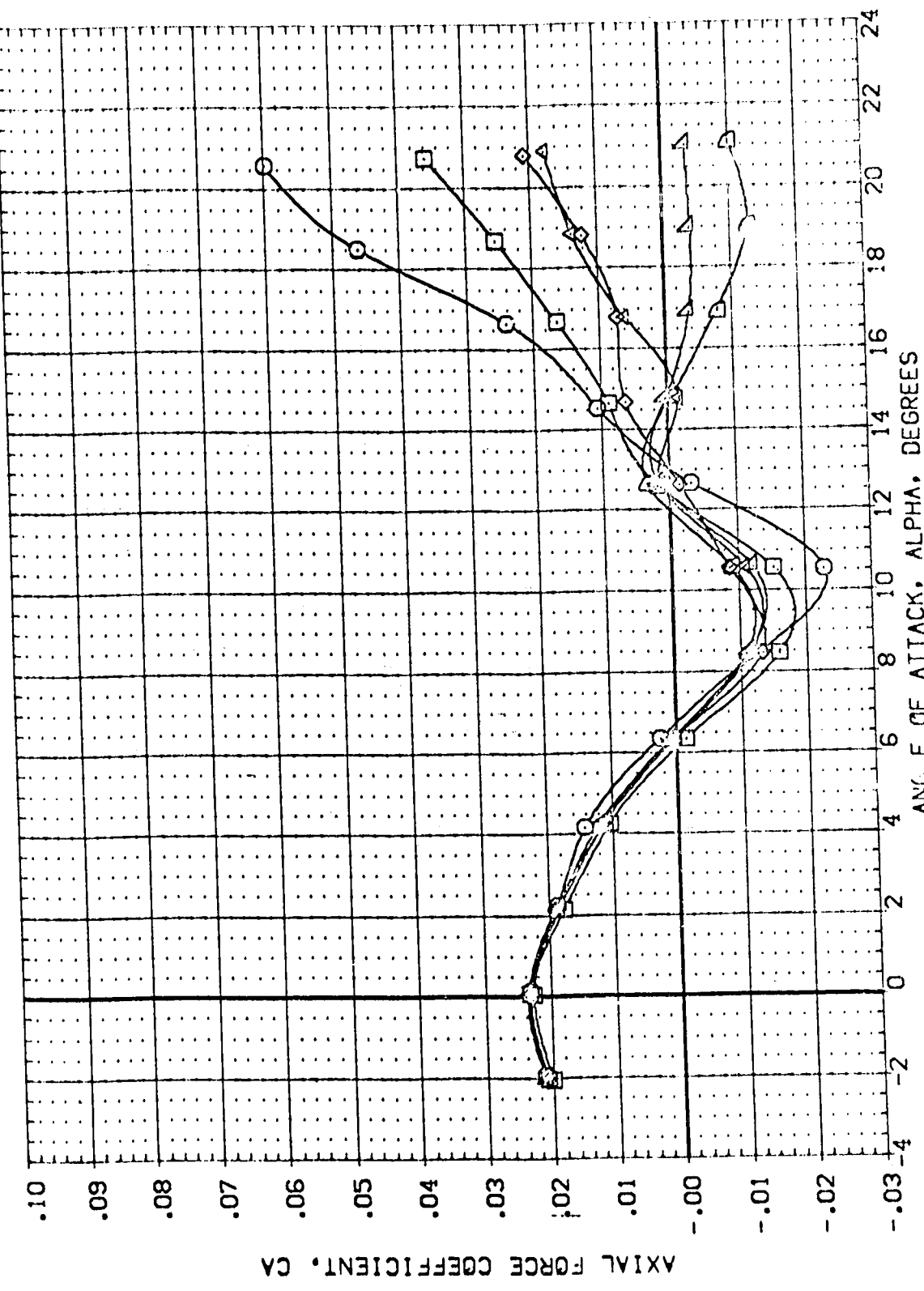
REFERENCE INFORMATION
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EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (E)MACH = 1.20



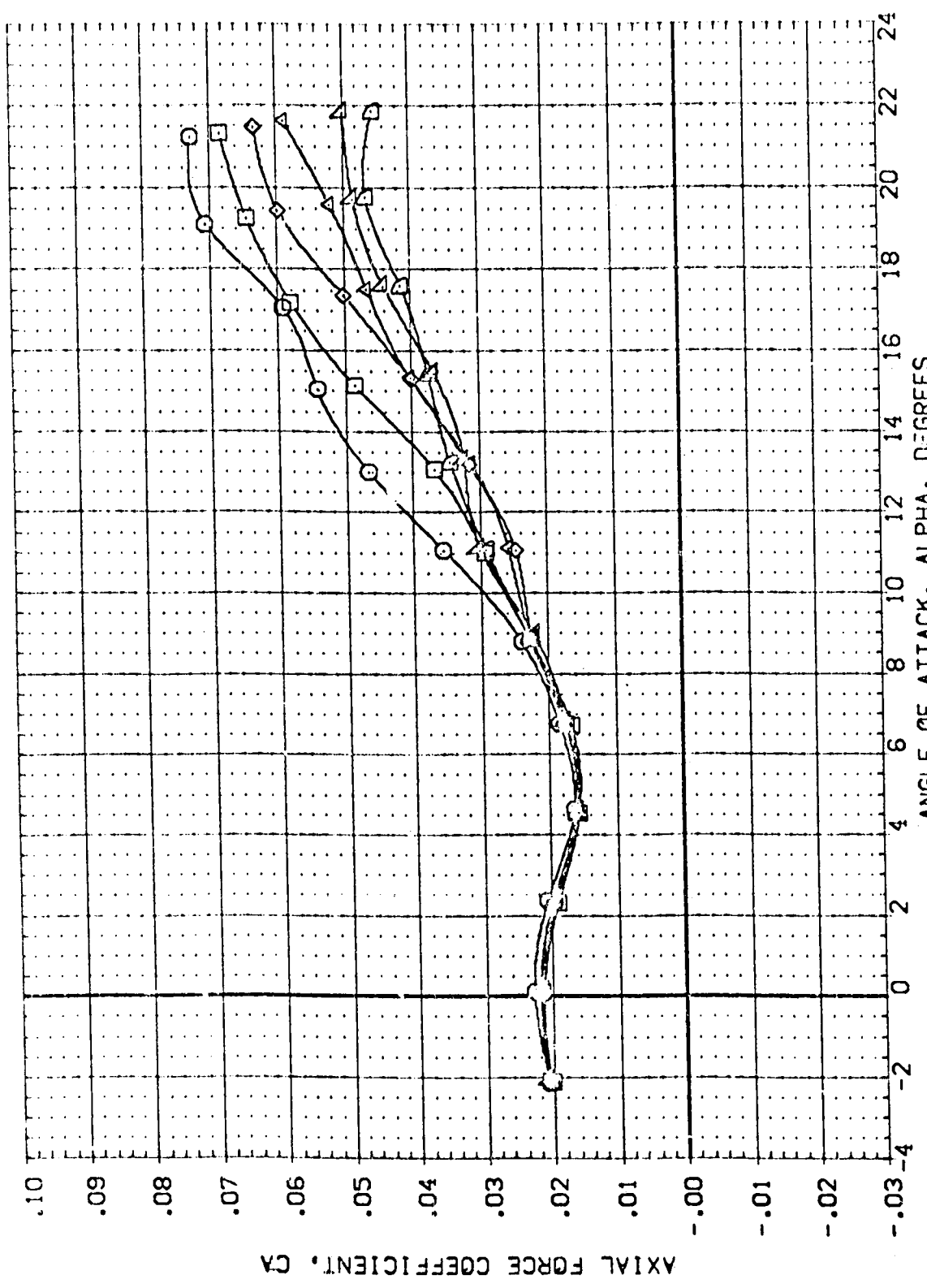
DATA SET SYMBO	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RJDFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312
(RPS018)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 29.5100
(RPS019)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.8095
(RPS020)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XPRP 16.0000
(RPS021)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YPRP .0000
(RPS022)	LARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZPRP .0000
						SCALE .0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

CA/MACH = .35

DATA SET SYMBO: (P5016) (P5018) (P5019) (P5020) (P5021) (P5022)
 CONFIGURATION DESCRIPTION: LASC 8-FT 79- 544 LG-100 CRBITER(SHIPS) (BV3VFB) LASC 8-FT 79- 544 LG-100 CRBITER(SHIPS) (BV3VFB) LASC 8-FT 79- 544 LG-100 CRBITER(SHIPS) (BV3VFB) LASC 8-FT 79- 544 LG-100 CRBITER(SHIPS) (BV3VFB) LASC 8-FT 79- 544 LG-100 CRBITER(SHIPS) (BV3VFB)
 LAMDAF 35.000 55.000 65.000 70.000 75.000 78.000
 WINGMG 3.000 3.000 3.000 3.000 3.000 3.000
 RUFLR .000 .030 .000 .000 .000 .000
 SOFLAP .000 .000 .000 .000 .000 .000
 REFERENCE INFORMATION: SREF 73.1312 SCALE 1.000
 LBEE 25.5000 SCALE 1.000
 SBEE 20.0000 SCALE 1.000
 X-OPP 1.6 SCALE 1.000
 Y-OPP 0.0000 SCALE 1.000
 Z-OPP 0.0000 SCALE 1.000
 SCALE 0.198 SCALE 1.000

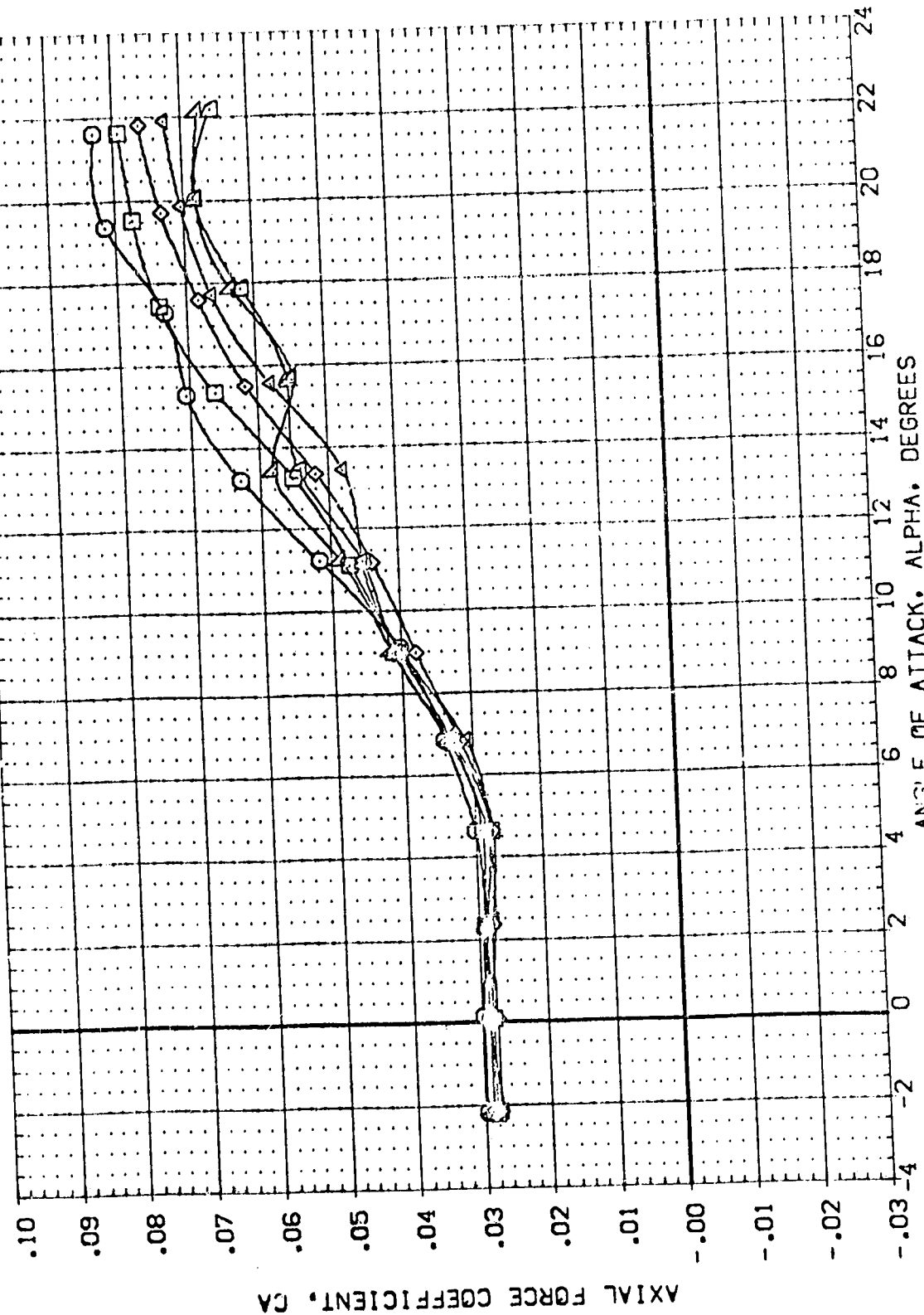


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80



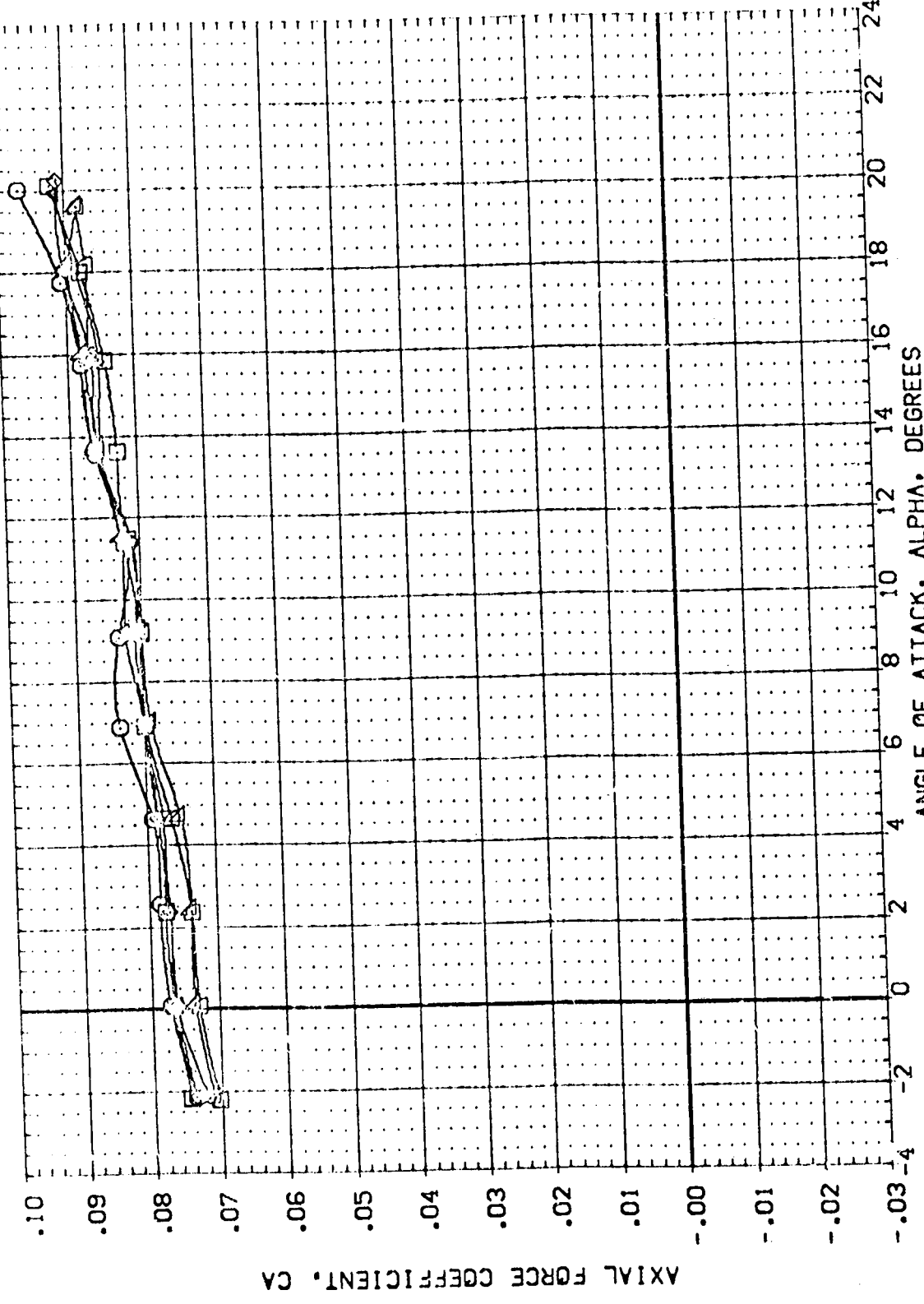
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAP/AF	WING/0	R/OFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312
(RP5018)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100
(RP5019)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	65.000	3.000	.000	.000	BREF 20.5055
(RP5020)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	YMRP 16.8633
(RP5021)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	ZMRP .0000
(RP5022)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	SCALE .0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90

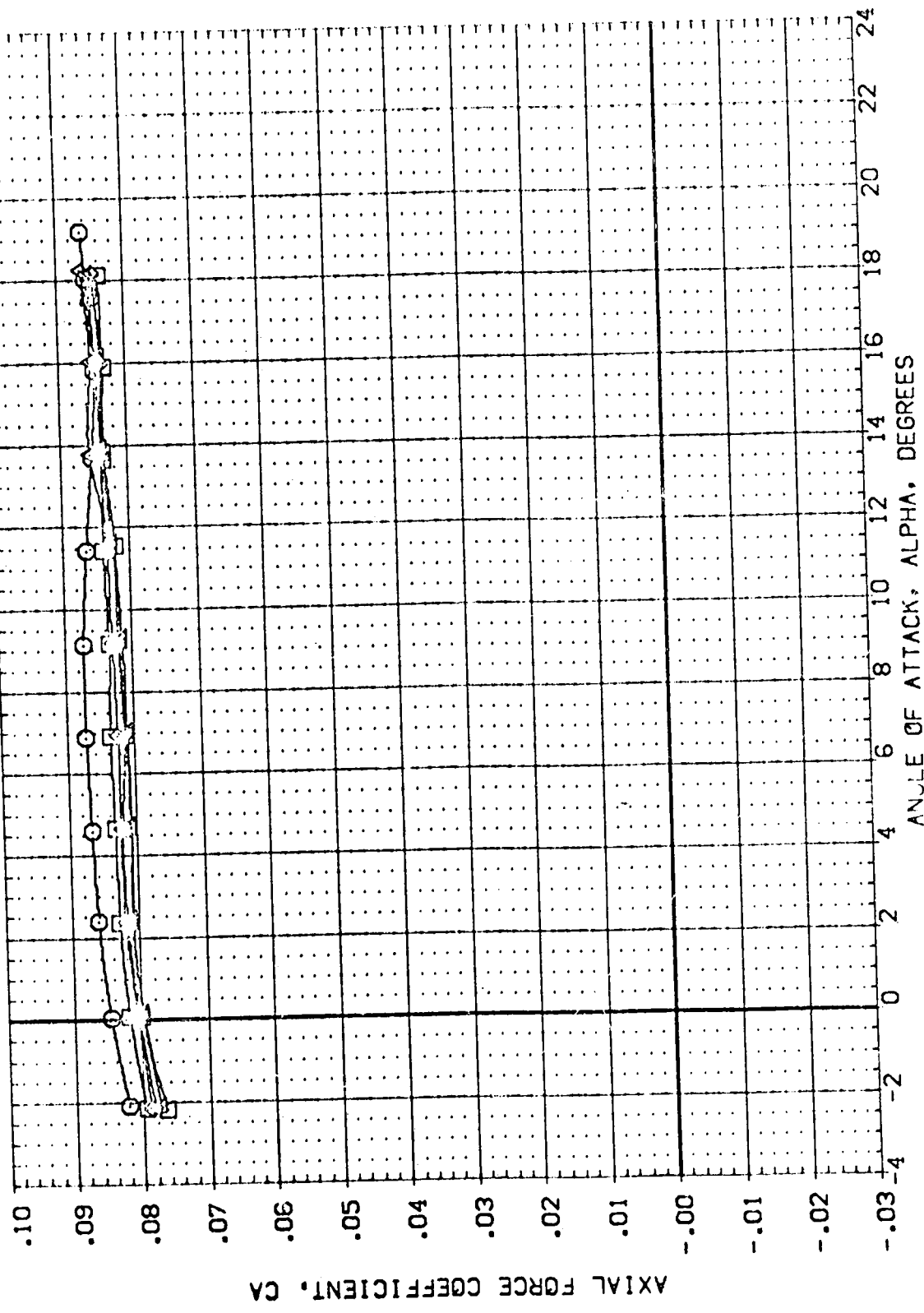
DATA SET SYMBOL: (RPS016) (RPS018) (RPS019) (RPS020) (RPS021) (RPS022)
 CONFIGURATION DESCRIPTION: LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)
 LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)
 LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)
 LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)
 LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)
 LANC 8-ET TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB) (BV3VFB)



AXIAL FORCE COEFFICIENT, CA
 ANGLE OF ATTACK, ALPHA, DEGREES
 EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
 (0)MACH = .98



DATA SET SYM	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ. IN.
(RPS018)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RPS019)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.5036 INCHES
(RPS020)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XTRP 16.8333 INCHES
(RPS021)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YTRP .0000 INCHES
(RPS022)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZTRP .0000 INCHES
						SCALE 0.288



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(MACH = 1.20)

DATA SET SYMBOL: (RPS01S) (RPS01B) (RPS01G) (RPS01O) (RPS021) (RPS022)

CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LC-00 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-00 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-00 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-00 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-00 CR8ITER(SH)PS (BV3VFB)

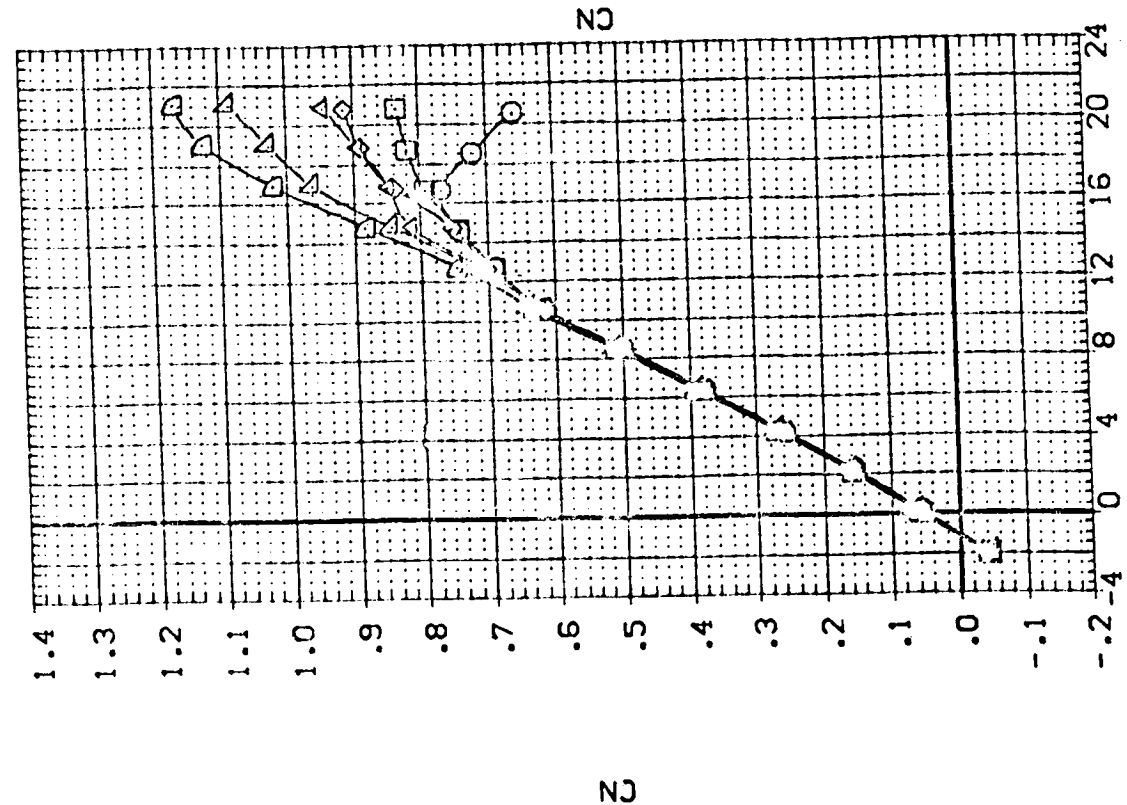
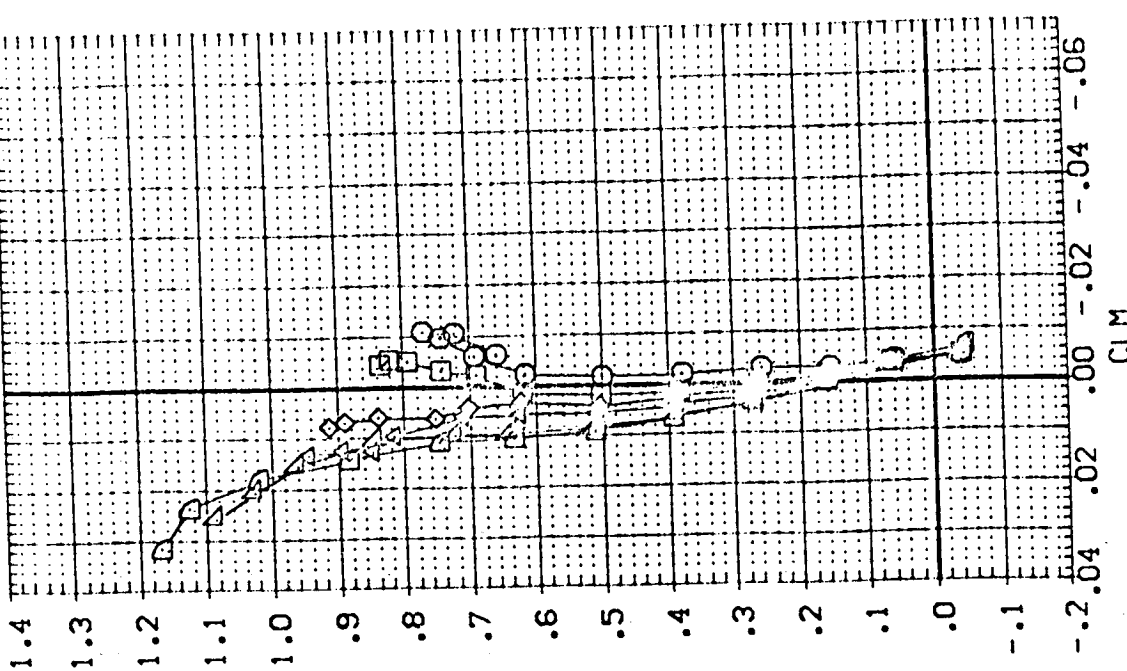
REFERENCE INFORMATION:
 SREF 173.1312 SCLIN 5.00
 LREF 25.5000 INCHES
 BREF 20.8000 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0189 SCALE

LAMDAF 35.000
 55.000
 65.000
 70.000
 75.000
 78.000

WINGW 3.000
 3.000
 3.000
 3.000
 3.000
 3.000

RJOLR .000
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 .000
 .000
 .000

BOFLAP .000
 .000
 .000
 .000
 .000
 .000

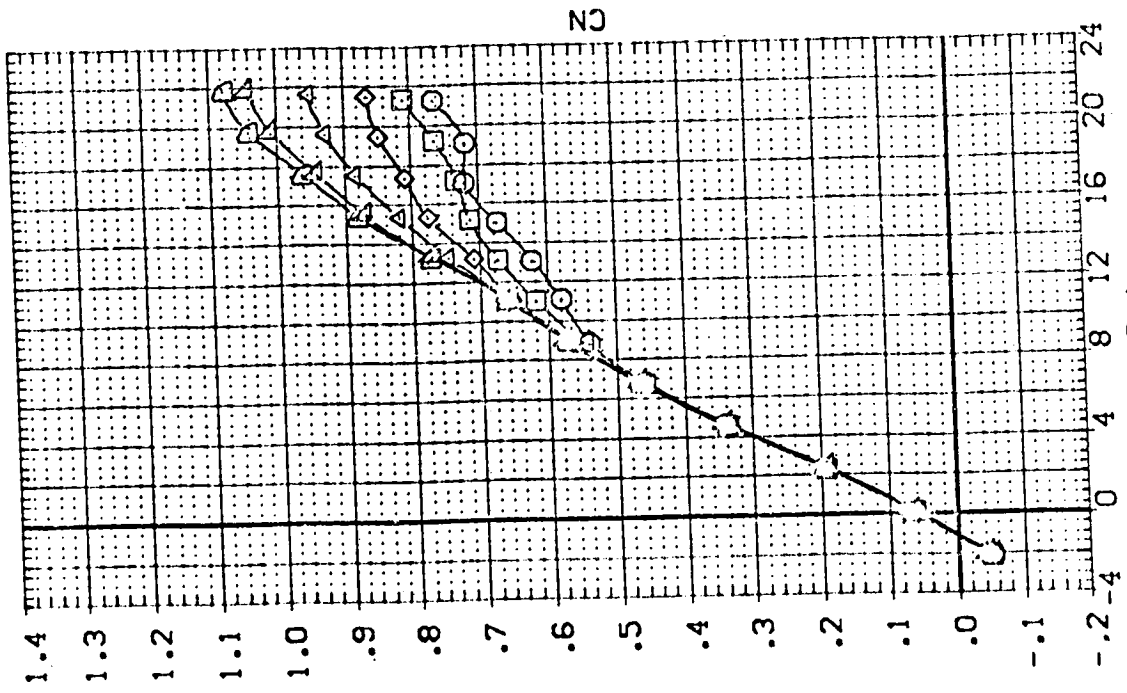
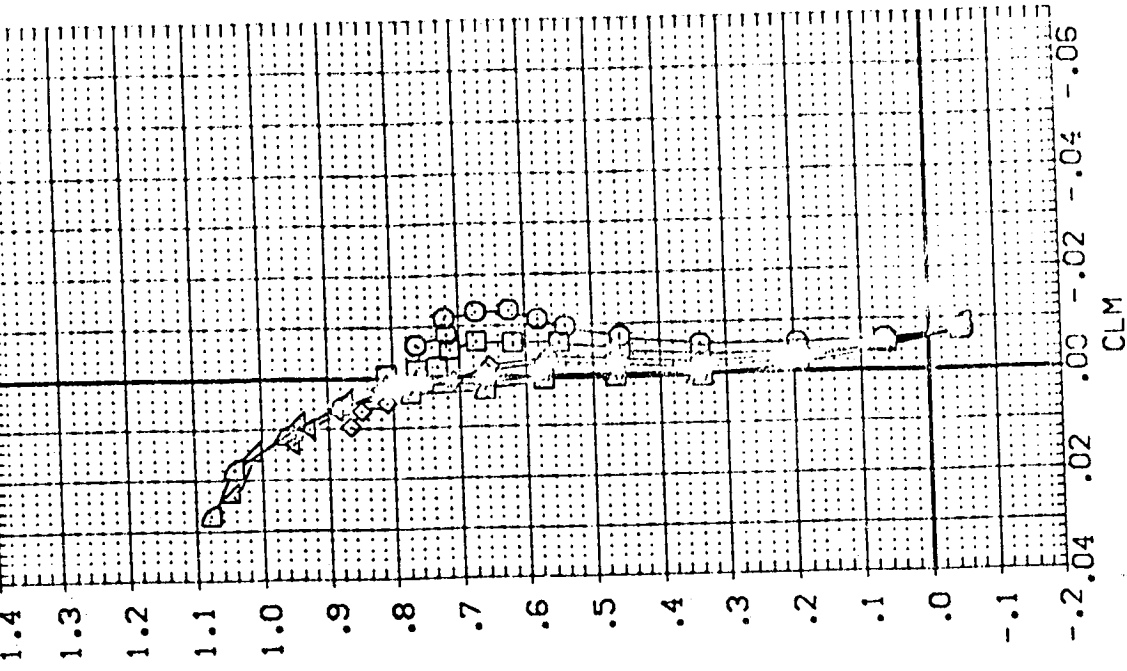


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(AJMACH = .35



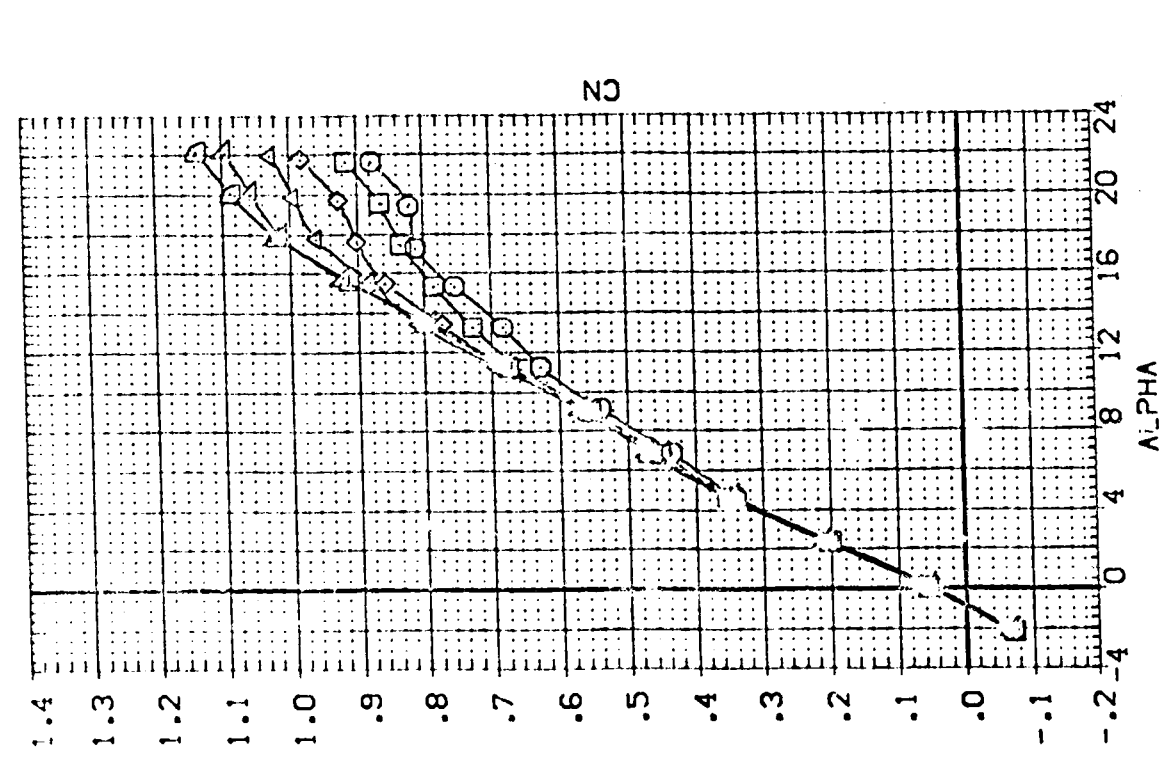
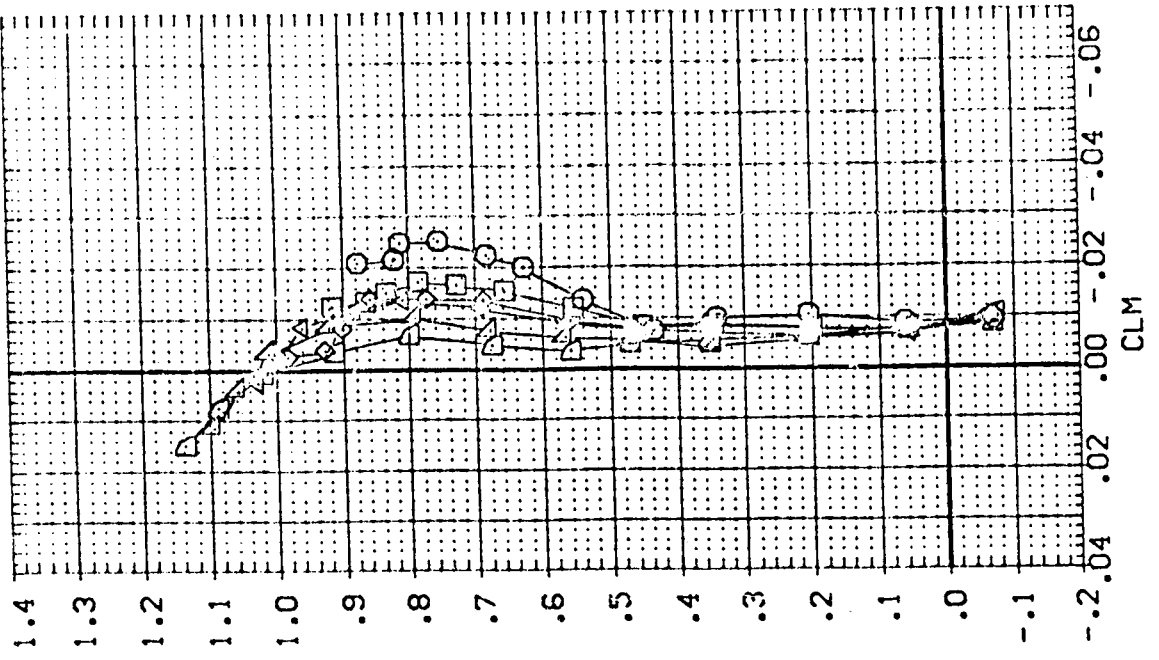
DATA SET SYMBO	CONFIGURATION DESCRIPTION	LAMDAR	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ.IN.
(RP5018)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RP5019)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.6633 INCHES
(RP5020)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XREF 16.0000 INCHES
(RP5021)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YREF .0000 INCHES
(RP5022)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZREF .0189 SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INDIR	SOFLAP	RUDFLR	VINGAG	LAMDAE
(R05016)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	173.1312	.000	.000	3.000	35.000
(R05018)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	20.5400	.000	.000	3.000	55.000
(R05019)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	22.6383	.000	.000	3.000	65.000
(R05020)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	16	.000	.000	3.000	70.000
(R05021)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	.0000	.000	.000	3.000	75.000
(R05022)	LARC 8-ET TPT 644 LC-100 CR3 TER(SHIPS) (B3VFB)	.0189	.000	.000	3.000	78.000



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
 (C)MACH = .90



DATA SET SYMBOLS
 (RPS016) (RPS018) (RPS019) (RPS020) (RPS021) (RPS022)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CRBITTER(S-I)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CRBITTER(S-I)PS (BV3VFB)
 LARC 8-FT TPT 644 LO-100 CRBITTER(S-I)PS (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CRBITTER(S-I)PS (BV3VFB)
 LARC 8-FT TPT 644 LO-100 CRBITTER(S-I)PS (BV3VFB)

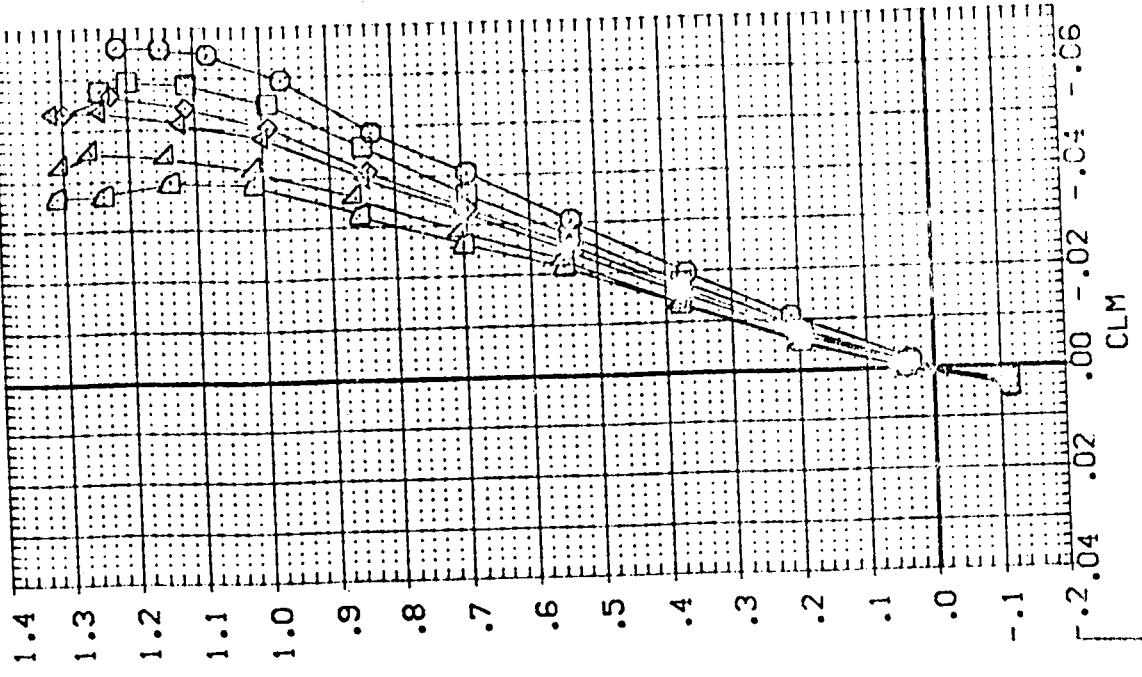
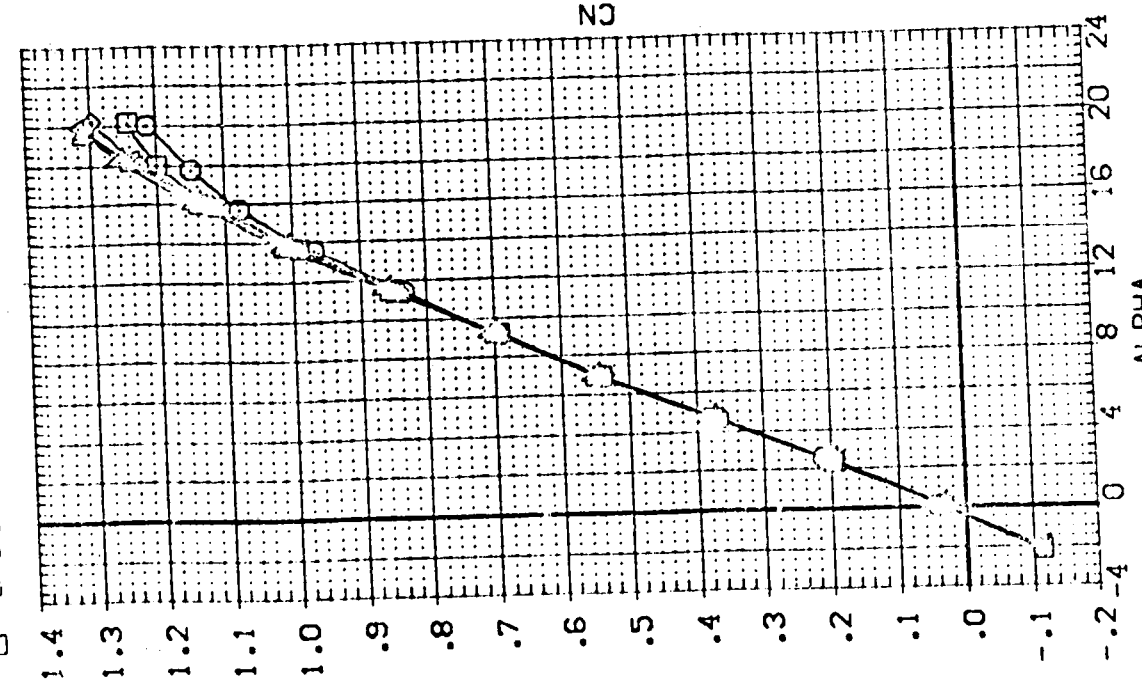
LAMDAF 35.000
 55.000
 65.000
 70.000
 75.000
 75.000

WINGNO 3.000
 3.000
 3.000
 3.000
 3.000
 3.000

RUOFLR .000
 .000
 .000
 .000
 .000
 .000

BOFLAP .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.6066
 X-PRP 16
 Y-PRP 0.0000
 Z-PRP 0.0000
 SCALE 0.289



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

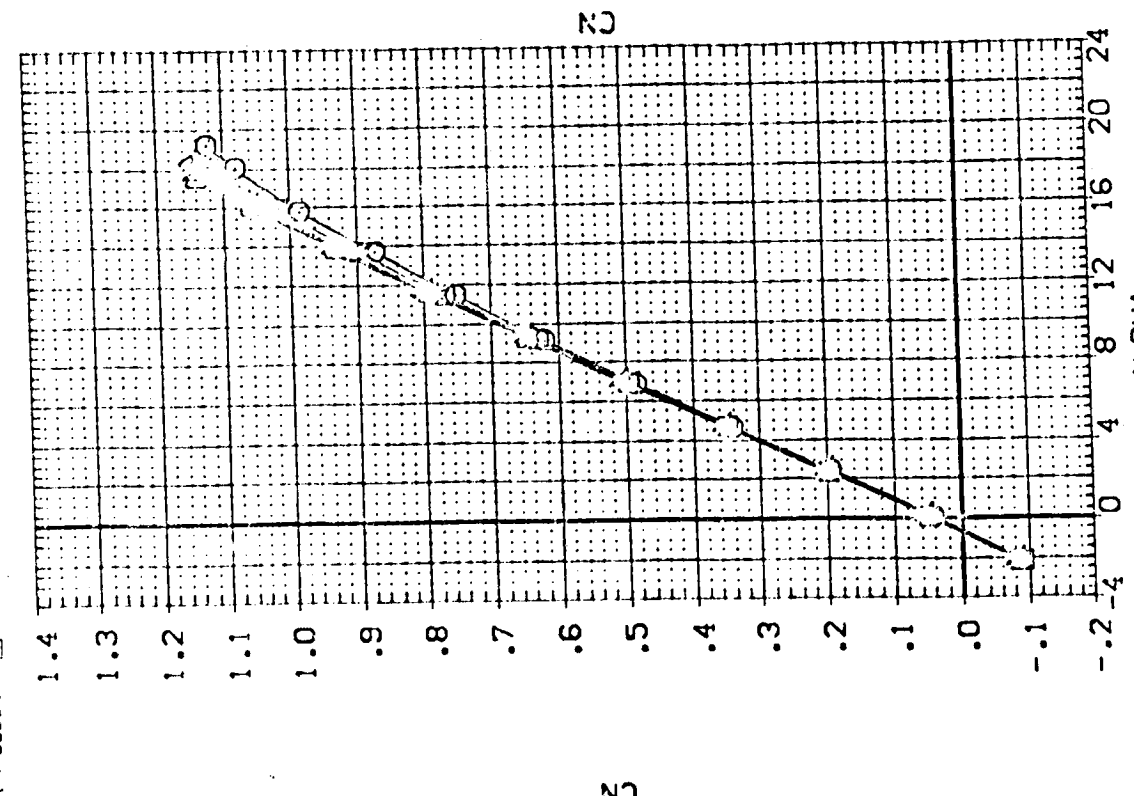
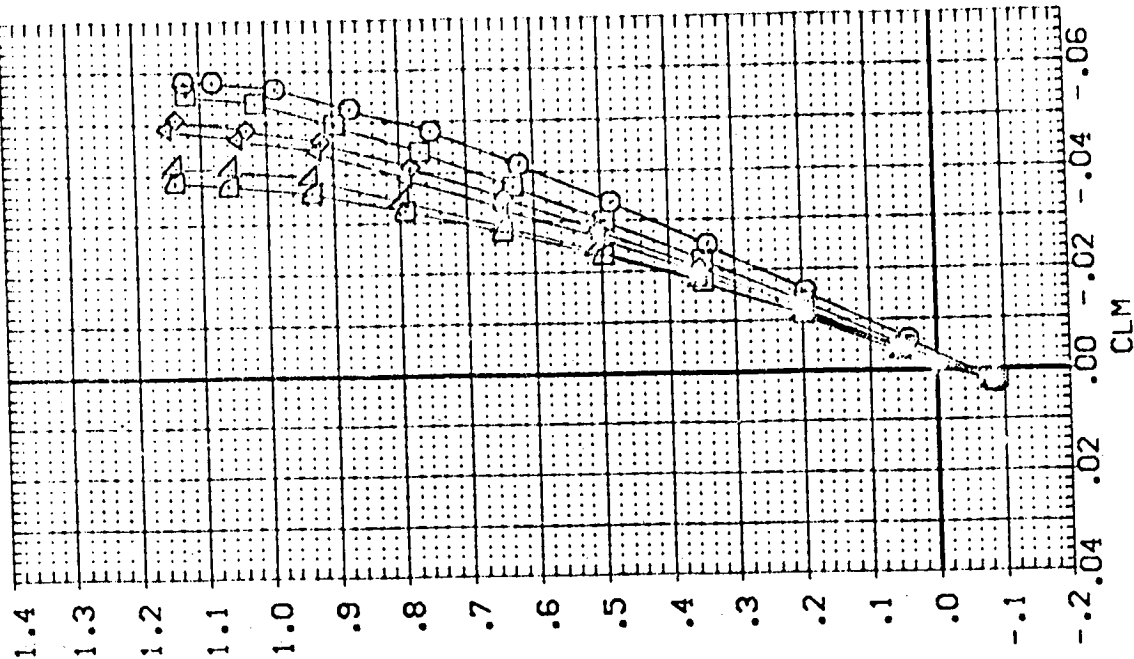
(O)MACH = .98

DATA SET SYMBOL
 (P00018)
 (P00019)
 (P00020)
 (P00021)
 (P00022)

CONFIGURATION DESCRIPTION
 LARC 8-FIT TPT 644 LC-100 CR3-TER(SH)PS (BV3VFB)
 LARC 8-FIT TPT 644 LC-100 CR3-TER(SH)PS (BV3VFB)
 LARC 8-FIT TPT 644 LC-100 CR3-TER(SH)PS (BV3VFB)
 LARC 8-FIT TPT 644 LC-100 CR3-TER(SH)PS (BV3VFB)
 LARC 8-FIT TPT 644 LC-100 CR3-TER(SH)PS (BV3VFB)

REFERENCE INFORMATION
 SPEC 1.312
 TOL 5.000
 SCAL 800000
 VWRP 0.000
 ZWRP 0.000
 SCALE 0.188

LAMDAF 35.000
 WINGNG 3.000
 RUOFLR 0.000
 BOFLAP 0.000



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

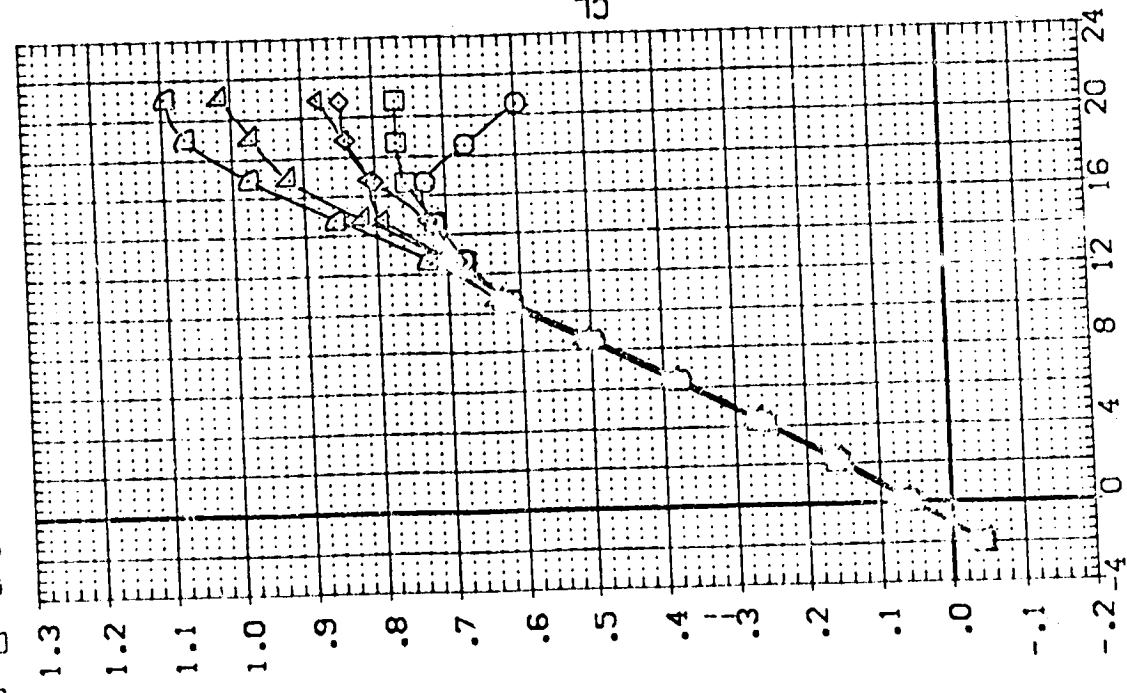
(E)MACH = 1.20



DATA SET SYMBOL
 (RP5016)
 (RP5018)
 (RP5019)
 (RP5020)
 (RP5021)
 (RP5022)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 CR3:TER(SHIPS) (BV3VFB)

(BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)



3

ALPHA

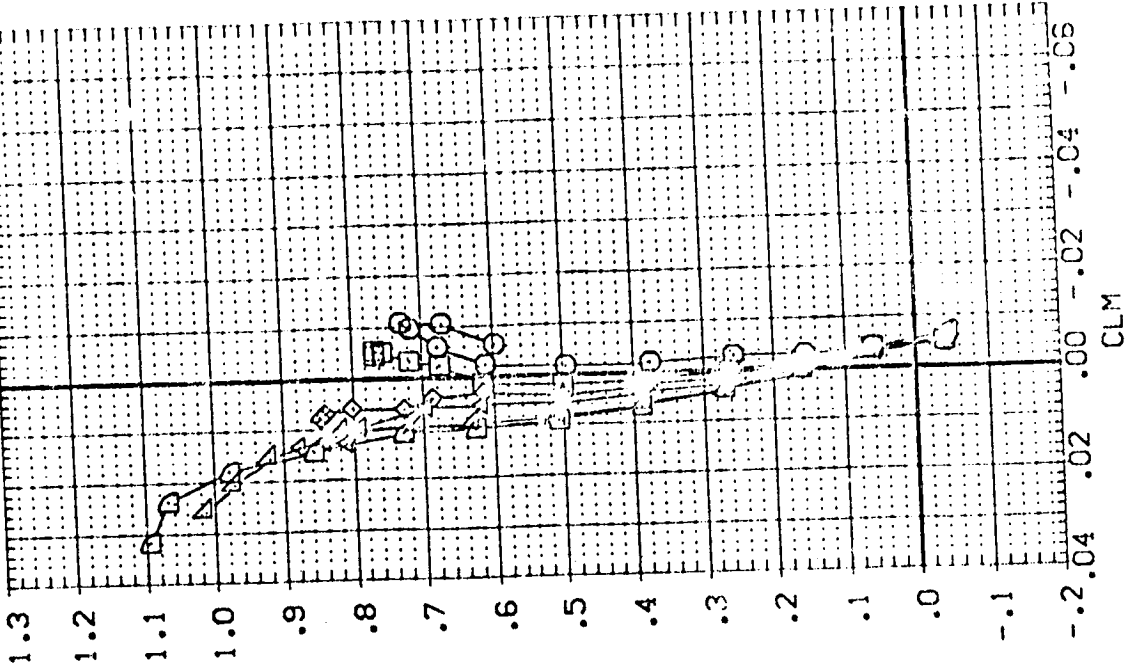
EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(AJMACH = .35

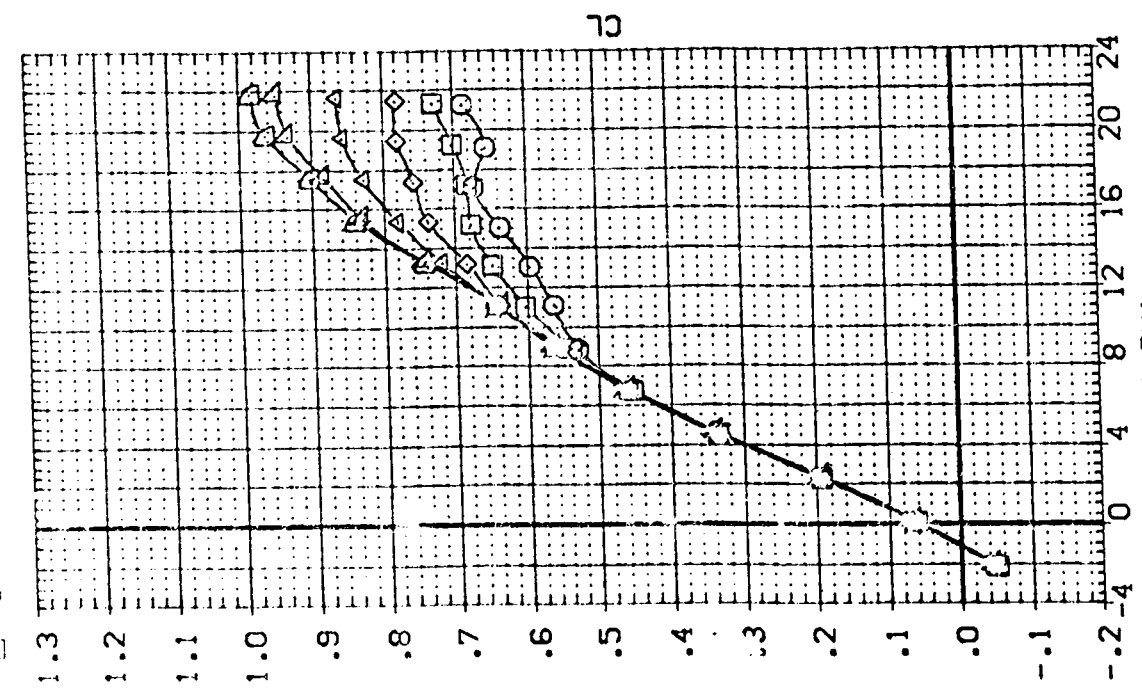
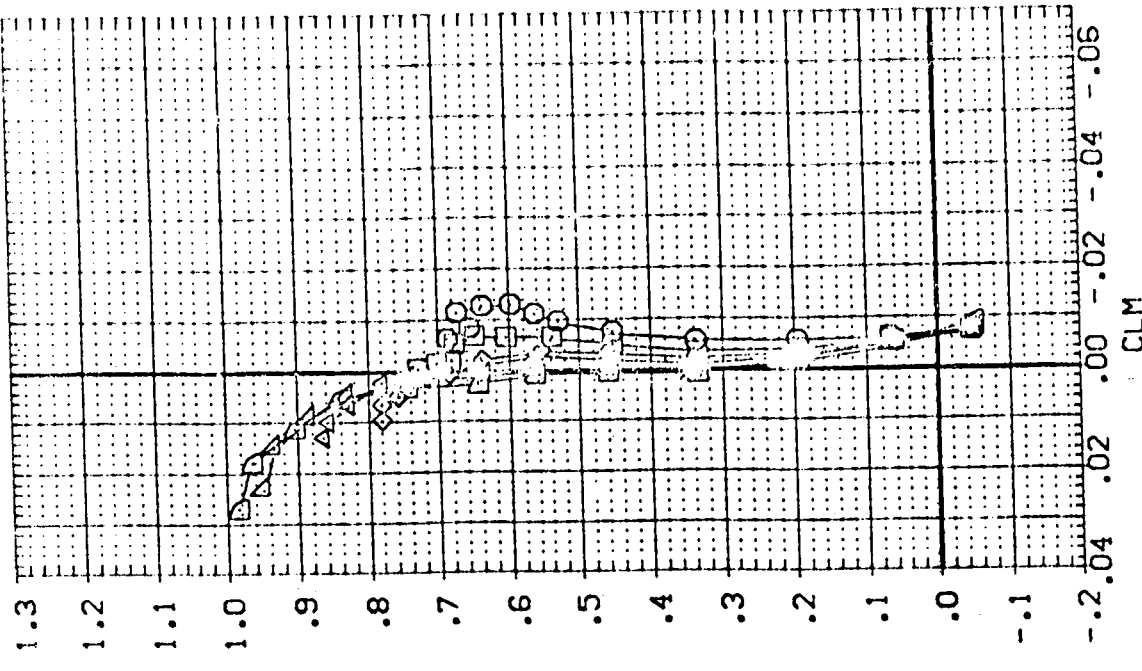
REFERENCE INFORMATION
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 LREF 25.5100
 BREF 20.5056
 YWRP .16
 XWRP .0000
 ZWRP .0000
 SCALE .0188

BOFLAP .000
 RUOFLR .000
 VINGNG 3.000
 LAMDAF 35.000
 55.000
 65.000
 70.000
 75.000
 78.000

SCALE
 .0188



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGND	ROEFLR	EOE AP	REFERENCE INFORMATION
(005016)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	35.000	3.000	.000	.000	1.73 1.311
(005018)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	55.000	3.000	.000	.000	1.73 1.311
(005019)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	65.000	3.000	.000	.000	1.73 1.311
(005020)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	70.000	3.000	.000	.000	1.73 1.311
(005021)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	75.000	3.000	.000	.000	1.73 1.311
(005022)	LARC 8-ET TPT 644 LC-100 CR3TER(SHIPS) (B*3VFB)	78.000	3.000	.000	.000	1.73 1.311

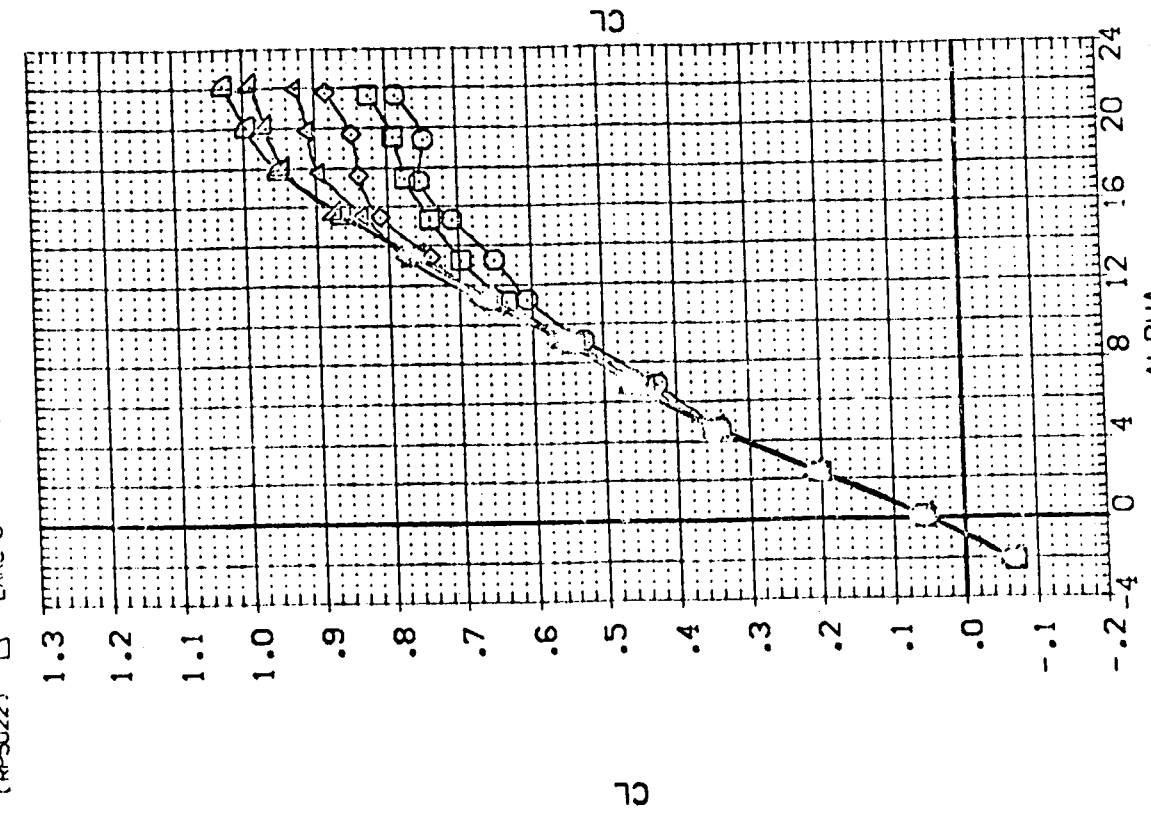
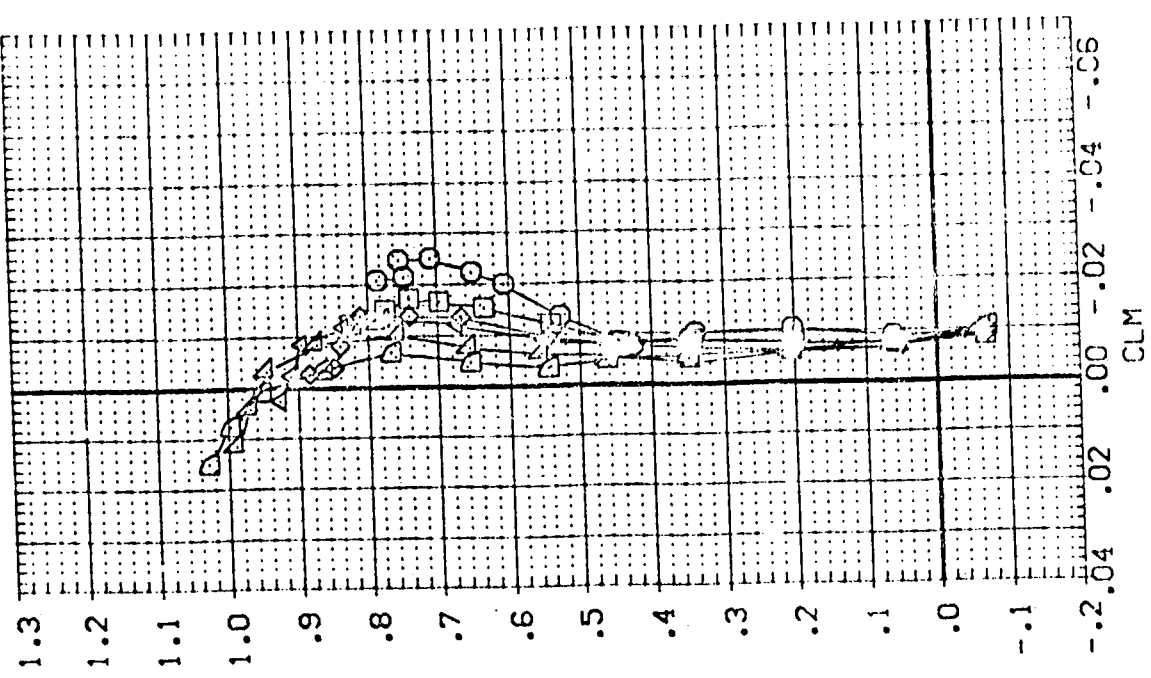


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80



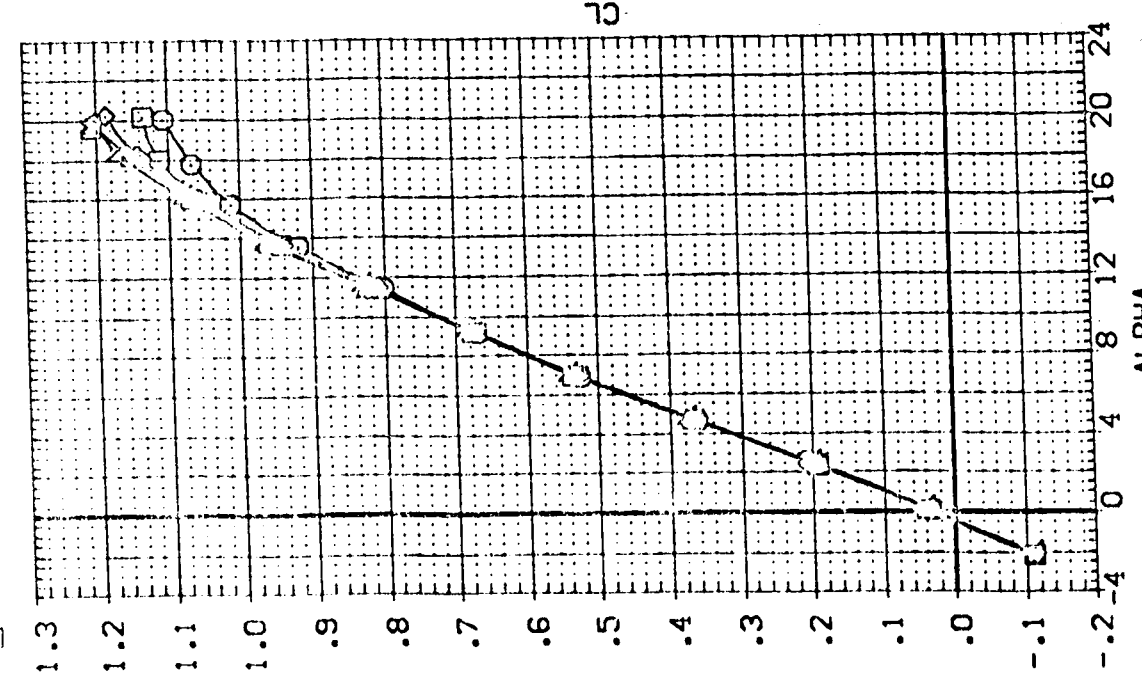
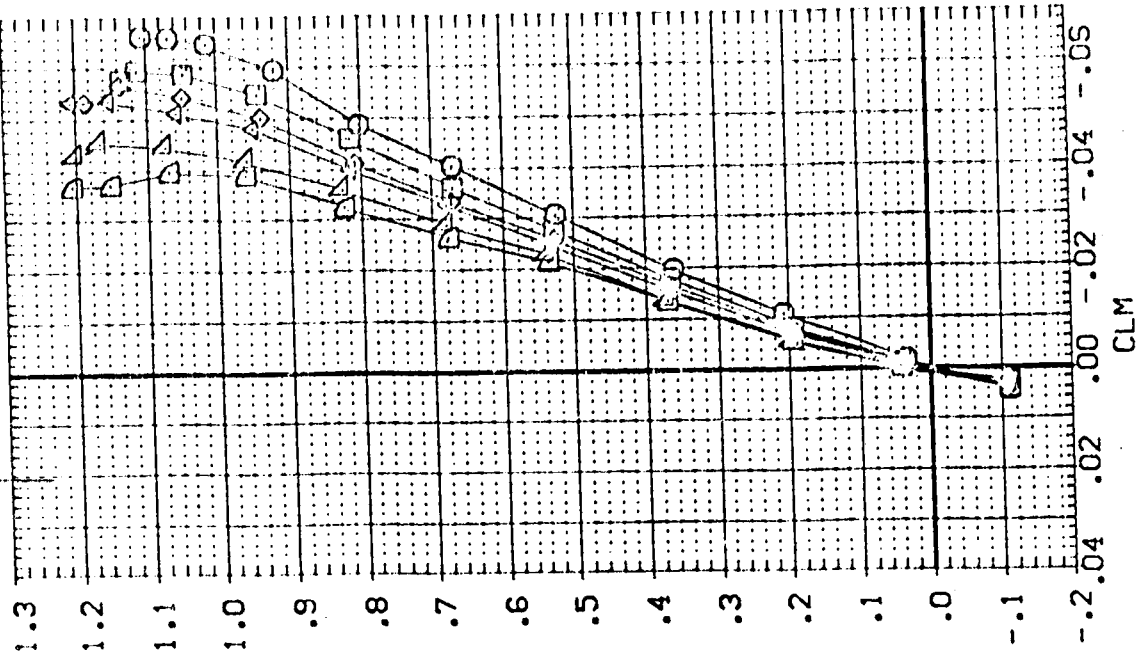
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INFORMATION
(RP5016)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	SREF 173.1312
(RP5018)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	LREF 25.5100
(RP5019)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	YREF 20.9085
(RP5020)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	XPRP 1.6
(RP5021)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	YMRP .0000
(RP5022)	LARC 8-ET TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	ZMRP .0000
		SCALE .0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90

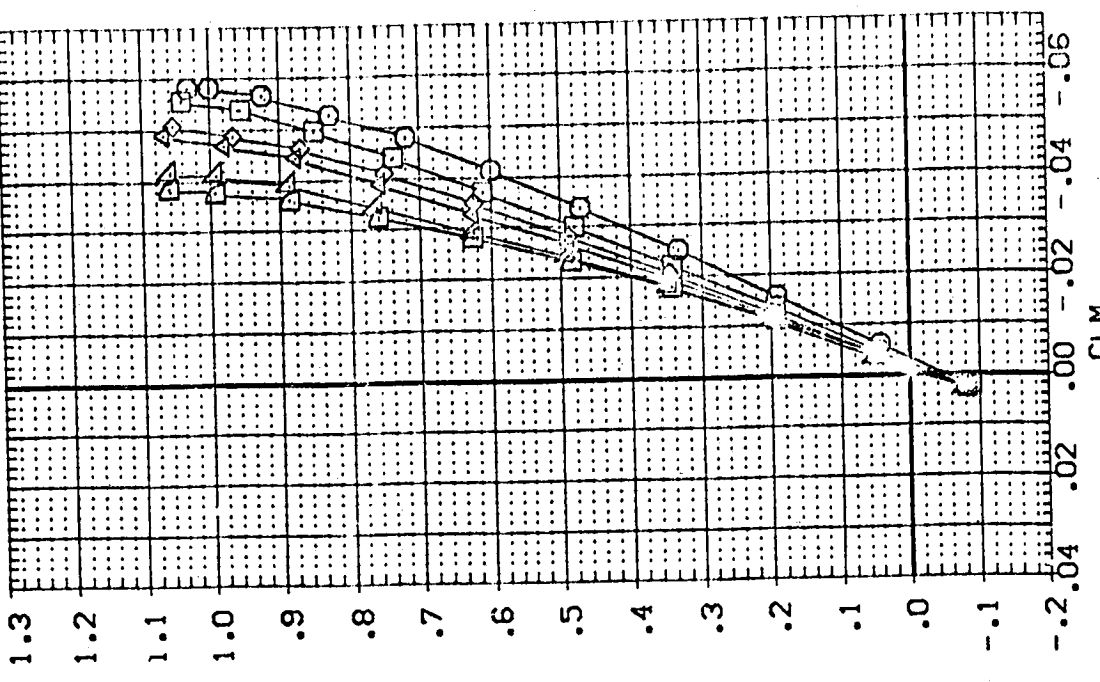
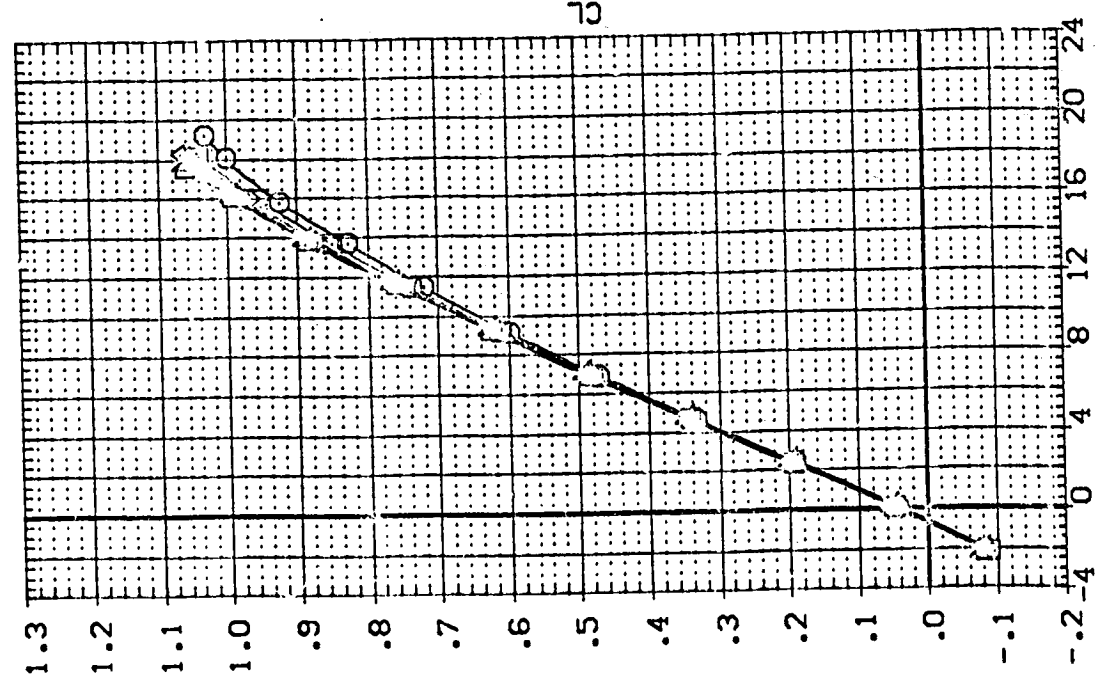
DATA SET SYMBOL: (RPS016), (RPS018), (RPS019), (RPS020), (RPS021), (RPS022)
 CONFIGURATION DESCRIPTION: LARC 8-F, L0-100 CRBITER(SHIPS), LARC 8-F, L0-100 CRBITER(SHIPS), LARC 8-F, L0-100 CRBITER(SHIPS), LARC 8-F, L0-100 CRBITER(SHIPS), LARC 8-F, L0-100 CRBITER(SHIPS), LARC 8-F, L0-100 CRBITER(SHIPS)
 LAMDA-F: 75.000, 55.000, 65.000, 70.000, 75.000, 78.000
 WING: 3.000, 3.000, 3.000, 3.000, 3.000, 3.000
 RUDEL: .000, .000, .000, .000, .000, .000
 BOFLAP: .000, .000, .000, .000, .000, .000
 REFERENCE INFORMATION: SREF 173.1312, LREF 51.000, BREF 80.000, XMRP 8.000, YMRP .000, ZMRP .000, SCALE 1.0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
 (CD)MACH = .98



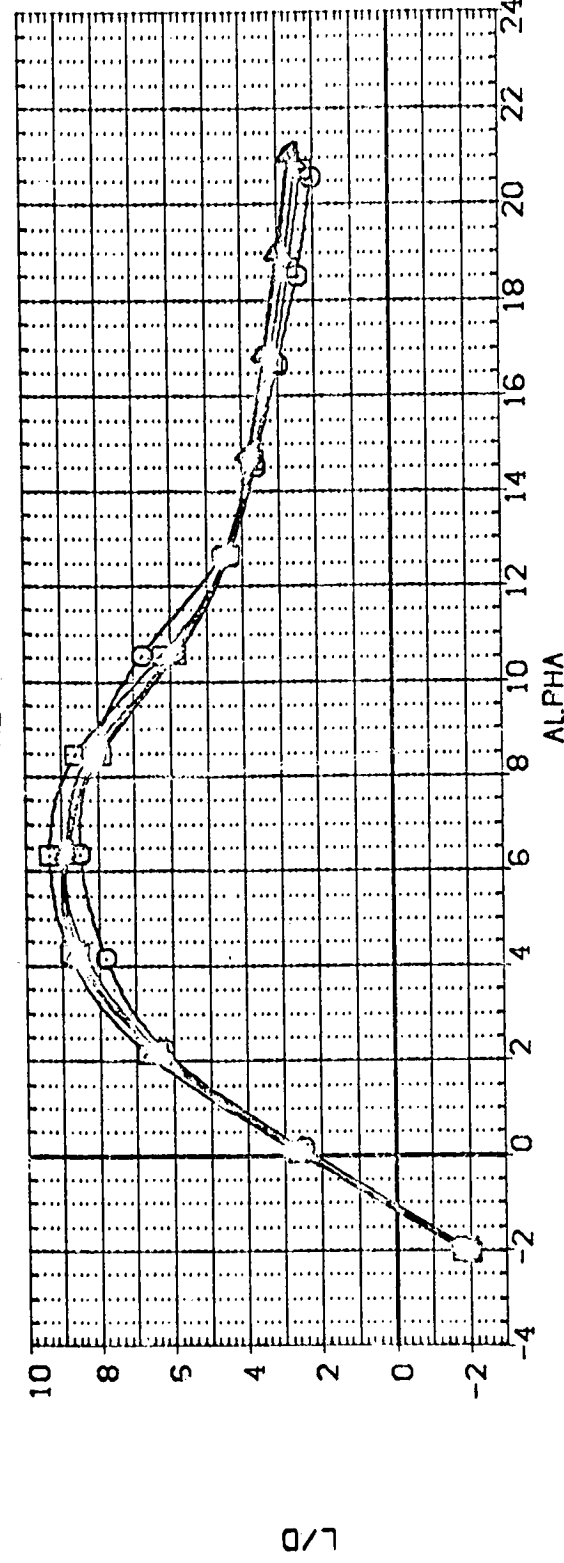
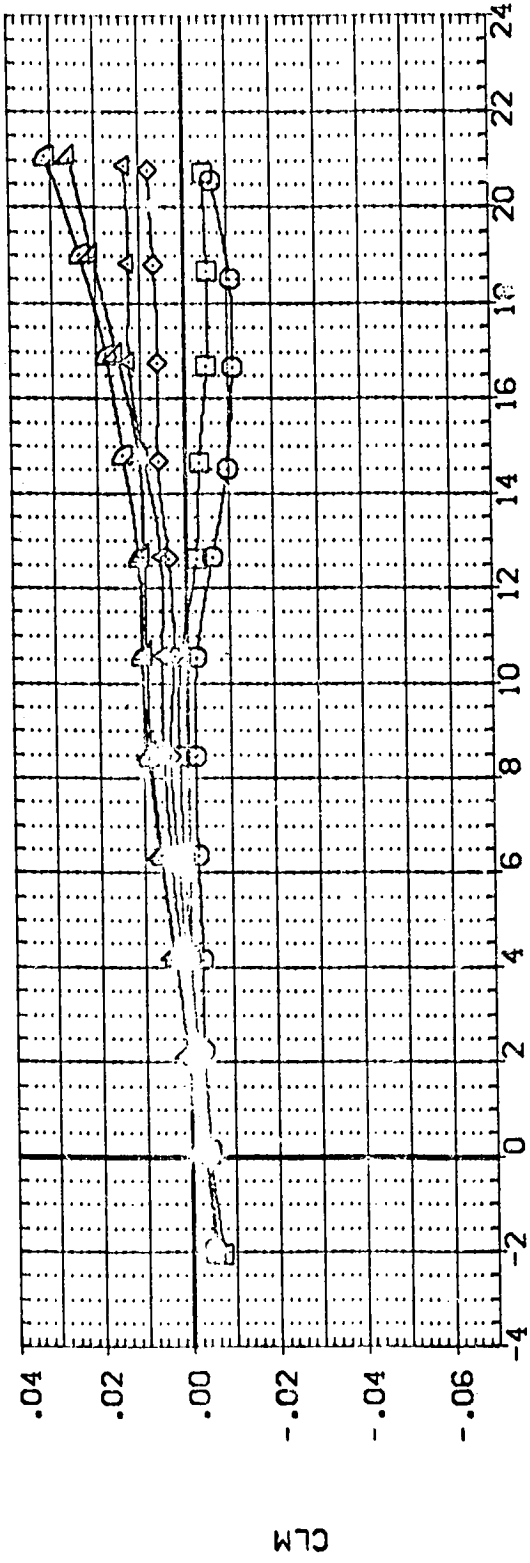
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ. IN.
(RP5018)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RP5019)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.9056 INCHES
(RP5020)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XMRP 16.8633 INCHES
(RP5021)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YMRP .0000 INCHES
(RP5022)	LARC 8-FT TPT 644 LO-100 CRBITTER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188 SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(E)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	(BV3VFB)	LAMDAF	VINGNO	RUSFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ. IN.
(RP5018)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RP5019)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	65.000	3.000	.000	.000	XREF 20.8533 INCHES
(RP5020)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	70.000	3.000	.000	.000	YMRP .0000 INCHES
(RP5021)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	75.000	3.000	.000	.000	ZMRP .0000 INCHES
(RP5022)	LARC 8-FT TPT 644 LO-100 CR31TER(SHIPS)	(BV3VFB)	78.000	3.000	.000	.000	SCALE .0188

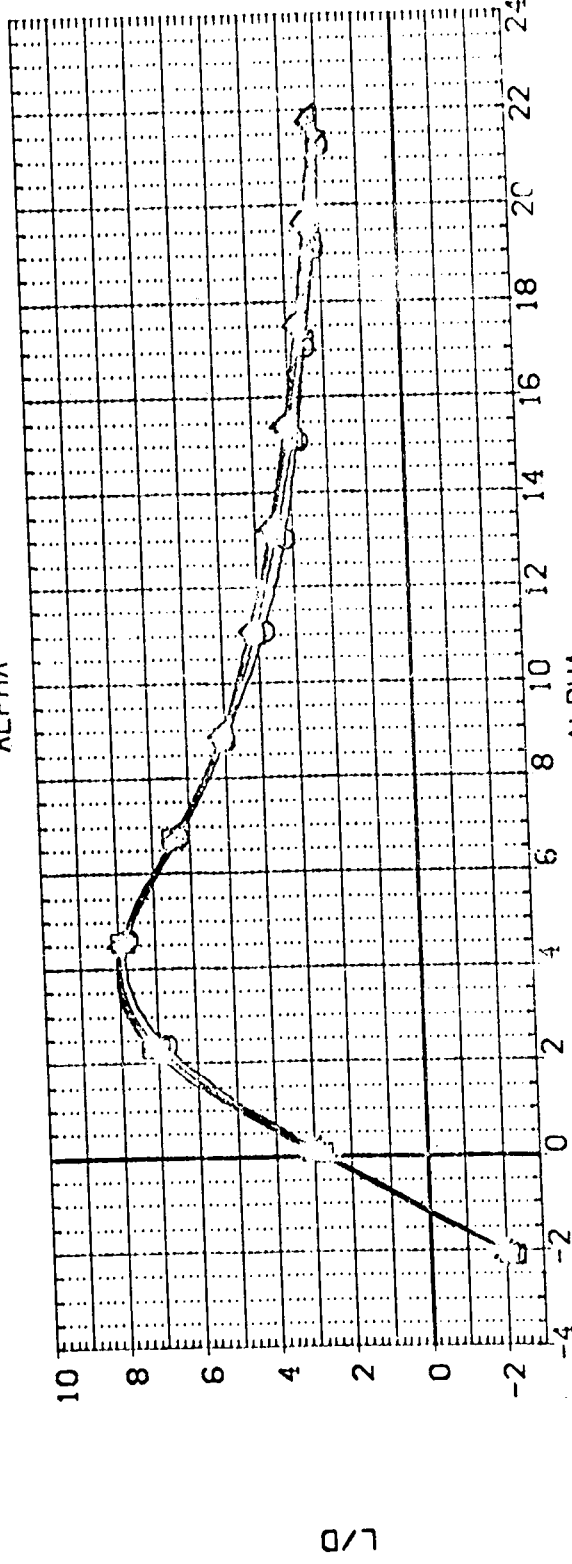
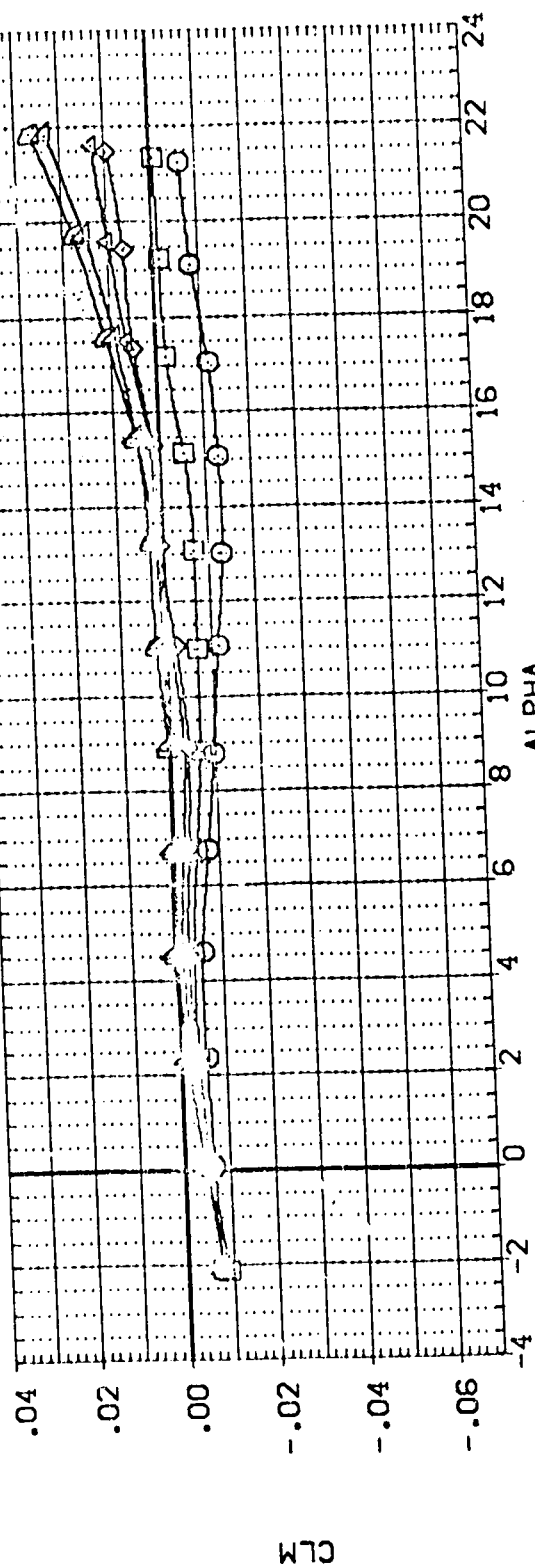


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(A)MACH = .35



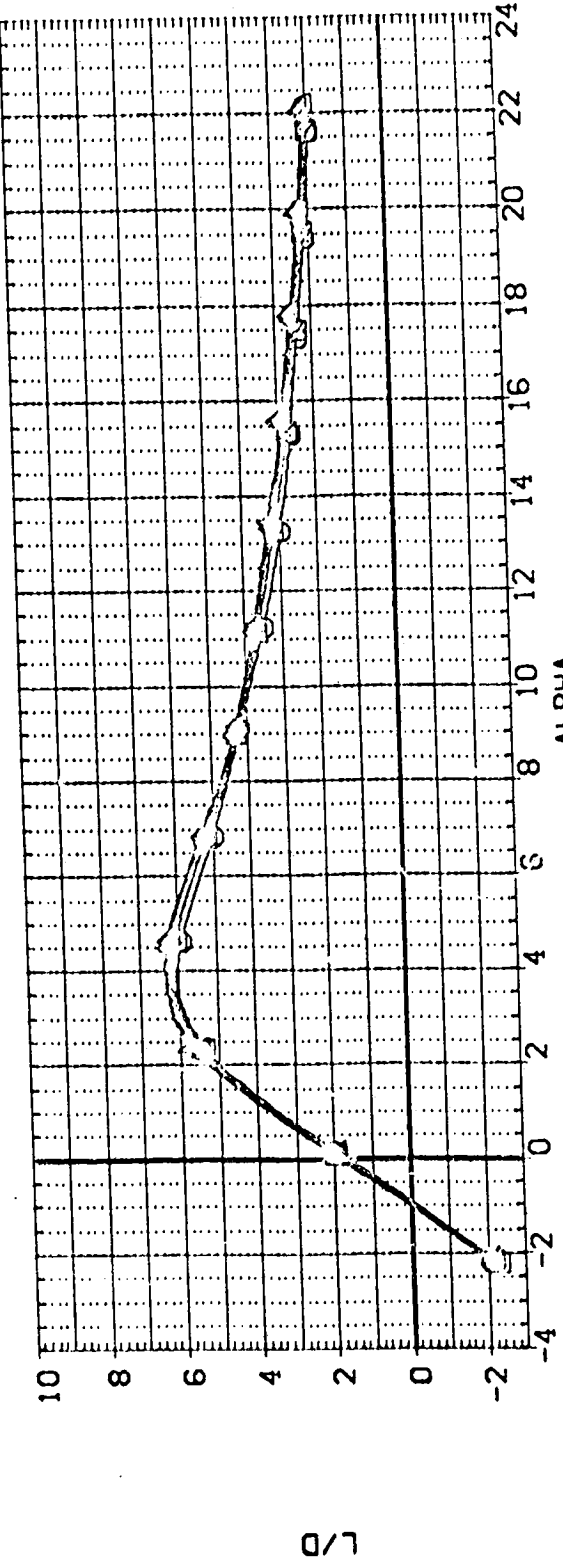
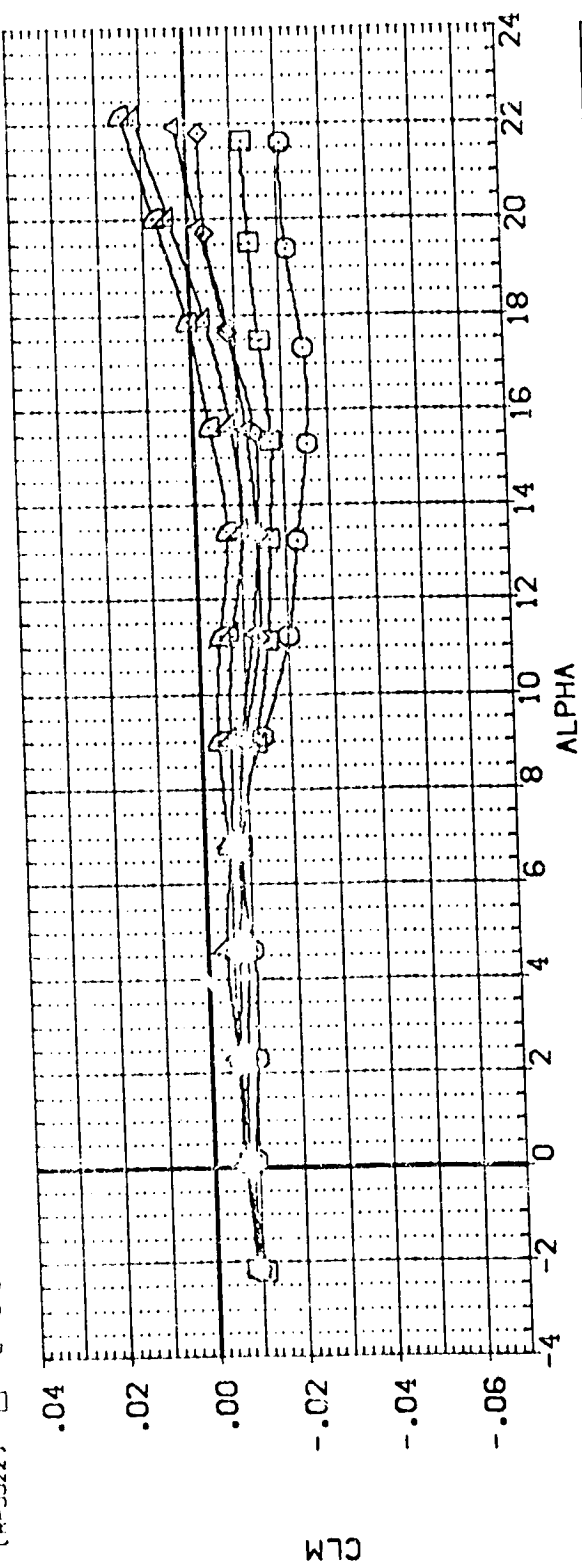
DATA SET SYMBO	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUDFLR	BDFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312
(RPS018)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100
(RPS019)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	65.000	3.000	.000	.000	BREF 23.9000
(RPS020)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	YMRP 16.8533
(RPS021)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	ZMRP .0000
(RPS022)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	SCALE .0:88



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUDFLR	SOFLAP	REFERENCE INFORMATION
(RPS015)	UARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 179.1312
(RPS018)	UARC 8-F1 TPT 644 LC-100 C59 TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LBREF 26.5100
(RPS019)	UARC 8-F1 TPT 644 LC-100 C59 TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BRREF 22.9133
(RPS020)	UARC 8-F1 TPT 644 LC-100 C59 TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	VMREF 16.6633
(RPS021)	UARC 8-F1 TPT 644 LC-100 C59 TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	VMREF 16.6633
(RPS022)	UARC 8-F1 TPT 644 LC-100 C59 TER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZMREF 16.6633
						SCALE .0188

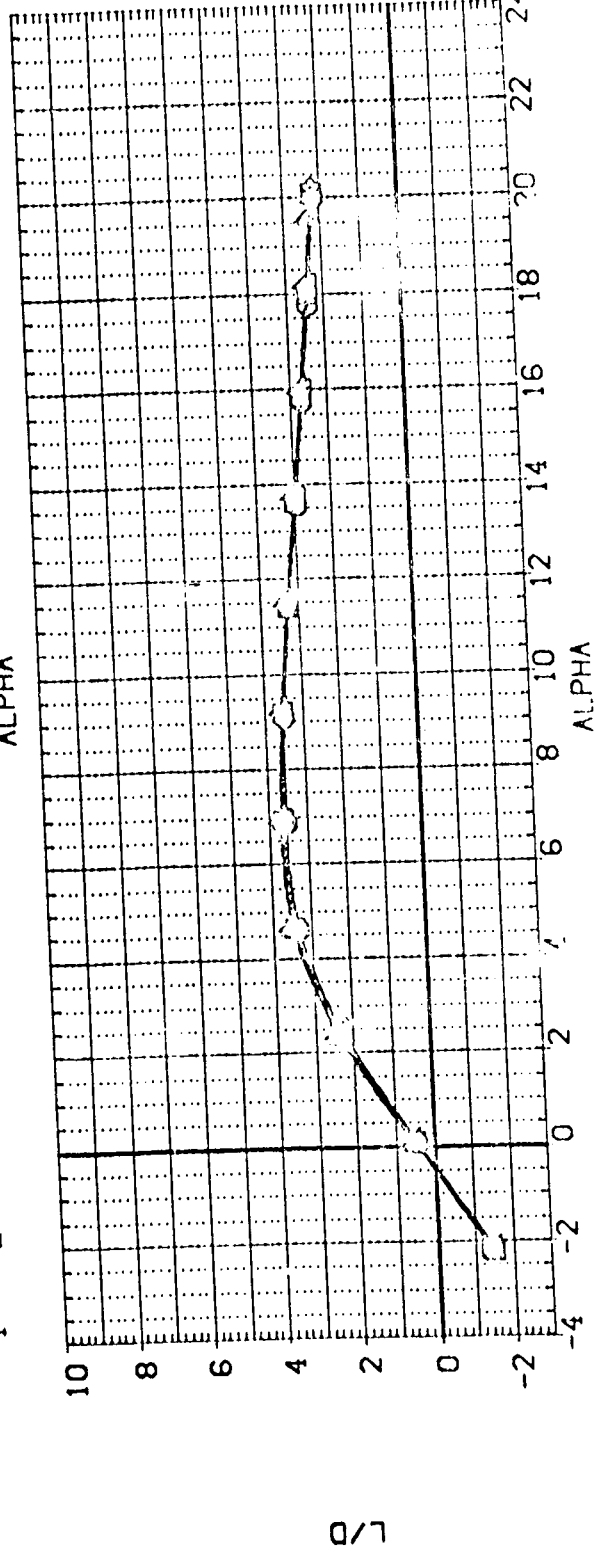
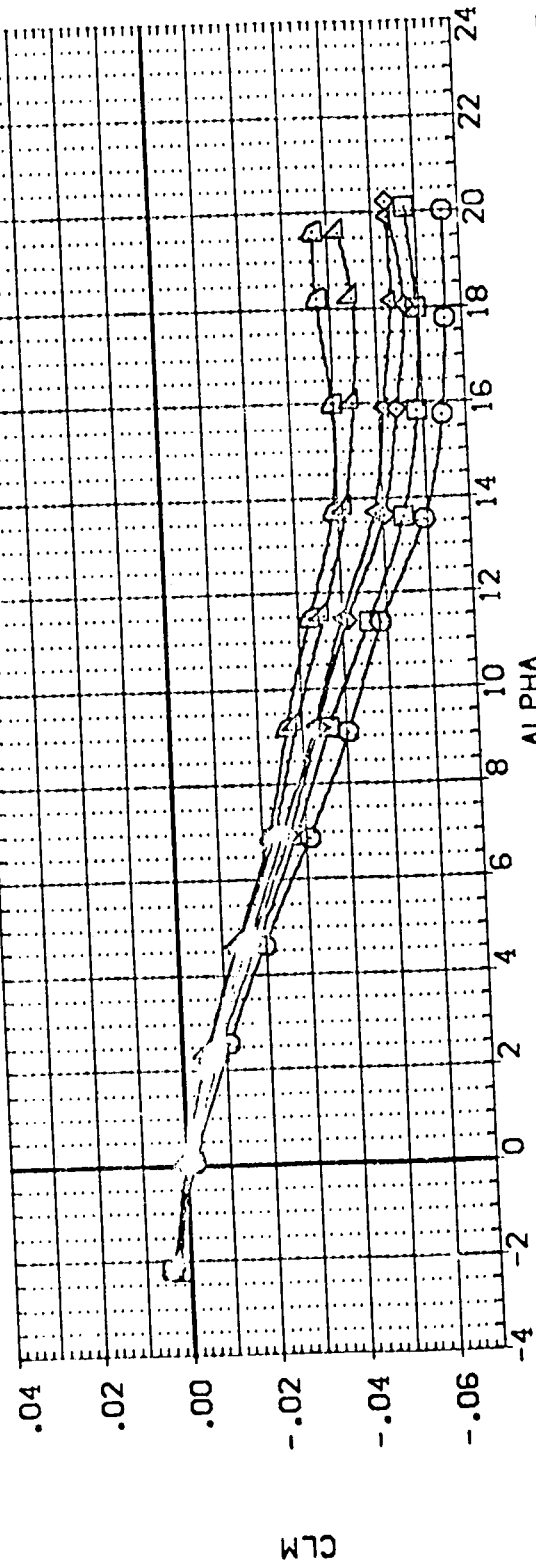


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUFILR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LG-100 CRB:ITER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SC.IN.
(RP5019)	LARC 8-FT TPT 644 LG-100 CRB:ITER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RP5020)	LARC 8-FT TPT 644 LG-100 CRB:ITER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.8633 INCHES
(RP5021)	LARC 8-FT TPT 644 LG-100 CRB:ITER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	XPRP .0000 INCHES
(RP5022)	LARC 8-FT TPT 644 LG-100 CRB:ITER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZPRP .0000 INCHES
						SCALE .0188 SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

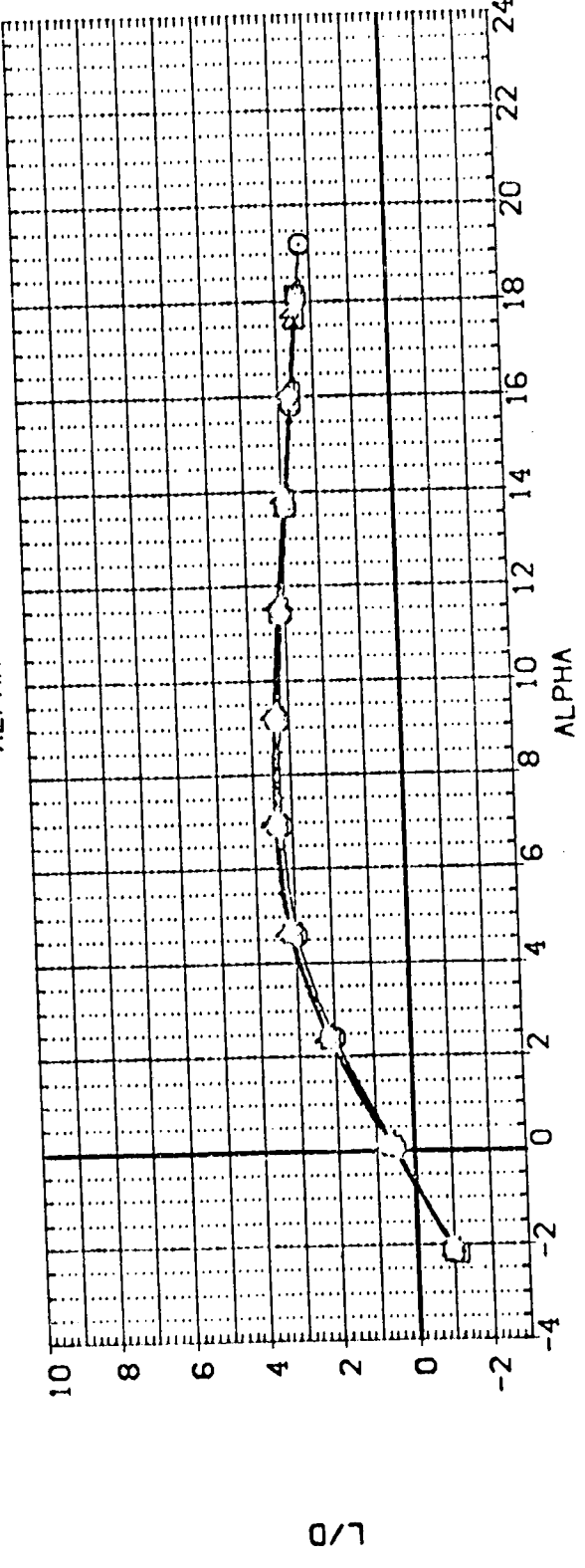
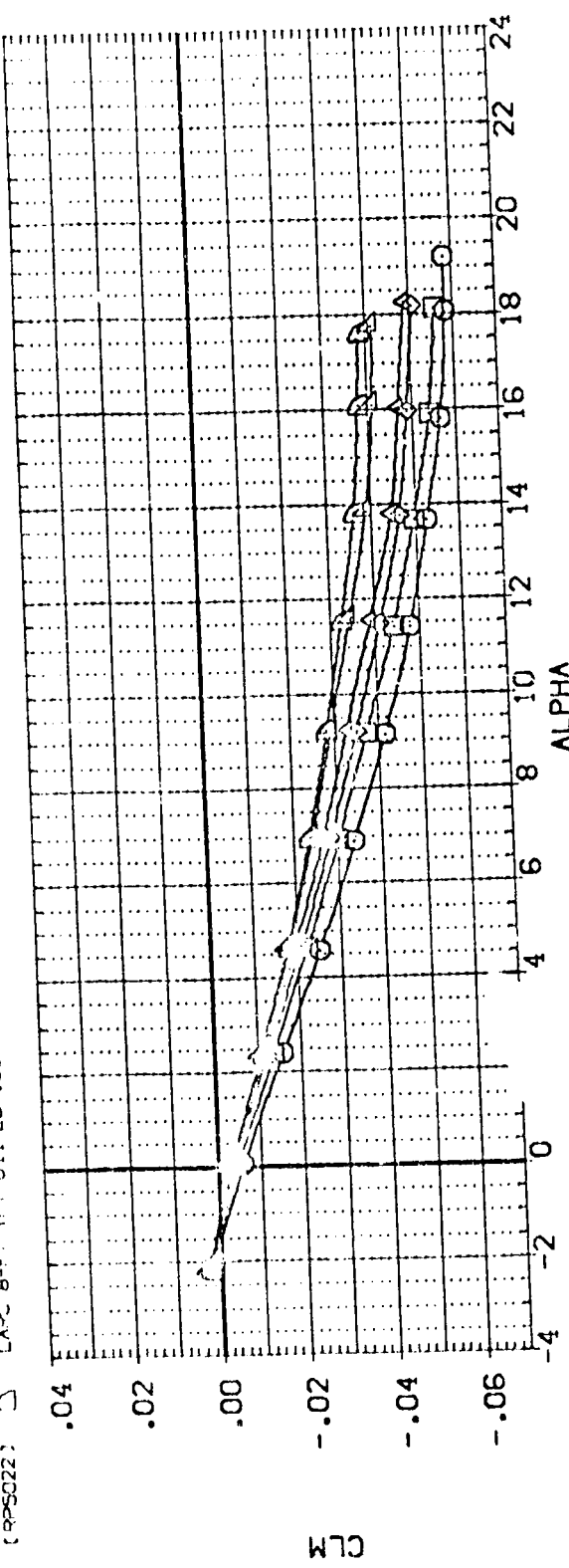
(O)MACH = .98

DATA SET SYMBOL
 (RPS016)
 (RPS018)
 (RPS019)
 (RPS020)
 (RPS021)
 (RPS022)

CONFIGURATION DESCRIPTION
 LASC B-LET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LASC B-LET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LASC B-LET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LASC B-LET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LASC B-LET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)

LAMCAF WINGMG RUOFLR BOFLAP
 35.000 3.000 .000 .000
 55.000 3.000 .000 .000
 65.000 3.000 .000 .000
 72.000 3.000 .000 .000
 75.000 3.000 .000 .000
 78.000 3.000 .000 .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 23.5000
 BREF 23.5000
 VMREF 16.0000
 YMRP .0000
 ZMRP .0000
 SCALE 0.189

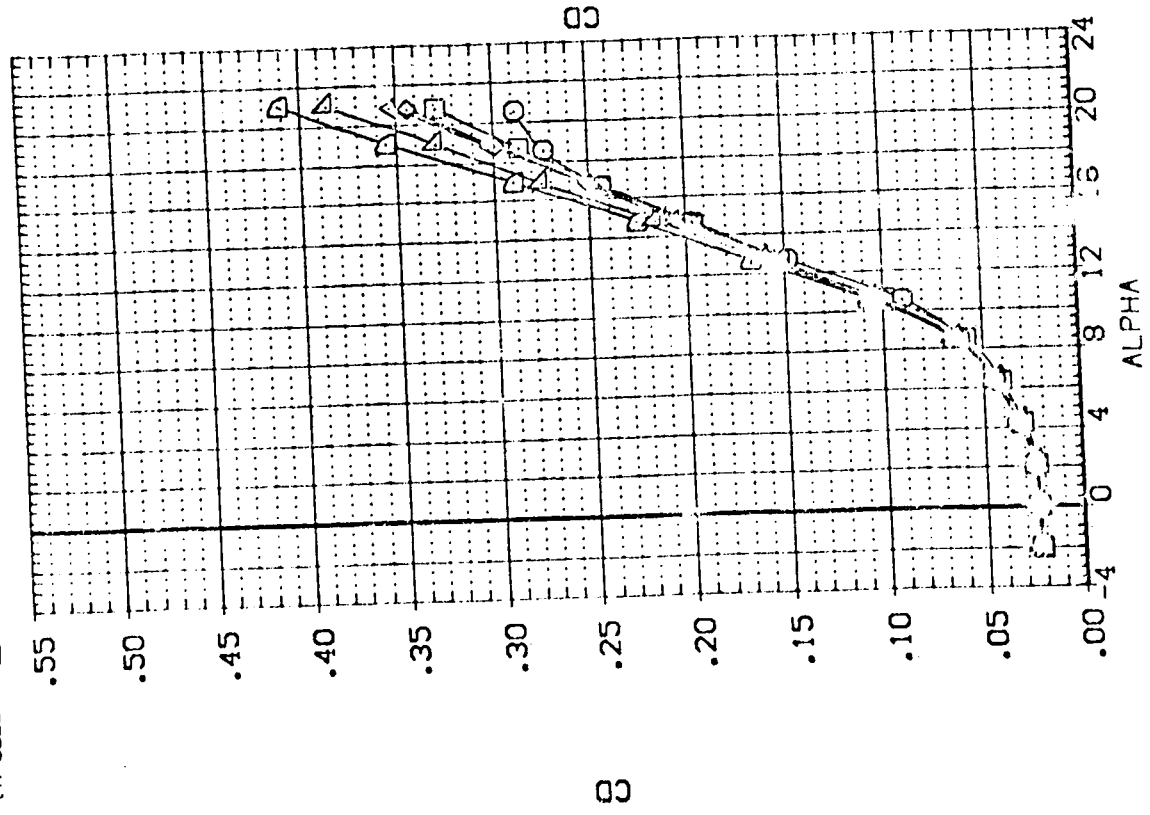
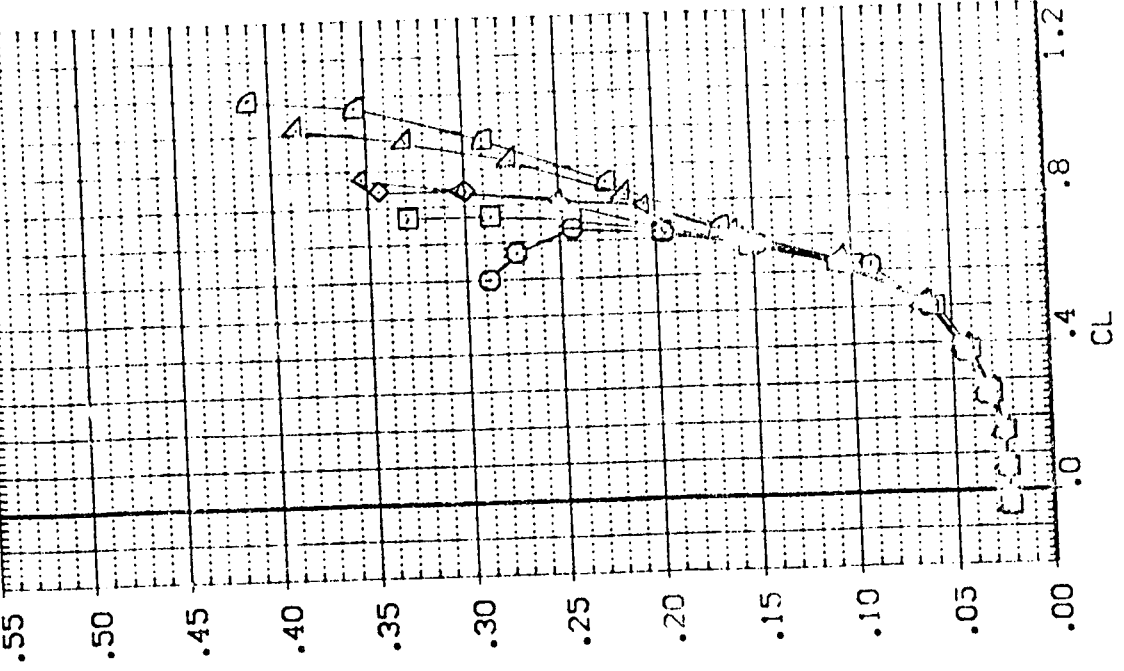


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(E)MACH = 1.20



DATA SET SYMBOLS: (RPS016), (RPS019), (RPS019), (RPS020), (RPS021), (RPS022)
 CONFIGURATION DESCRIPTION: LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB), LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB), LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB), LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB), LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB), LARC 8-FT TPT 644 LG-100 CRBITER(SHIP) (BV3VFB)
 LAMDAF: 35.000, 55.000, 65.000, 70.000, 75.000, 78.000
 WINNO: 3.000, 3.000, 3.000, 3.000, 3.000, 3.000
 RUOFLR: .000, .000, .000, .000, .000, .000
 BOFLAP: .000, .000, .000, .000, .000, .000
 REFERENCE INFORMATION: SREF: 173.1312, LREF: 25.5100, BREF: 20.5055, XREF: 16.8633, YREF: .0000, ZREF: .0000, SCALE: 0.189



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

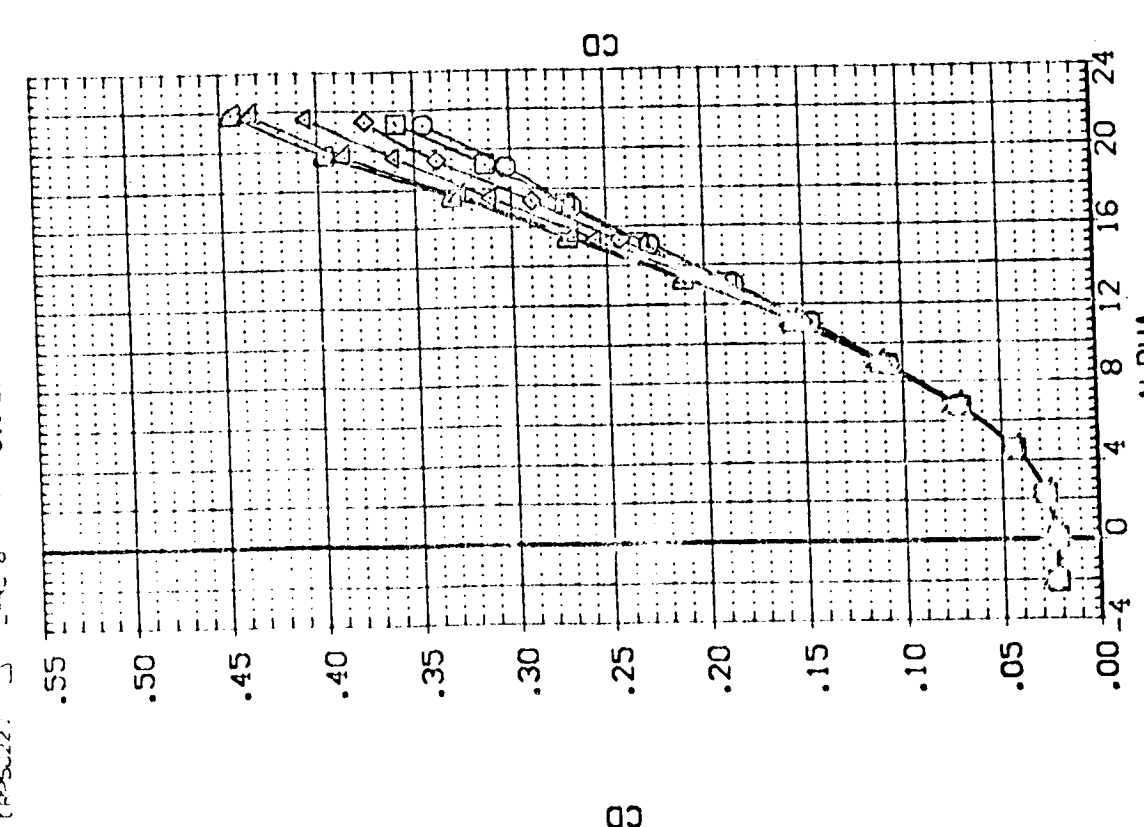
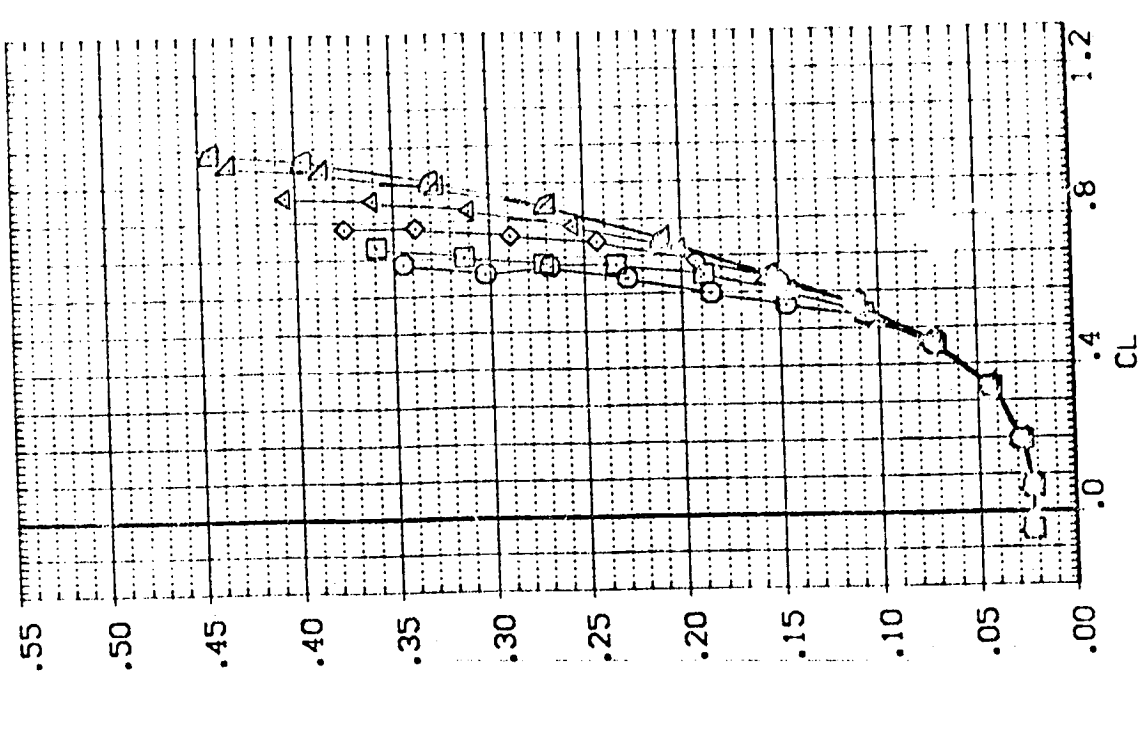
(A)MACH = .35

DATA SET SYMBOLS
 (P05016)
 (P05018)
 (P05019)
 (P05020)
 (P05021)
 (P05022)

CONFIGURATION DESCRIPTION
 WING 8-ET TPT 644 LC-100 CSB|TER(SHIPS) (B*3|VFB)
 WING 9-ET TPT 644 LC-100 CSB|TER(SHIPS) (B*3|VFB)
 WING 8-ET TPT 644 LC-100 CSB|TER(SHIPS) (B*3|VFB)
 WING 8-ET TPT 644 LC-100 CSB|TER(SHIPS) (B*3|VFB)
 WING 8-ET TPT 644 LC-100 CSB|TER(SHIPS) (B*3|VFB)

LAMDAF WINGND RUDELR BOFLAP
 35.000 3.000 .000 .000
 55.000 3.000 .000 .000
 65.000 3.000 .000 .000
 75.000 3.000 .000 .000
 78.000 3.000 .000 .000

REFERENCE INFORMATION
 SREF 173.312
 LREF 25.500
 BREF 70.868
 XMRP .16
 YMRP .000
 ZMRP .000
 SCALE .0138



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80

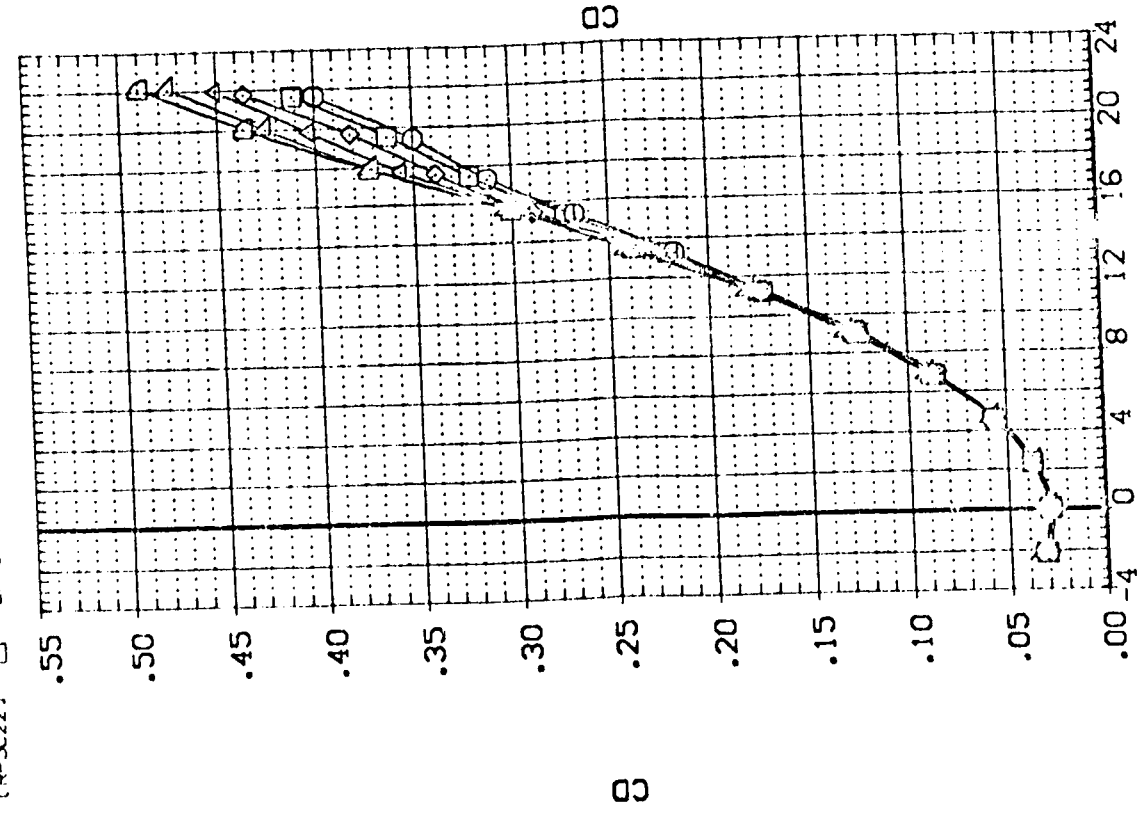
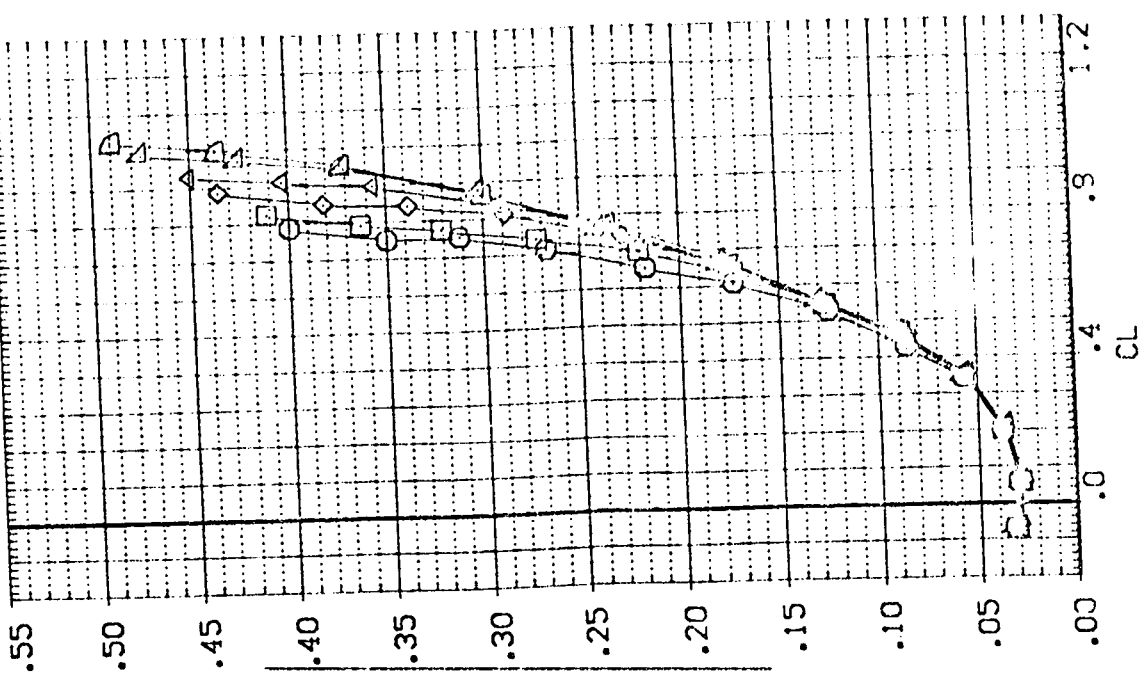


DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(RP5016)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	SREF 173.1312	SC.IN. 1.000
(RP5018)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	LREF 25.5100	SCALES 1.000
(RP5019)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	BREF 23.8088	SCALES 1.000
(RP5020)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	XREF .16	SCALES 1.000
(RP5021)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	YREF .0000	SCALES 1.000
(RP5022)	LARC 8-FT TPT 644 LC-100 CRBITER(SH)PS (B)3VFB)	ZREF .0000	SCALES 1.000
		SCALE .0158	SCALE 1.000

LAMDAF VINGND RUOFLR BOFLAP

25.000	3.000	.000	.000
55.000	3.000	.000	.000
65.000	3.000	.000	.000
70.000	3.000	.000	.000
75.000	3.000	.000	.000
78.000	3.000	.000	.000



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(CJMACH = .90

DATA SET SYMBOL
 (R95016)
 (R95018)
 (R95019)
 (R95020)
 (R95021)
 (R95022)

CONFIGURATION DESCRIPTION
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)
 LASC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (B3VFB)

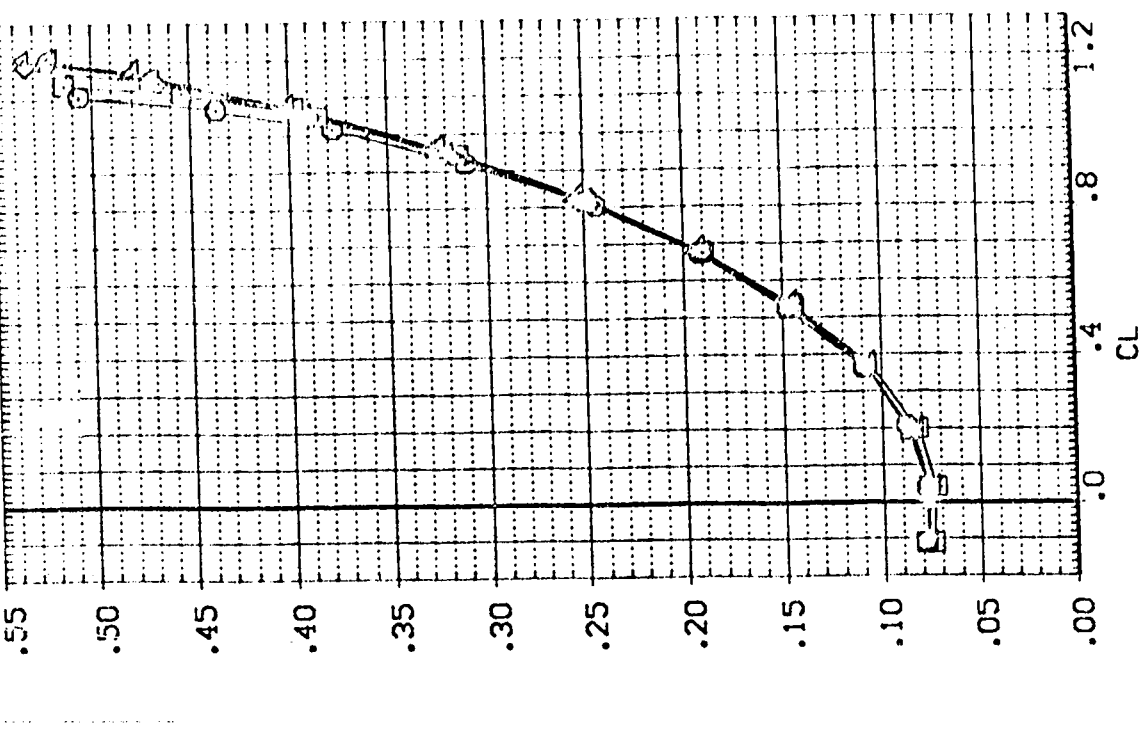
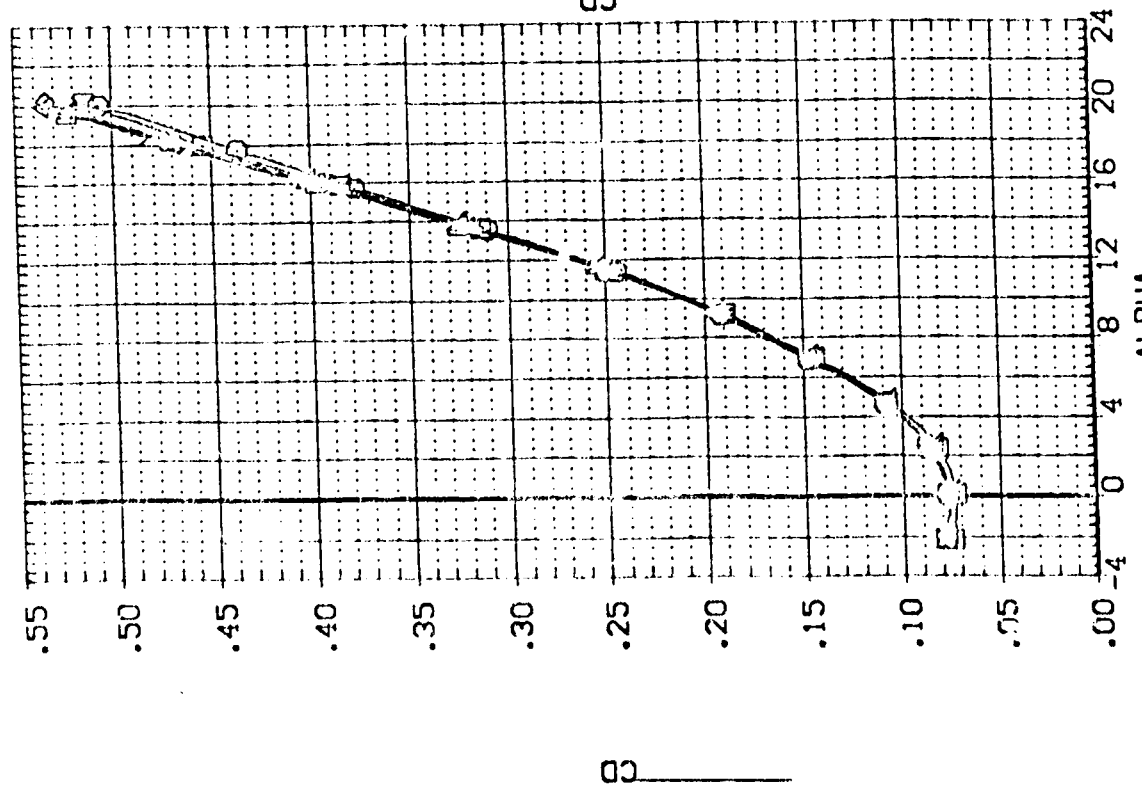
LAMDAF 35.000
 55.000
 65.000
 70.000
 75.000
 78.000

VINGNO 3.000
 3.000
 3.000
 3.000
 3.000
 3.000

RUDFLR .000
 .000
 .000
 .000
 .000
 .000

BOFLAP .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF .73 1312 SCALING
 LREF 25 5100 SCALING
 BREF 20 5056 SCALING
 XREF .16 SCALING
 YREF .0000 SCALING
 ZREF .0000 SCALING
 SCALE 0.186 SCALING



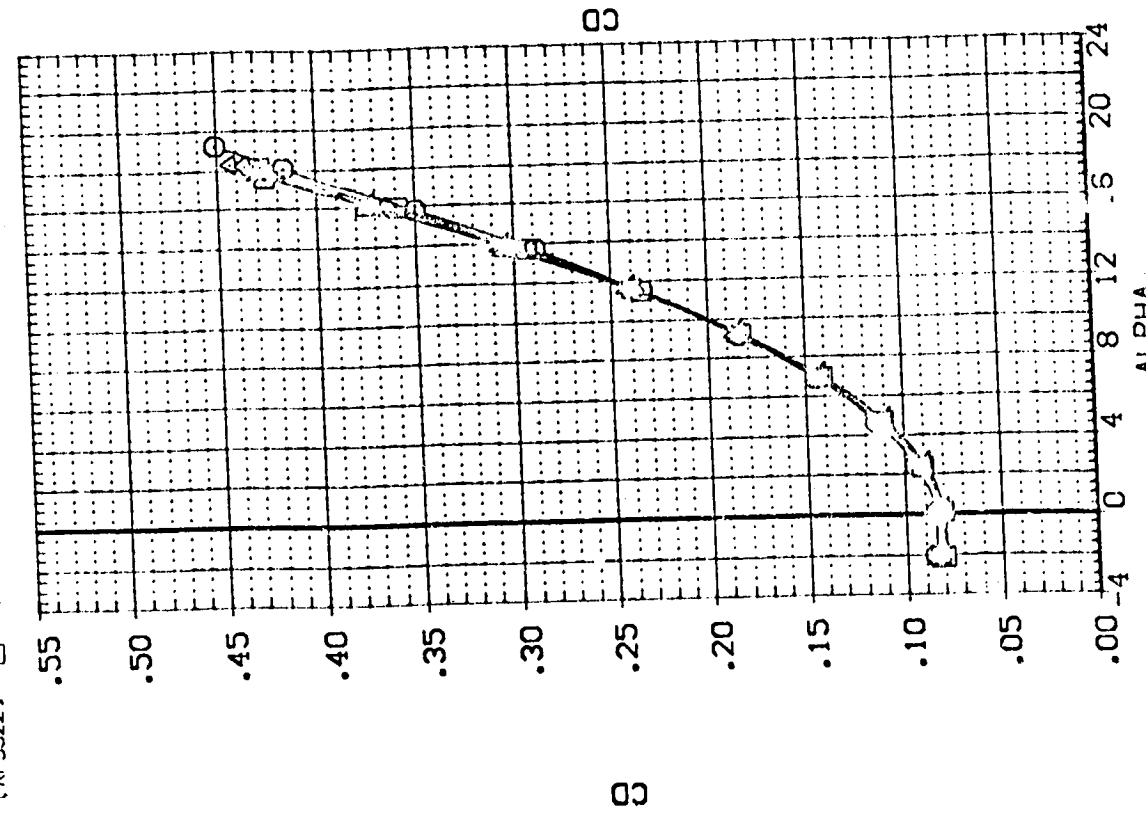
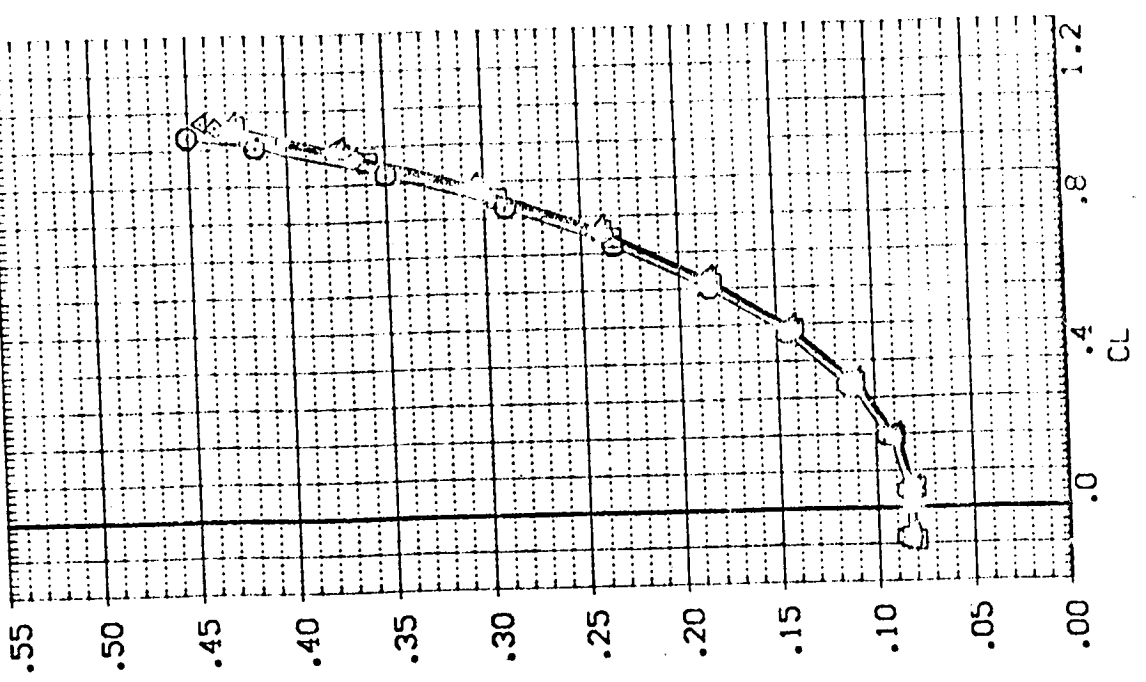
EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(O)MACH = .98



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMDAF WINGNG RUOFLR BOFLAP REFERENCE INFORMATION SO. N.

(RP5016)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312	INCHES
(RP5018)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5400	INCHES
(RP5019)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	65.000	3.000	.000	.000	BREF 20.9055	INCHES
(RP5020)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	XREF 16.8333	INCHES
(RP5021)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	YREF .0000	INCHES
(RP5022)	LARC 8-FT TPT 644 LC-100 CRBTER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	ZREF .0000	INCHES
						SCALE .0188	SCALE

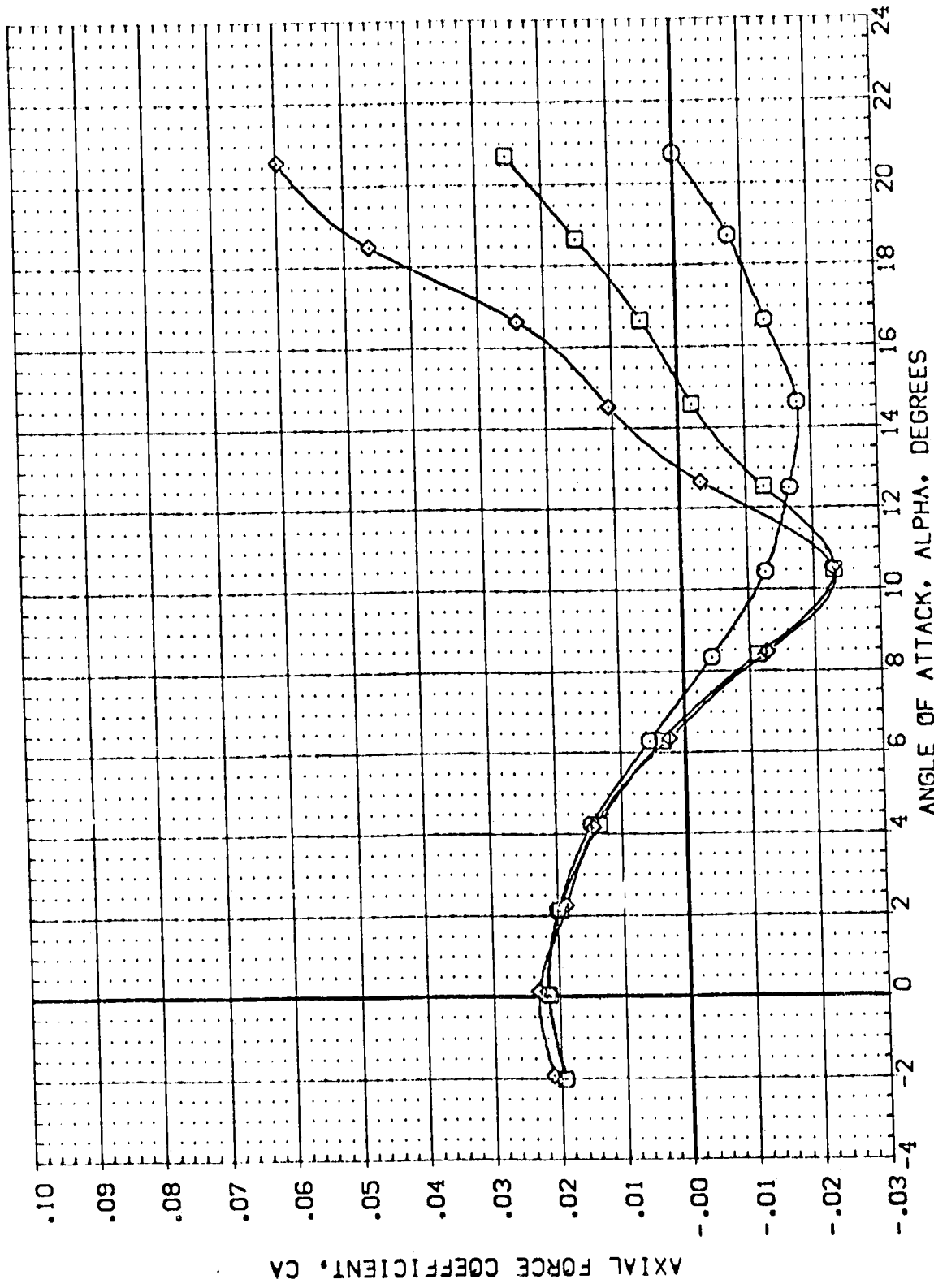


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMDAF WINGAR RUDELR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

(RP5001) LARC 8-FT TPT 644 LQ-100 CR311TER(SHIPS) (BVI1VFB) 53.200 1.000 .000 .000 .000
 (RP5007) LARC 8-FT TPT 644 LQ-100 CR311TER(SHIPS) (BVI2VFB) 45.800 2.000 .000 .000 .000
 (RP5016) LARC 8-FT TPT 644 LQ-100 CR311TER(SHIPS) (BVI3VFB) 35.000 3.000 .000 .000 .000

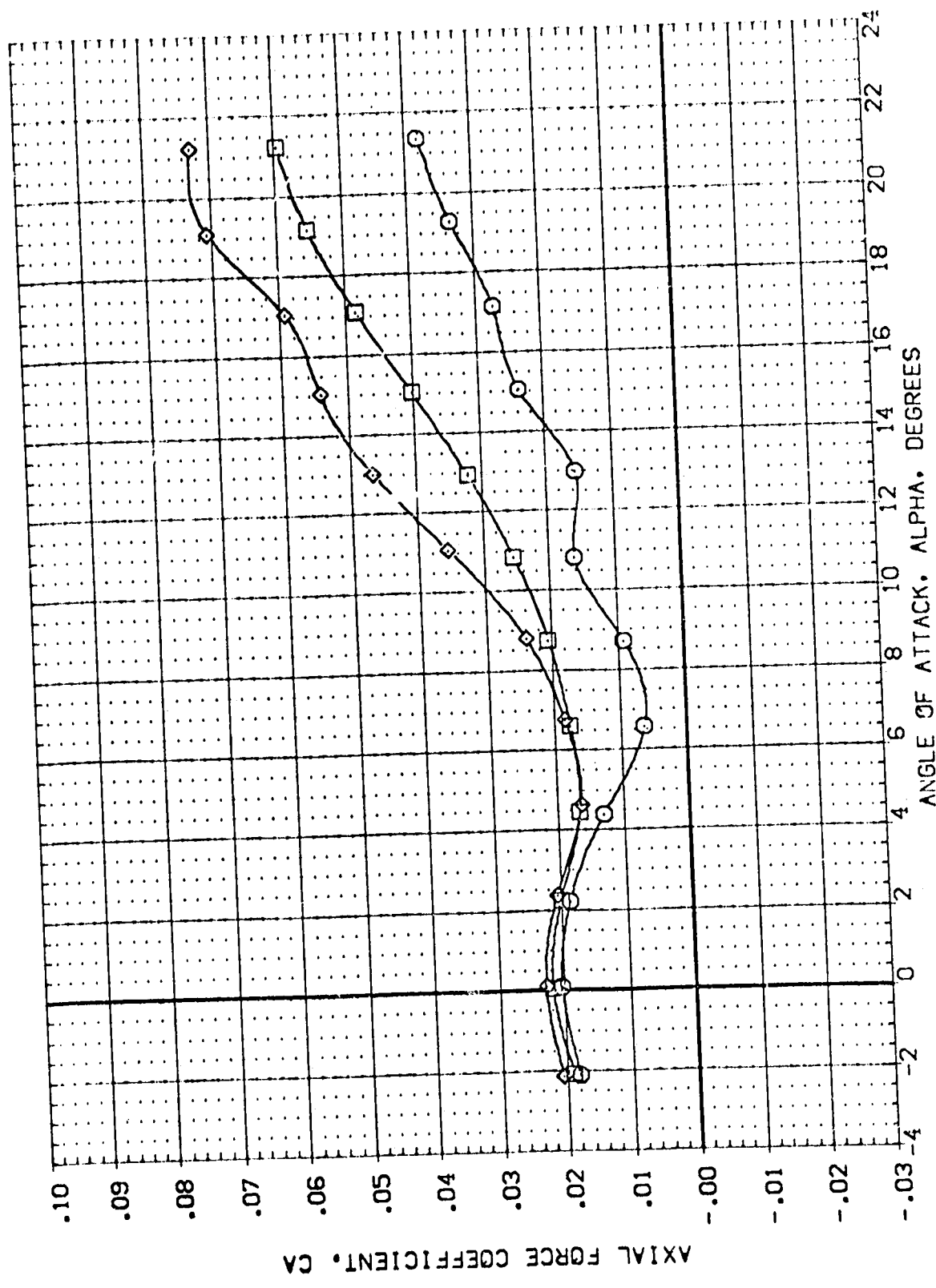


EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMP VINGNO RUDFLR BDFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS
 (RPS001) LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB) 53.200 1.000 .000 .000
 (RPS007) LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB) 46.600 2.000 .000 .000
 (RPS016) LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV3VFB) 35.000 3.000 .000 .000



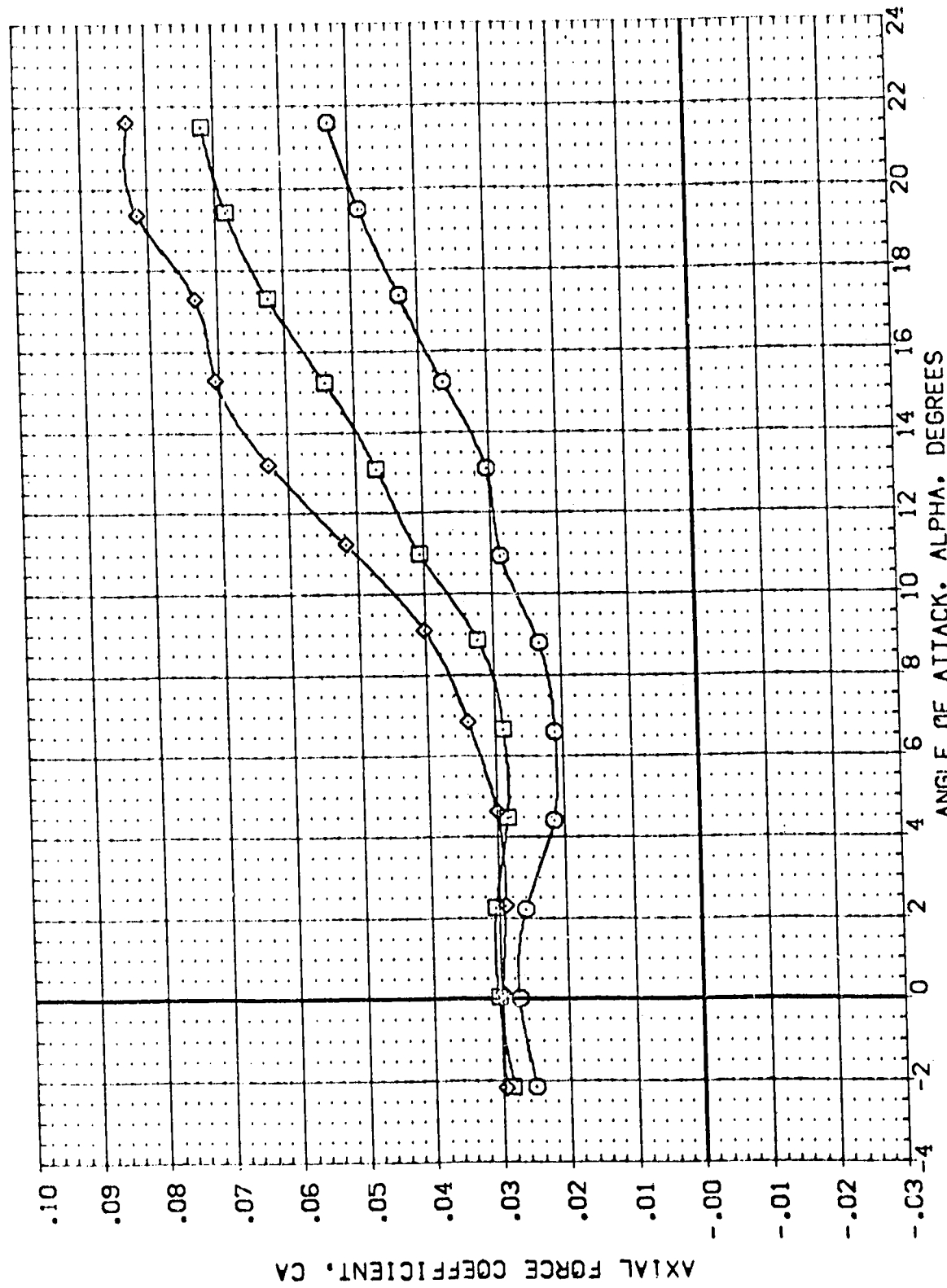
EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80

DATA SET SYMBOLS: \diamond (RPS001) \square (RPS007) \circ (RPS016)
 CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)

LAYDAP: 53.200
 WINGMD: 1.000
 RDOELR: .000
 SOFLAP: .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS



EFFECT OF WING LEADING EDGE SWEEP




(C)MACH = .90

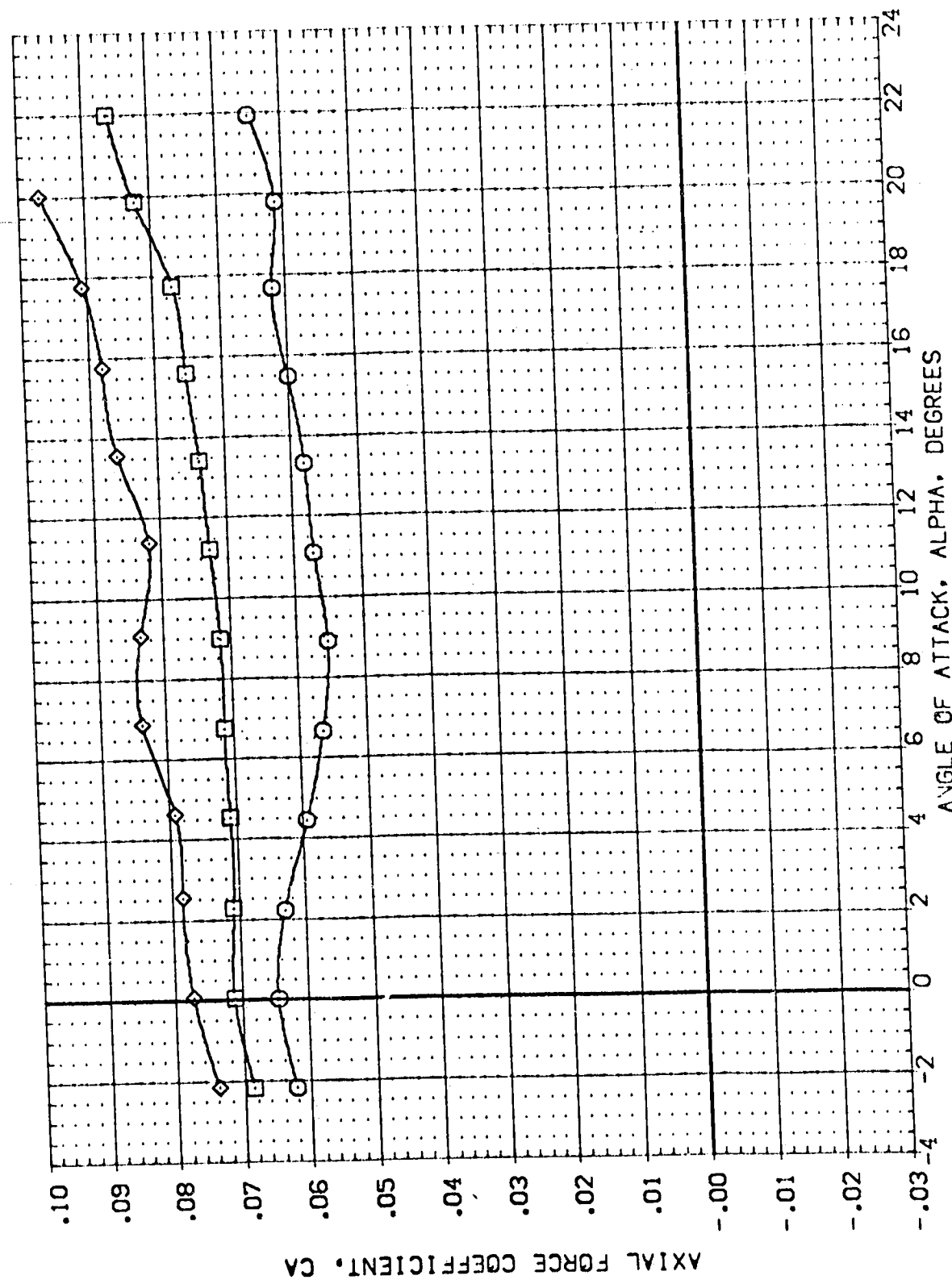
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

SOFLAP .000
 RUOFLR .000
 WINGNO 1.000
 .000
 .000
 .000

LAWDAF 53.200
 46.800
 35.000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (RFS001) 
 (RFS007) 
 (RFS016) 



EFFECT OF WING LEADING EDGE SWEEP

(0)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RFS001) LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB) [BV1VFB]
 (RFS007) LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV2VFB) [BV2VFB]
 (RFS016) LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV3VFB) [BV3VFB]

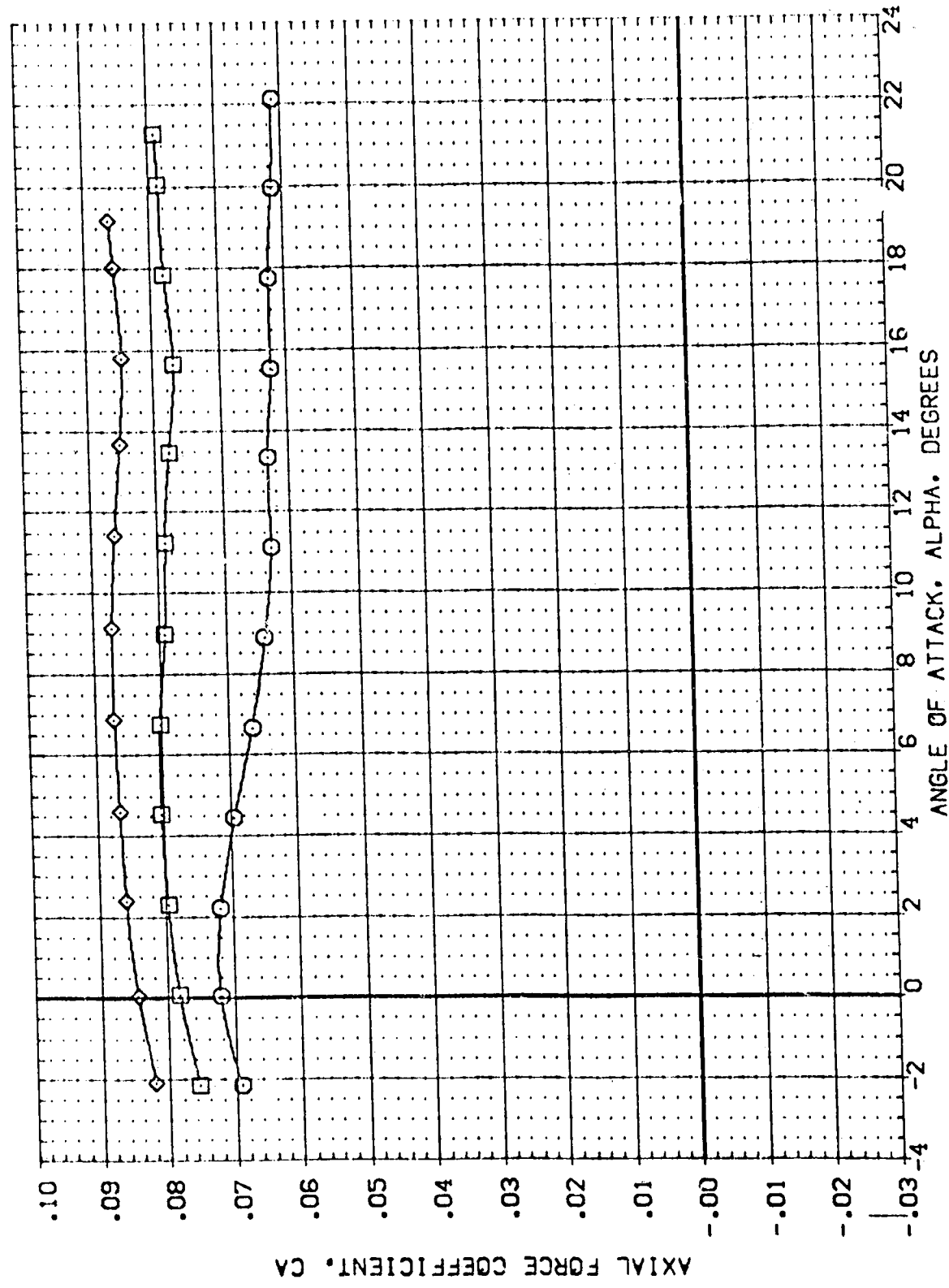
LAMDAF 53.200
 46.800
 35.000

WINGND 1.000
 2.000
 3.000

RUFLR .000
 .000
 .000

BOFLAP .000
 .000
 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS INDIVIDUAL DATASETS



EFFECT OF WING LEADING EDGE SWEEP

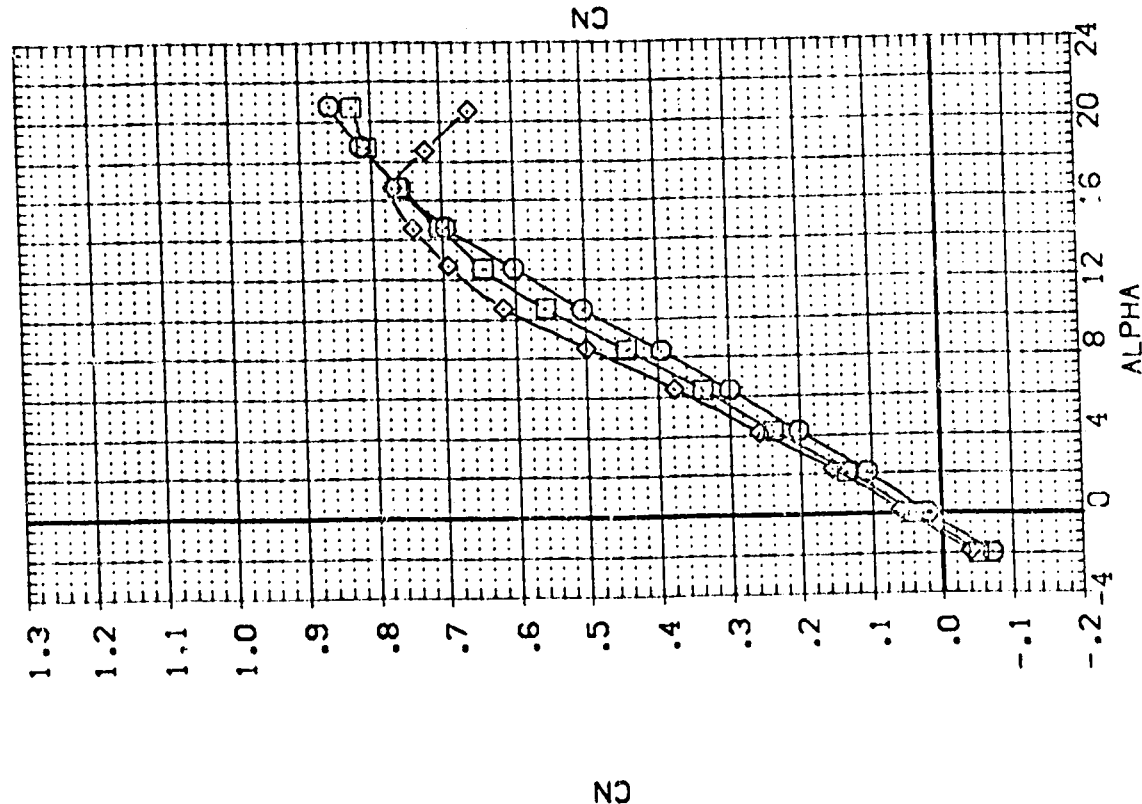
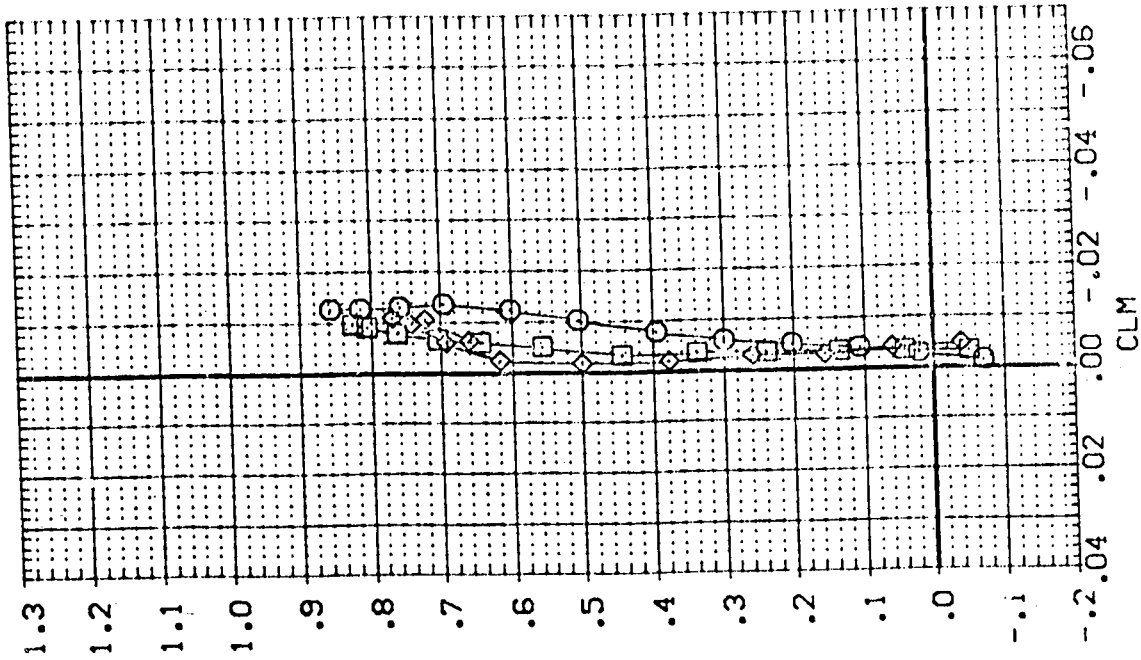
(EJSMACH = 1.20)



SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RUDFLR	WINGNO	LAMDAF
(RPS001)	LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV1VFB)	.000	.000	1.000	53.200
(RPS007)	LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV2VFB)	.000	.000	2.000	46.800
(RPS016)	LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV3VFB)	.000	.000	3.000	35.000

DATA SET SYMBOL: (RPS001), (RPS007), (RPS016)
 CONFIGURATION DESCRIPTION: LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV1VFB), (BV2VFB), (BV3VFB)



EFFECT OF WING LEADING EDGE SWEEP

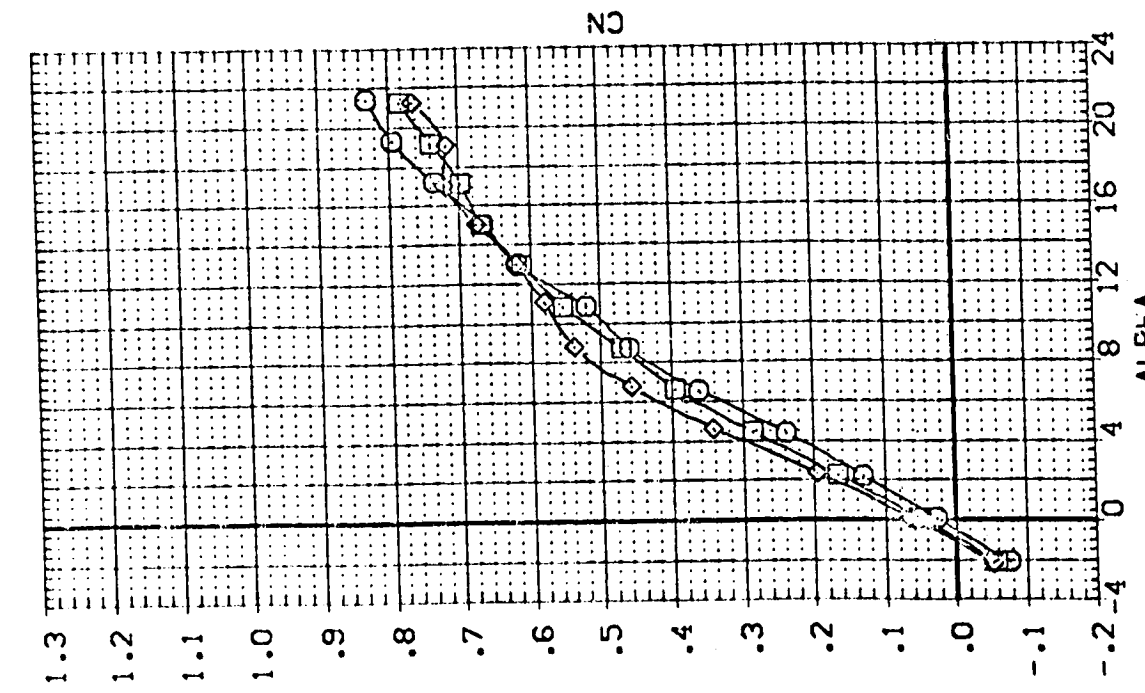
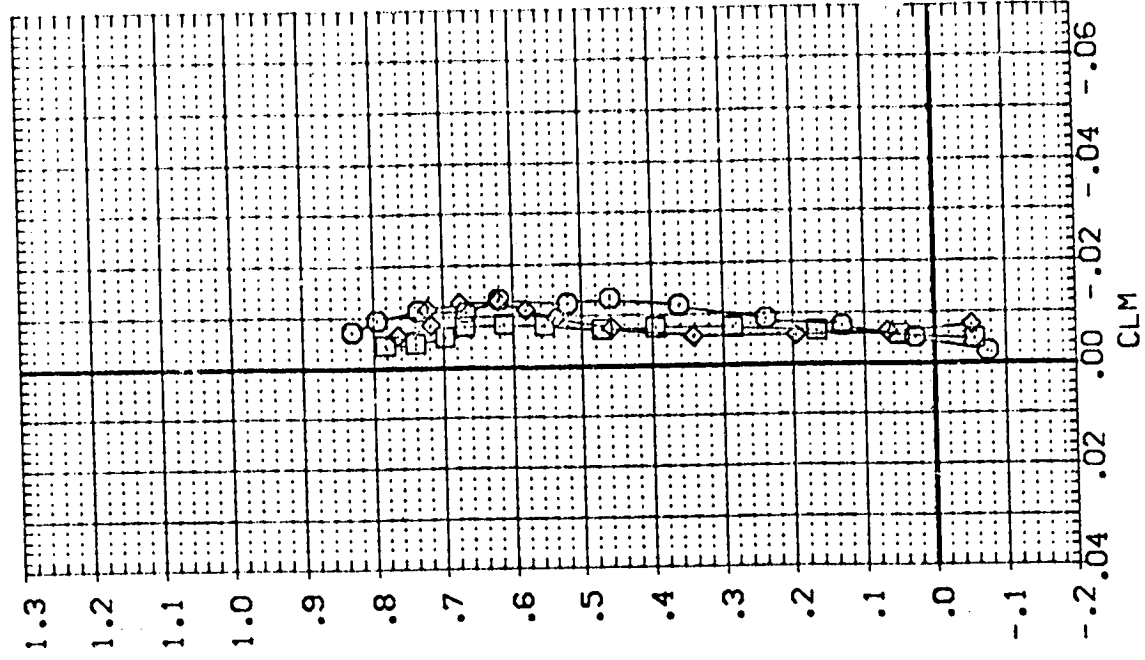
(A) MACH = .35

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

LAMDAE WINGNO RUOFLR BOFLAP
 53.200 1.000 .000 .000
 46.800 2.000 .000 .000
 35.000 3.000 .000 .000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV3VFB)

DATA SET SYMBO:
 (RPS001) □
 (RPS007) ○
 (RPS015) ◇



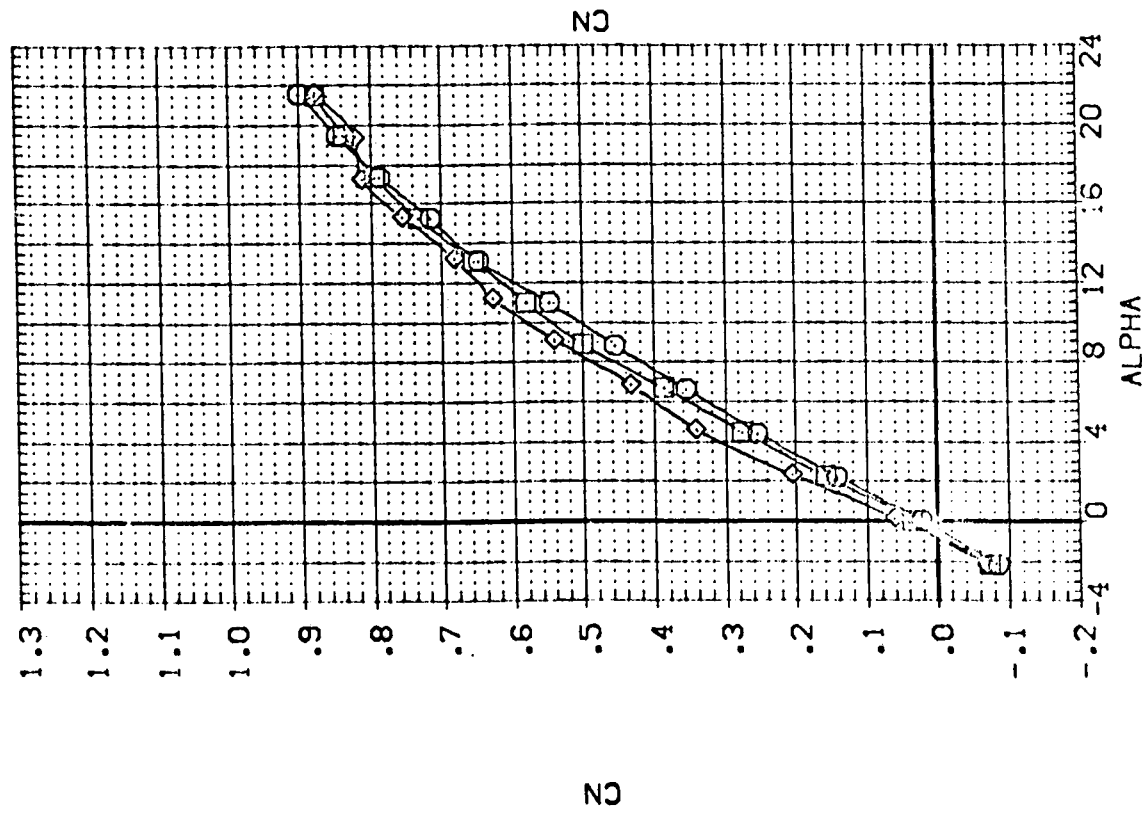
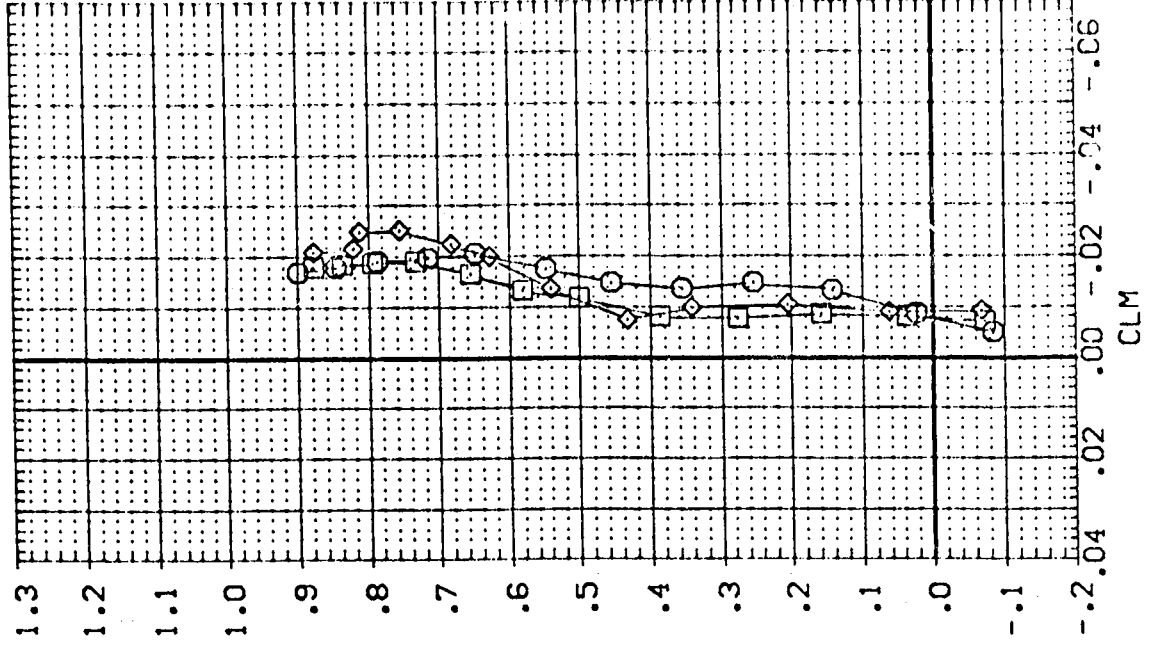
EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAYDWF WINGNO RUOFLR BDFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS

(RP5001)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000
(RP5007)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000
(RP5016)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000



EFFECT OF WING LEADING EDGE SWEEP

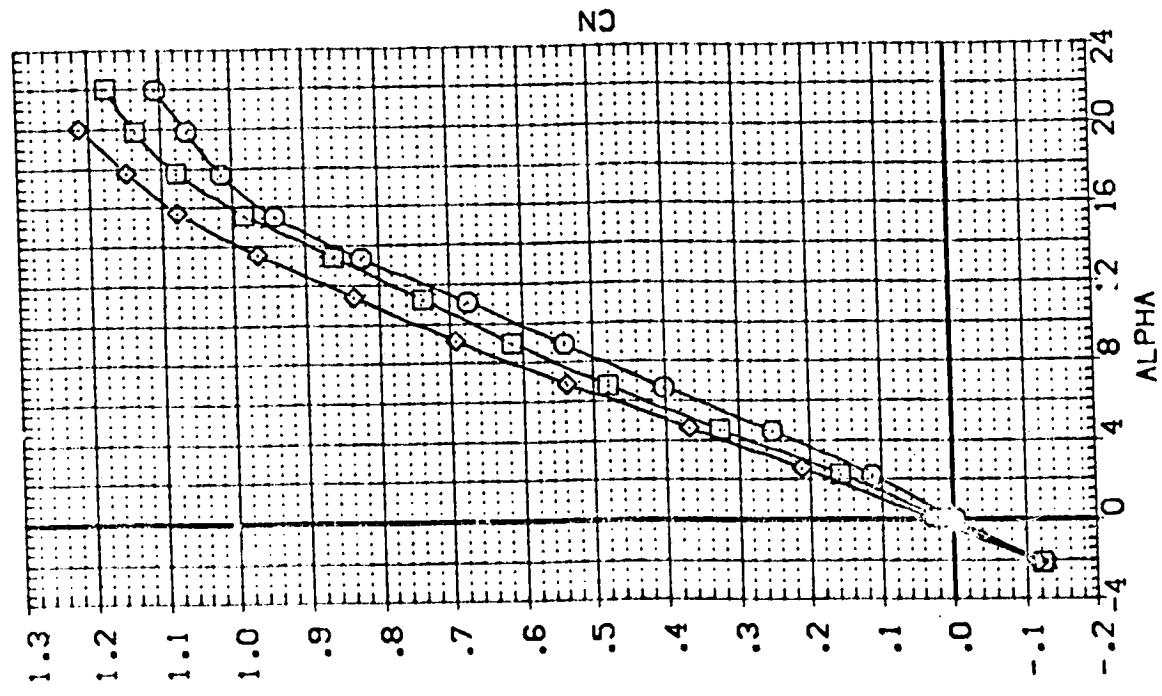
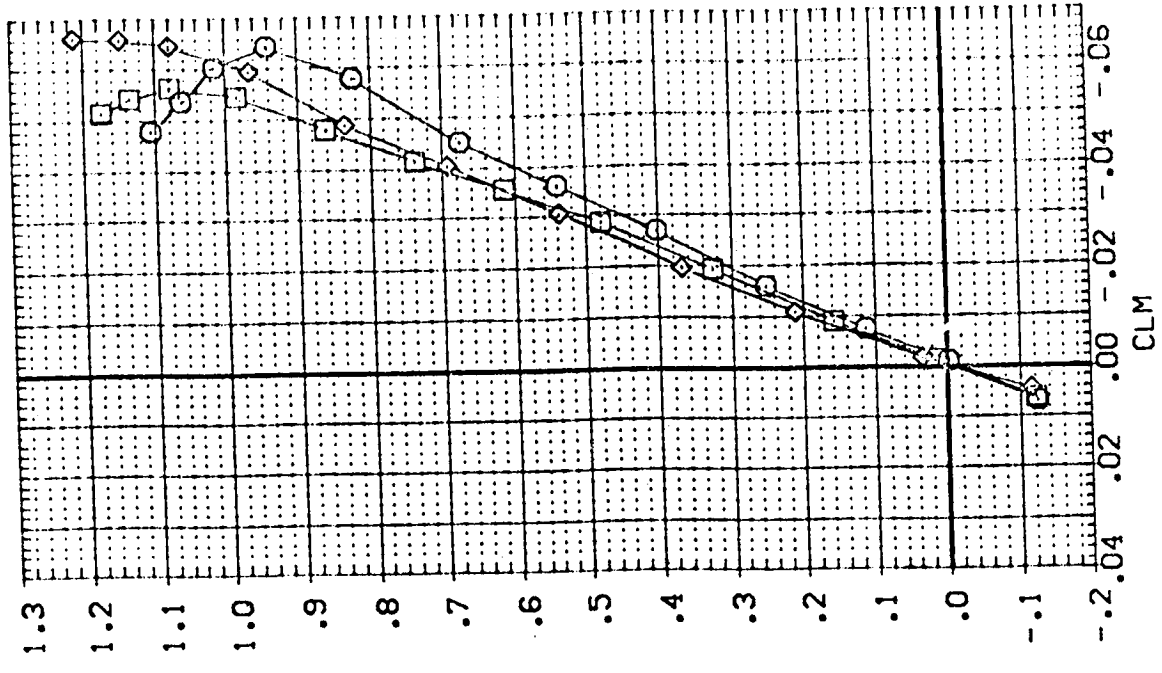
(C)MACH = .90

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS

BOFLAP .000
 RUDELIR .000
 WINGMO 1.000
 LAMDAF 53.200
 2.000
 3.000
 46.800
 35.000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (RPS001) □
 (RPS007) ○
 (RPS016) ◇



EFFECT OF WING LEADING EDGE SWEEP

(DJ)MACH = .98

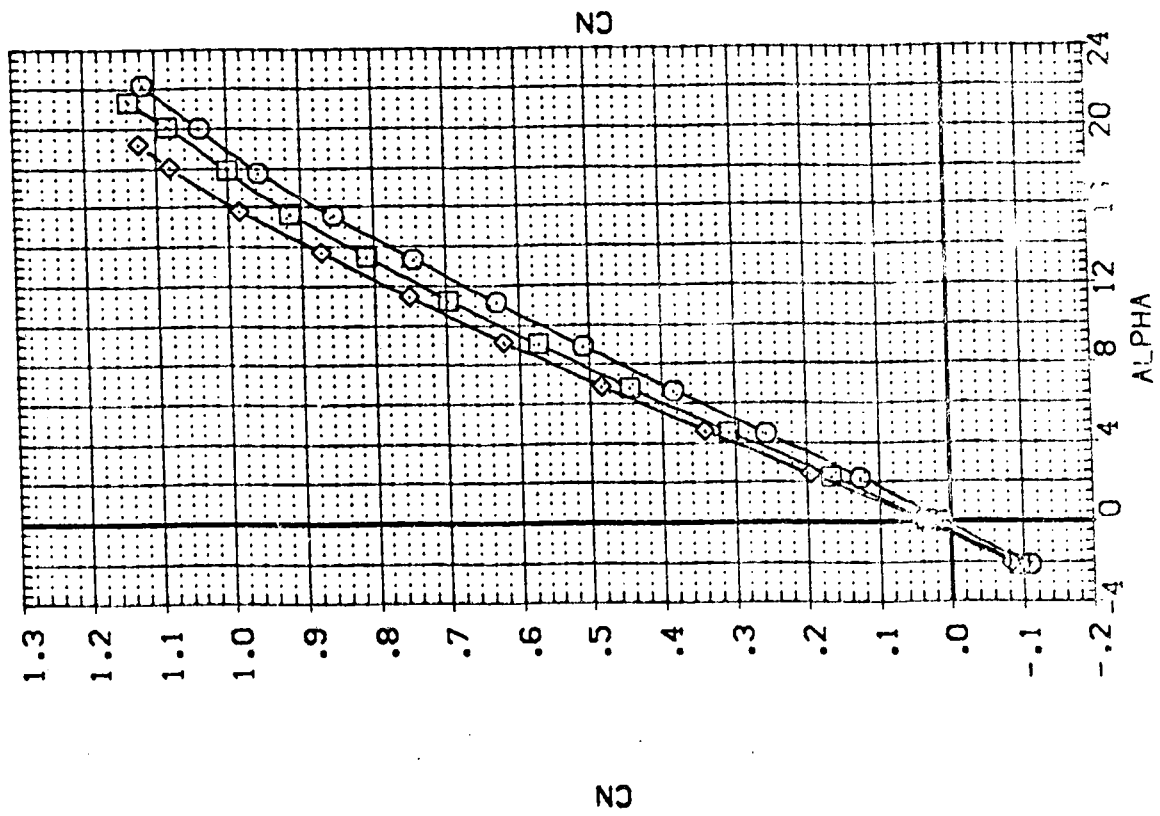
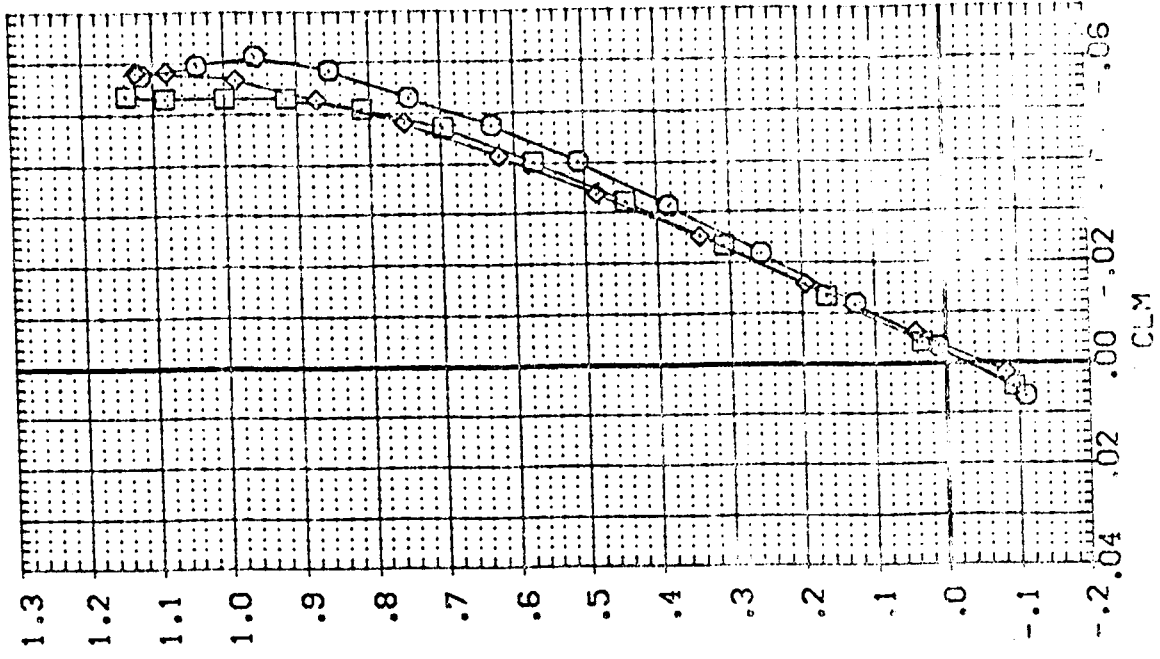


SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

LAMDAF 53.200
 46.800
 35.000
 VINGSO 1.000
 2.000
 3.000
 RUDFLR .000
 .000
 .000
 BDFLAP .000
 .000
 .000

DATA SET SYMBOL
 [RP5001] □
 [RP5007] ◇
 [RP5016] ○

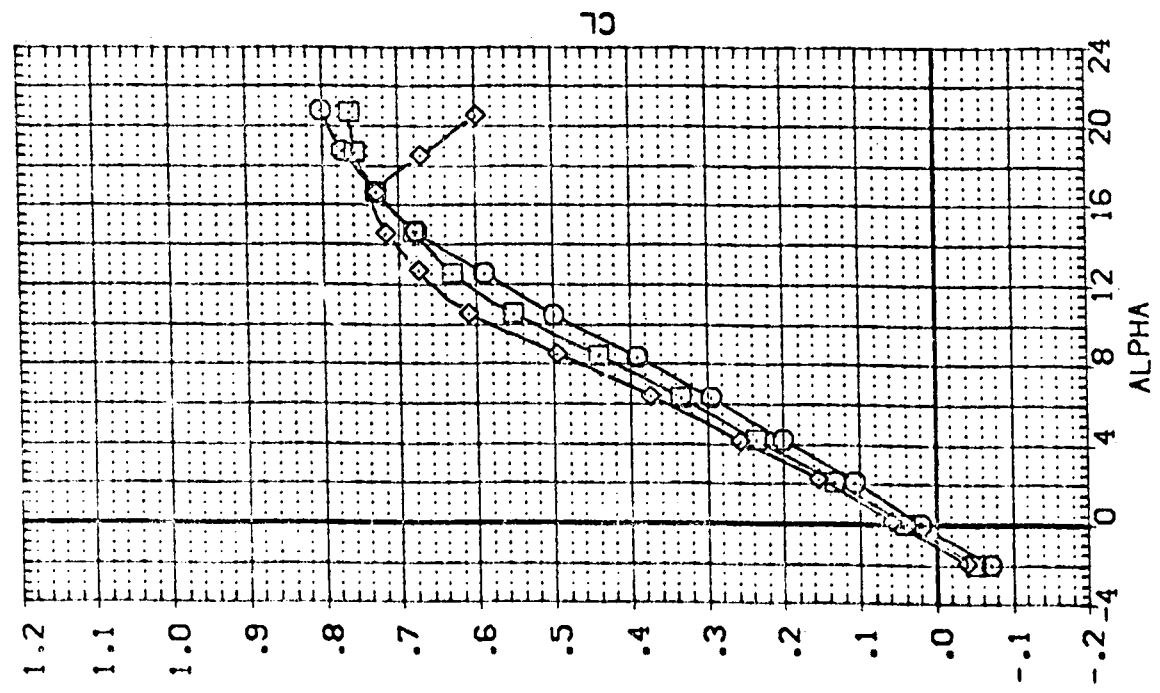
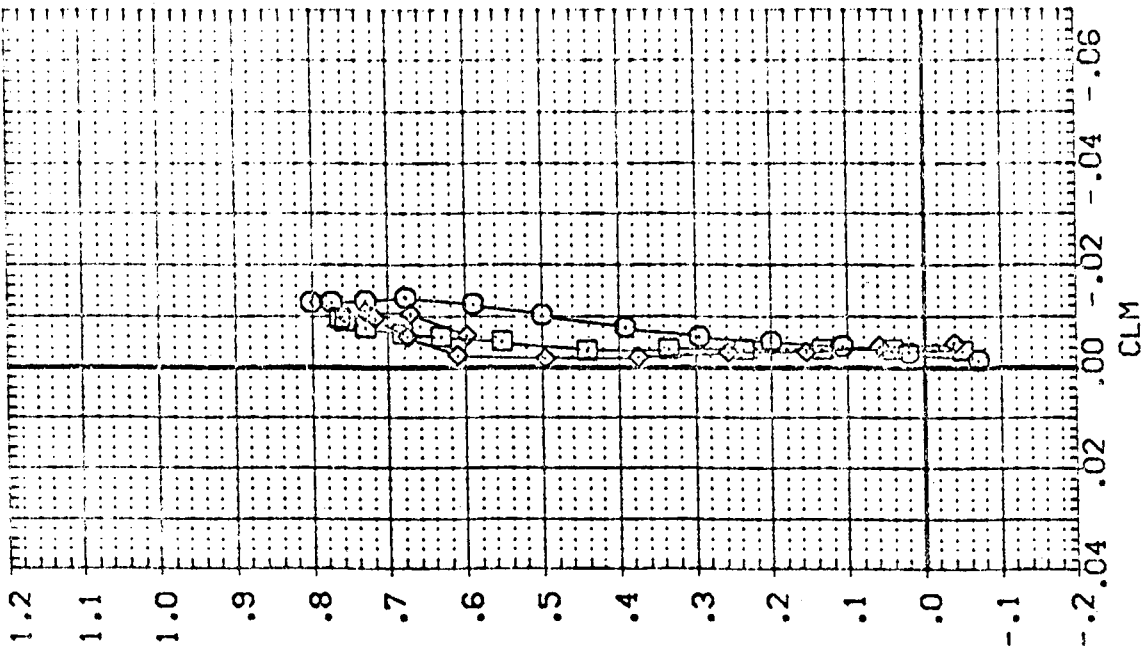
CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)



EFFECT OF WING LEADING EDGE SWEEP
 (E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R5001) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (8V1VF8)
 (R5007) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (8V2VF8)
 (R5016) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (8V3VF8)

LAMEAF WINGMO RUSELR RSELRIP SEE THE ASSOCIATED DATA
 53.200 1.000 .000 .000 SOURCES FOR REFERENCE
 46.800 2.000 .000 .000 CHARACTERISTICS FOR
 35.000 3.000 .000 .000 INDIVIDUAL DATASETS



EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35



SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

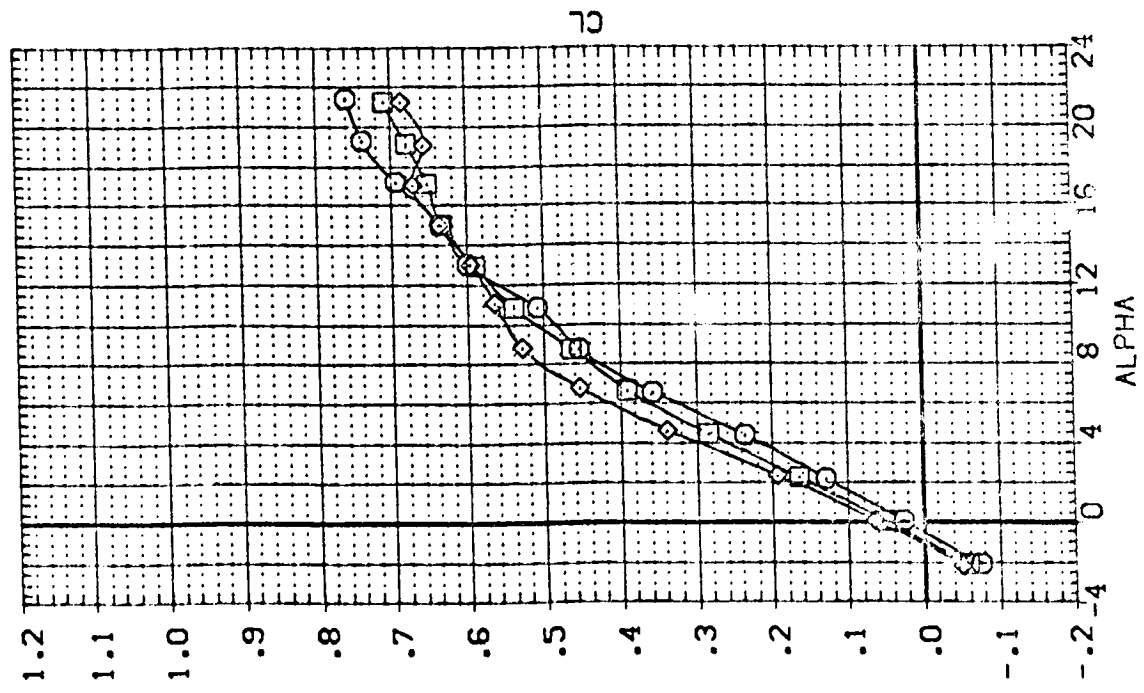
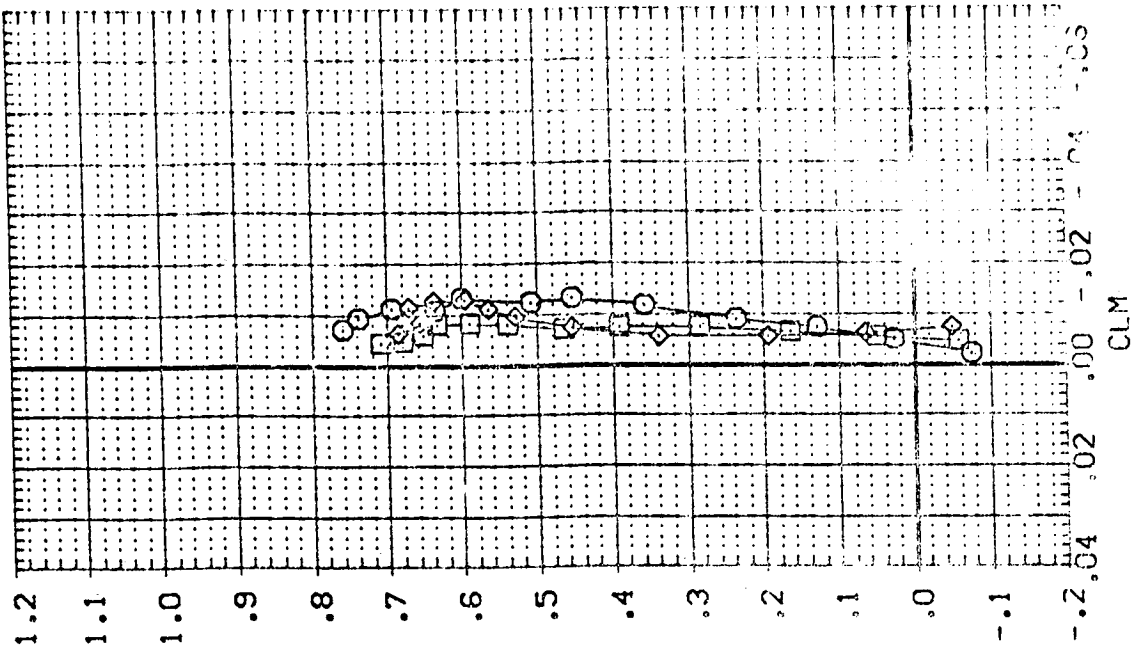
BOFLAP .000
 RUOFLR .000
 VINGNO 1.000
 2.000
 3.000

LANDAF 53.200
 46.800
 39.000

CONFIGURATION DESCRIPTION

(R1) (R2) (R3) (R4) (R5) (R6) (R7) (R8) (R9) (R10)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (R1) (R2) (R3) (R4) (R5) (R6) (R7) (R8) (R9) (R10)



EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

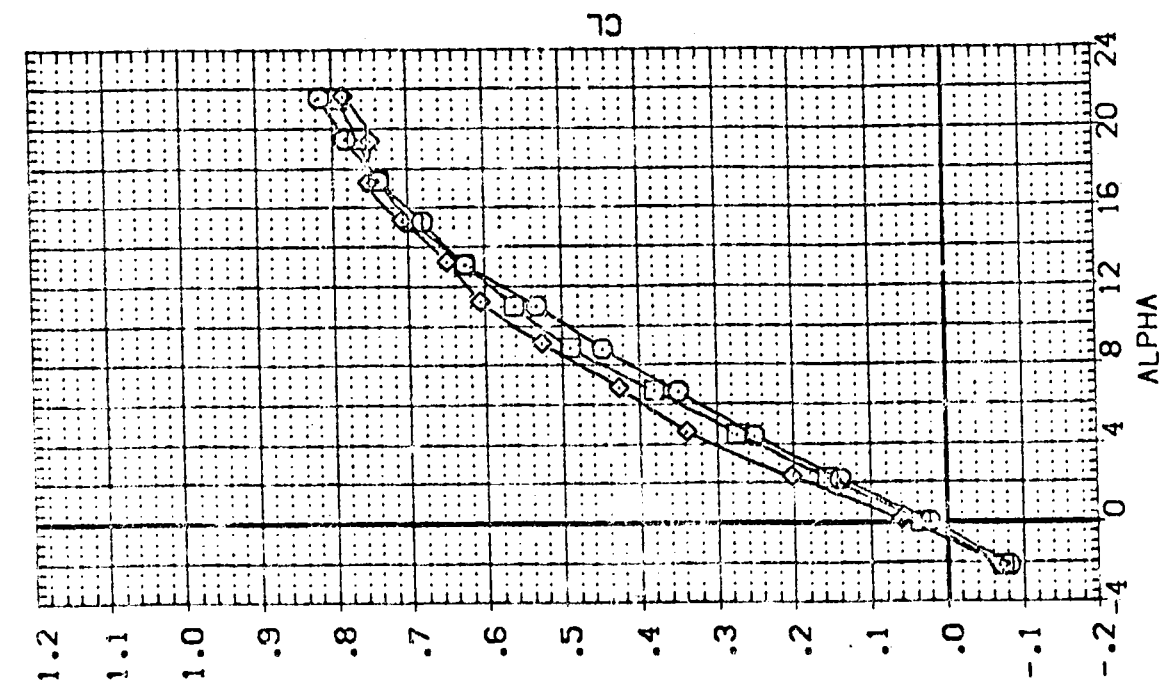
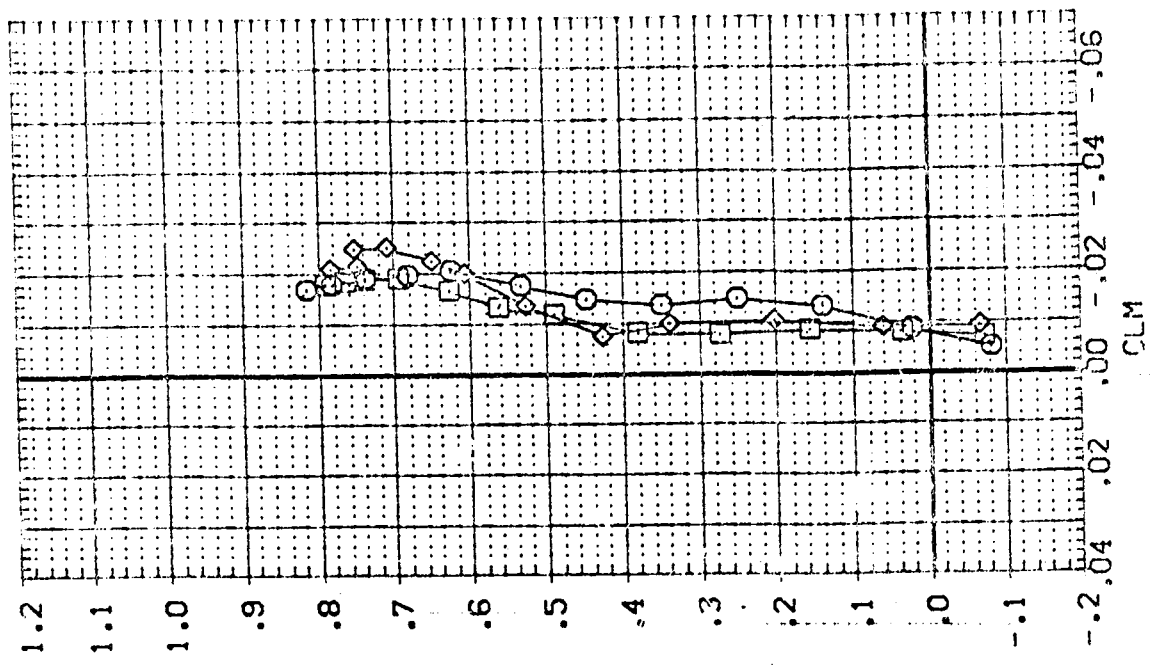
BOFLAP .000
 RUOFLR .000
 VINGAO 1.000
 2.000
 3.000

LANDAF 53.200
 45.800
 35.000

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LC-100 OSB|TER(SHIPS) (BV1VFB) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 OSB|TER(SHIPS) (BV3VFB)
 LARC 8-FT TPT 644 LC-100 OSB|TER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (RPS001) ○
 (RPS007) ◊
 (RPS015) □



EFFECT OF WING LEADING EDGE SWEEP

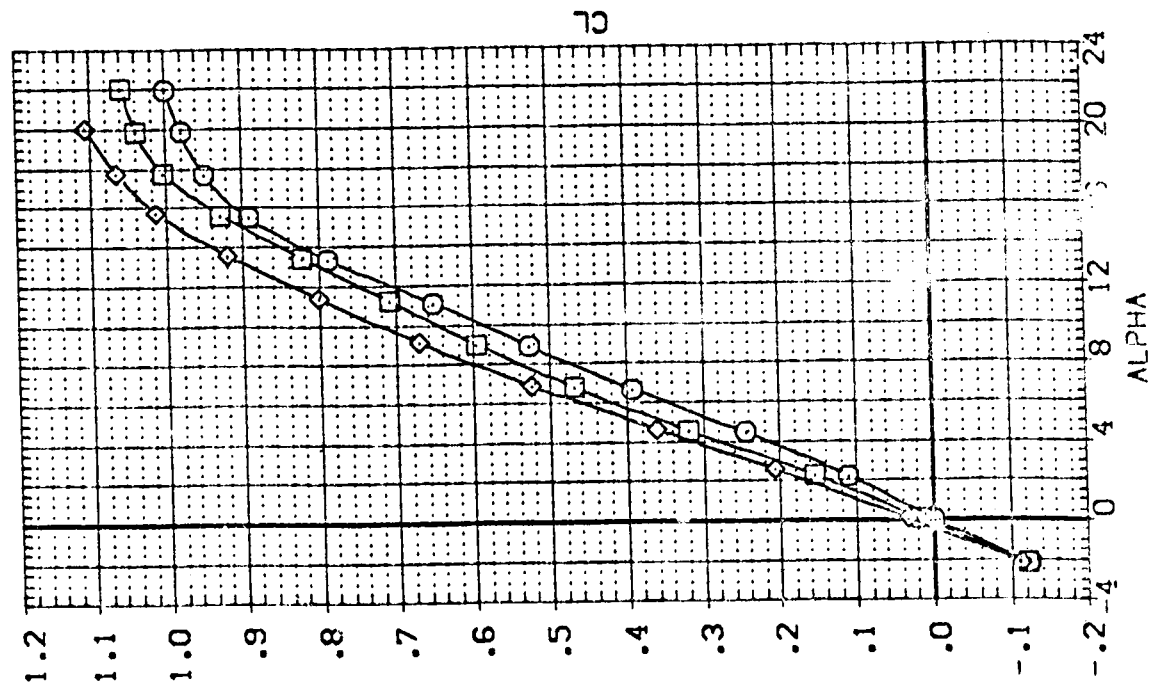
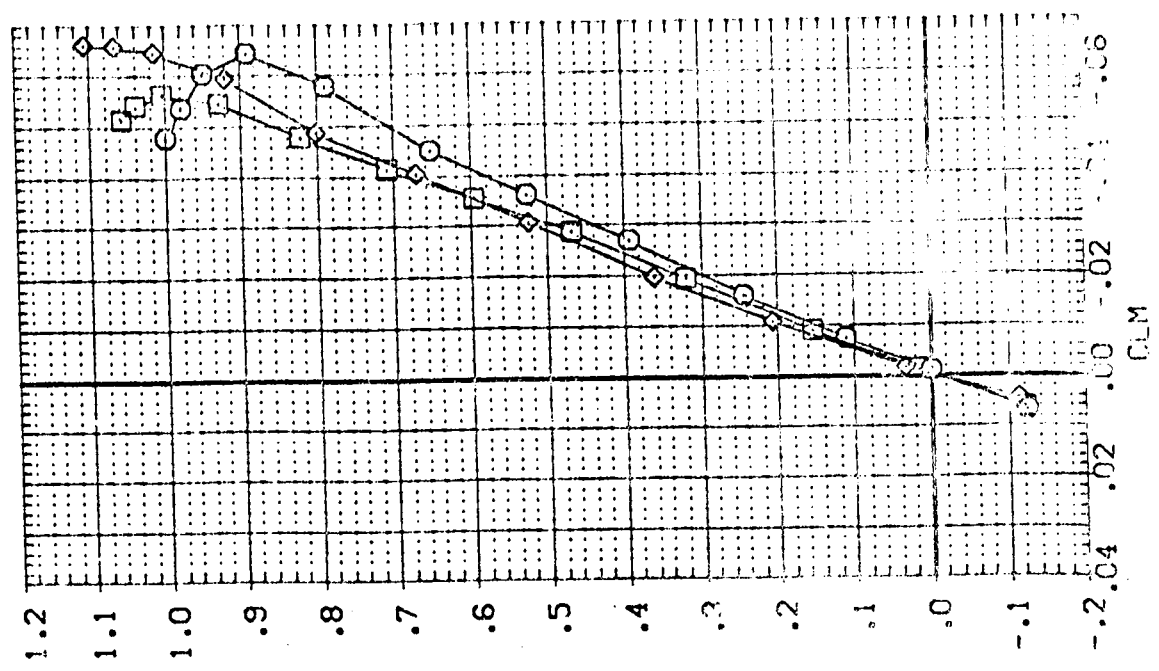
(CJ)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RP5001) □ LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV1VFB)
 (RP5007) ○ LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV2VFB)
 (RP5016) ◇ LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV3VFB)

LAMDAF WINGG RUDELR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

53.200 1.000 .000 .000
 46.800 2.000 .000 .000
 35.000 3.000 .000 .000



EFFECT OF WING LEADING EDGE SLEEP

(M)MACH = .98

DATA SET SYMBOL
 (RP5001)
 (RP5007)
 (RP5016)

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LC-100 C3811ER(SH)PS (BV1VFB)
 LARC 8-FT TPT 644 LC-100 C3811ER(SH)PS (BV2VFB)
 LARC 8-FT TPT 644 LC-100 C3811ER(SH)PS (BV3VFB)

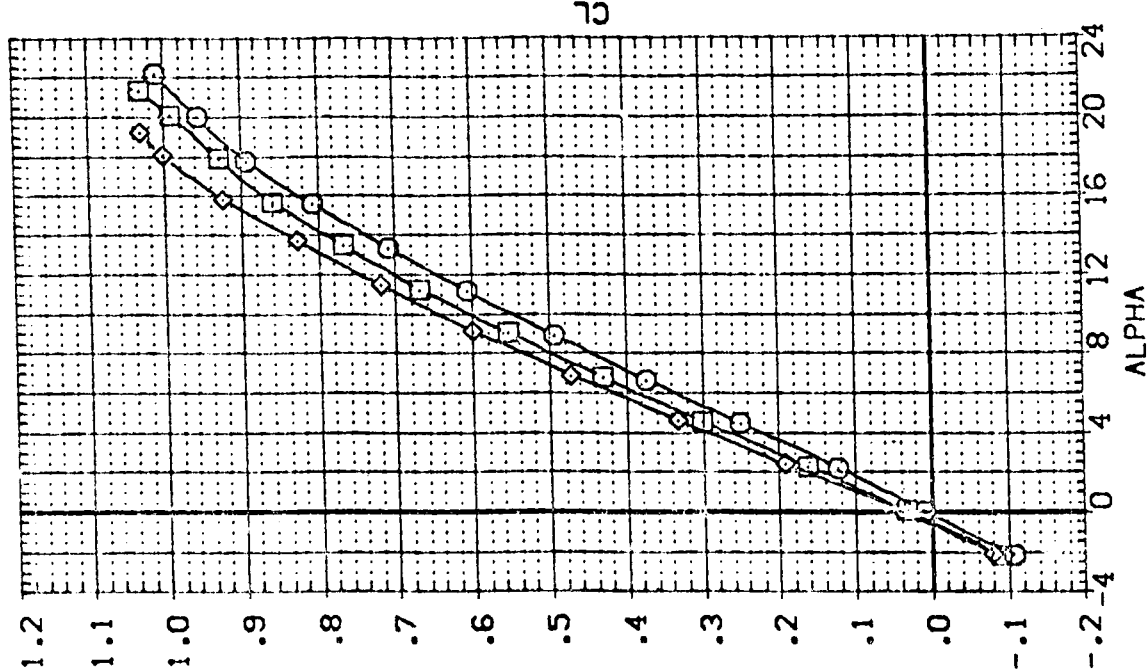
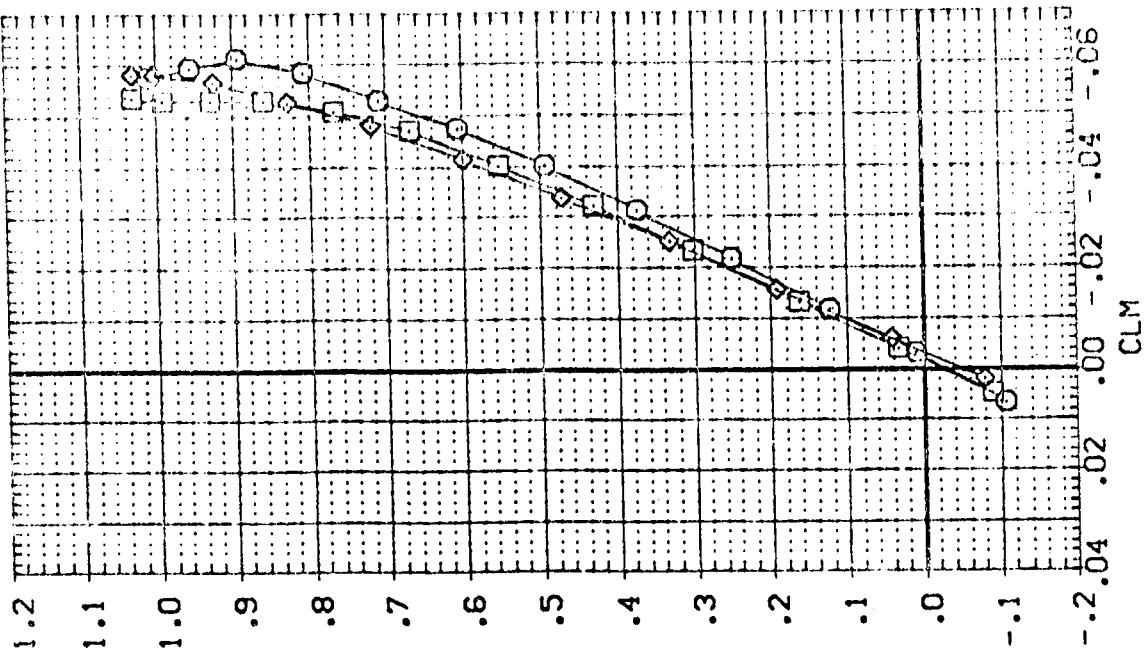
LANDAF
 53.200
 46.800
 35.100

WINGMG
 1.000
 2.000
 3.000

RUOFFR
 1.000
 1.000
 1.000

ROFLAP
 1.000
 1.000
 1.000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATA SETS

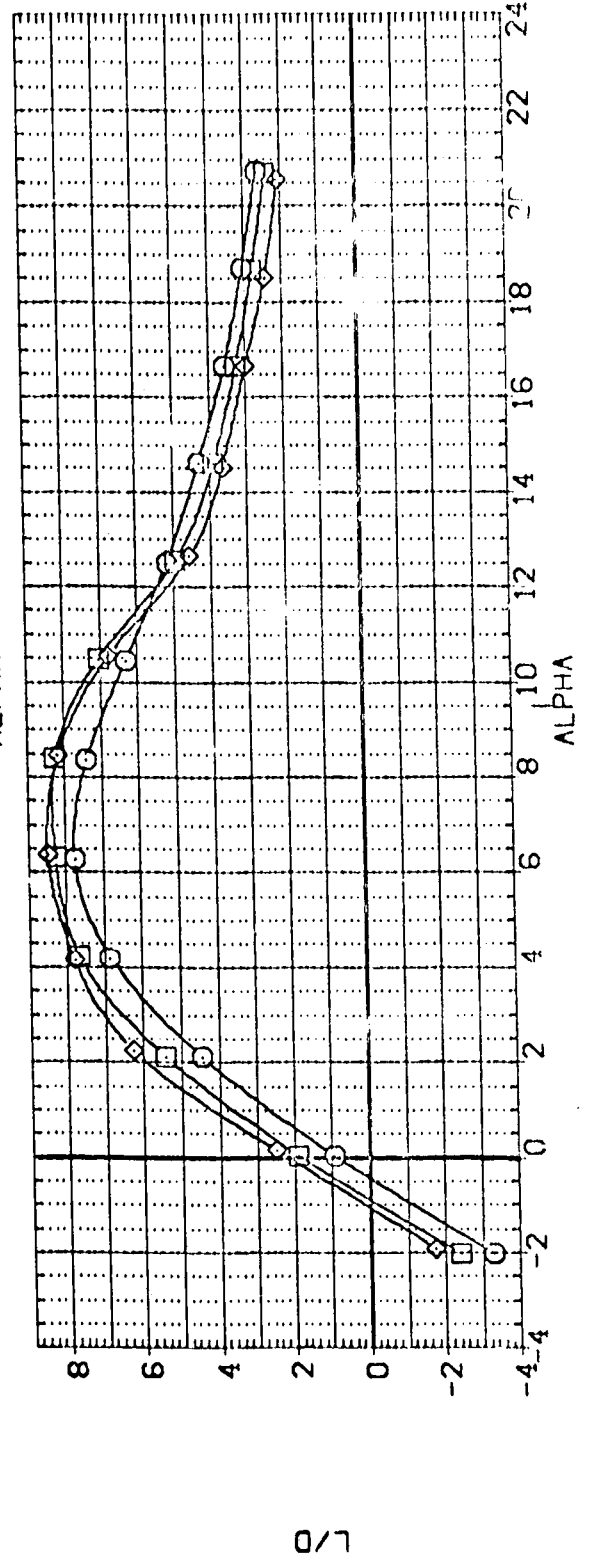
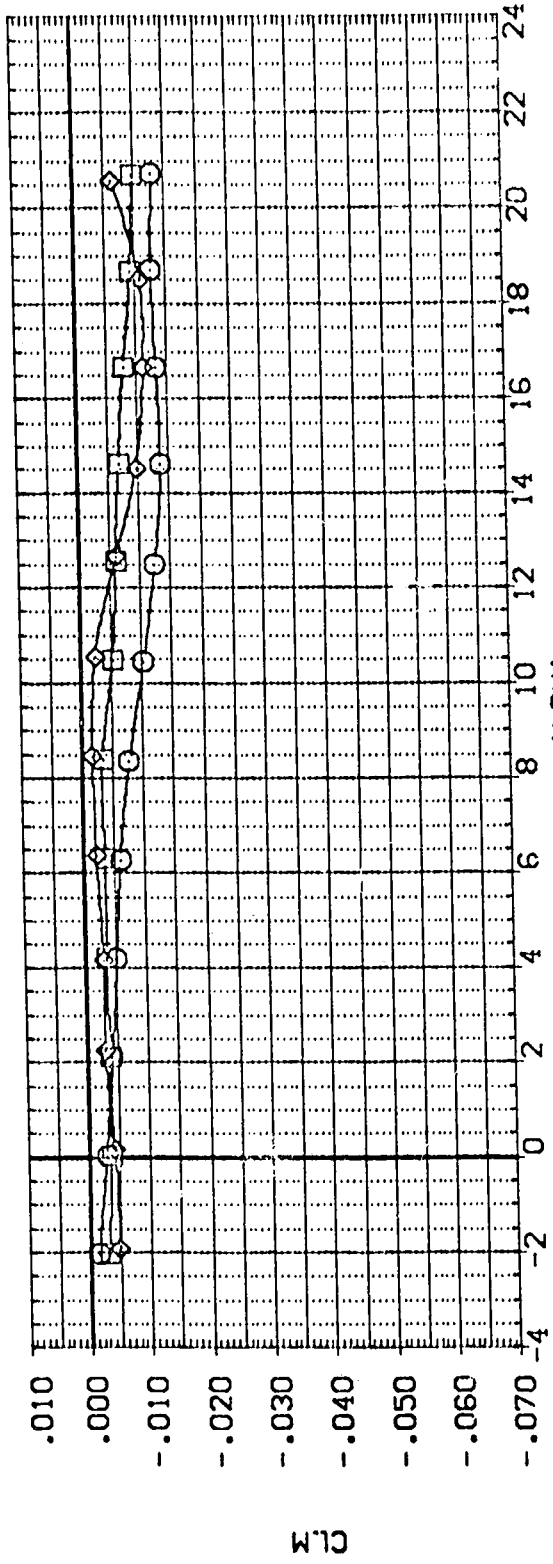


EFFECT OF WING LEADING EDGE SWEEP

(CD)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION LARC 8-FT TPT 644 LC-100 CRBITER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 (RP5001) □ LARC 8-FT TPT 644 LC-100 CRBITER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 (RP5007) □ LARC 8-FT TPT 644 LC-100 CRBITER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 (RP5016) ◇ LARC 8-FT TPT 644 LC-100 CRBITER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)



EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35

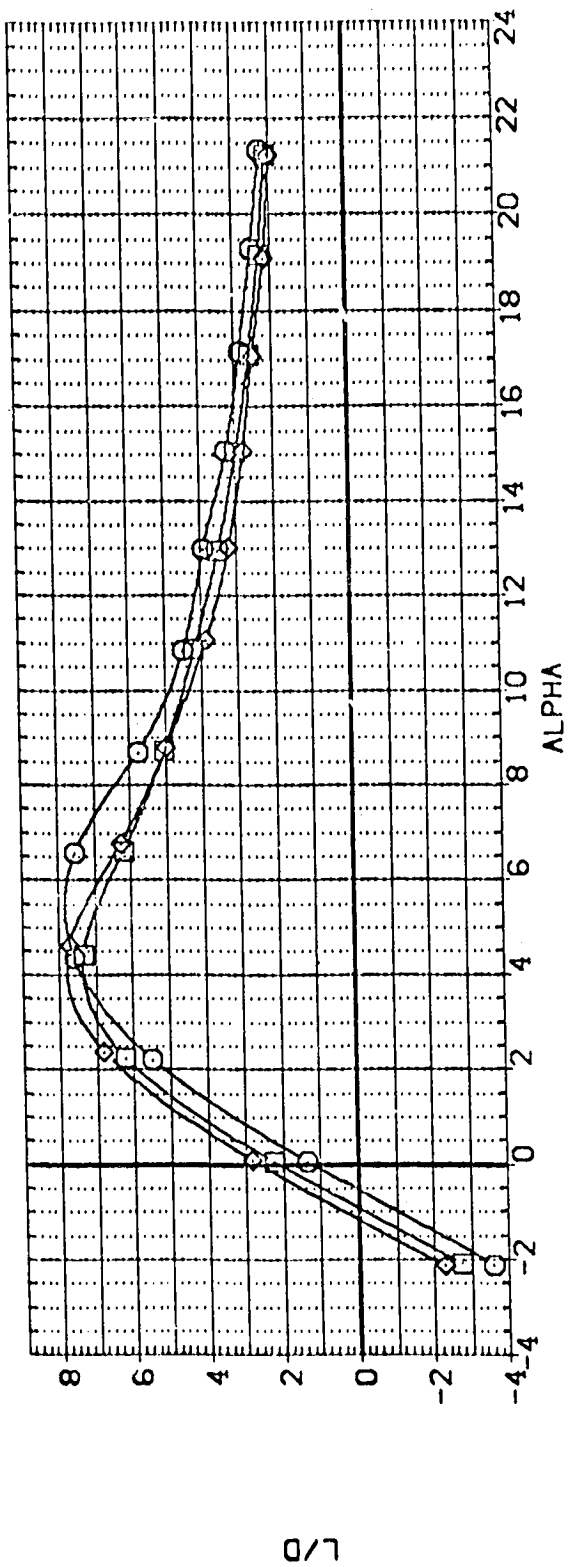
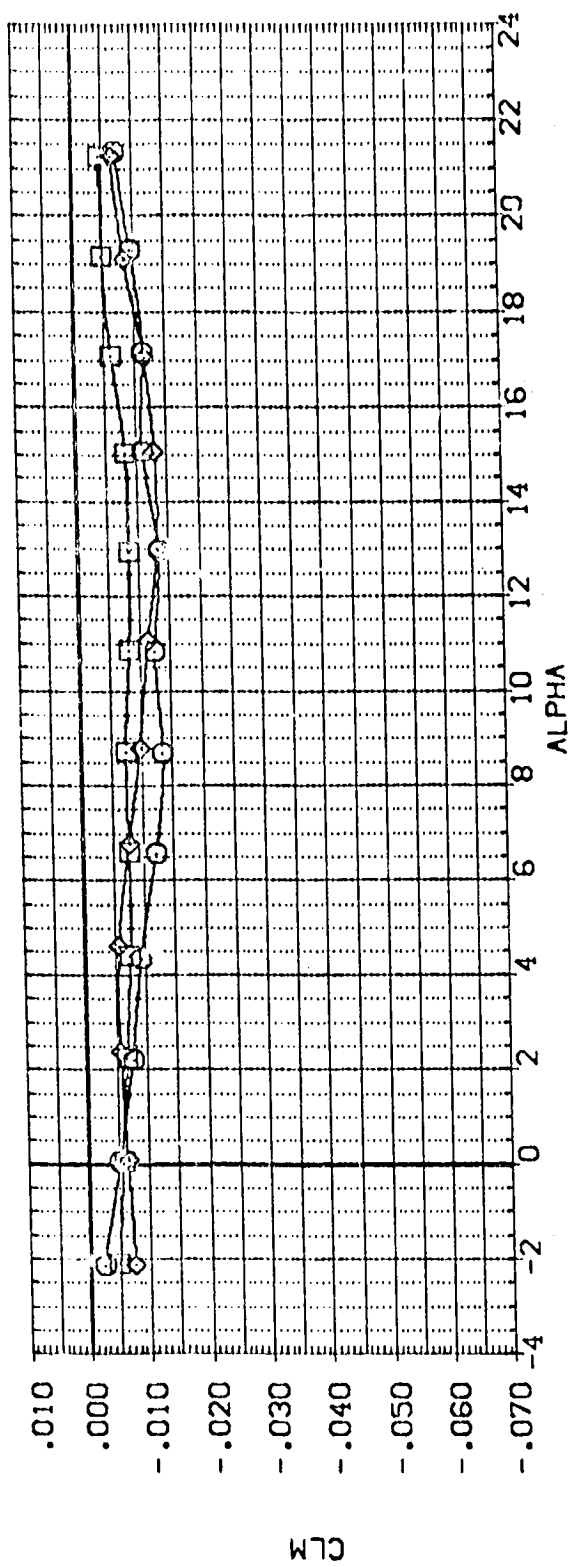
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS

BOFLAP .000
 RUDFLR .000
 WINGAO 1.000
 LAMDAE 53.200

(BV1VFB) 53.200
 (BV2VFB) 46.800
 (BV3VFB) 35.000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CR811ER(SHIPS)
 LARC 8-FT TPT 644 LG-100 CR811ER(SHIPS)
 LARC 8-FT TPT 644 LG-100 CR811ER(SHIPS)

DATA SET SYMBOL
 (RP5001) □
 (RP5007) ○
 (RP5016) ◇



EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80






SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

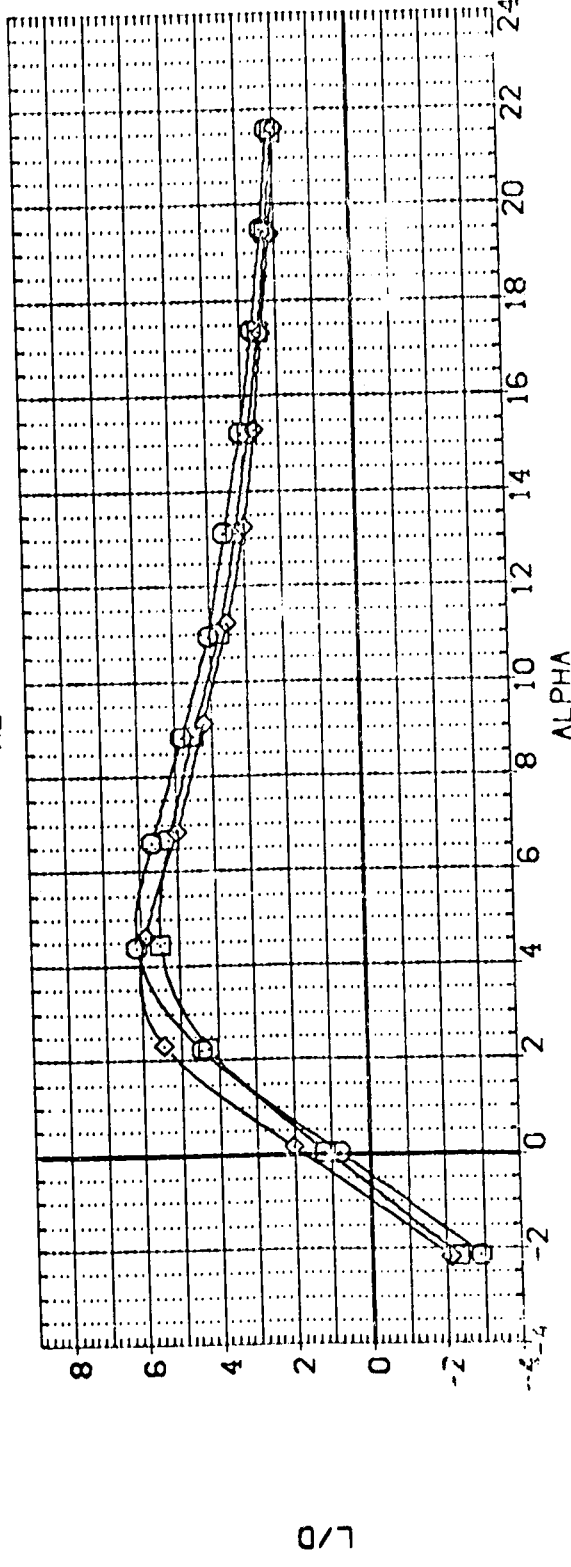
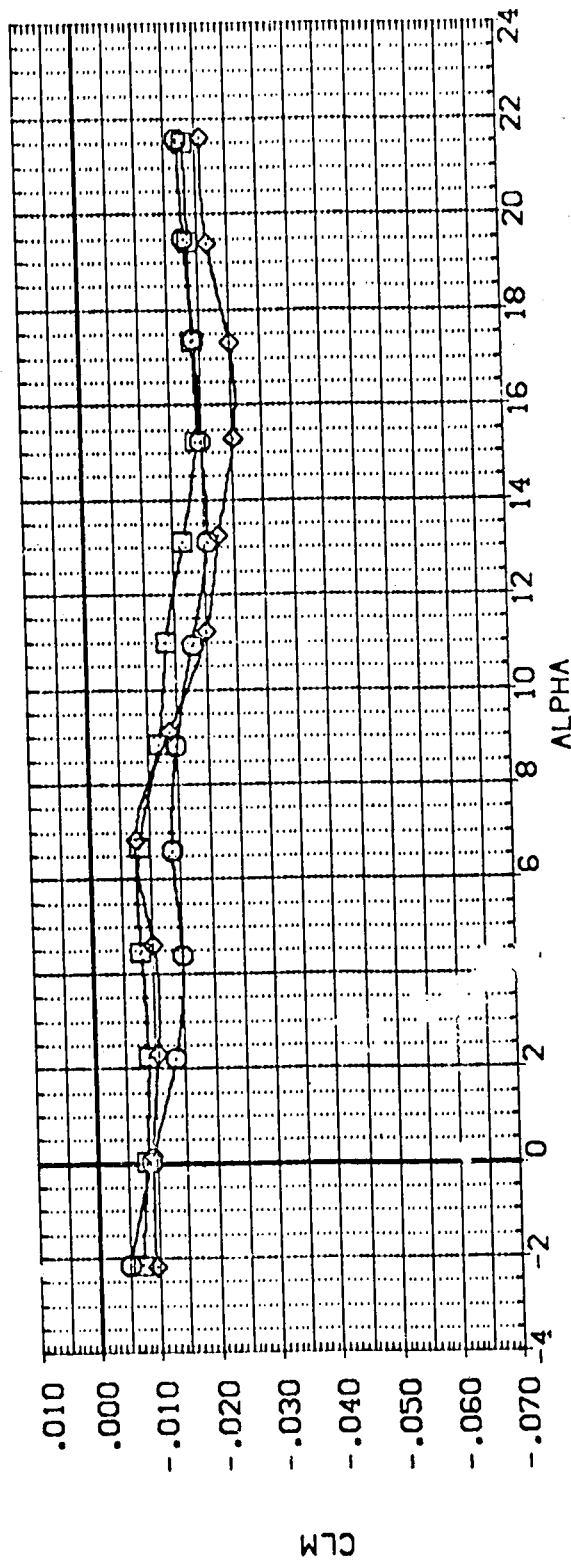
BOFLAP .000
 RUDELR .000
 WINGNO 1.000
 LAYDAF 53.200

BOFLAP .000
 RUDELR .000
 WINGNO 2.000
 LAYDAF 46.800

BOFLAP .000
 RUDELR .000
 WINGNO 3.000
 LAYDAF 35.200

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CR8|TER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CR8|TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CR8|TER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (RP5001) 
 (RP5007) 
 (RP5016) 



EFFECT OF WING LEADING EDGE SWEEP

WING LEADING EDGE SWEEP = .90

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

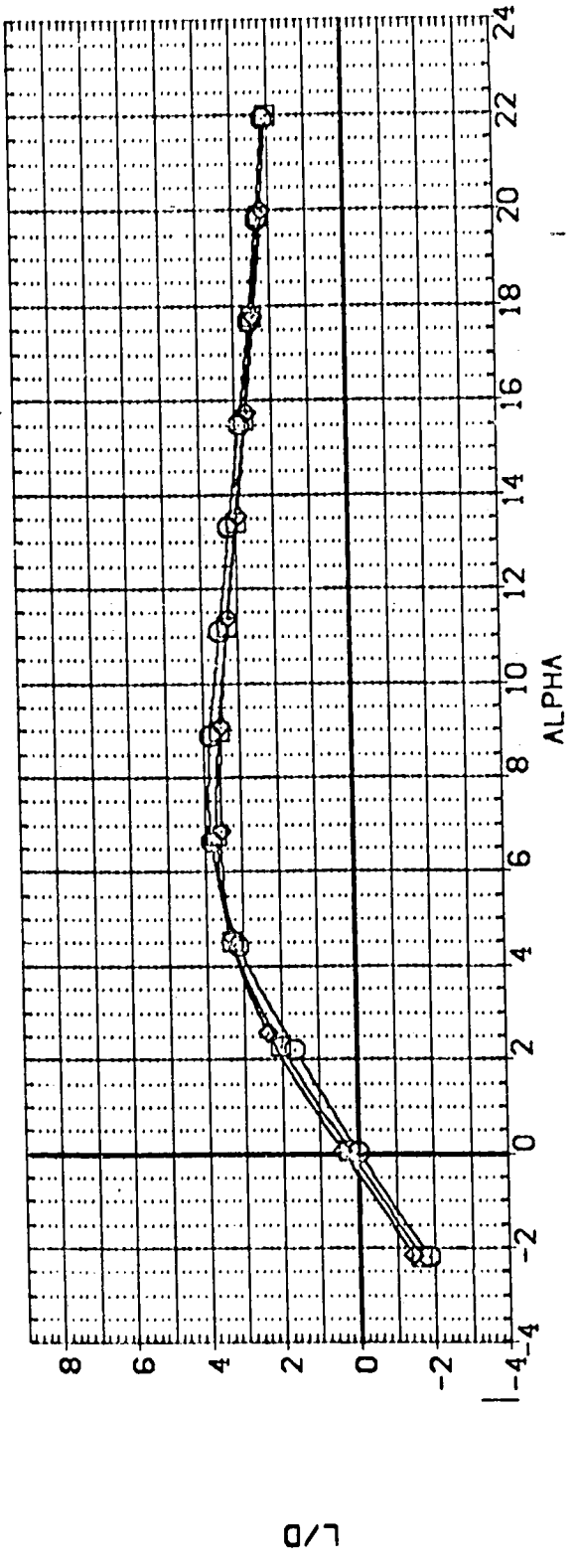
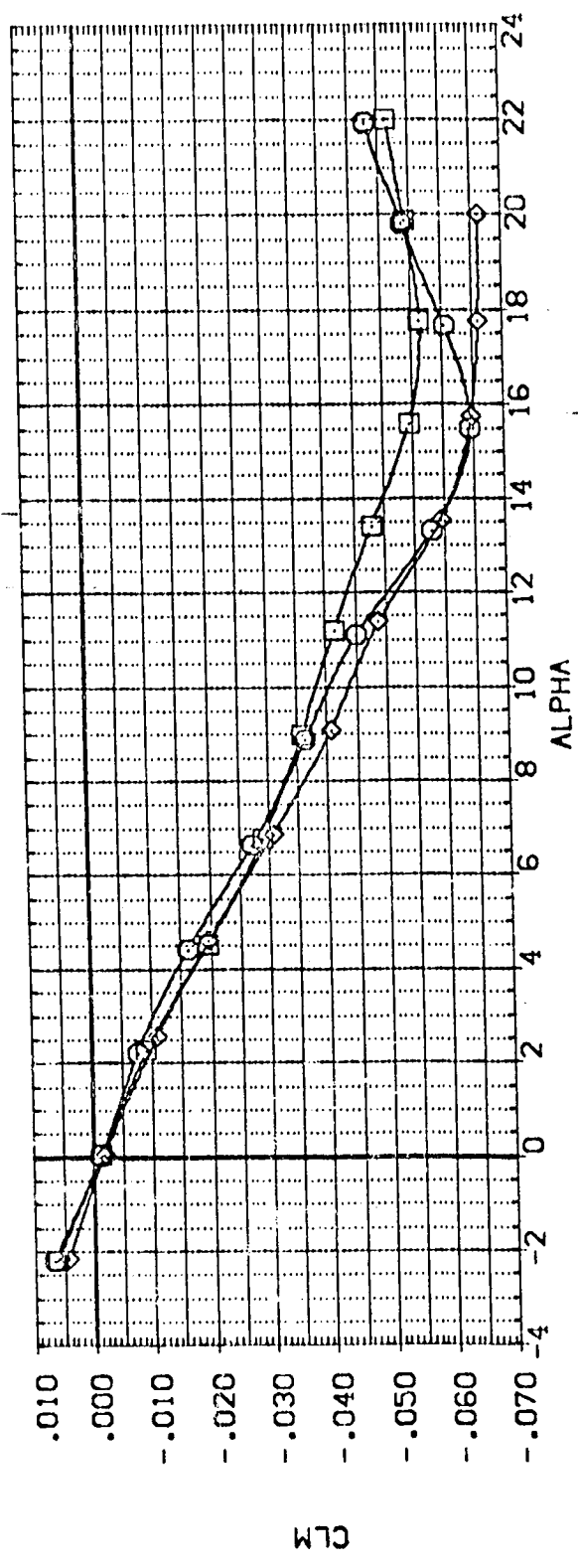
BOFLAP .000
 RUOFLR .000
 VINGNO 1.000
 2.000
 3.000

LAMDAF 53.200
 46.800
 35.000

(B1)(VFB)
 (B2)(VFB)
 (B3)(VFB)

DESCRIPTION
 LARC 8-FT TPT 644 LC-100 CR3-ITER(SHIPS)
 LARC 8-FT TPT 644 LC-100 CR3-ITER(SHIPS)
 LARC 8-FT TPT 644 LC-100 CR3-ITER(SHIPS)

DATA SET SYMBOL
 (RP5001)
 (RP5007)
 (RP5016)



EFFECT OF WING LEADING EDGE SWEEP

(0)MACH = .98

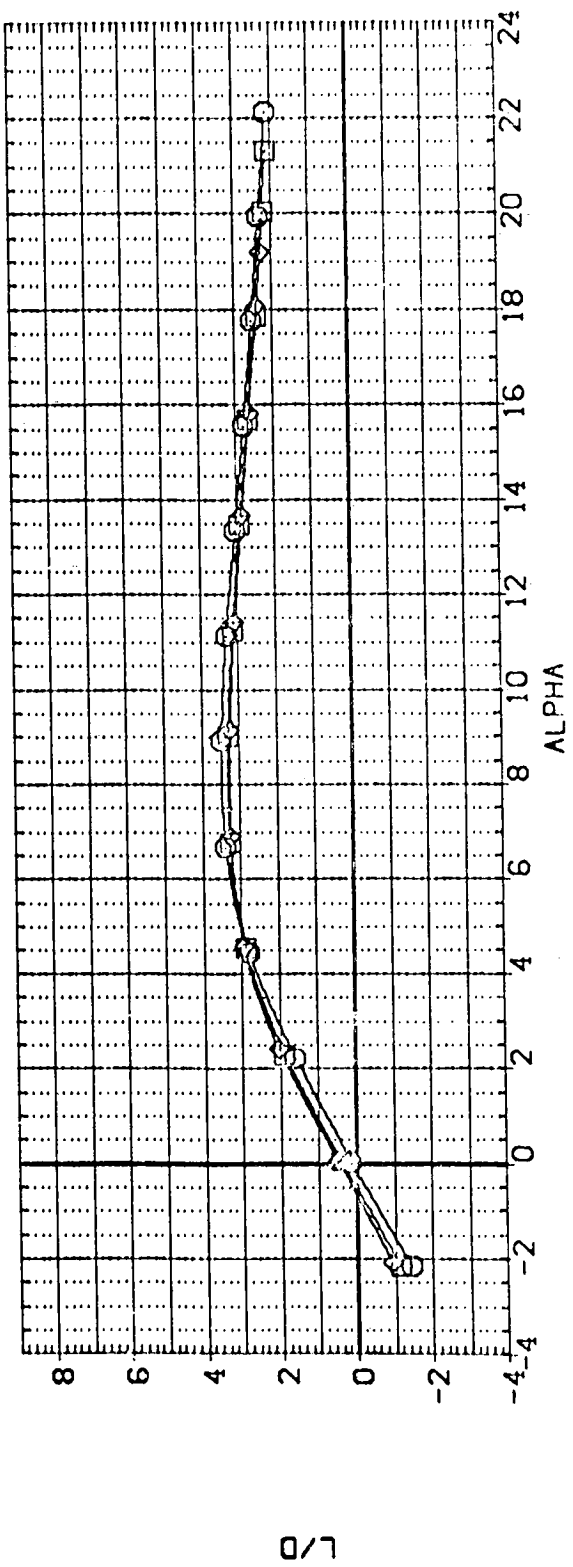
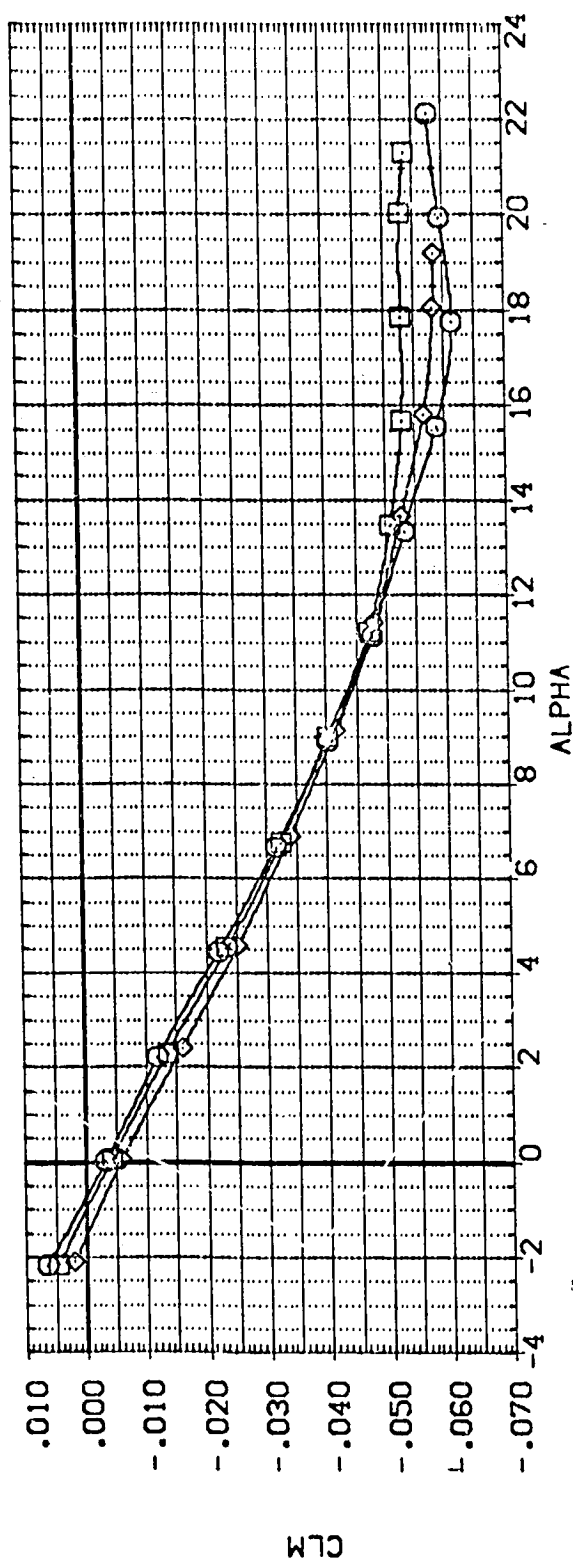


DATA SET SYMBOL CONFIGURATION DESCRIPTION LAYDAF VINGNO RUDELR BDFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

(RP5001) LARC 8-FT TPT 644 LO-100 CRB|TER(SHIPS) (BV1VFB) 53.200 1.000 .000 .000

(RP5007) LARC 8-FT TPT 644 LO-100 CRB|TER(SHIPS) (BV2VFB) 46.800 2.000 .000 .000

(RP5016) LARC 8-FT TPT 644 LO-100 CRB|TER(SHIPS) (BV3VFB) 35.000 3.000 .000 .000



EFFECT OF WING LEADING EDGE SWEEP

(M)MACH = 1.20

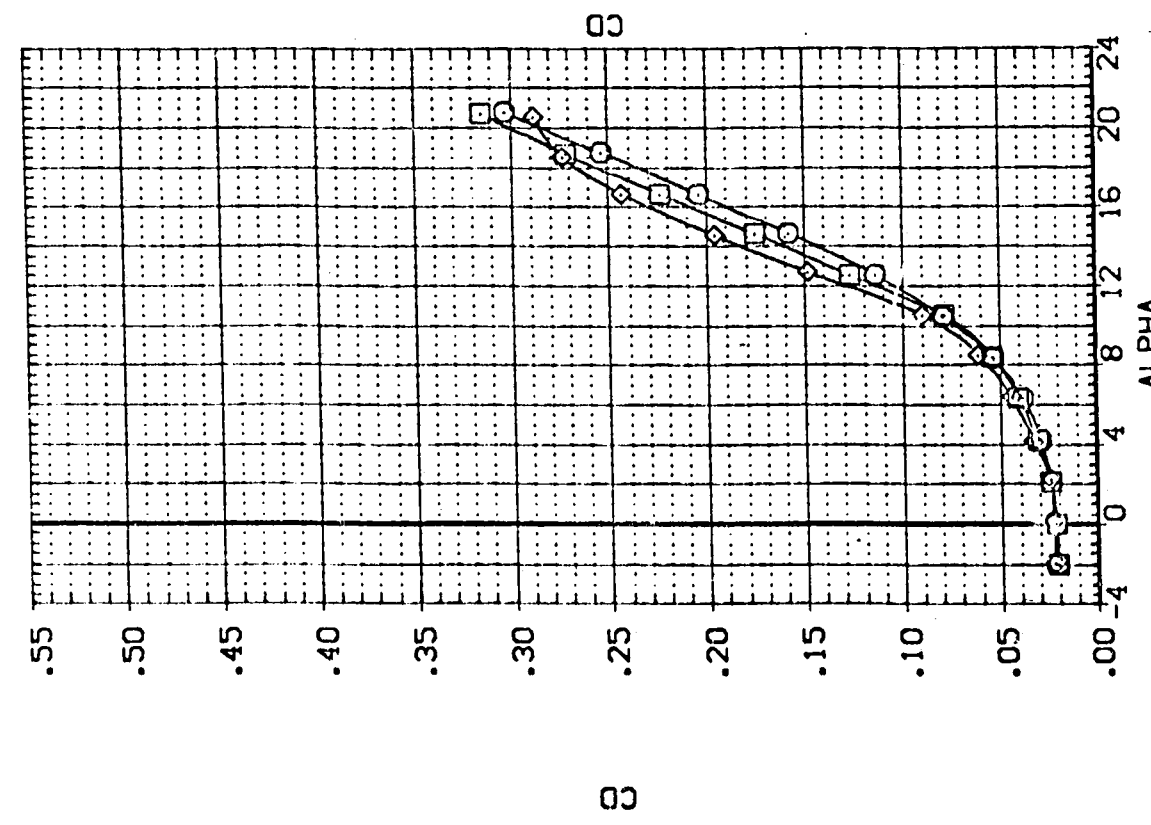
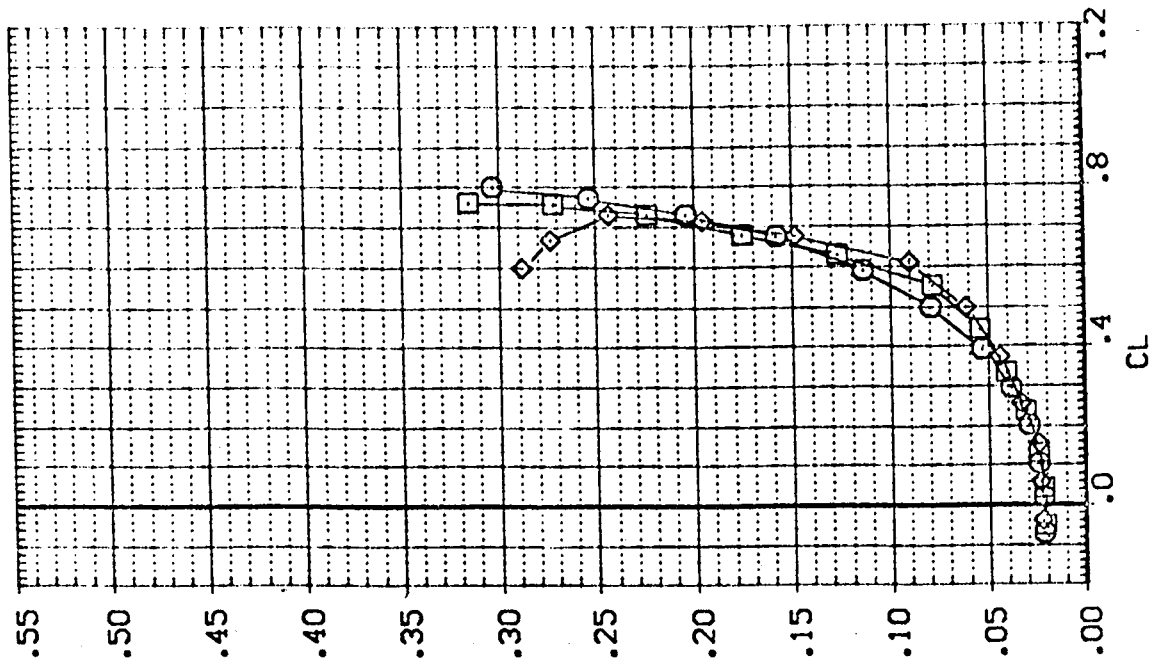
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BOFLAP .000
 RUOFLR .000
 WINGND 1.000
 2.000
 3.000

LANDAF 53.200
 49.800
 36.000

(RP5001)
 (RP5007)
 (RP5016)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VEB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VEB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VEB)



EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35



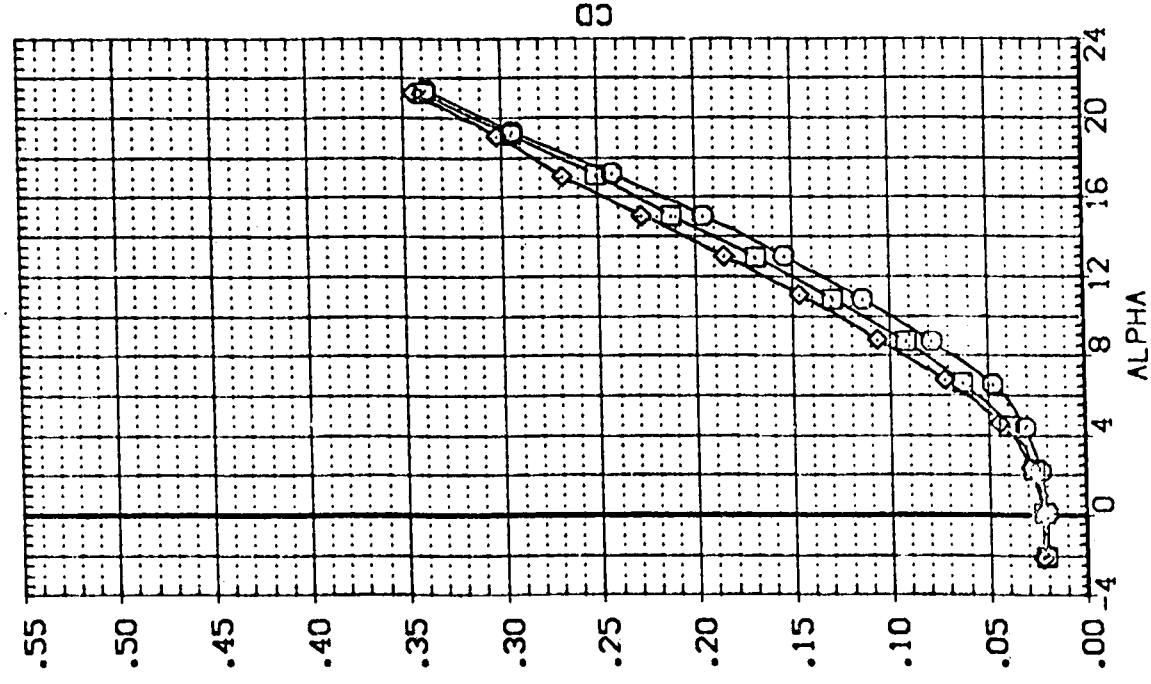
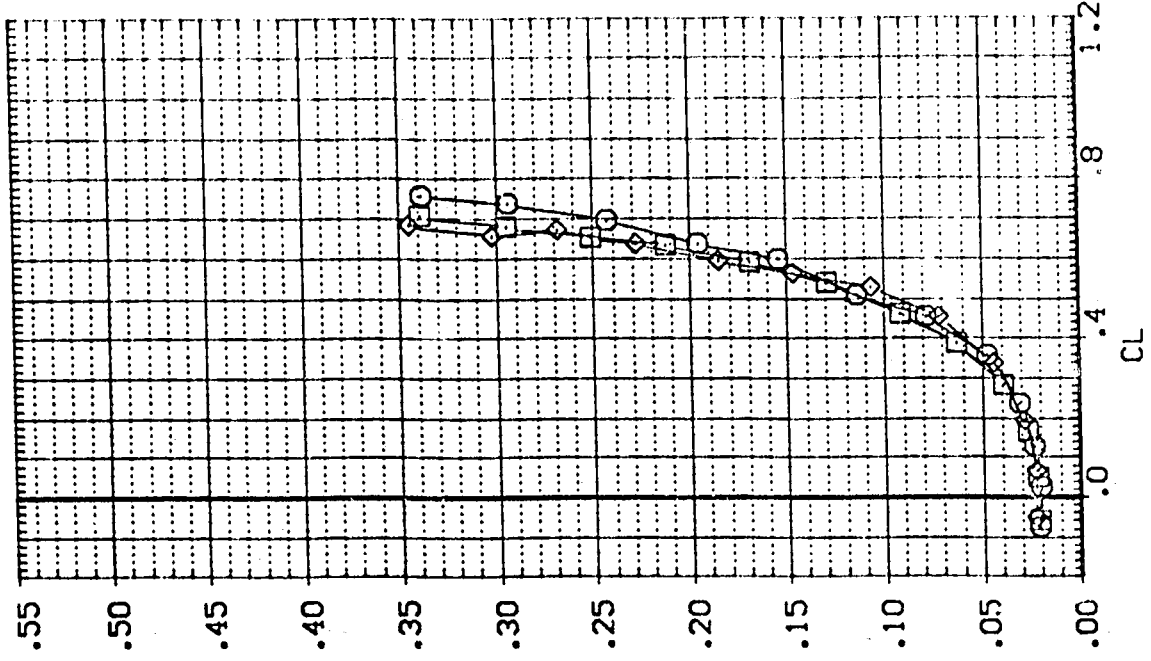
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BOFLAP .000
 RLOFLR .000
 VINGNO 1.000
 2.000
 3.000

LAMDAF 53.200
 46.800
 35.000

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV3VFB)

DATA SET SYMBOL
 (RP5001) □
 (RP5007) ◇
 (RP5016) ○



EFFECT OF WING LEADING EDGE SWEEP

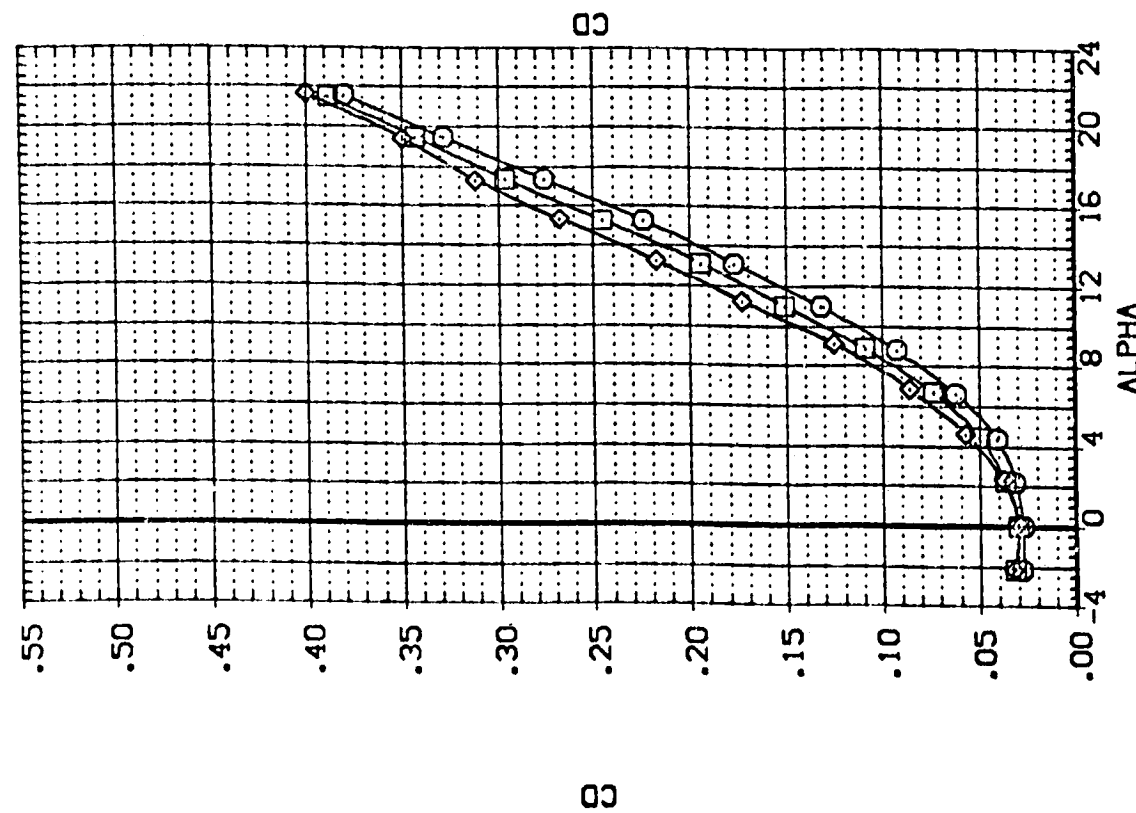
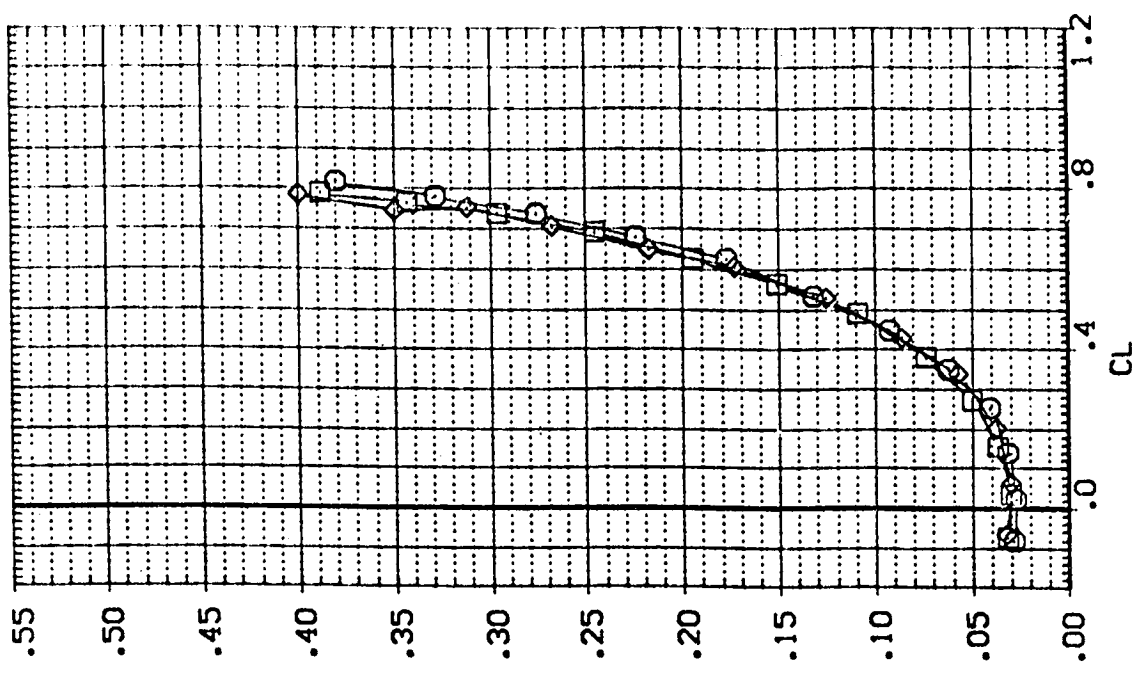
(B)MACH = .80

DATA SET SYMBOL
 (RPS001) ○
 (RPS007) ◇
 (RPS016) ◊

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CR81TER(SHIPS) (BV3VFB)

LAYDAP VINGAC RUDELR BOFLAP
 53.200 1.000 .000 .000
 46.800 2.000 .000 .000
 35.000 3.000 .000 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS



EFFECT OF WING LEADING EDGE SWEEP

(C)MACH = .90



DATA SET SYMBOL
 (RPS001) □
 (RPS007) ○
 (RPS016) ◇

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LT-100 CR811TER(SHIPS) (SV1VF8)
 LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV2VF8)
 LARC 8-FT TPT 644 LC-100 CR811TER(SHIPS) (BV3VF8)

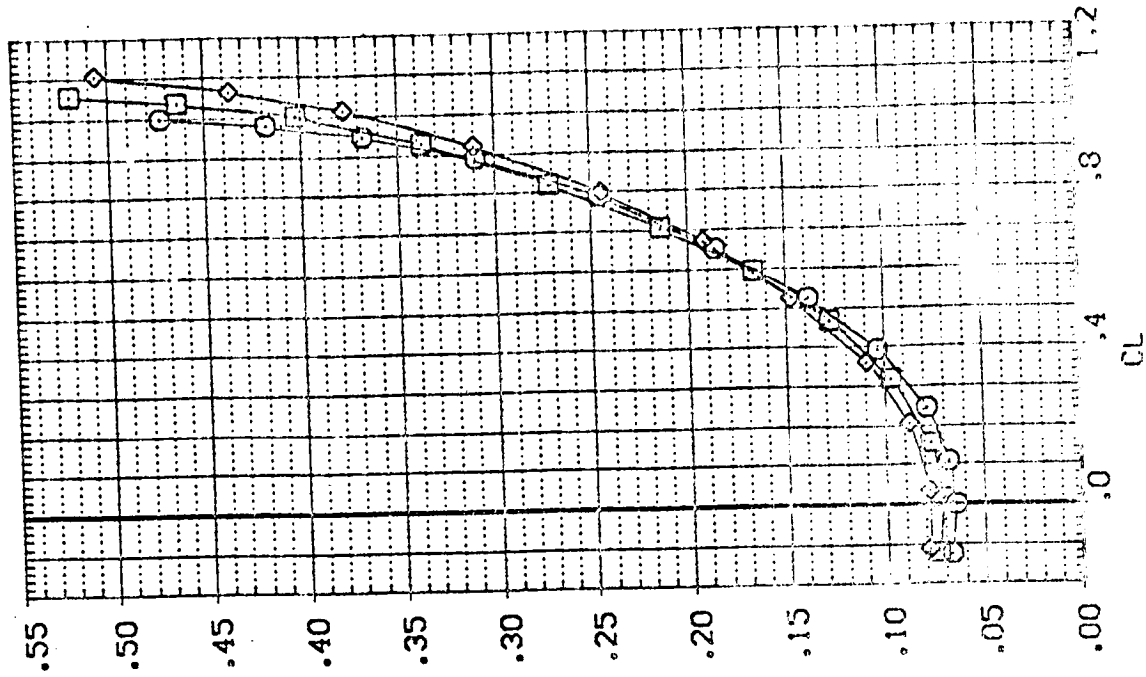
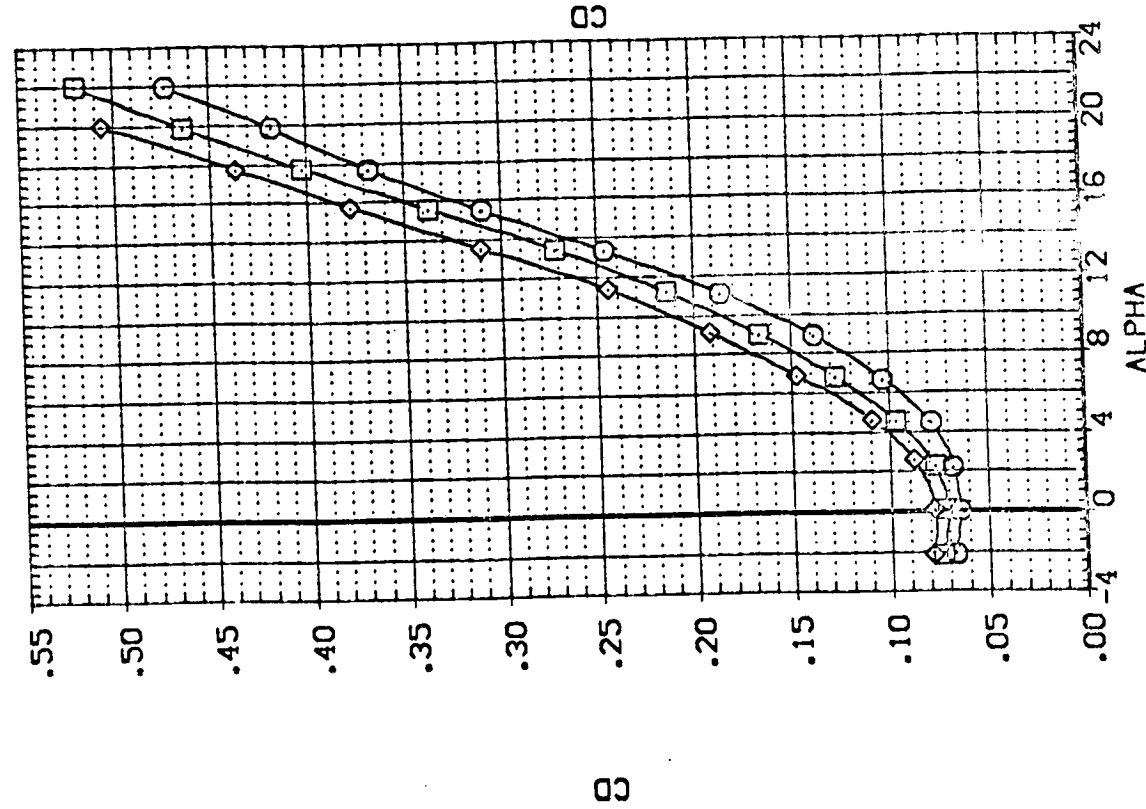
LAMDAF
 53.200
 46.800
 35.000

WINGND
 1.000
 2.000
 3.000

RUOFLR
 .000
 .000
 .000

BOFLAP
 .000
 .000
 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS



EFFECT OF WING LEADING EDGE SWEEP

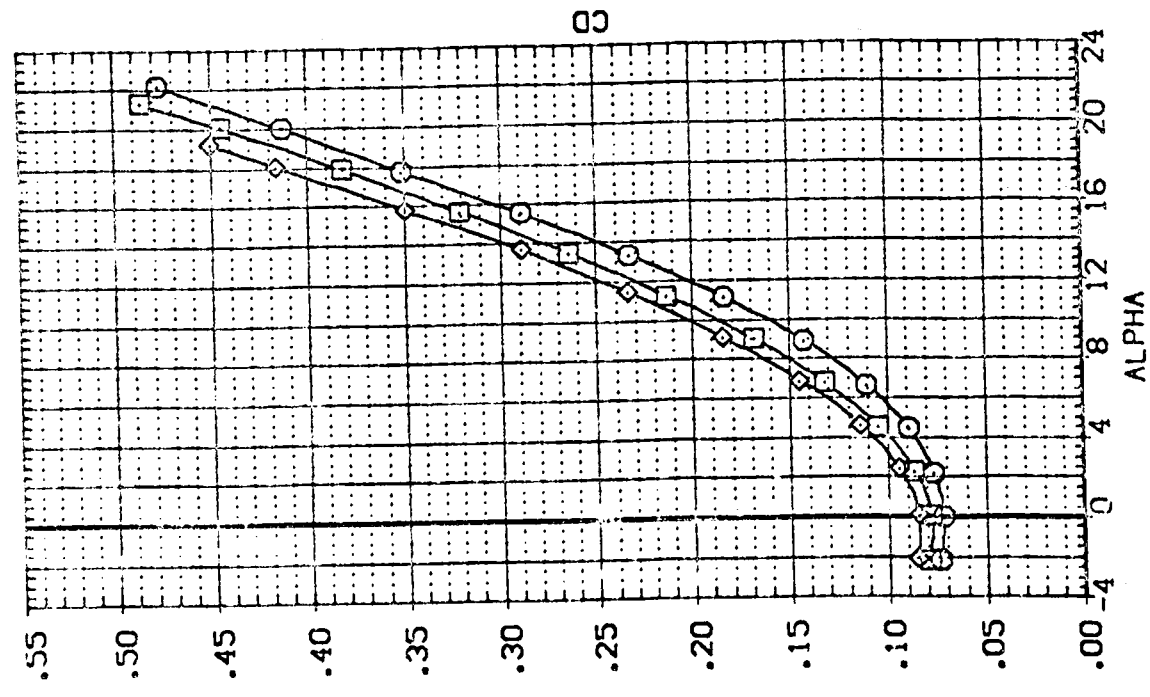
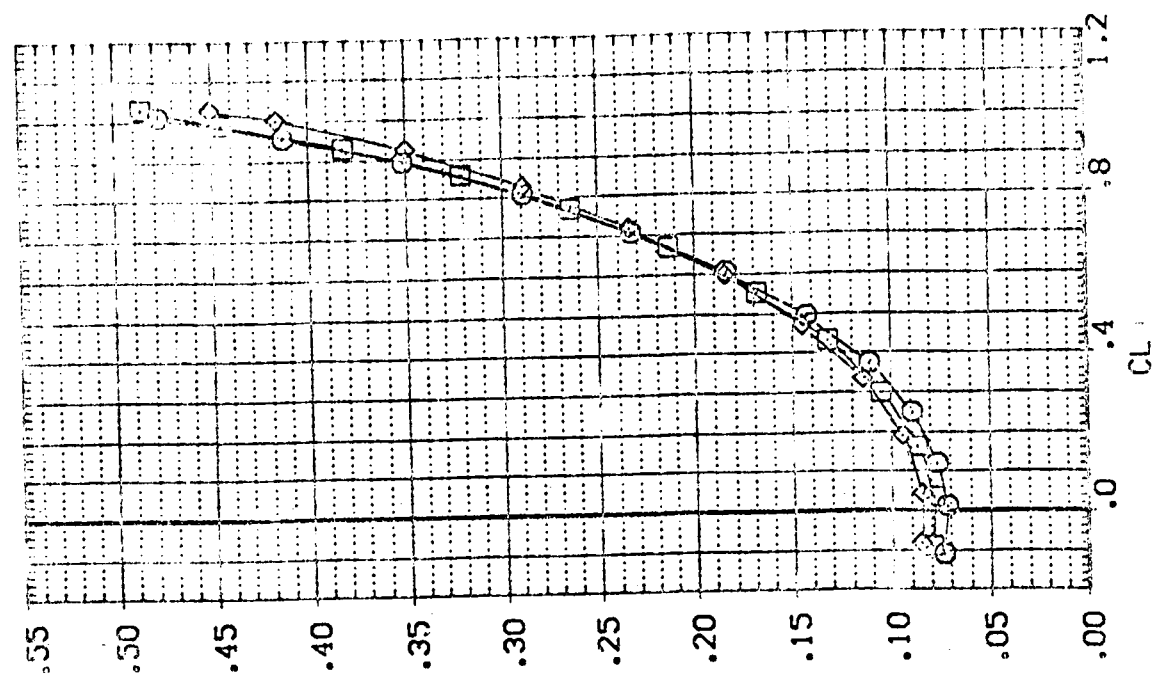
(O)MACH = .98

SEE THE ASSOCIATED DATA DOCUMENT FOR REVERSE CHARACTERISTICS FOR INDIVIDUAL DATASETS

WINDM RUCR RUCR WINDM RUCR
 1,000 1,000 1,000 1,000
 2,000 2,000 2,000 2,000
 3,000 3,000 3,000 3,000

LAYDWF 59.200 46.800 35.000
 (B4V1B) (B4V2B) (B4V3B)
 (B4V4B) (B4V5B) (B4V6B)
 (B4V7B) (B4V8B) (B4V9B)
 (B4V10B) (B4V11B) (B4V12B)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B4V1) (B4V2) (B4V3) (B4V4) (B4V5) (B4V6) (B4V7) (B4V8) (B4V9) (B4V10) (B4V11) (B4V12)



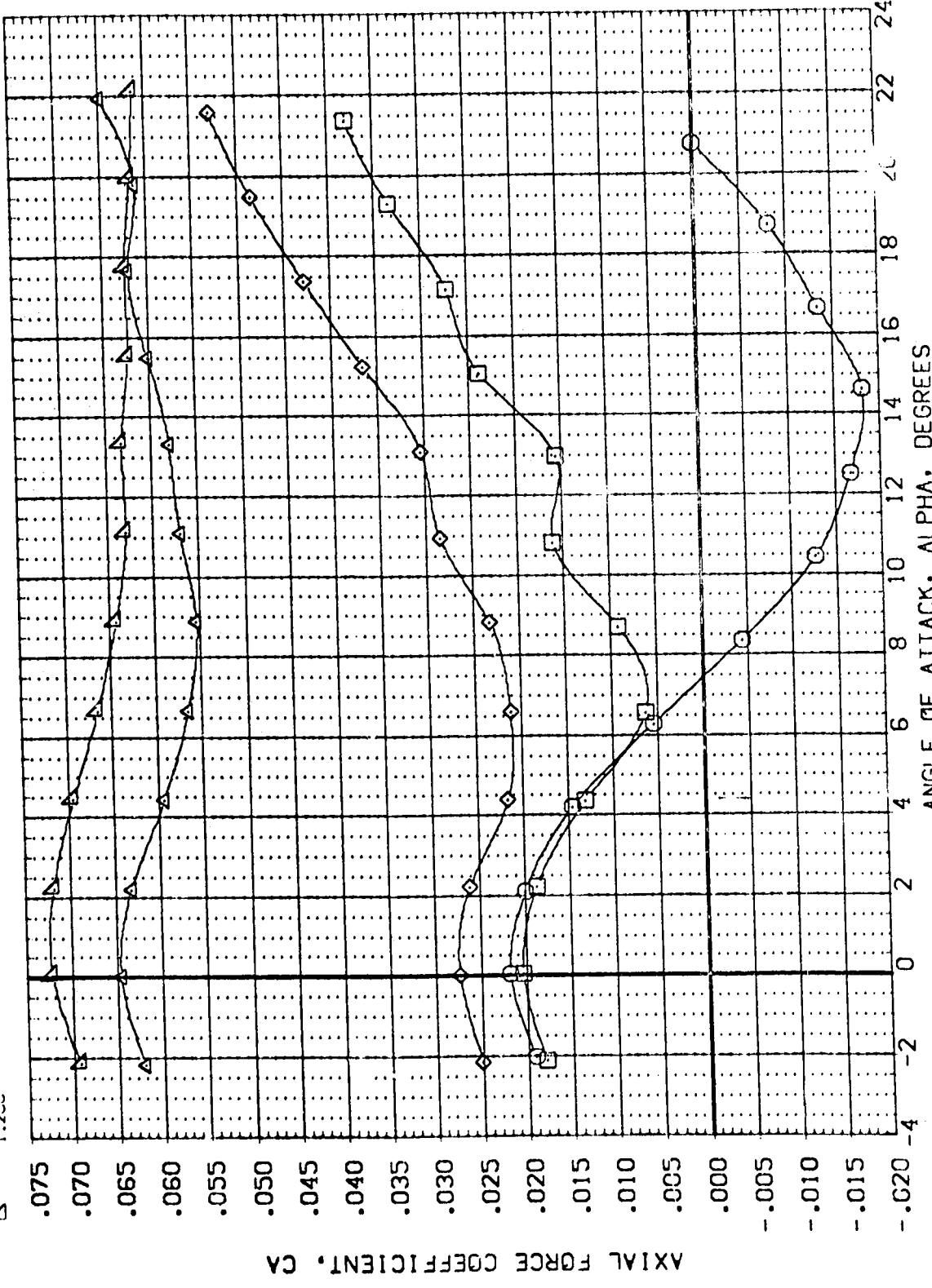
EFFECT OF WING LEADING EDGE SWEEP

(C)MACH = 1.20



LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.349		.000 WINGNO	SREF 175.7376
□	.800	LAMDAF	.000 ELEVTR	I REF 29.5100
◇	.900	BCFLAP	.000 RUJDFLR	BREF 19.7156
△	.980			XMRP 16.8633
	1.200			YMRP .0000
				ZMRP .0000
				SCALE .0188



EFFECT OF MACH NUMBER (B W I V F B)

LARC 8-FT IPT 644 LC-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

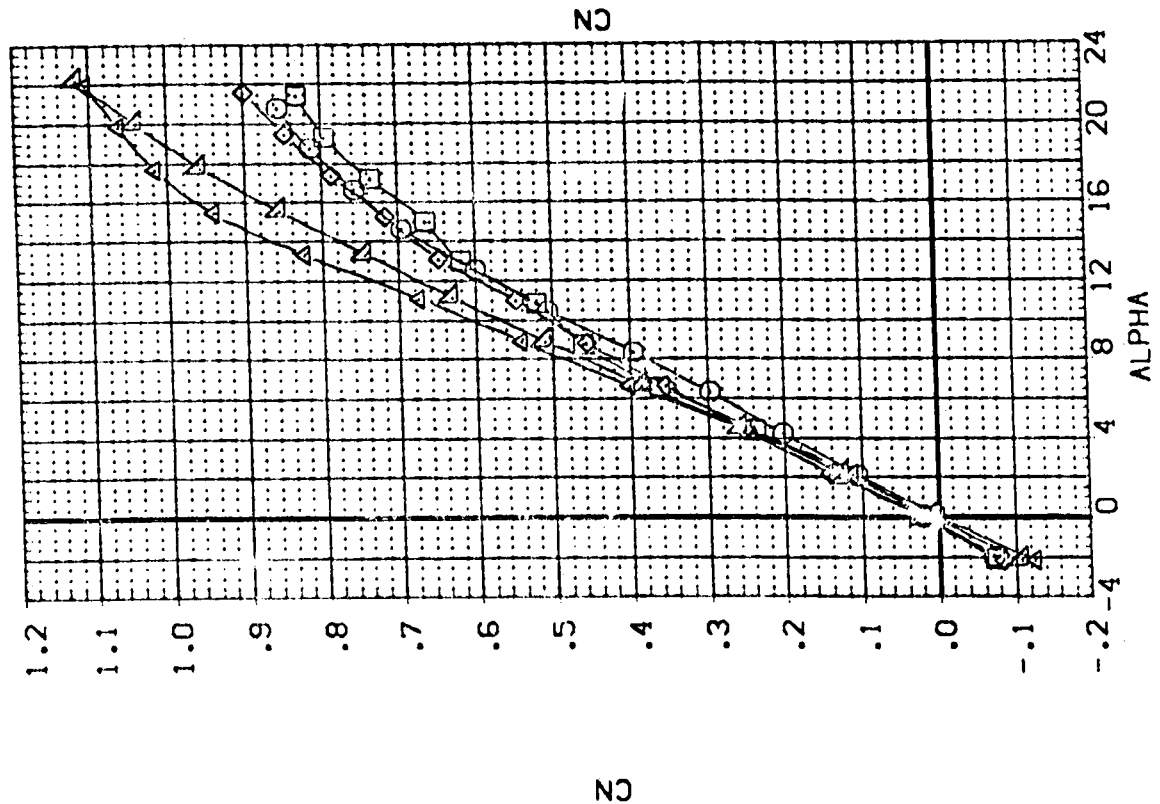
SYMBOL
 ○ □ ◇ △

MACH .349
 .800
 .900
 .980
 1.200

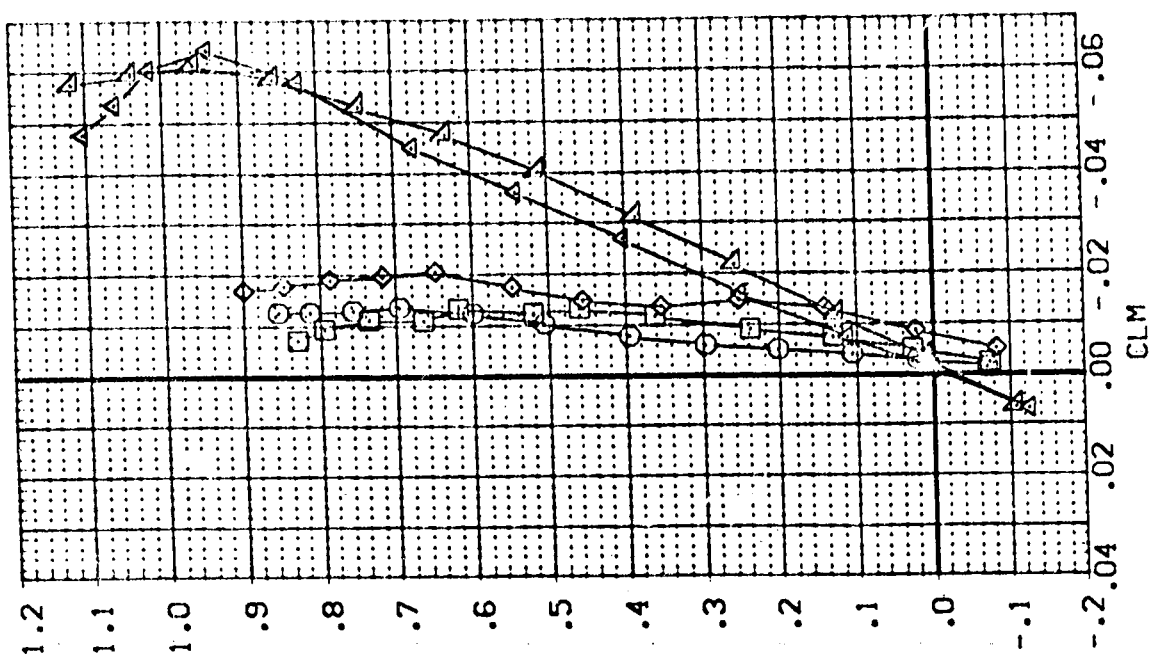
BETA
 LAMDAF
 BCDLAP

PARAMETRIC VALUES
 .000 WINGV
 53.200 ELEVTR
 .000 RUJFLR

1.000
 .000
 .000



REFERENCE INFORMATION
 SREF 175.7376
 LREF 72.5100
 BREF 13.7133
 XREF 18.8633
 WREF .0000
 ZREF .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W1 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL
 ○ □ ◇ △ ▽

MACH .349
 .900
 .900
 .980
 1.200

BETA
 LAMDAF
 BCFLAP

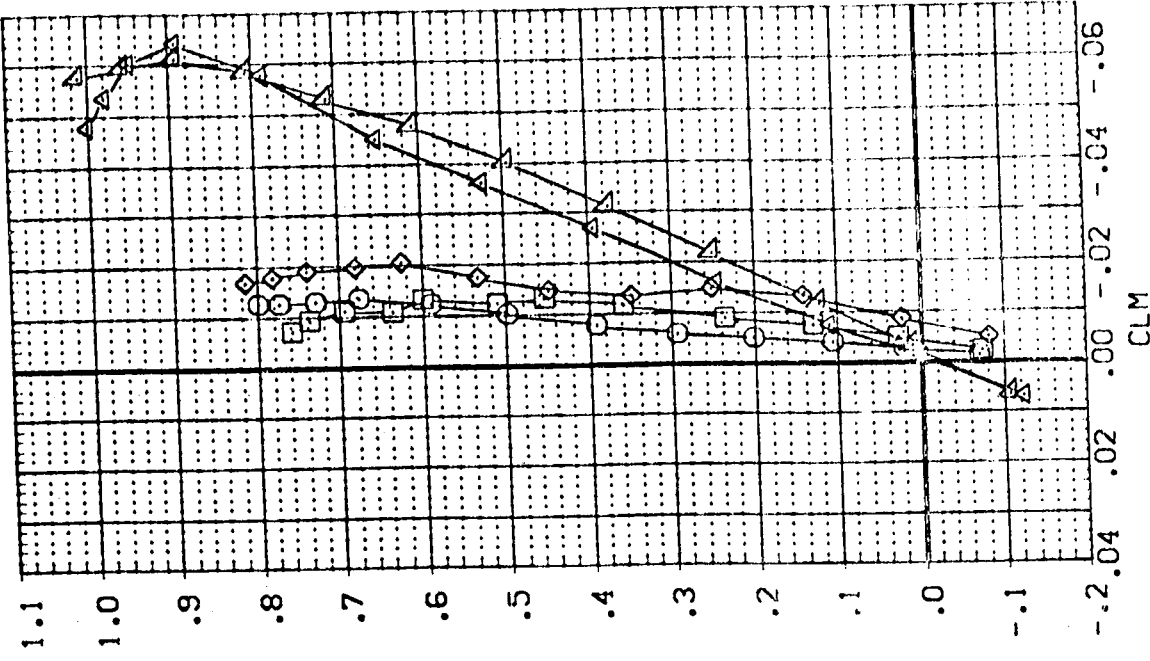
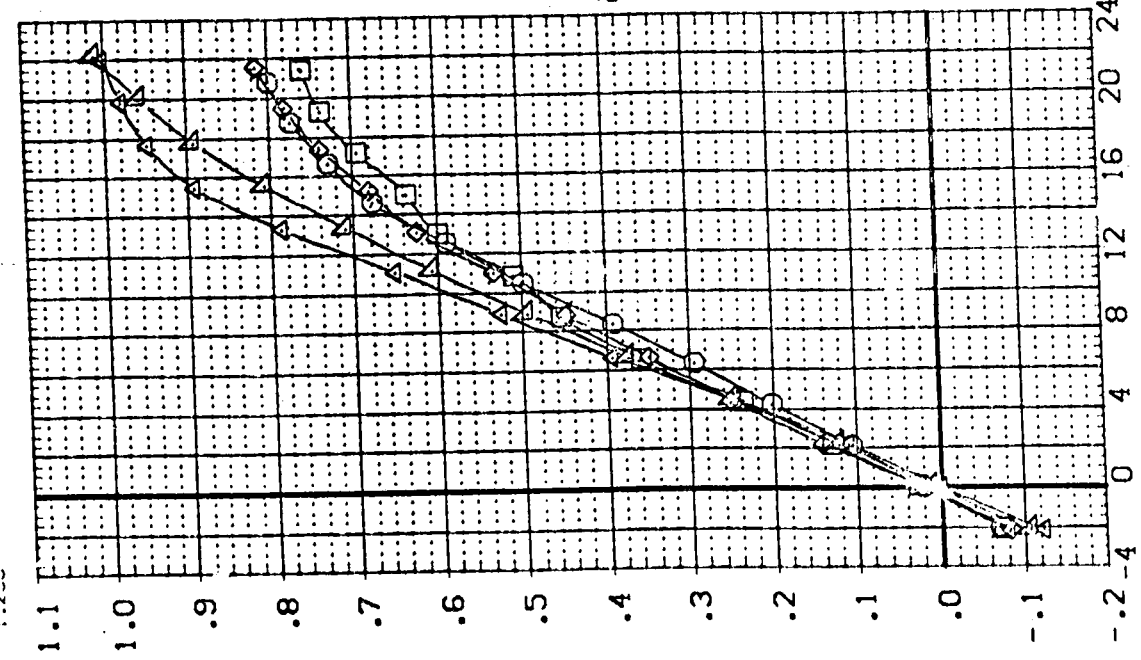
PARAMETRIC VALUES
 .000
 53.200
 .000

WINGNO
 ELEVTR
 RUDELTR

1.000
 .000
 .000

REFERENCE INFORMATION
 SREF 175.7376
 LREF 25.5100
 BREF 19.7155
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188

SO IN:
 INCHES
 INCHES
 INCHES
 INCHES
 INCHES
 INCHES
 SCALE



3

3

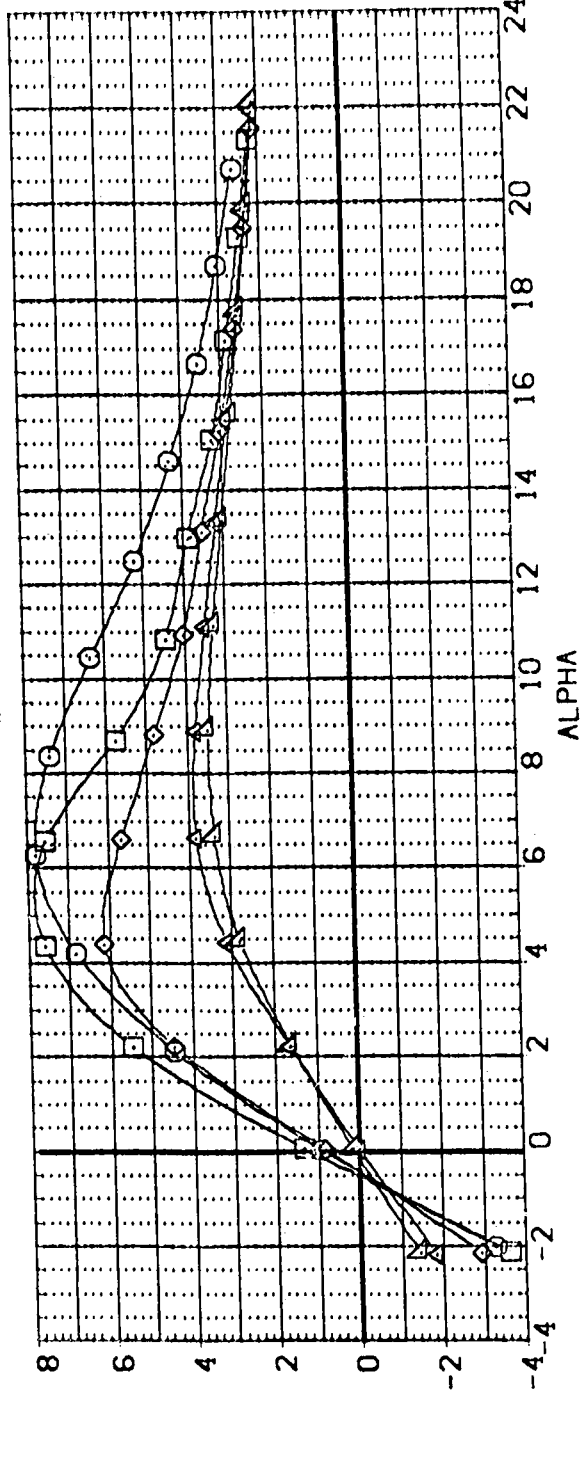
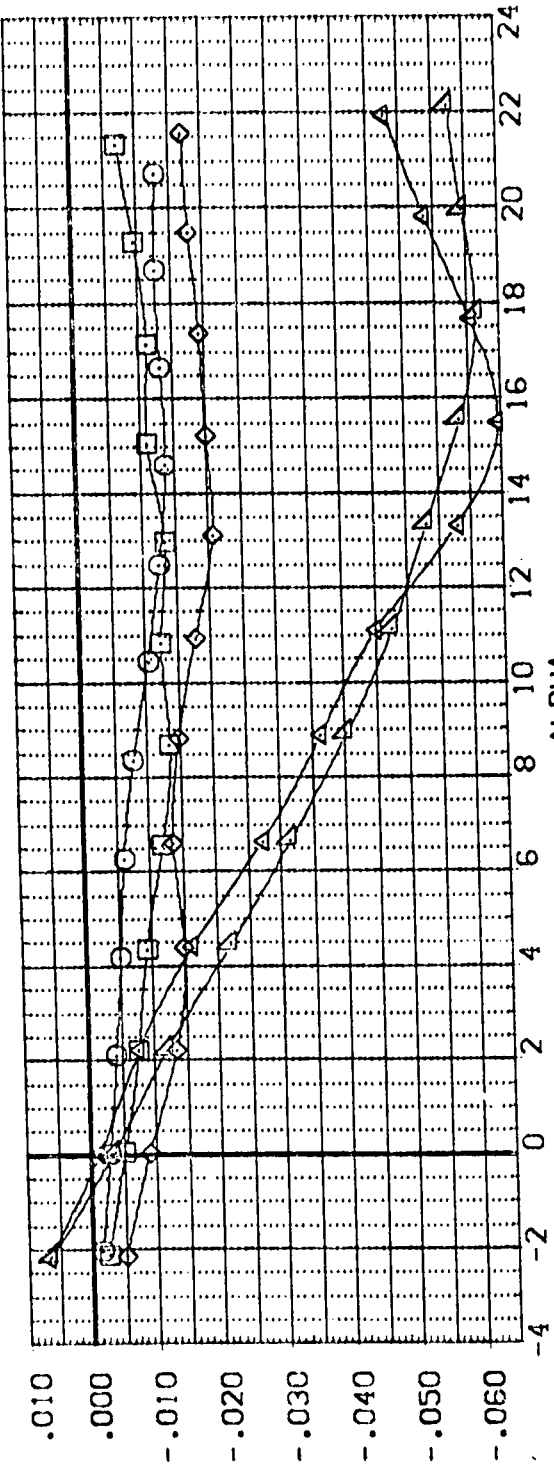
EFFECT OF MACH NUMBER (B W I V F B)

REFERENCE INFORMATION
 SREF 175.7376
 .REF 20.5100
 XREF 19.8633
 YREF 16.0000
 ZREF 16.0000
 SCALE 10.189

PARAMETRIC VALUES
 .000 WINGC 1.000
 .000 ELEVTR .000
 .000 RUDFLR .000
 .000 BCFLAP
 .000

MACH .349
 BETA .800
 LAMDAF 53.200
 BCFLAP .900
 .980
 1.200

SYMBOL
 ()
 []
 ◇
 △



EFFECT OF MACH NUMBER (9 W1 V FB)



LARC 8-FT TPT 644 LQ-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL
 ○ □ ◇ △

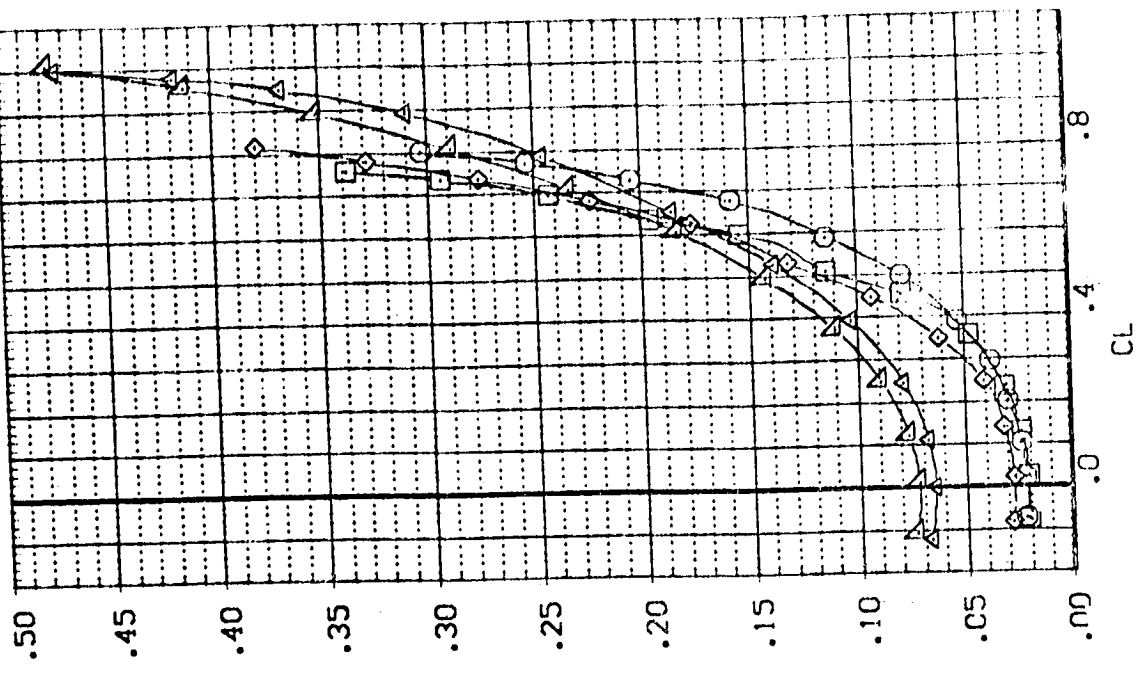
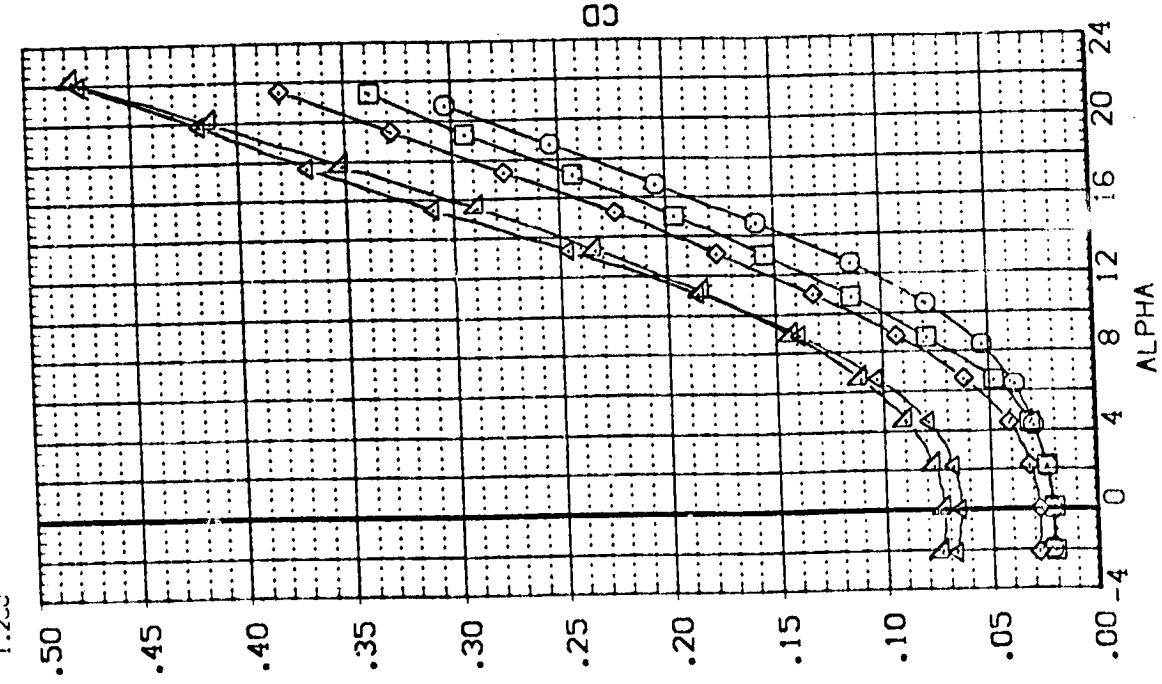
MACH
 .349
 .800
 .900
 .980
 1.200

BETA
 LAMCAF
 BCFLAP

PARAMETRIC VALUES
 .000
 .000
 .000

WINGND
 ELEVTR
 RJDCLR

REFERENCE INFORMATION
 SREF 175.7376
 LREF 25.5100
 BREF 19.7156
 XMRP 16.8632
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W 1 V F B)

LARC 8-ET TPT 644 LC-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	SCALE
□	.350	.000	WINGMD 7.000	.0188
◇	.800	46.800	ELEVTR .000	
△	.999	.000	RJDFLR .000	
▽	.980			
	1.199			



EFFECT OF MACH NUMBER (B W2 V FB)



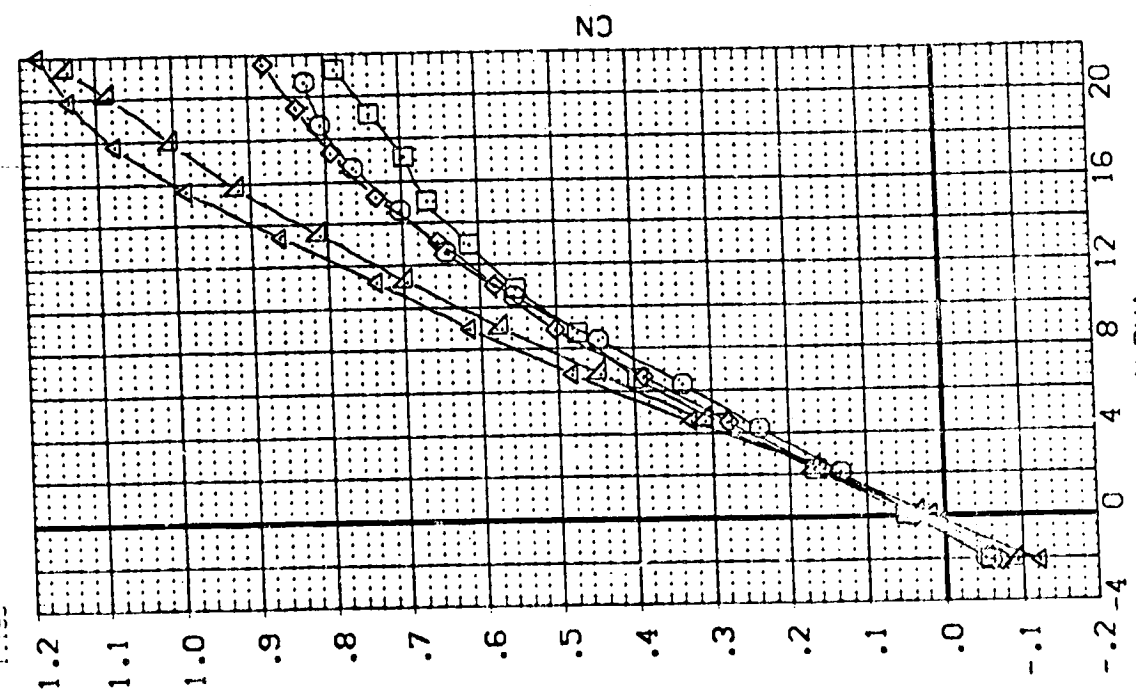
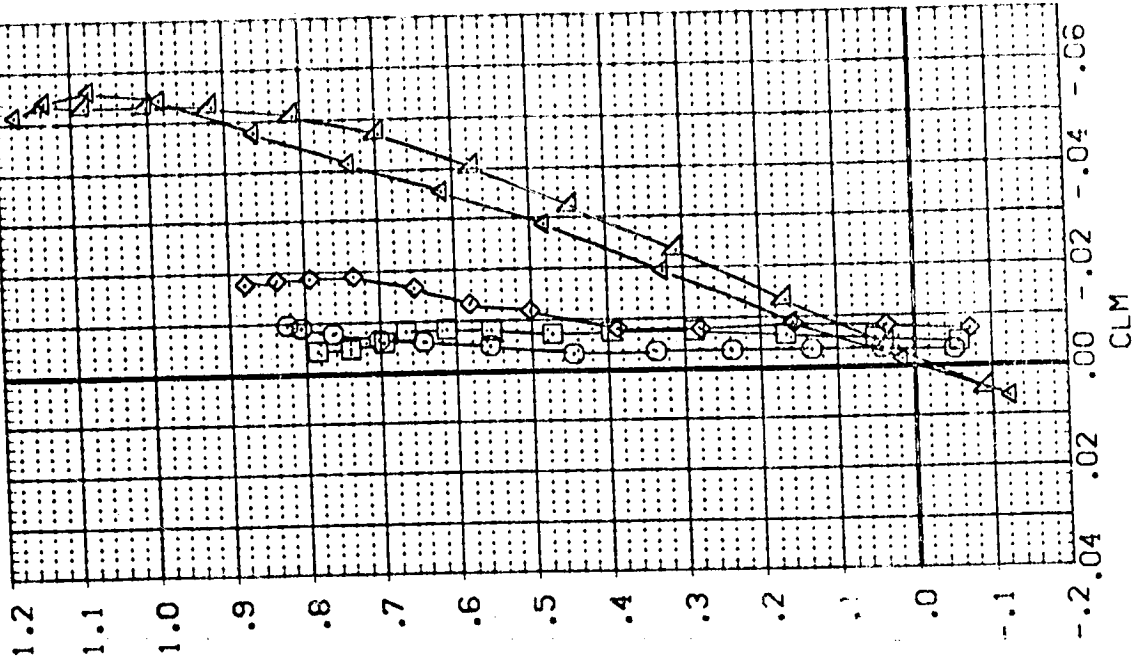
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL
 ○ □ △ ▽

MACH
 .35C
 .80C
 .89S
 .98C
 1.19S

PARAMETRIC VALUES
 .000 WINGND 2.000
 .800 ELEVTR .000
 .000 RUDFLR .000

REFERENCE INFORMATION
 SREF 171.472C
 LREF 25.510C
 BREF 20.3597
 XMRP 16.8533
 VMRP .000
 ZMRP .000
 SCALE .0188



EFFECT OF MACH NUMBER (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL
 ○ □ ◇ △

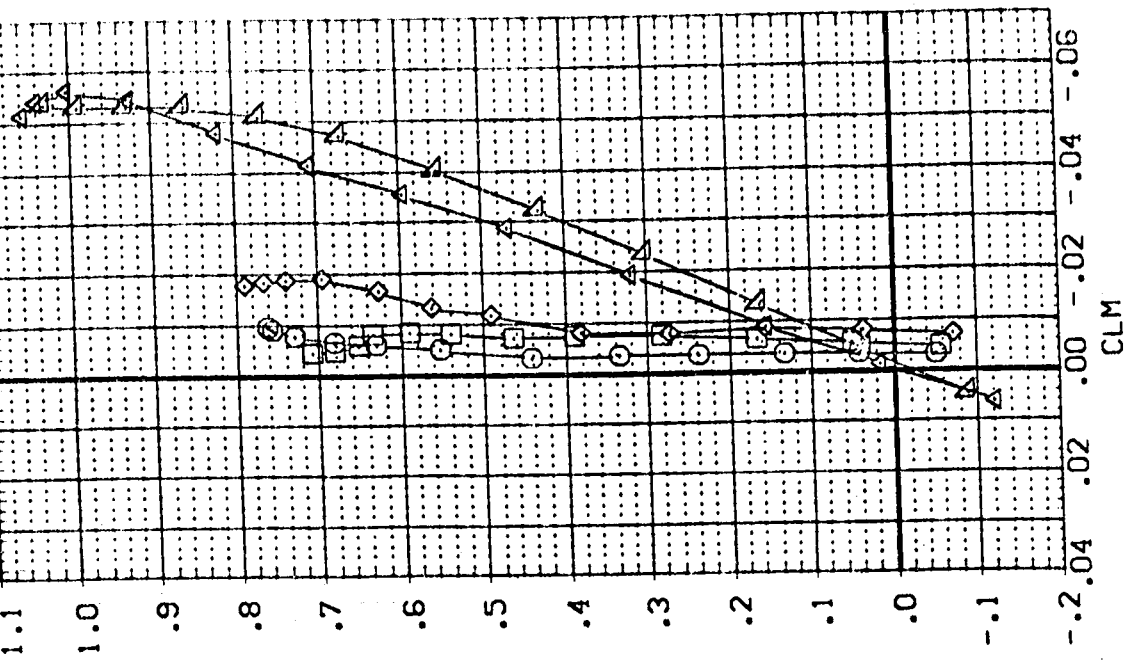
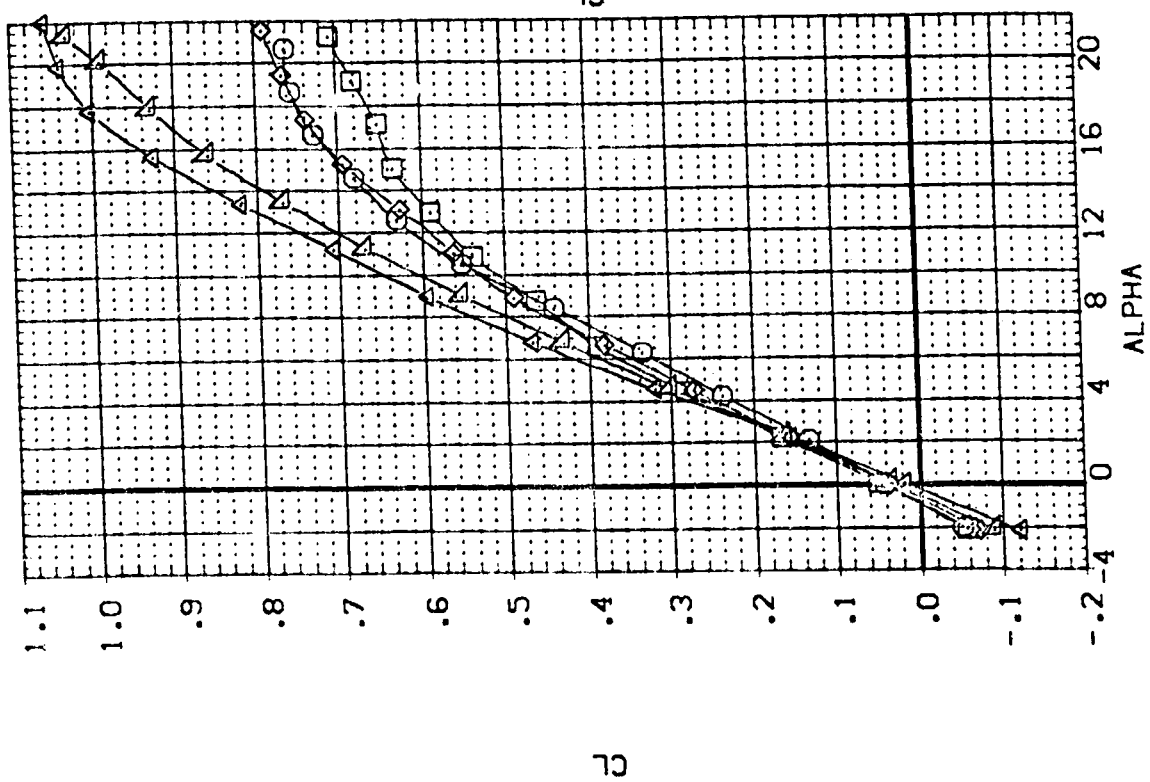
MACH
 .350
 .800
 .899
 .960
 1.199

BETA
 LAMDAF
 BDFLAP

PARAMETRIC VALUES
 .000 WINGC 2.000
 46.800 ELEVIR .000
 .000 RUDFLR .000

SRGF
 LREF
 BRFF
 XWRP
 YWRP
 ZWRP
 SCALE

REFERENCE INFORMATION
 171.4720
 25.5100
 20.3557
 16.8633
 .0000
 .0000
 .0188



EFFECT OF MACH NUMBER (B W2 V FB)



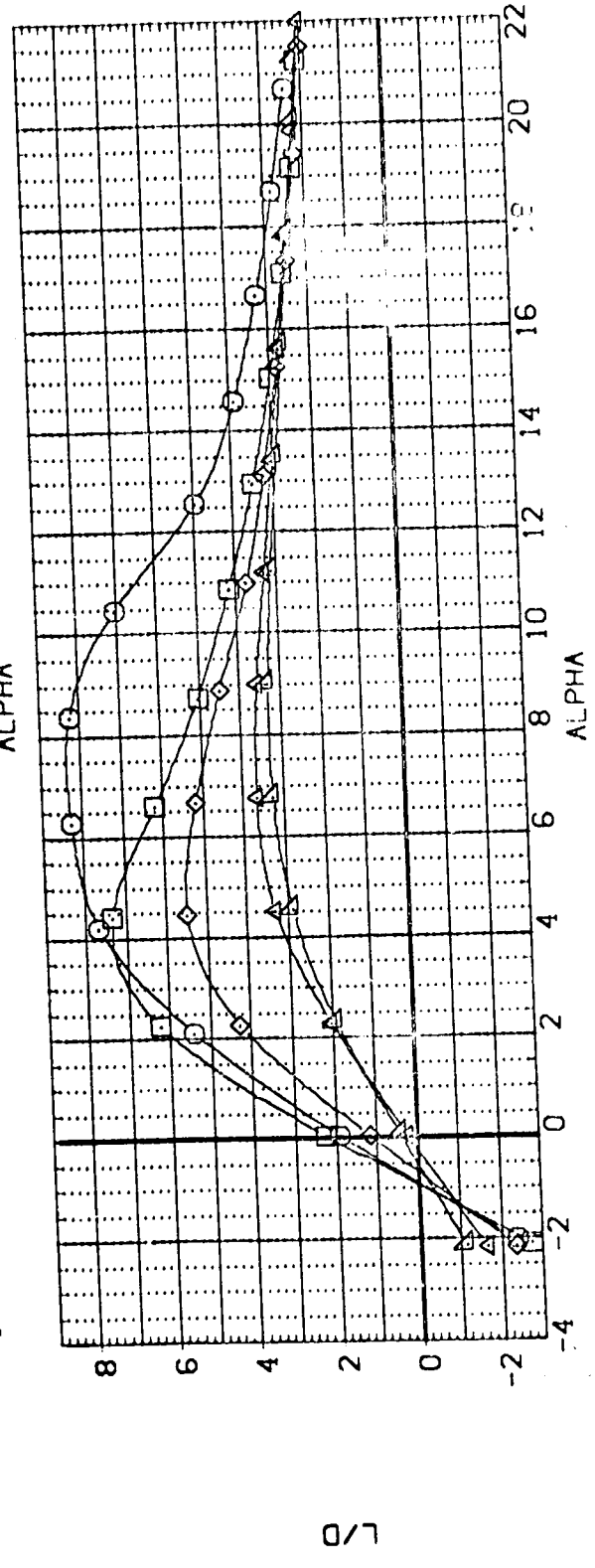
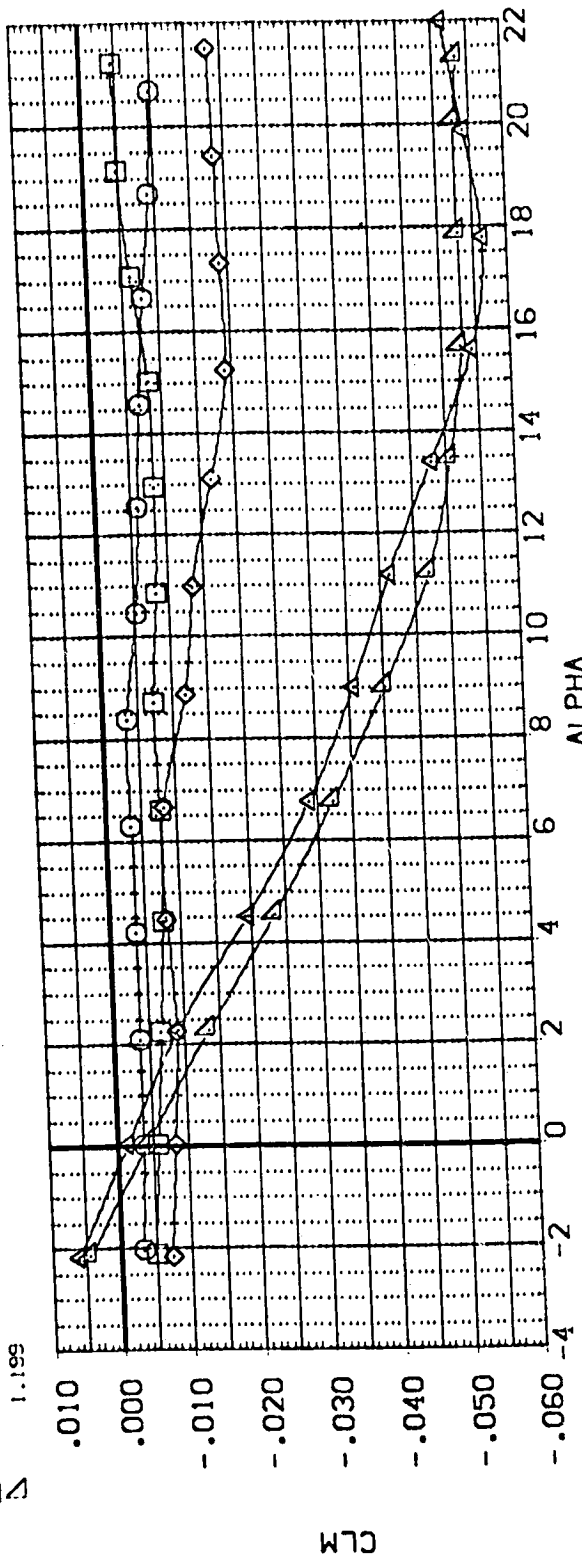
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

REFERENCE INFORMATION
 SREF 171.4720 SG IN.
 LREF 25.5100 INCHES
 BREF 20.3697 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188

PARAMETRIC VALUES
 BETA .000 WINGNO 2.000
 LAMDAF 46.800 ELEVTR .000
 BCFLAP .000 RJDFLR .000

MACH .350
 .800
 .899
 .980
 1.199

SYMBOL
 ○ □ ◇ △



EFFECT OF MACH NUMBER (B W2 V FB)

LARC 8-F TPT 644 LC-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

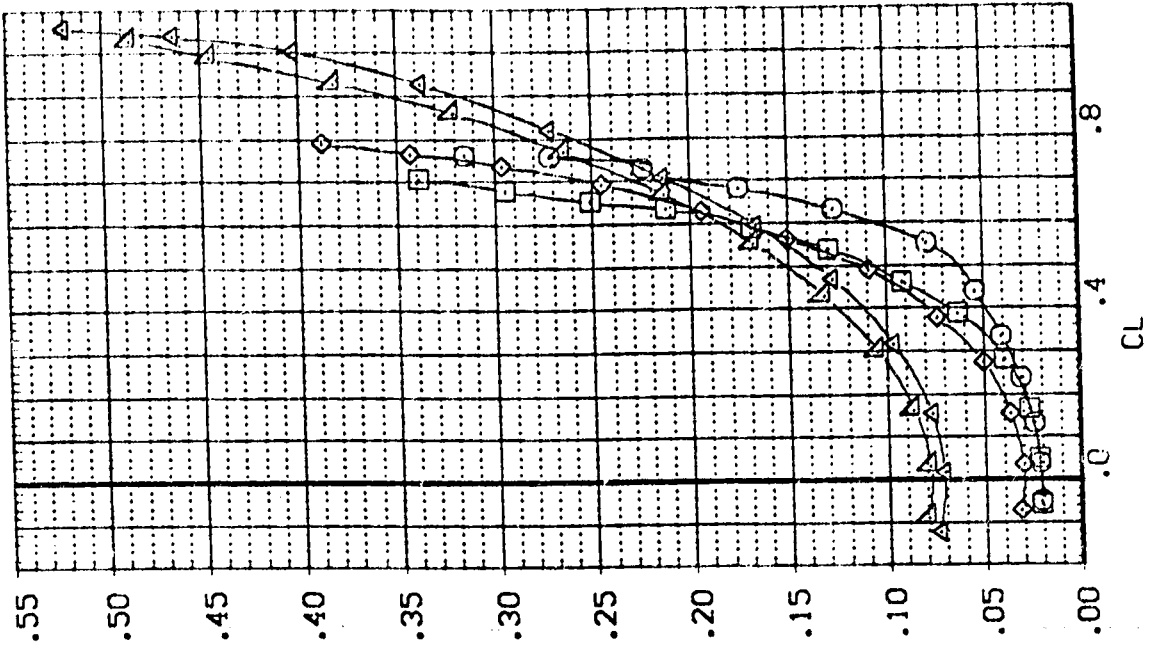
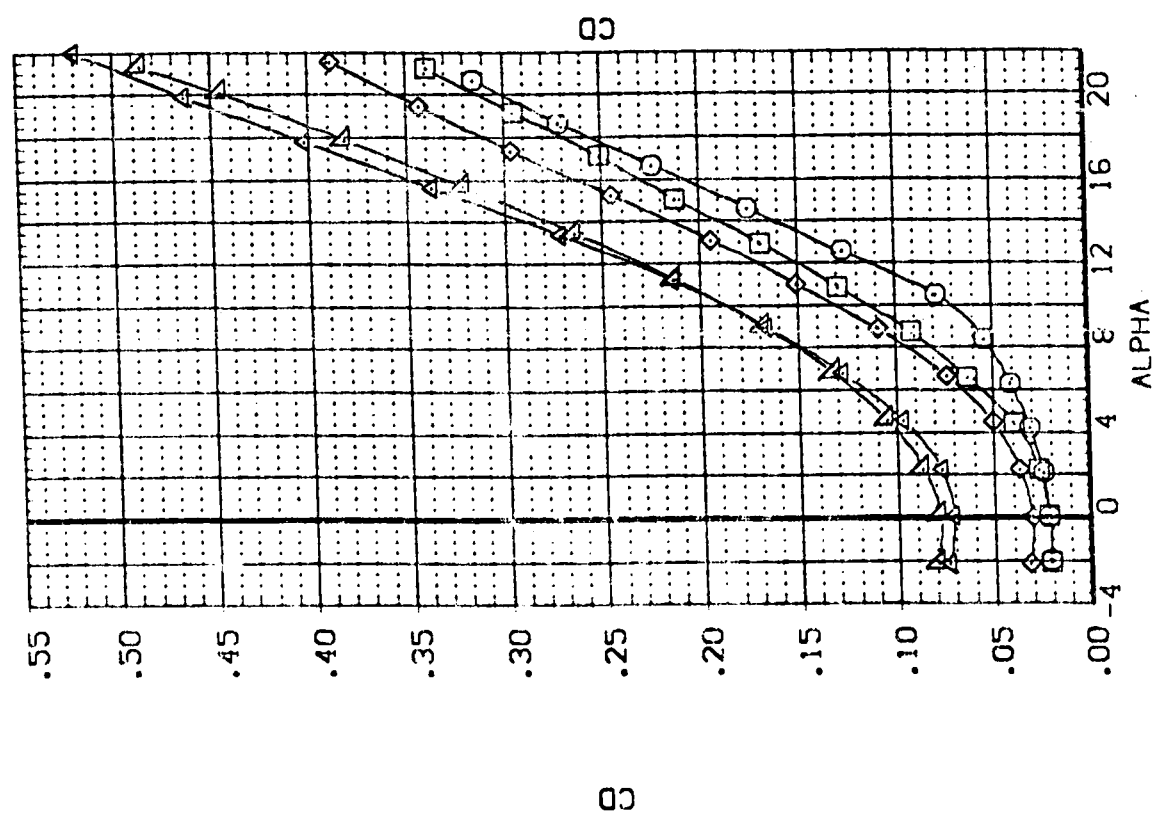
SYMBOL
 ○
 □
 △

MACH
 .350
 .800
 .889
 .990
 1.199

PARAMETRIC VALUES
 .000 WINGND 2.000
 .45.800 ELEVTR .000
 .000 RUJDFLR .000

SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 171.4720
 25.5100
 22.9997
 16.8633
 .0000
 .0000
 .0188



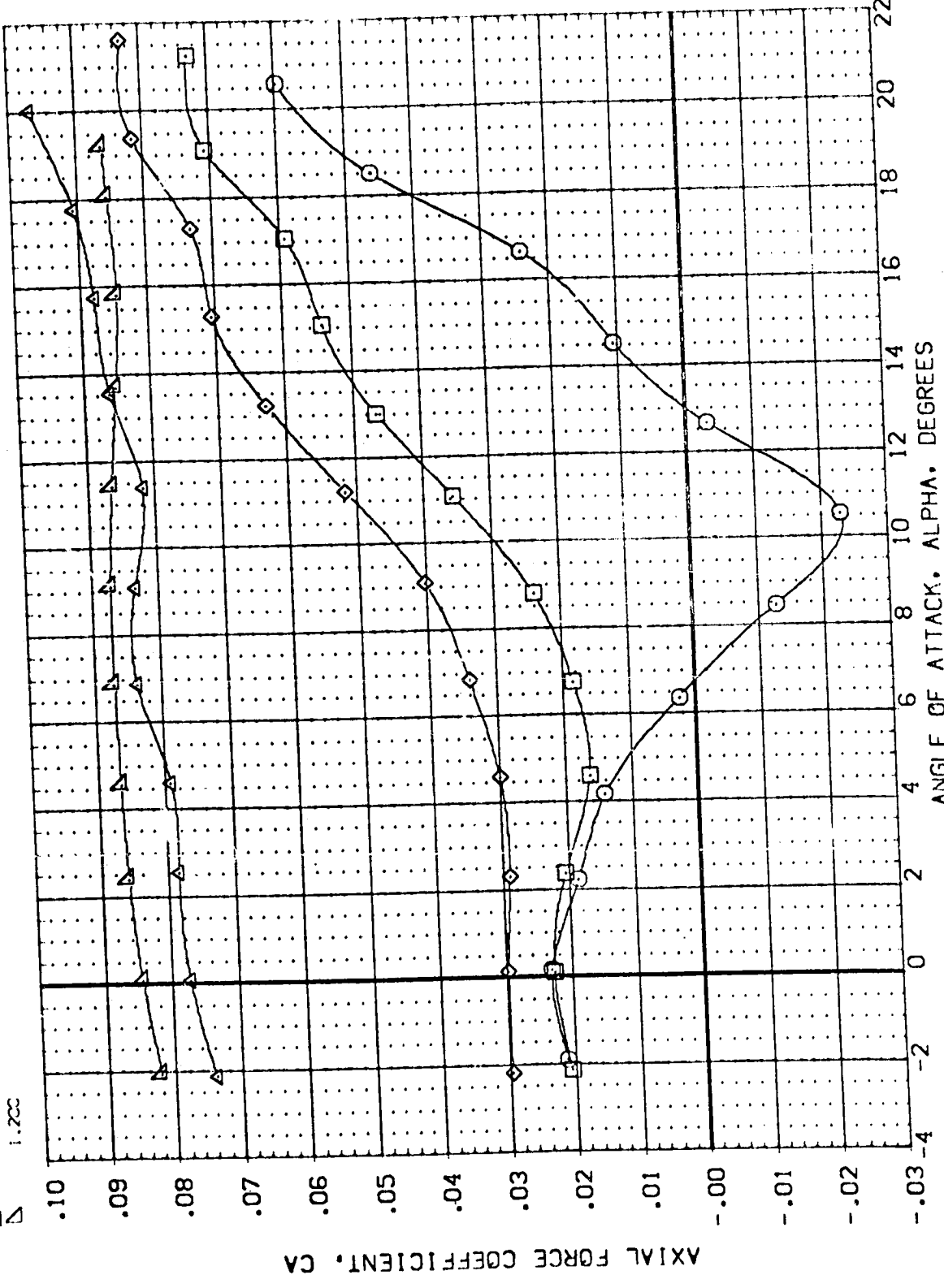
EFFECT OF MACH NUMBER (B W2 V F B)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.9096
 XMRP 1.6
 YMRP 8533
 ZMRP .0000
 SCALE .0188

PARAMETRIC VALUES
 MACH .349
 BETA .000
 WINGNO 3.000
 LAMCAF 35.000
 ELEVTR .000
 RCFLAP .000
 SCALE 1.200



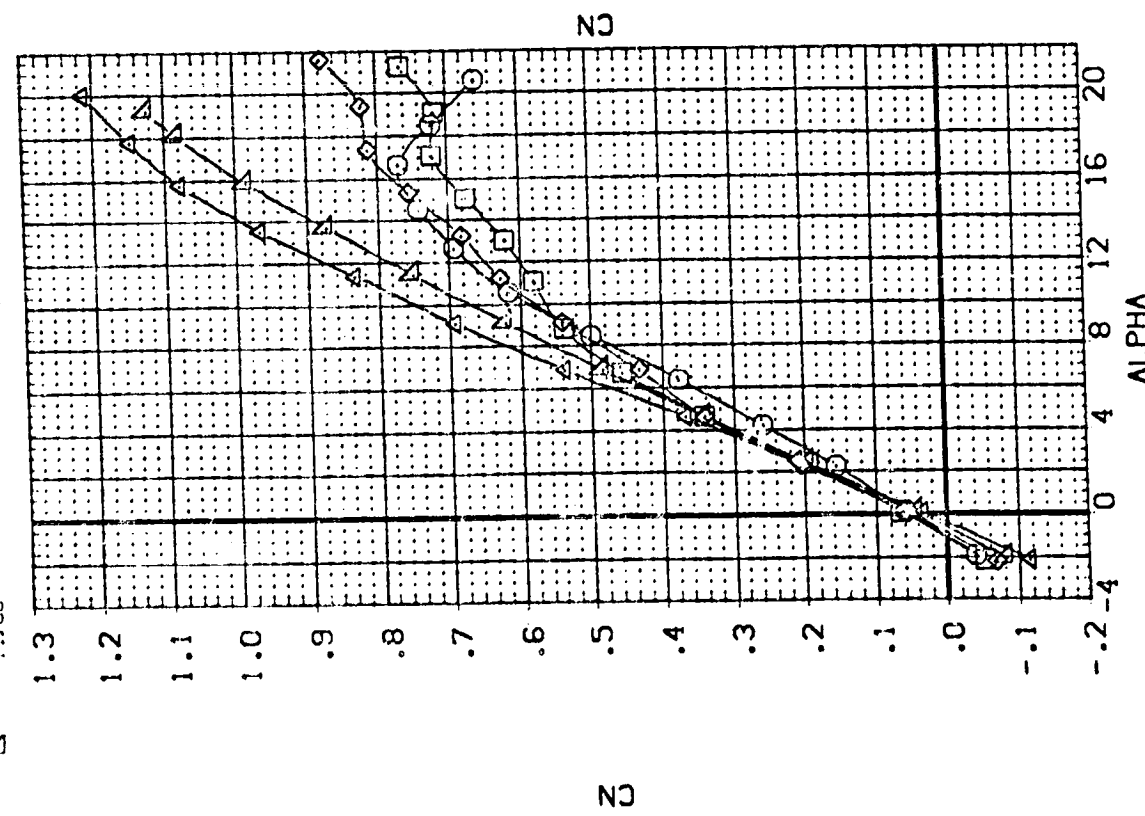
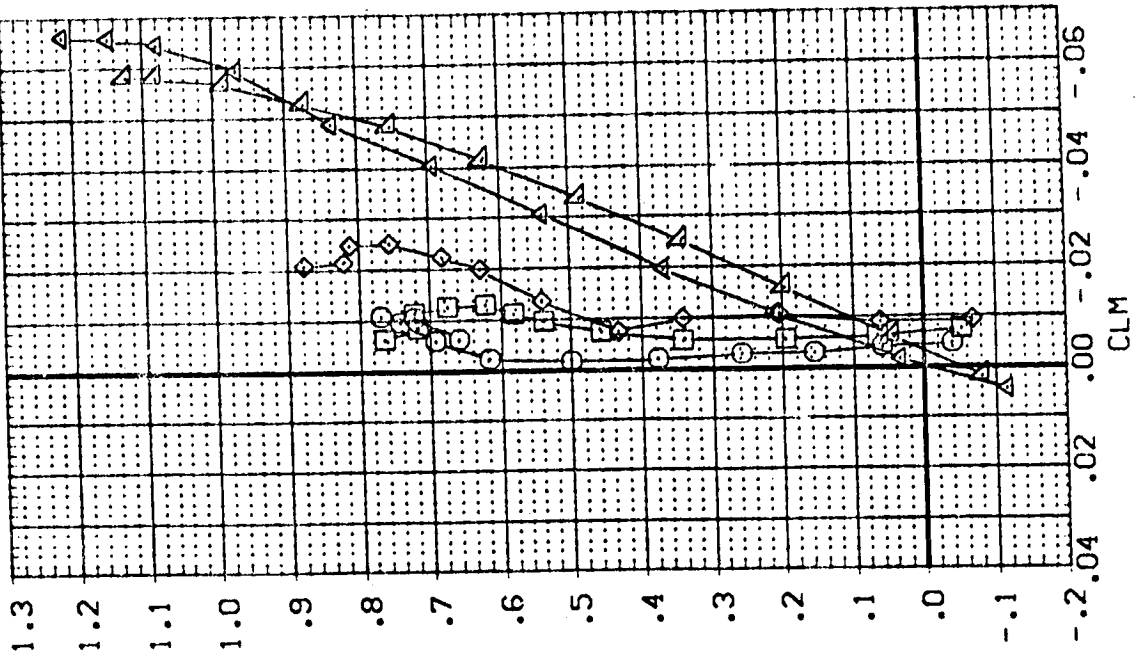
EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TBT 644 LC-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

PARAMETRIC VALUES
 MACH .345
 BETA .000
 LAMCAF 35.000
 BCFLAP .000
 RUCFLR .000
 RUCFLR .000
 SCALE 1.200

REFERENCE INFORMATION
 SREF 173.1312
 LREF 29.5100
 BREF 20.9296
 XMRP 16.8533
 YMRP .0000
 ZMRP .0000
 SCALE .0188

SYMBOL
 ○ □ △



EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TPT 644 L0-10C ORBITER(SHIPS) (BW3VFB) (RP5016)

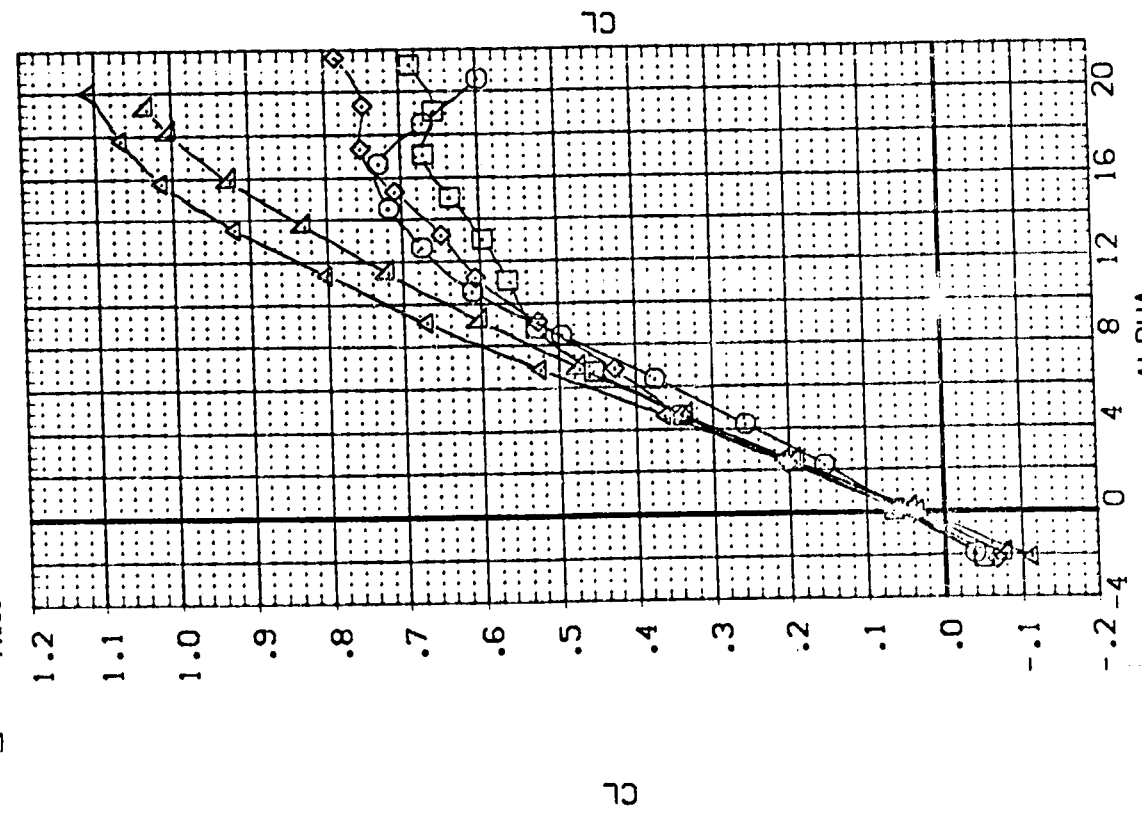
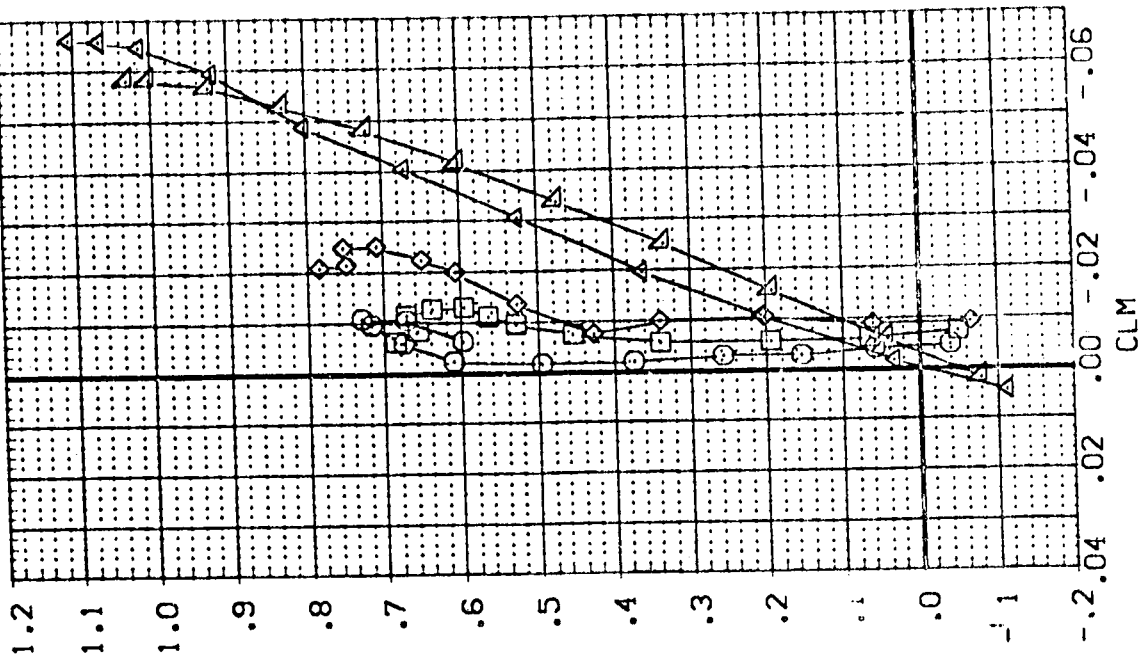
SYMBOL
 ○ □ ◇ △

MACH
 .349
 .758
 .899
 .98C
 1.2CC

PARAMETRIC VALUES
 BETA .000
 LAMDAF 35.000
 BDFLAP .000

WINGC 3.000
 ELEVTR .000
 RUDFLR .000

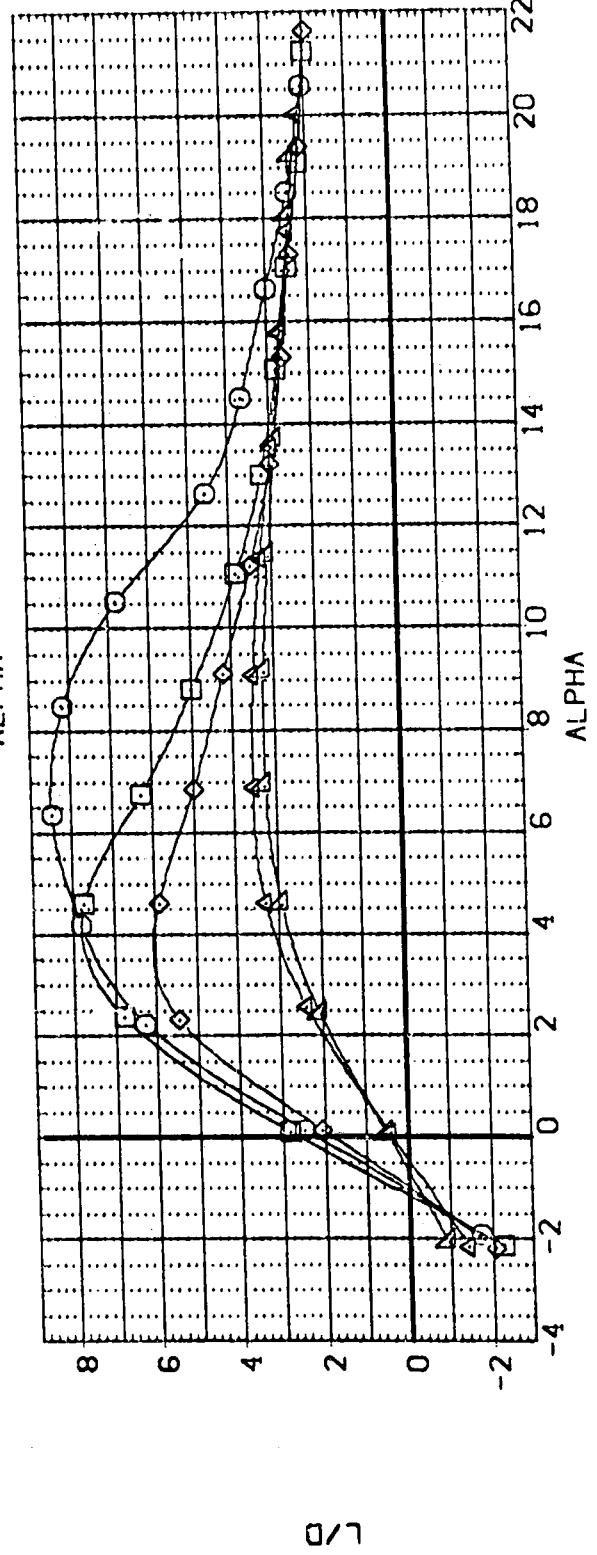
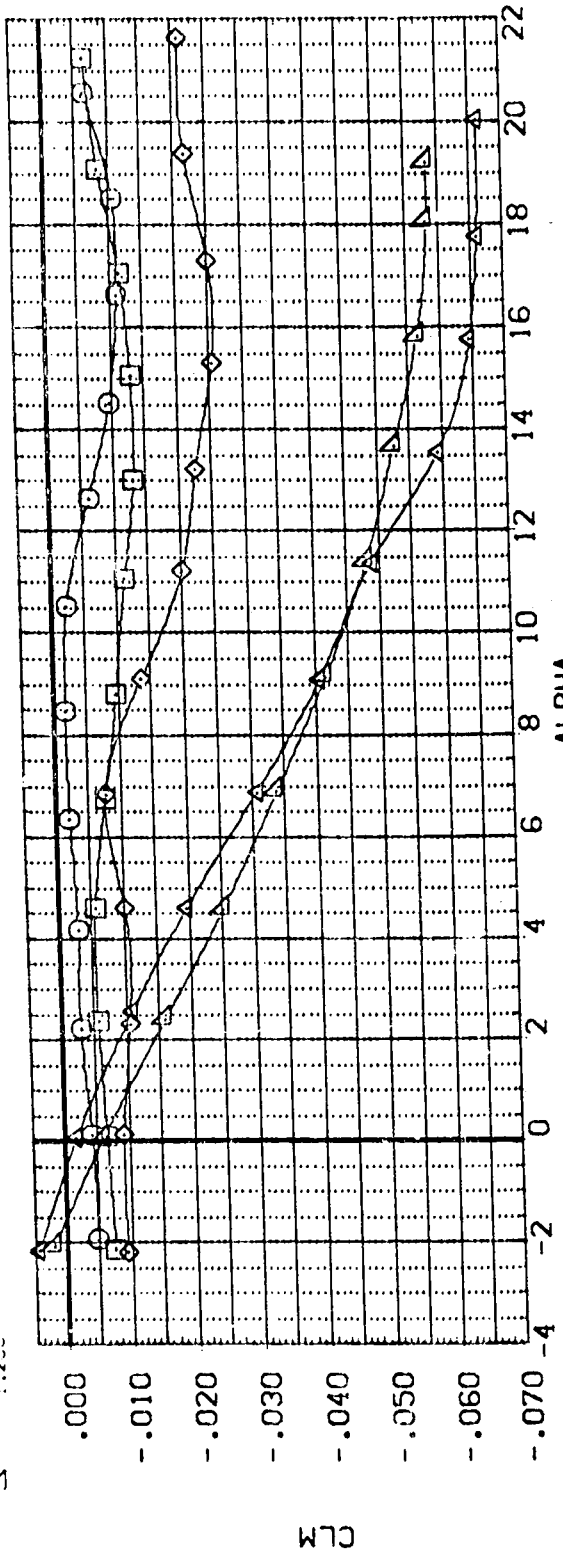
REFERENCE INFORMATION
 SREF 179.1312
 LREF 75.5100
 BREF 20.9096
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.349	.000	WINGMC 3.000	SREF 173.1312
□	.799	.000	ELEVTR .000	LREF 25.5100
◇	.899	.000	RUDFLR .000	BREF 20.8699
△	.999	.000		XMRD 16.8633
	1.200			VMRD .0000
				ZMRD .0000
				SCALE .0169



EFFECT OF MACH NUMBER (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

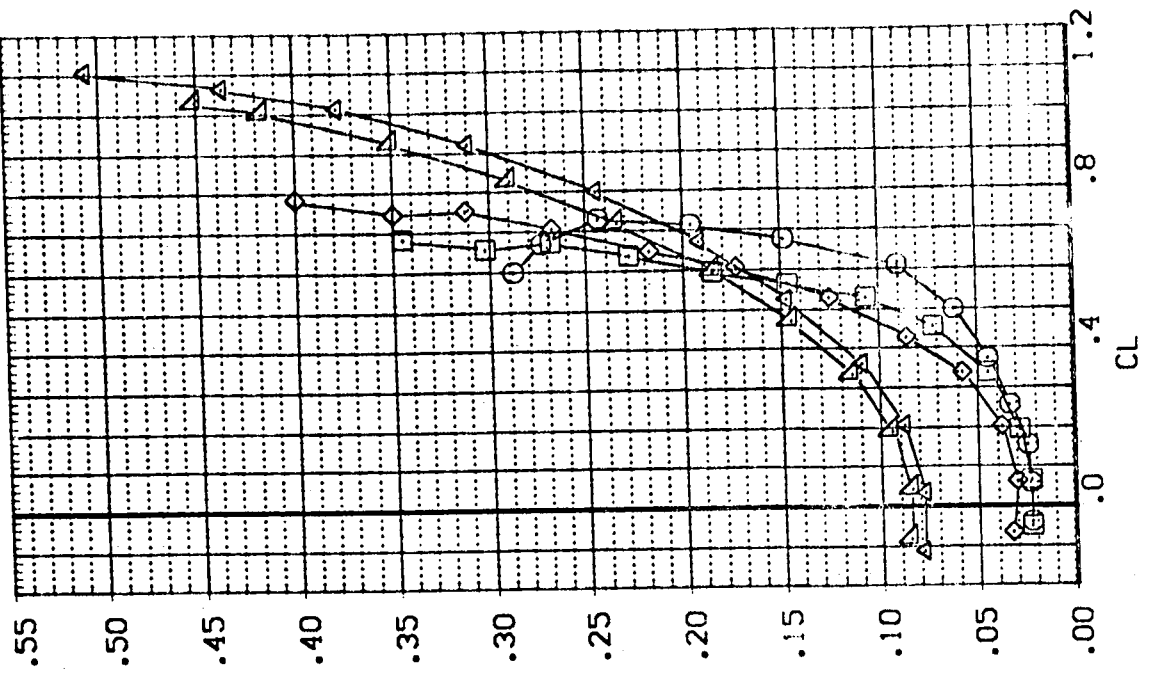
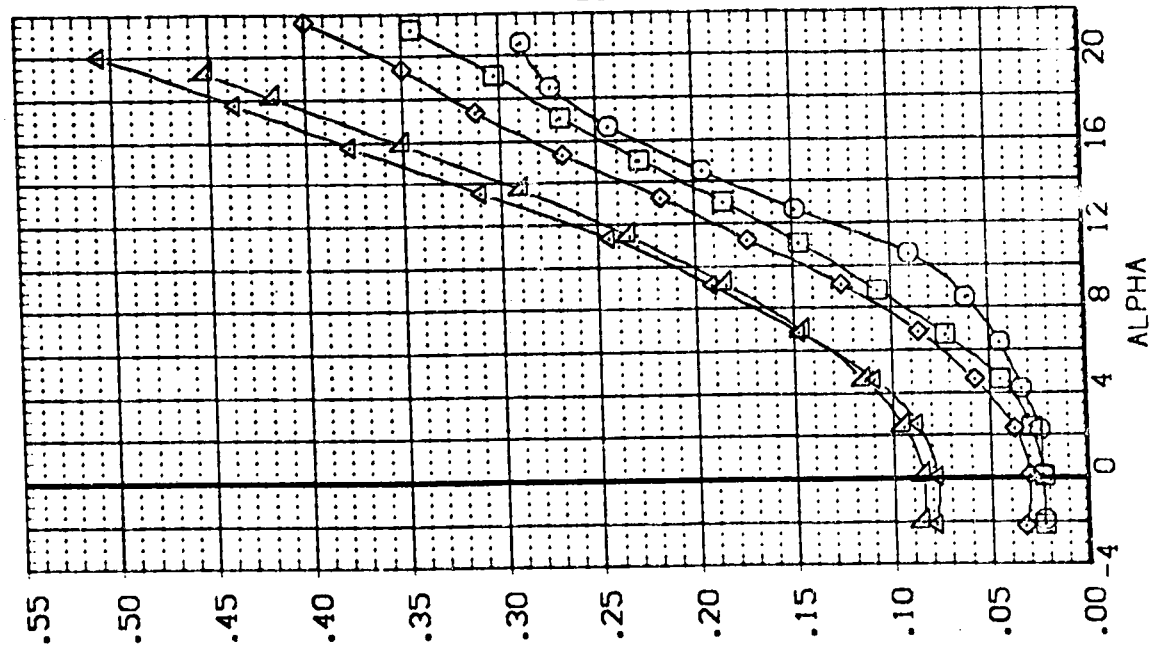
SYMBOL
 ○ □ ◇ ▲

MACH
 .345
 .798
 .899
 .980
 1.200

PARAMETRIC VALUES
 .000 WINGNO 3.000
 35.000 ELEVTR .000
 .000 RJDFLR .000

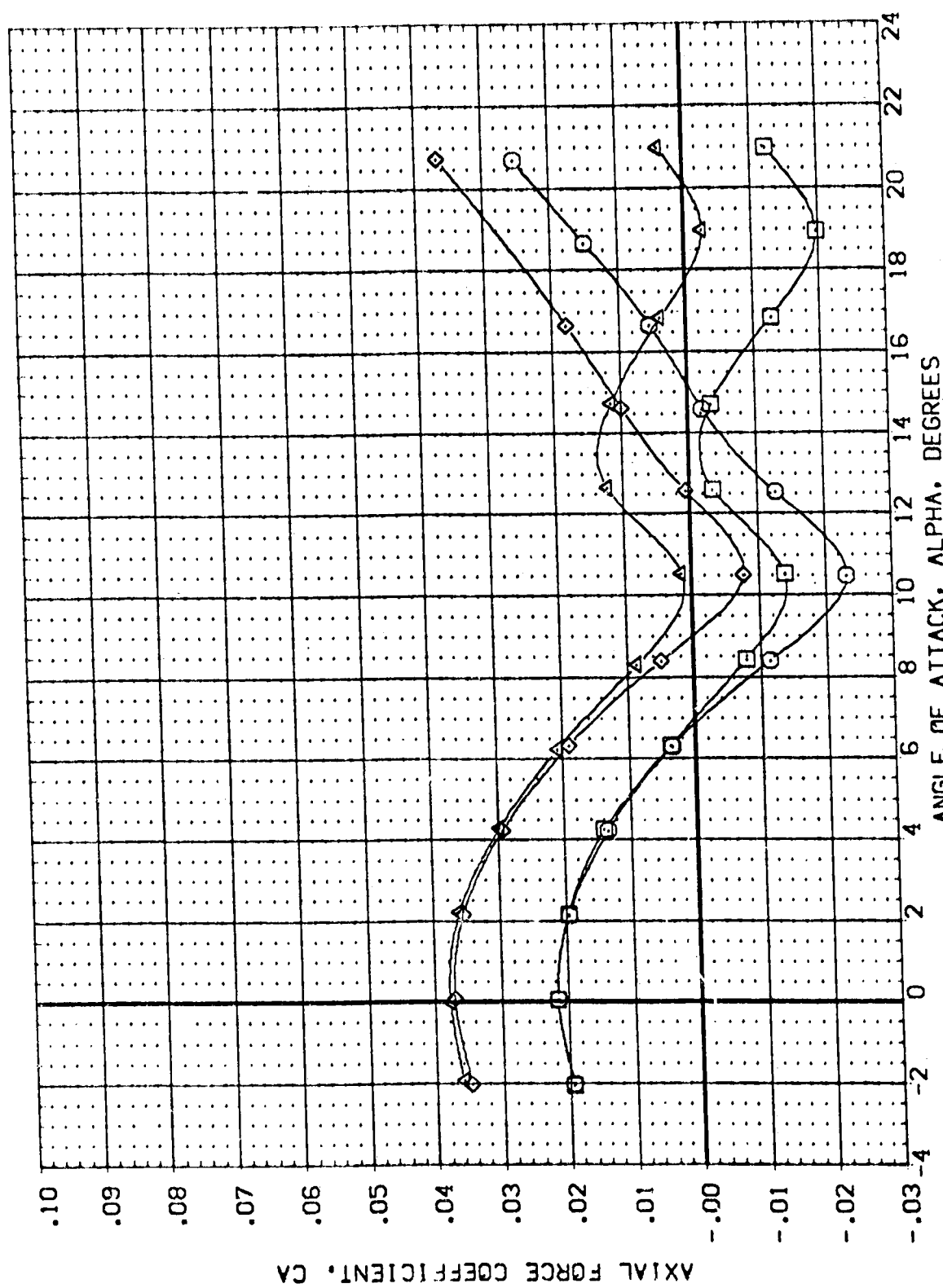
SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 173.1312 SQ. IN.
 25.5100 INCHES
 20.8096 INCHES
 16.8633 INCHES
 .0000 INCHES
 .0188 SCALE



EFFECT OF MACH NUMBER (B W3 V FB)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RJDFLR	BDFLAP	REFERENCE INFORMATION
RP5007	LARC 8-FT TPT 644 LC-100 CRB/TER(SHIPS) (BV2VFB)	45.800	2.000	.000	.000	SREF 171.4720
RP5012	LARC 8-FT TPT 644 LC-100 CRB/TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100
RP5014	LARC 8-FT TPT 644 LC-100 CRB/TER(SHIPS) (BV2VFB)	45.800	2.000	10.000	.000	BREF 20.3367
RP5015	LARC 8-FT TPT 644 LC-100 CRB/TER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	XMRP 16.8833
						ZMRP .0000
						SCALE .0189

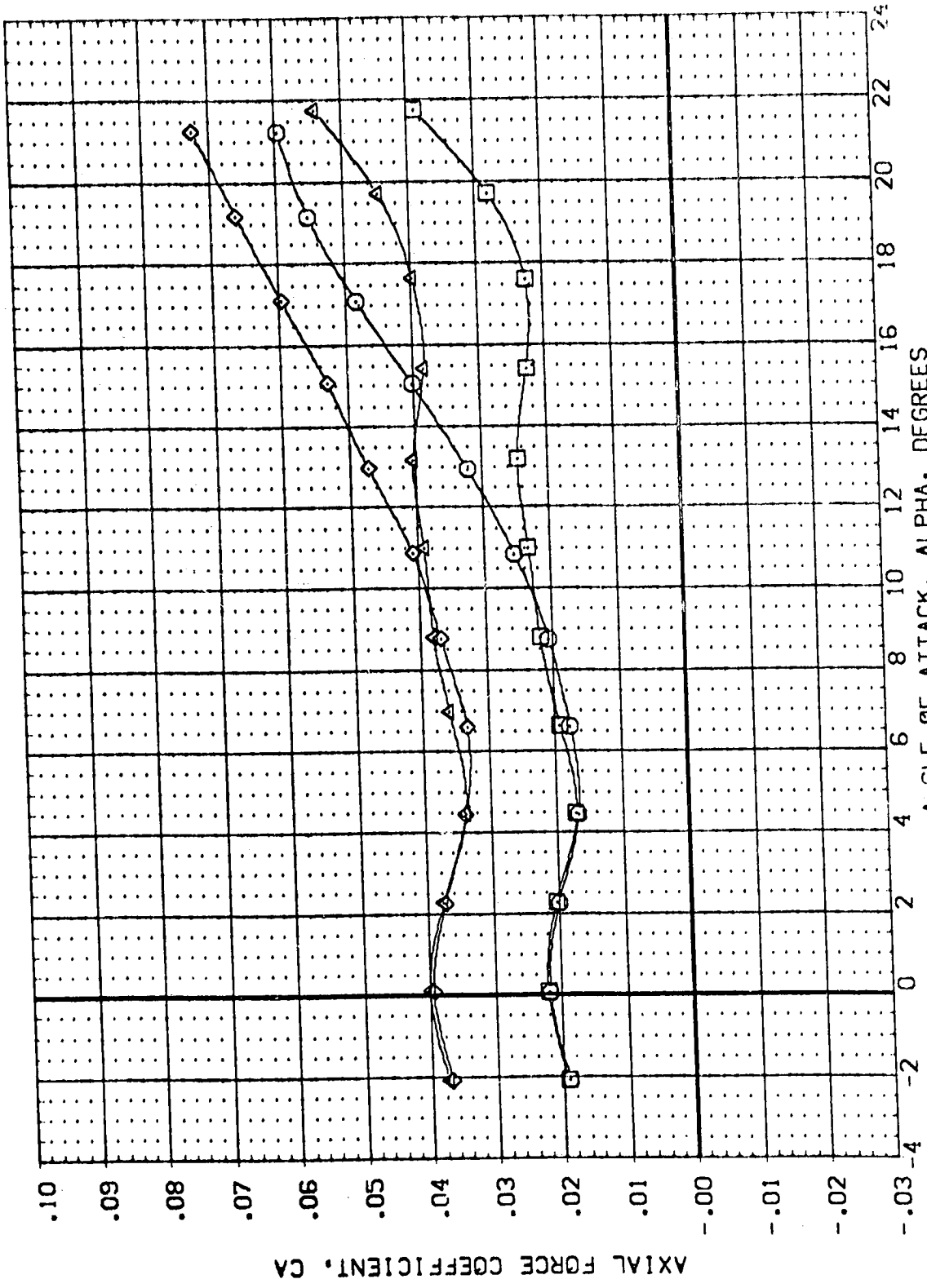


EFFECT OF RUDDER FLARE (B W2 V FB)

(A)MACH = .35



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNG	RUDFLR	BOFLAP	REFERENCE INFORMATION
RP50071	LARC 8-FT IPT 644 LO-100 CRBITTER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.472C
RP50121	LARC 8-FT IPT 644 LO-100 CRBITTER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.510C
RP50141	LARC 8-FT IPT 644 LO-100 CRBITTER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 20.3597
RP50151	LARC 8-FT IPT 644 LO-100 CRBITTER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	YMRP 16.8633
						ZMRP .0000
						SCALE .0188

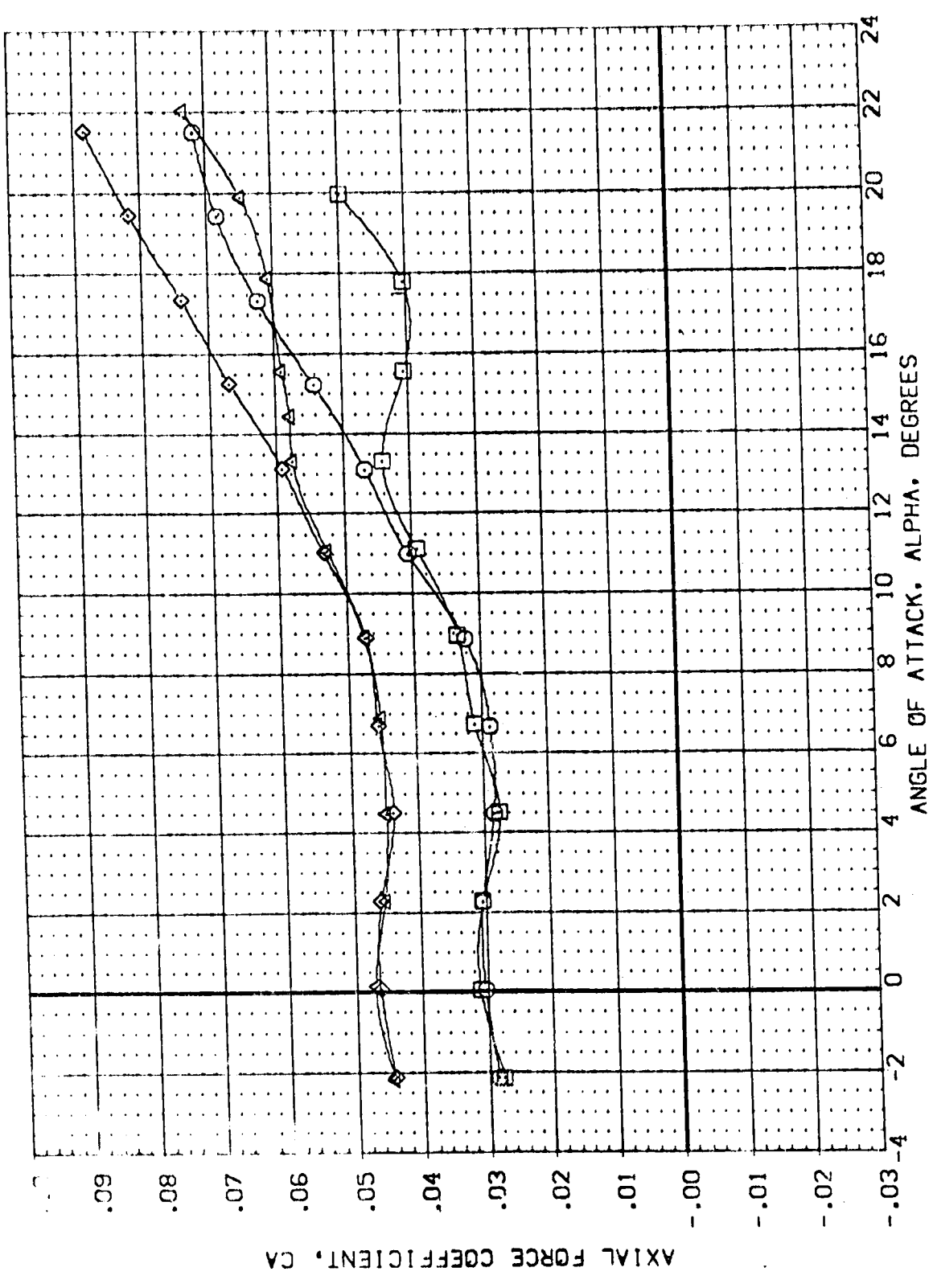


EFFECT OF RUDDER FLARE (B W2 V FB)

(B)MACH = .80

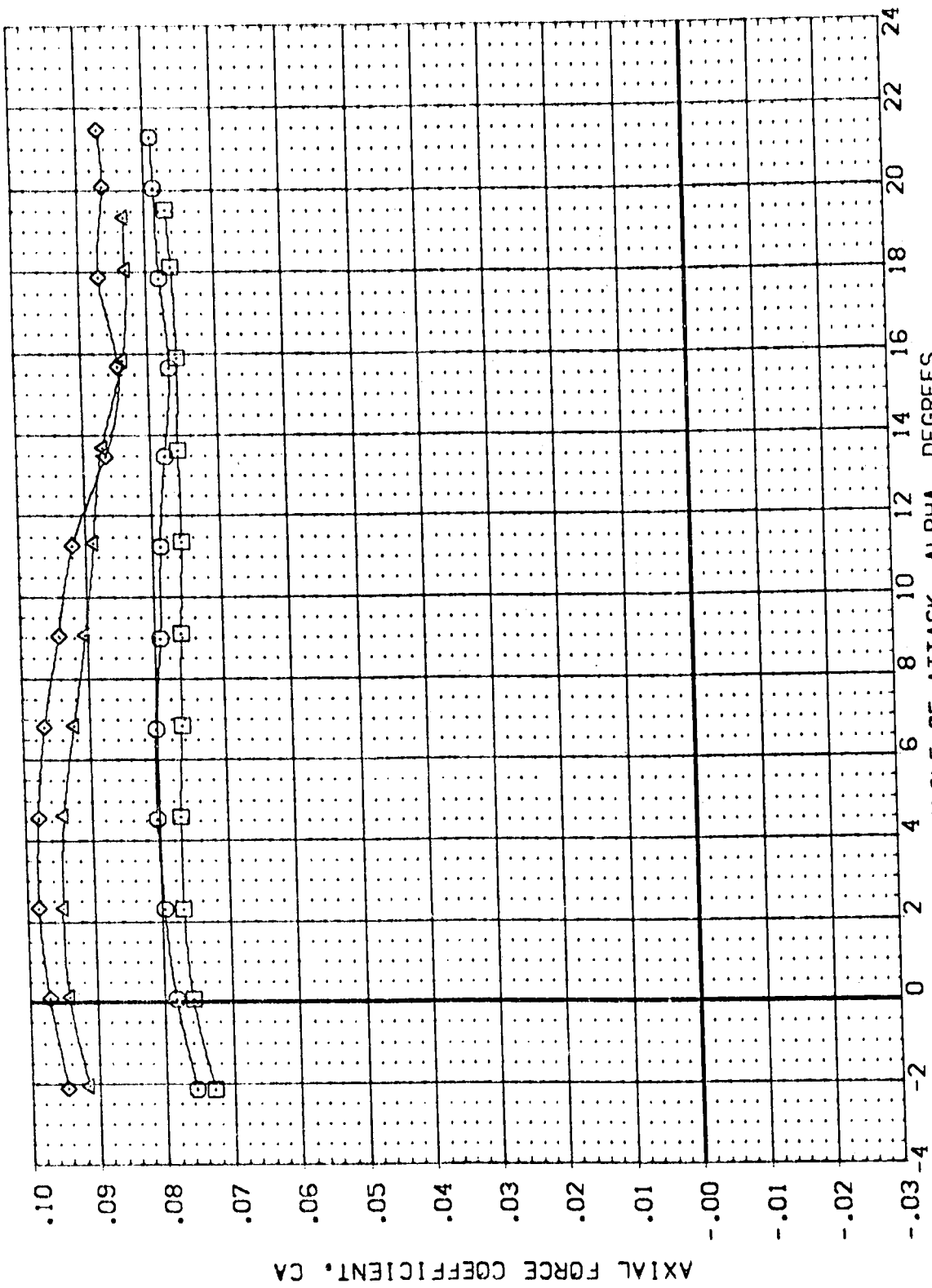
SET SYMBOL: CONFIGURATION DESCRIPTION: REFERENCE INFORMATION: SCALE

LAZC 8-111	101	644	10-100	CRS TIER (SHIPS)	(BV2VFB)	45.800	WING	2.000	ED LAR	1000	SPEED	1000	SCALE
LAZC 8-111	101	644	10-100	CRS TIER (SHIPS)	(BV2VFB)	45.800	WING	2.000	ED LAR	1000	REF	1000	SCALE
LAZC 8-111	101	644	10-100	CRS TIER (SHIPS)	(BV2VFB)	45.800	WING	2.000	ED LAR	1000	REF	1000	SCALE
LAZC 8-111	101	644	10-100	CRS TIER (SHIPS)	(BV2VFB)	45.800	WING	2.000	ED LAR	1000	REF	1000	SCALE
LAZC 8-111	101	644	10-100	CRS TIER (SHIPS)	(BV2VFB)	45.800	WING	2.000	ED LAR	1000	REF	1000	SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)
 (C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAP/CAF	WING	RUDFLR	SOFLAP	REFERENCE INFORMATION
09007	LARC 8-11-1 644 LC-100 CR8 TER(SHIPS) (BW2VFB)	46.800	2.000	.000	.000	171.4720
09012	LARC 8-11-1 644 LC-100 CR8 TER(SHIPS) (BW2VFB)	75.000	2.000	.000	.000	26.51000
09014	LARC 8-11-1 644 LC-100 CR8 TER(SHIPS) (BW2VFB)	46.800	2.000	10.000	.000	20.35000
09015	LARC 8-11-1 644 LC-100 CR8 TER(SHIPS) (BW2VFB)	75.000	2.000	10.000	.000	1.00000
						7MRP
						SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)
 (E)MACH = 1.20
 PAGE 120



DATA SET SYMBOL: [X] [X]
 CONFIGURATION DESCRIPTION:
 LARC 8-FT IPT 644 LO-100 CRBITER(SHIP) (BW2VFB)
 LARC 8-FT IPT 644 LO-100 CRBITER(SHIP) (BW2VFB)
 LARC 8-FT IPT 644 LO-100 CRBITER(SHIP) (BW2VFB)
 LARC 8-FT IPT 644 LO-100 CRBITER(SHIP) (BW2VFB)

LAMDAF 46.800
 75.000
 75.000
 45.800
 75.000

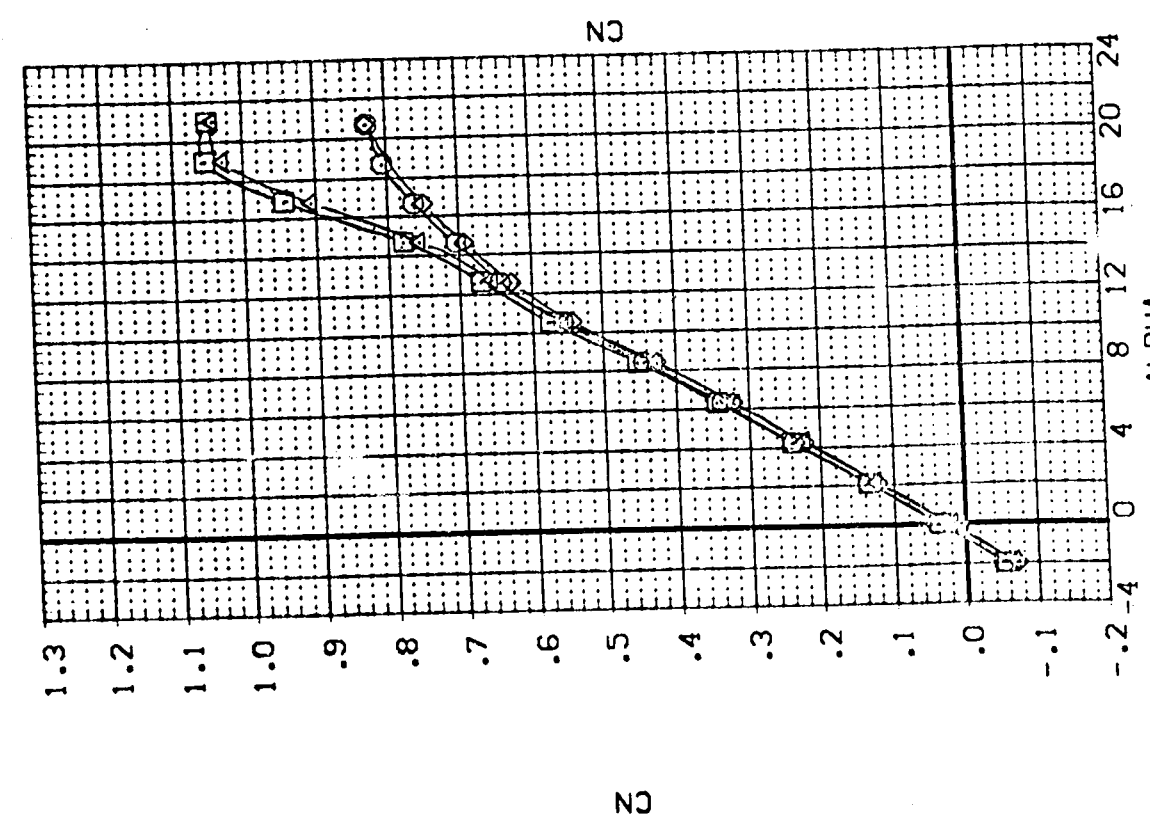
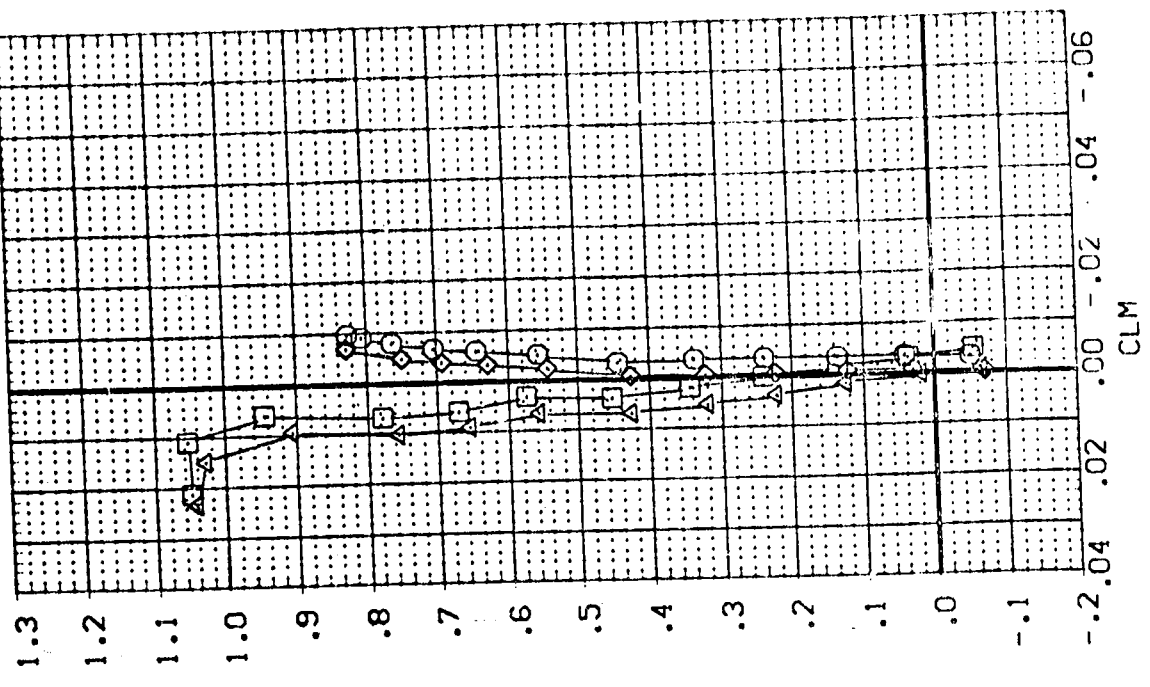
VINGNO 2.000
 2.000
 2.000
 2.000
 2.000

RUEDFLR .000
 .000
 .000
 10.000
 10.000

BDFLAP .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.472C
 LREF 25.510C
 BREF 23.3597
 XMRP 16.6833
 YMRP .0000
 ZMRP .0000
 SCALE .0188

SO:IN: 200000
 200000
 200000
 200000
 200000
 200000



EFFECT OF RUDDER FLARE (B W2 V FB)

(A) MACH = .35

DATA SET SYMBOL
 990007
 990007
 990007
 990007
 990007
 990007
 990007

CONFIGURATION DESCRIPTION
 LARC 8 FT TPI 644 LC 100
 LARC 8 FT TPI 644 LC 100
 LARC 8 FT TPI 644 LC 100
 LARC 8 FT TPI 644 LC 100
 LARC 8 FT TPI 644 LC 100
 LARC 8 FT TPI 644 LC 100

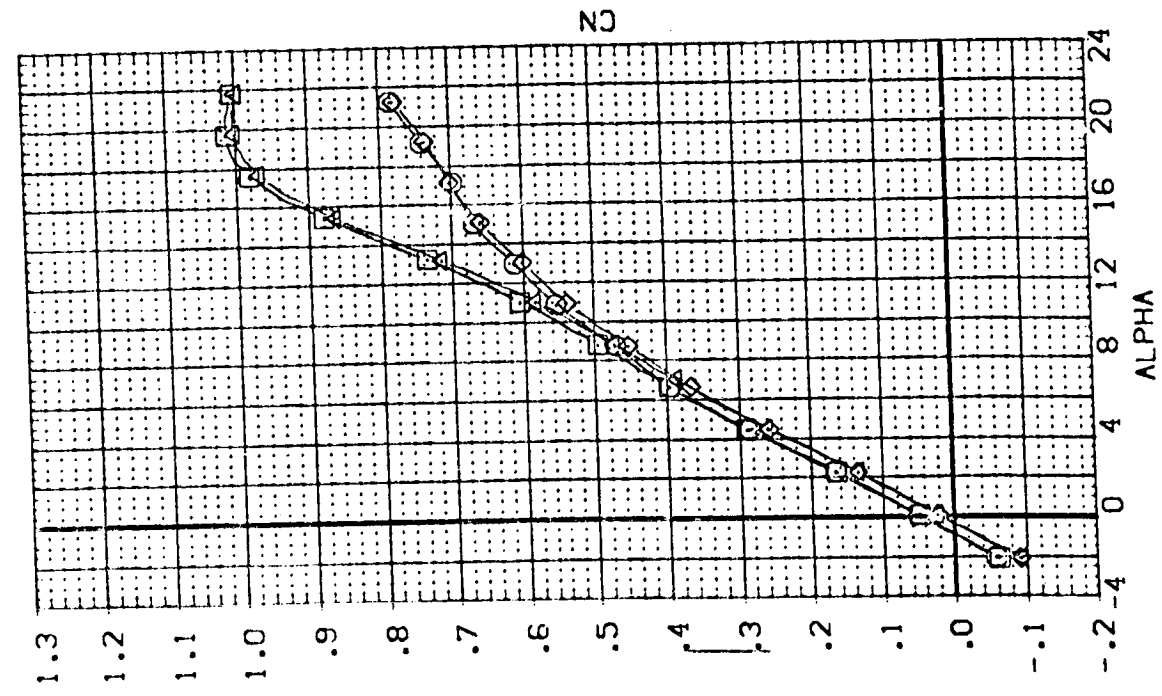
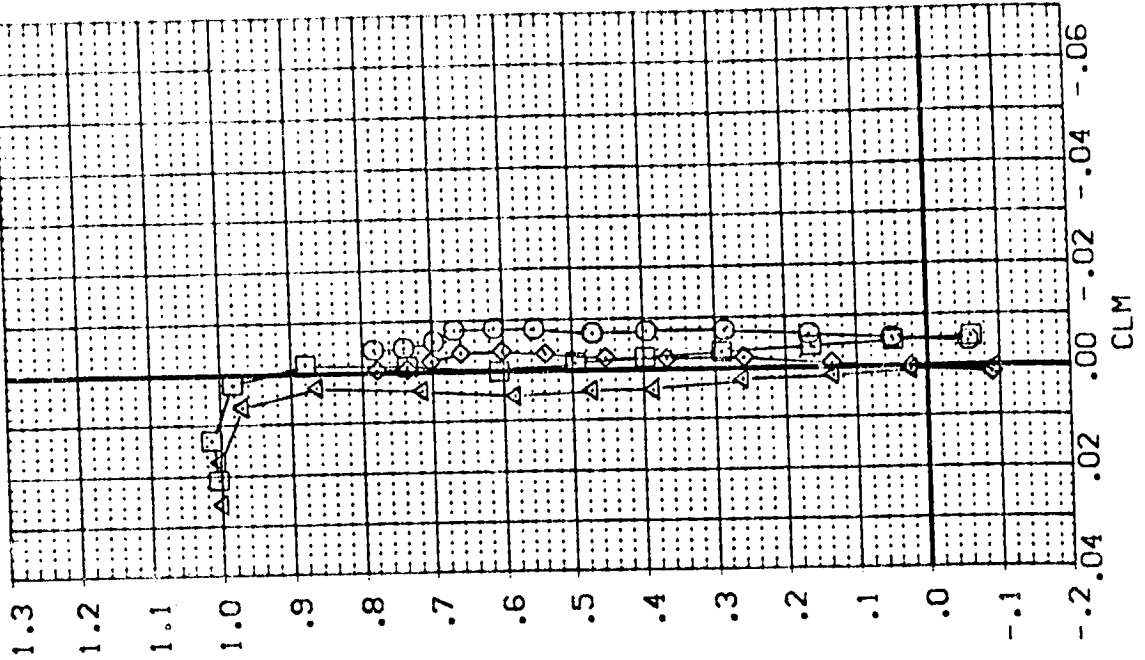
REFERENCE INFORMATION
 SRCE T 17200
 LREF 20.0000
 BRFF 20.0000
 XPRP 6.0000
 YPRP 0.0000
 ZPRP 0.0000
 SCALE 0.0000

LAMDAF 46.800
 75.000
 46.800
 75.000

WINGVD 2.000
 2.000
 2.000
 2.000

RUFLR 0.000
 0.000
 0.000
 0.000

BOFLAP 0.000
 0.000
 0.000
 0.000

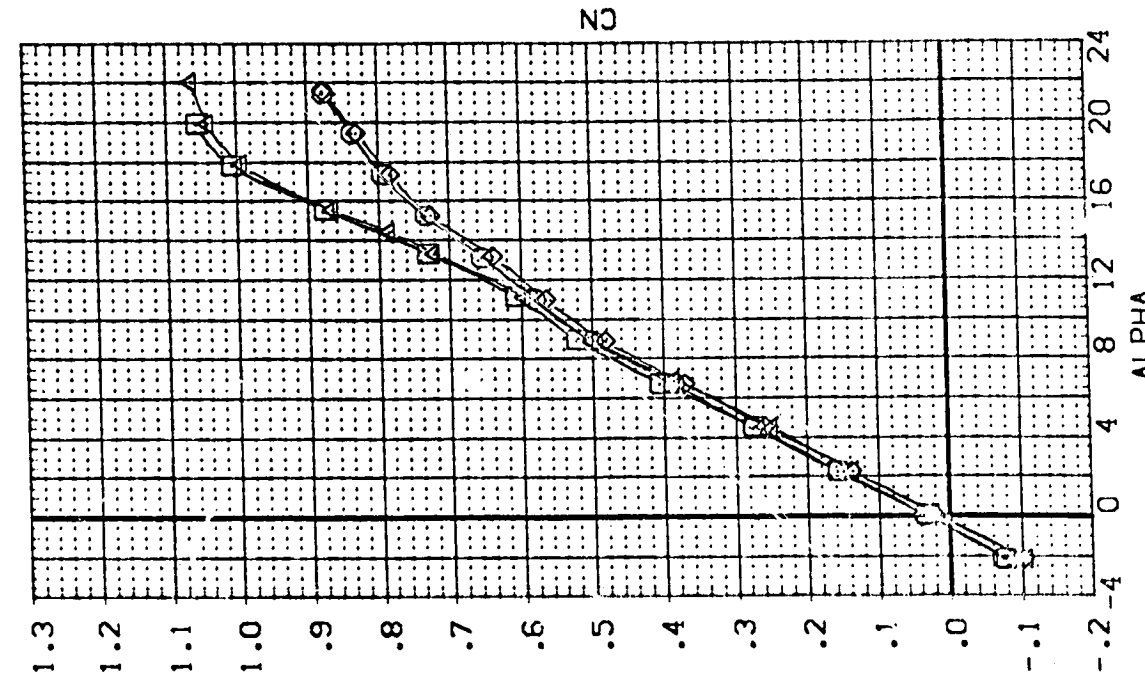
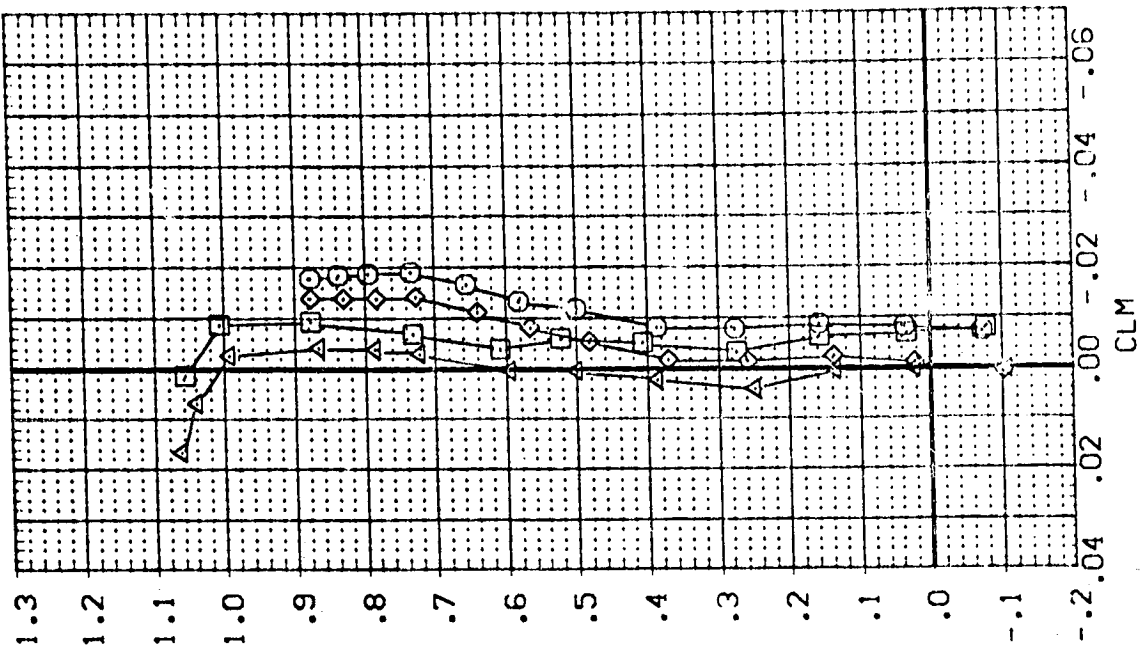


EFFECT OF RUDDER FLARE (B W2 V FB)

(B)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGND	R-OF-LR	BOFLAP	REFERENCE INFORMATION
(RPS007)	ARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RPS012)	LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100 INCHES
(RPS014)	LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 20.3597 INCHES
(RPS015)	LARC 8-FT TPT 644 LC-100 CRBITTER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	X-PRP 16.8633 INCHES
						Y-PRP .0000 INCHES
						Z-PRP .0000 INCHES
						SCALE .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = .90

DATA SET SYMBOLS:
 ()
 ()
 ()
 ()
 ()
 ()
 ()

CONFIGURATION DESCRIPTION
 (ARC 8-5) TPT 644 LC-100 CRB (SHIP) (BV2VFB)
 (ARC 8-5) TPT 644 LC-100 CRB (SHIP) (BV2VFB)
 (ARC 8-5) TPT 644 LC-100 CRB (SHIP) (BV2VFB)
 (ARC 8-5) TPT 644 LC-100 CRB (SHIP) (BV2VFB)

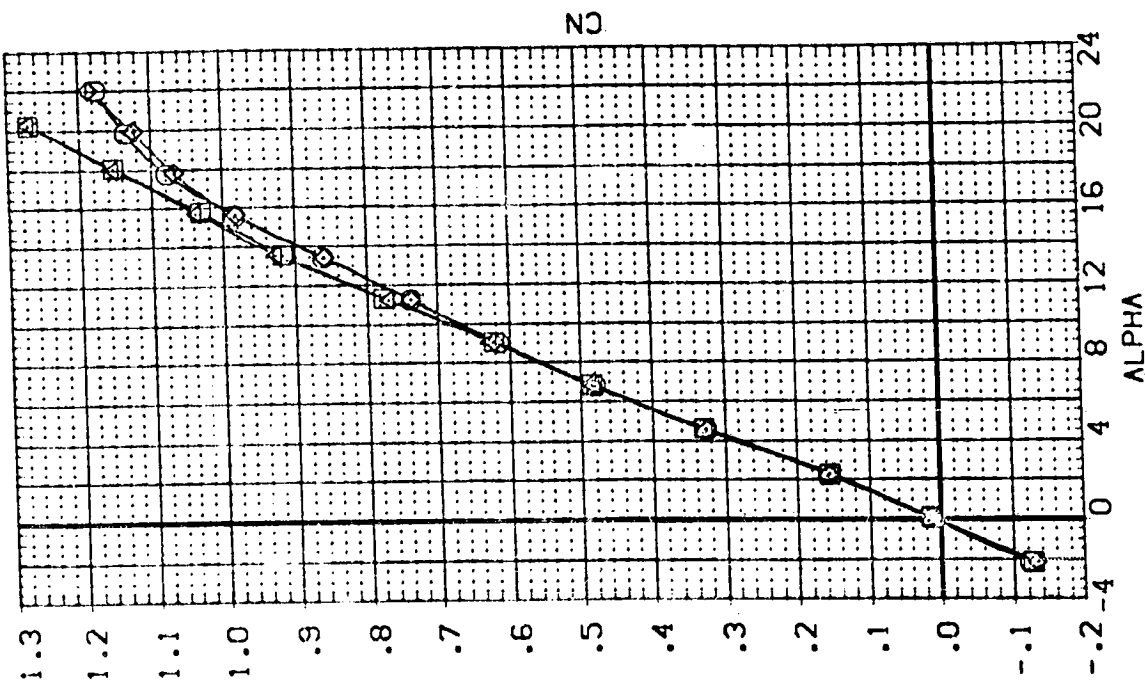
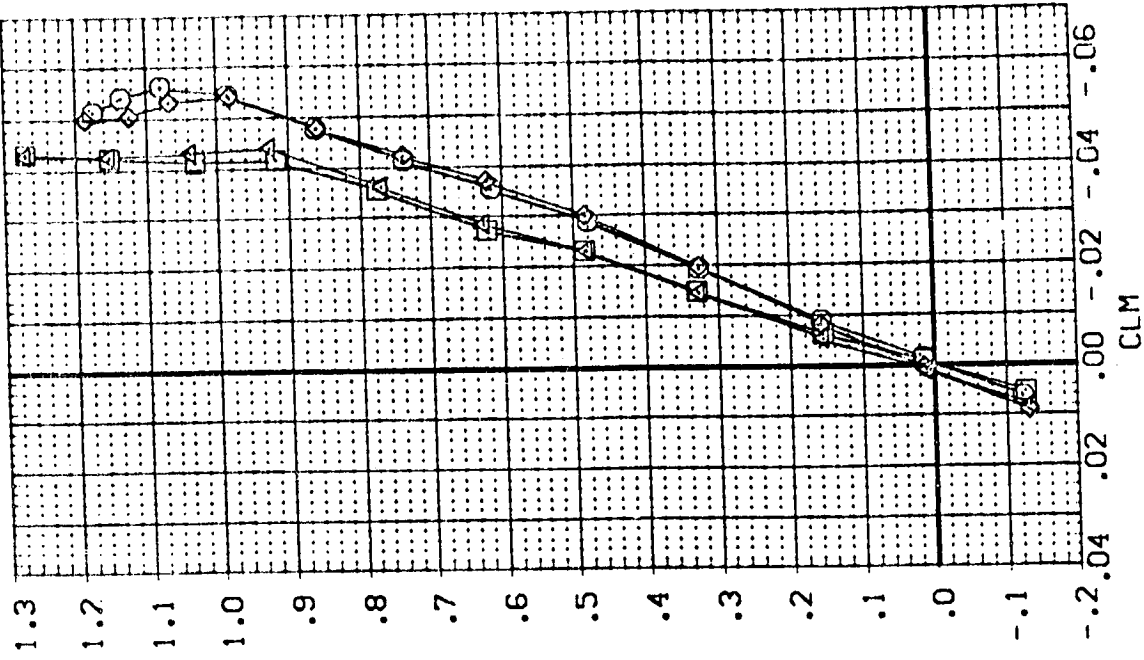
LANDIAF 46.800
 75.000
 46.800
 75.000

WINGNG 2.000
 2.000
 2.000
 2.000

RUDFLR .000
 .000
 10.000
 10.000

BOFLAP .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 17.4720
 SREF 20.5307
 SREF 20.5307
 XMRP 20.8893
 YMRP .0000
 ZMRP .0000
 SCALE 10.98



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = .98



DATA SET SYMCL ()
 (RP5007)
 (RP5012)
 (RP5014)
 (RP5015)

CONFIGURATION DESCRIPTION
 LARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)

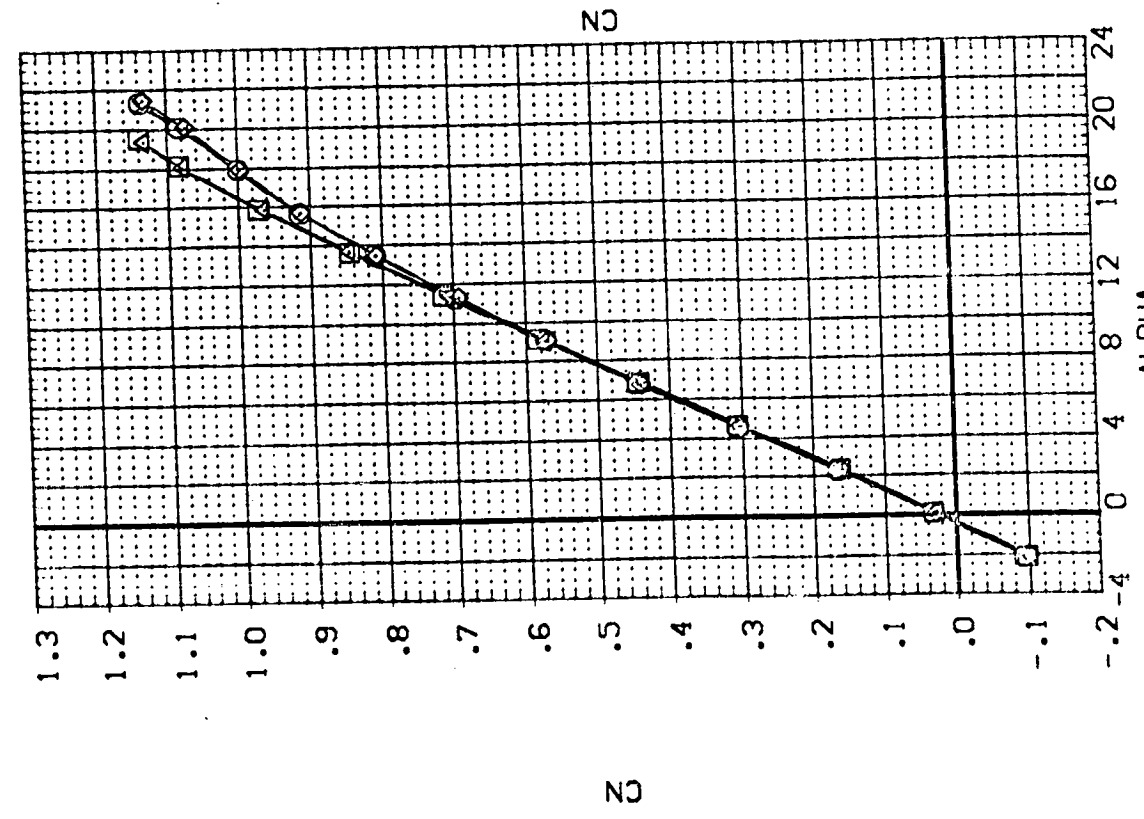
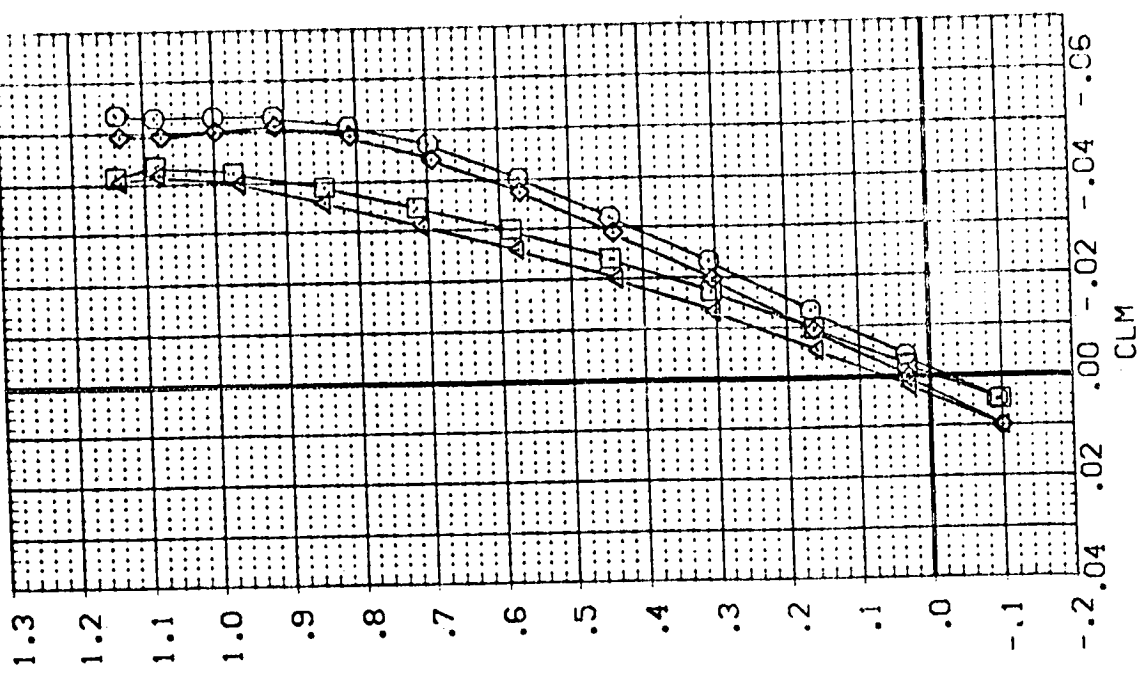
LAMPDF 46.800
 46.800
 46.800
 75.000

WINGNG 2.000
 2.000
 2.000
 2.000

RUJFLR .000
 .000
 .000
 10.000

BOFLAP .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 25.5100 INCHES
 BREF 20.3597 INCHES
 XWRP 16.8033 INCHES
 YWRP .0000 INCHES
 ZWRP .0000 INCHES
 SCALE .0188 SCALE



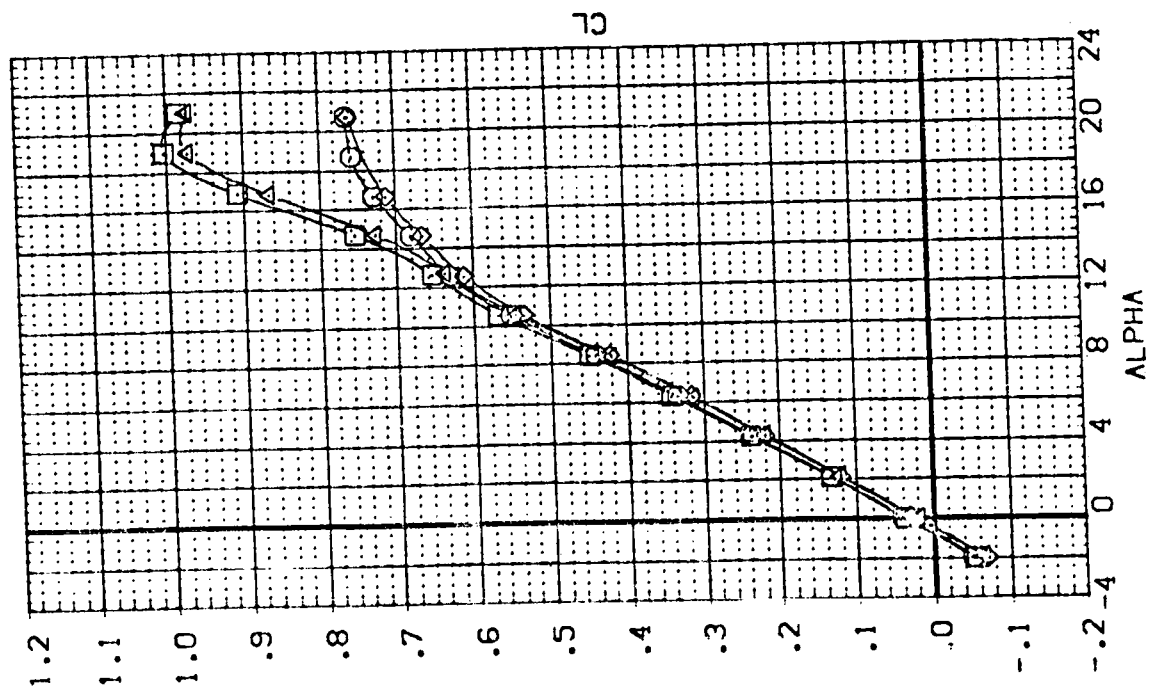
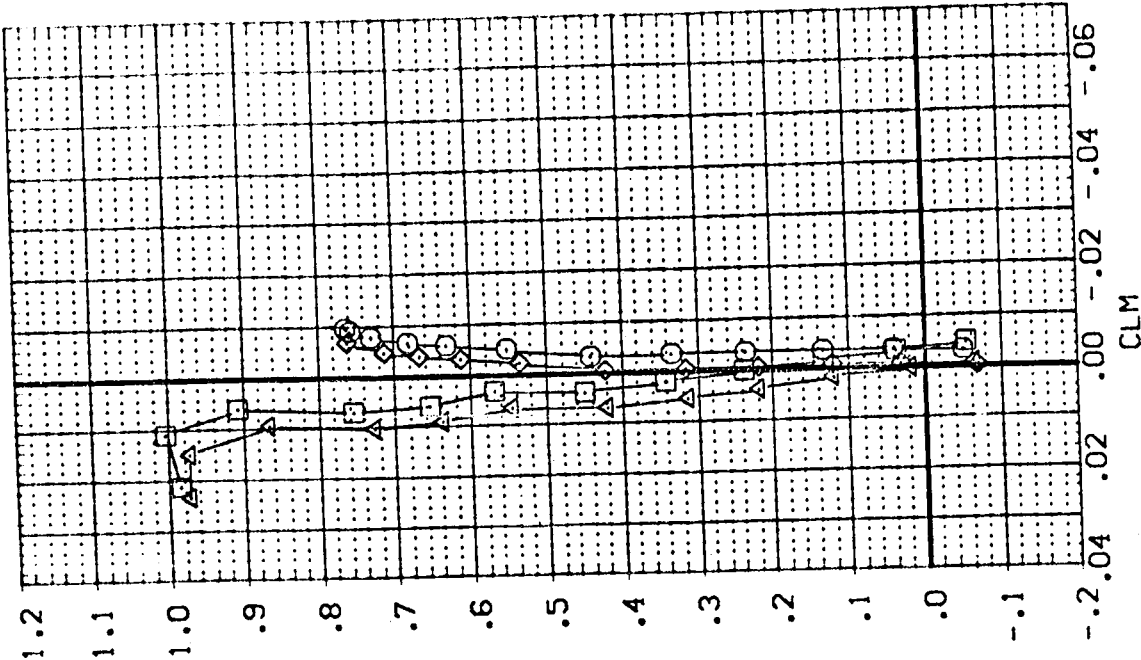
EFFECT OF RUDDER FLARE (B W2 V FB)

(E)MACH = 1.20

DATA SET SYMBOL: () (X)

CONFIGURATION DESCRIPTION:
 -ARC 8-1-1 131 544 LG-100 CR8ITER(SHIPS) (BW2VFB)
 -ARC 8-1-1 131 544 LG-100 CR8ITER(SHIPS) (BW2VFB)
 -ARC 8-1-1 131 544 LG-100 CR8ITER(SHIPS) (BW2VFB)
 -ARC 8-1-1 131 544 LG-100 CR8ITER(SHIPS) (BW2VFB)

PARAMETERS:
 LAMDAF 46.800
 WINGNC 2.000
 RUDFLR .000
 BOCELAP .000
 SREF 171.4720
 LREF 25.000
 BREF 20.000
 XMRP 16.000
 YMRP 16.000
 ZMRP 16.000
 SCALE 10.000



EFFECT OF RUDDER FLARE (B W2 V FB)
 (A)MACH = .35



DATA SET SYMBOL
 (RPS07)
 (RPS12)
 (RPS14)
 (RPS15)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)

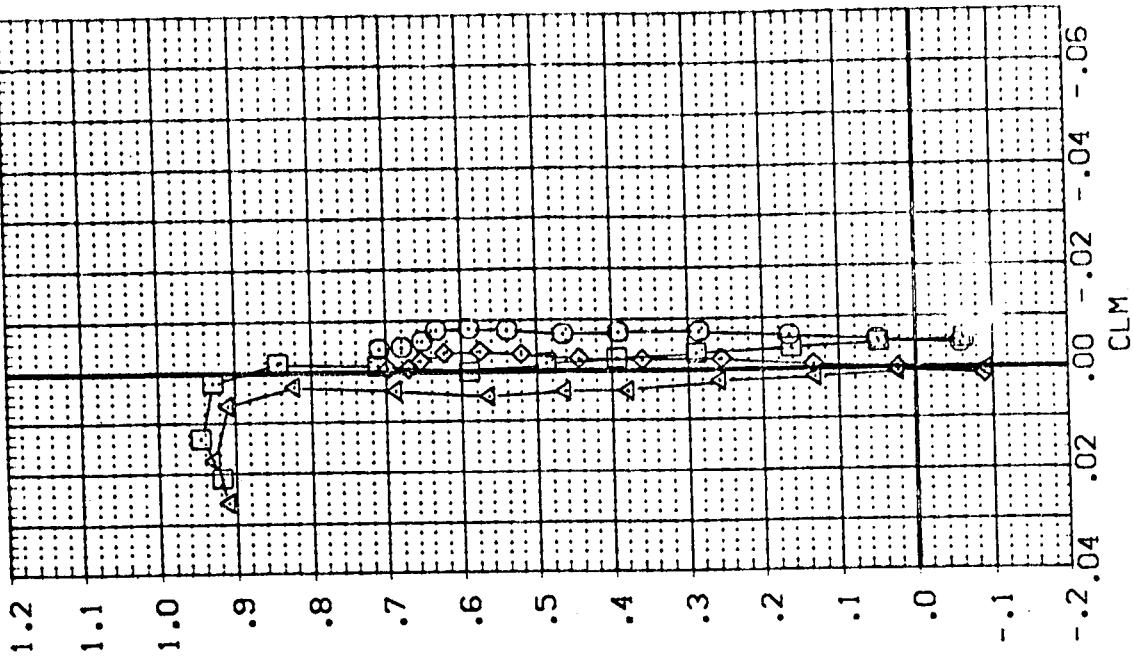
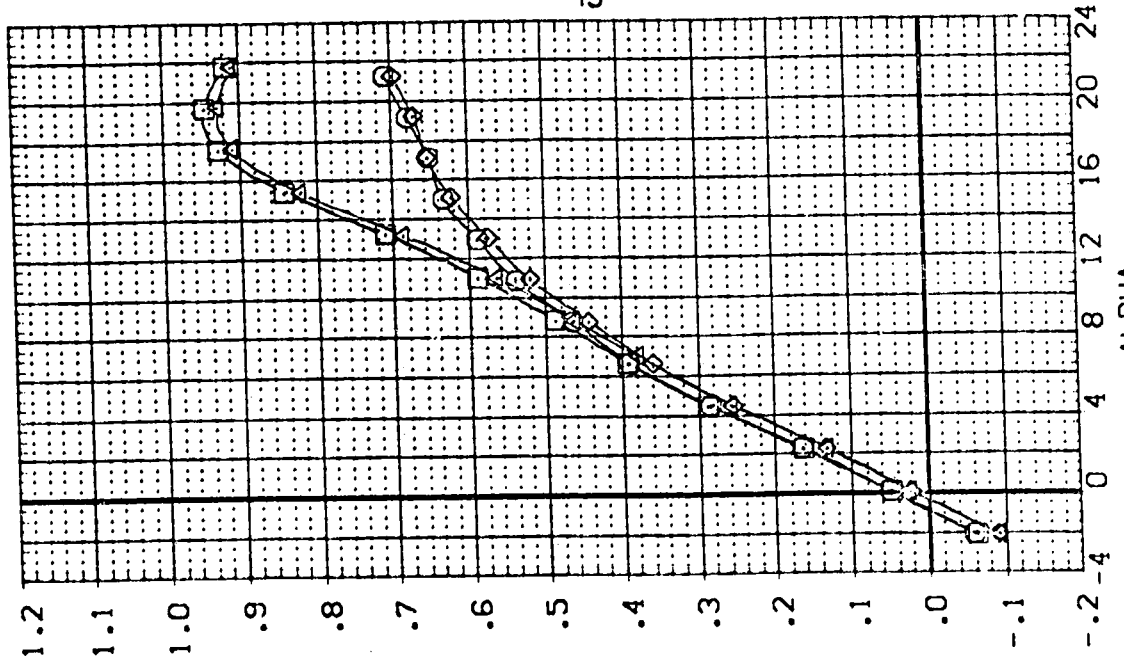
LAMDAF
 46.800
 75.000
 46.800
 75.000

VINGNO
 2.000
 2.000
 2.000
 2.000

RUDFLR
 .000
 .000
 10.000
 10.000

BDFLAP
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 25.5100 INCHES
 BREF 20.3597 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188



EFFECT OF RUDDER FLARE (B W 2 V FB)

(B)MACH = .80

DATA SET SYMBOL: [] [X]

CONFIGURATION DESCRIPTION

ARC 8-FT IPT 644	LO-100 CRB	TER(SHIPS)	(BV2VFB)
LARC 8-FT IPT 644	LO-100 CRB	TER(SHIPS)	(BV2VFB)
LARC 8-FT IPT 644	LO-100 CRB	TER(SHIPS)	(BV2VFB)
LARC 8-FT IPT 644	LO-100 CRB	TER(SHIPS)	(BV2VFB)

REFERENCE INFORMATION

SREF	171.4720	SCALIN	INCHES
LREF	25.5100	INCHES	INCHES
BREF	20.3597	INCHES	INCHES
XMRP	16.8833	INCHES	INCHES
ZMRP	16.8833	INCHES	INCHES
SCALE	0.188	SCALE	SCALE

LAMDAF

46.800
75.000
46.800
75.000

WINGNG

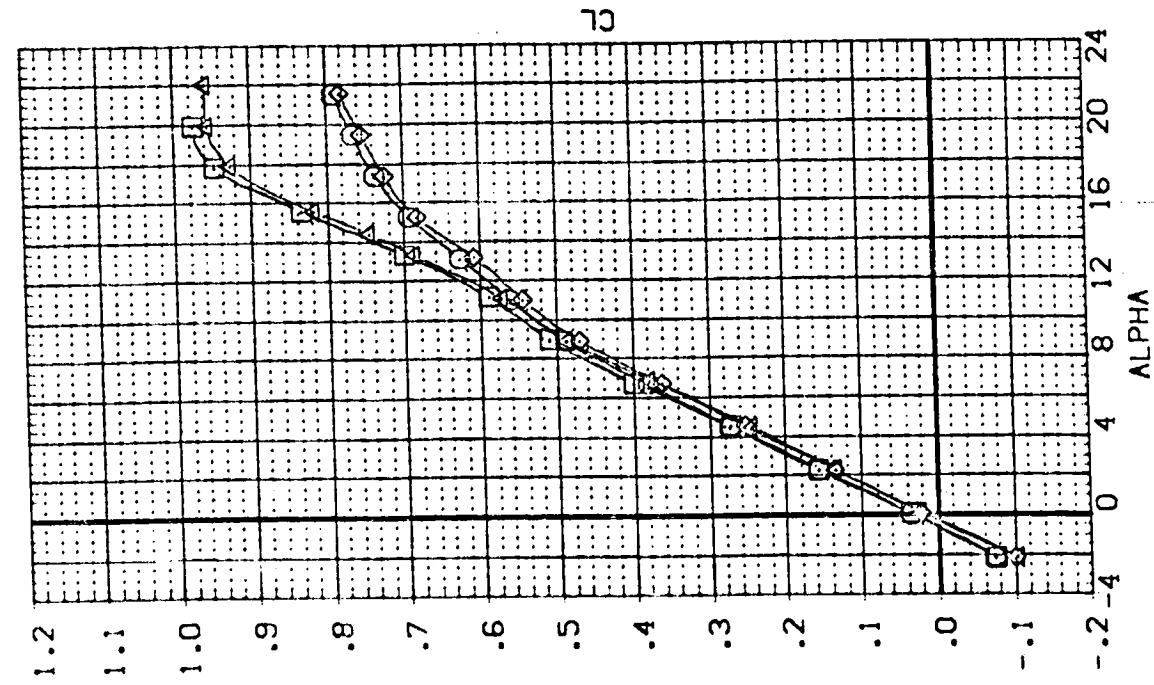
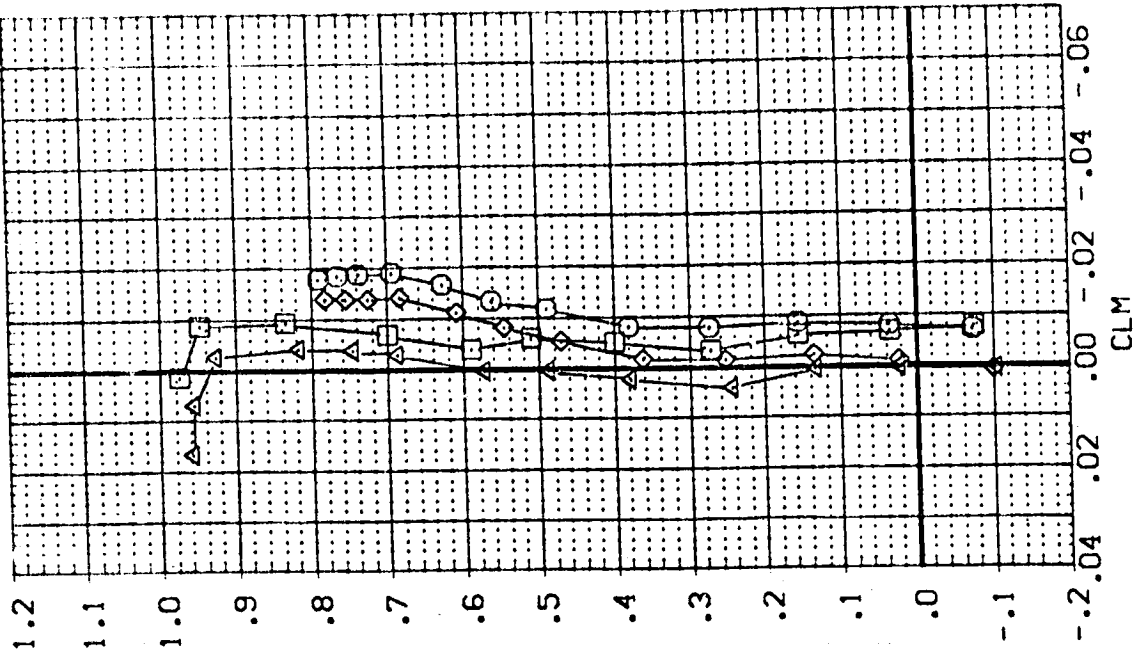
2.000
2.000
2.000
2.000

RJDFLR

0.000
0.000
10.000
10.000

BDFLAP

0.000
0.000
0.000
0.000



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RP5007) LARC 8-FT TPT 544 LC-100 CRBITTER(SHIPS) (BV2VFB)
 (RP5012) LARC 8-FT TPT 544 LC-100 CRBITTER(SHIPS) (BV2VFB)
 (RP5014) LARC 8-FT TPT 544 LC-100 CRBITTER(SHIPS) (BV2VFB)
 (RP5015) LARC 8-FT TPT 544 LC-100 CRBITTER(SHIPS) (BV2VFB)

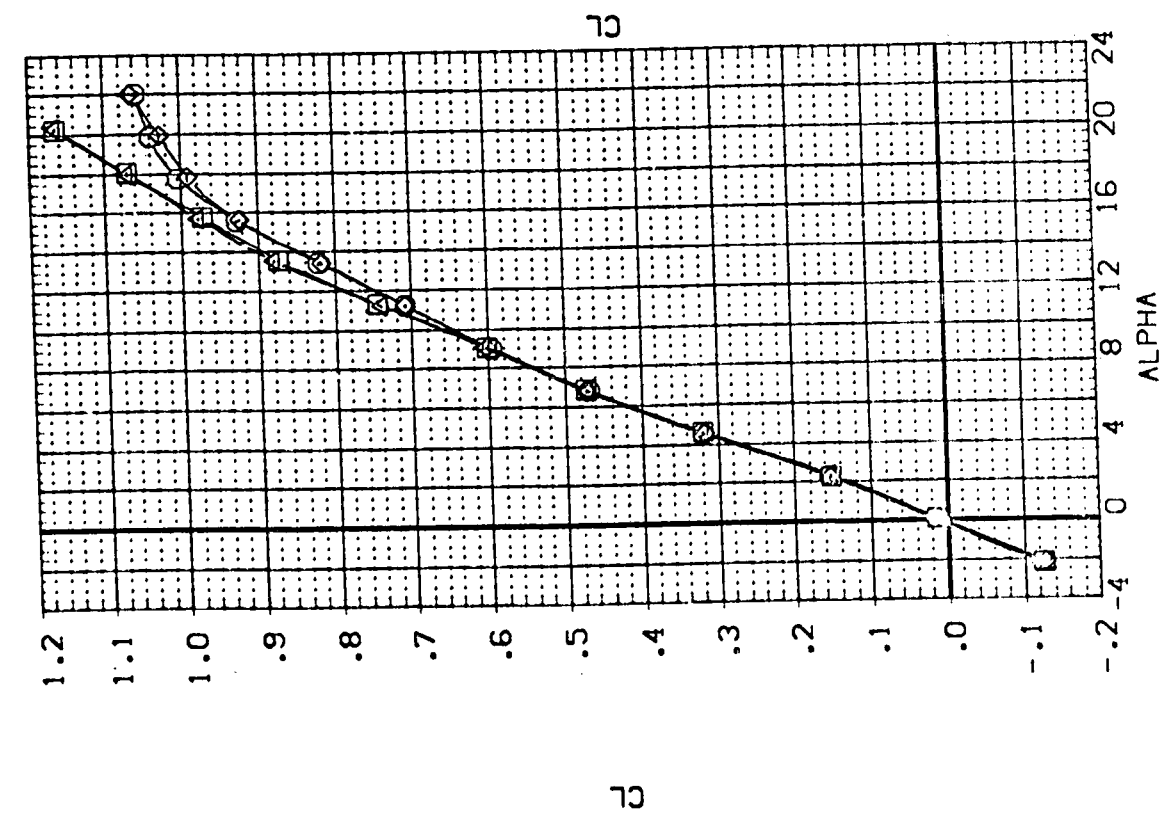
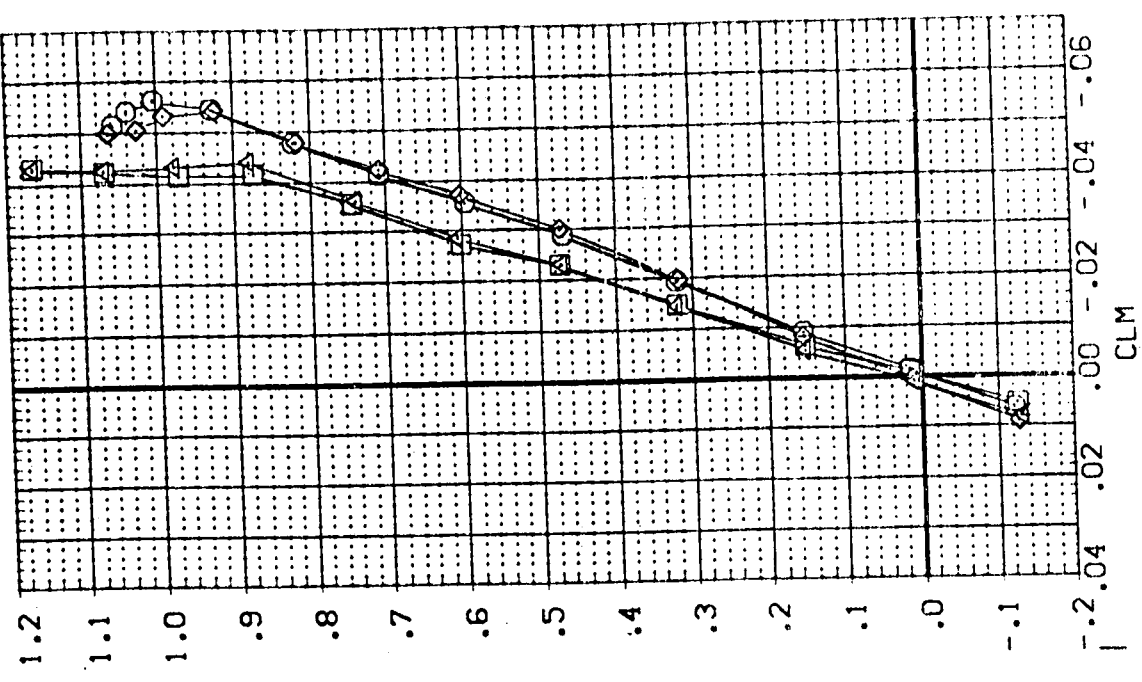
LAMDAF 46.800
 75.000
 46.800
 75.000

WINGND 2.000
 2.000
 2.000
 2.000

RUDFLR .000
 .000
 .000
 10.000

BOFLAP .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 25.5100 INCHES
 BREF 20.3597 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188 SCALE



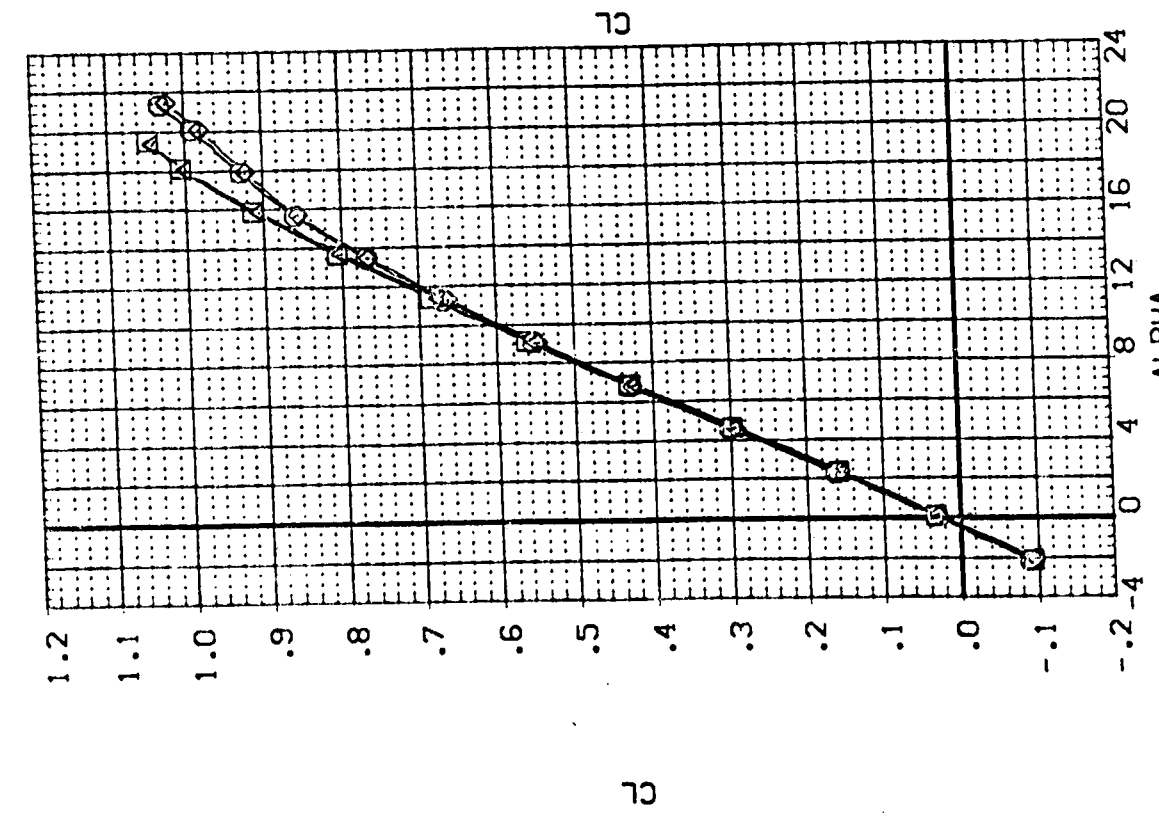
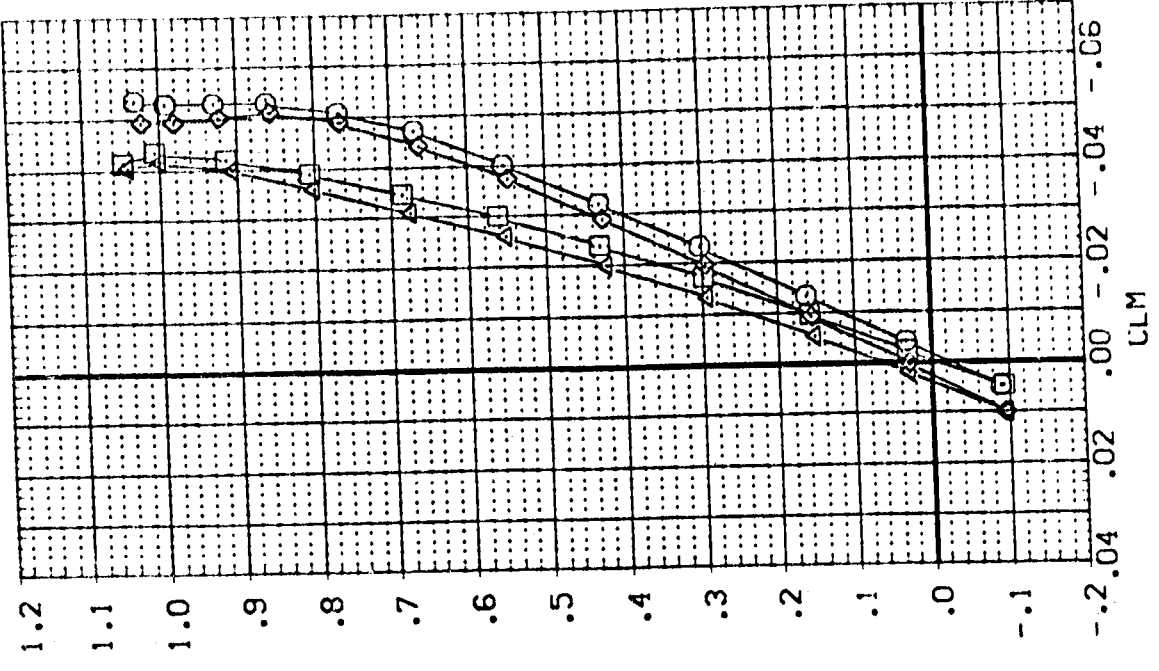
EFFECT OF RUDDER FLARE (B W2 V FB)

(0)MACH = .98

DATA SET SYMBOL
 (R23C07)
 (R23C12)
 (R23C14)
 (R23C15)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)

LAMDAF 46.800
 75.000
 46.800
 75.000
 VINGNO 2.000
 2.000
 2.000
 2.000
 R2OF LR .000
 .000
 .000
 .000
 BOFLAP .000
 .000
 .000
 .000
 REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3597
 XMRP 16.8633
 YMRP 10.0000
 ZMRP 10.0000
 SCALE 10.189

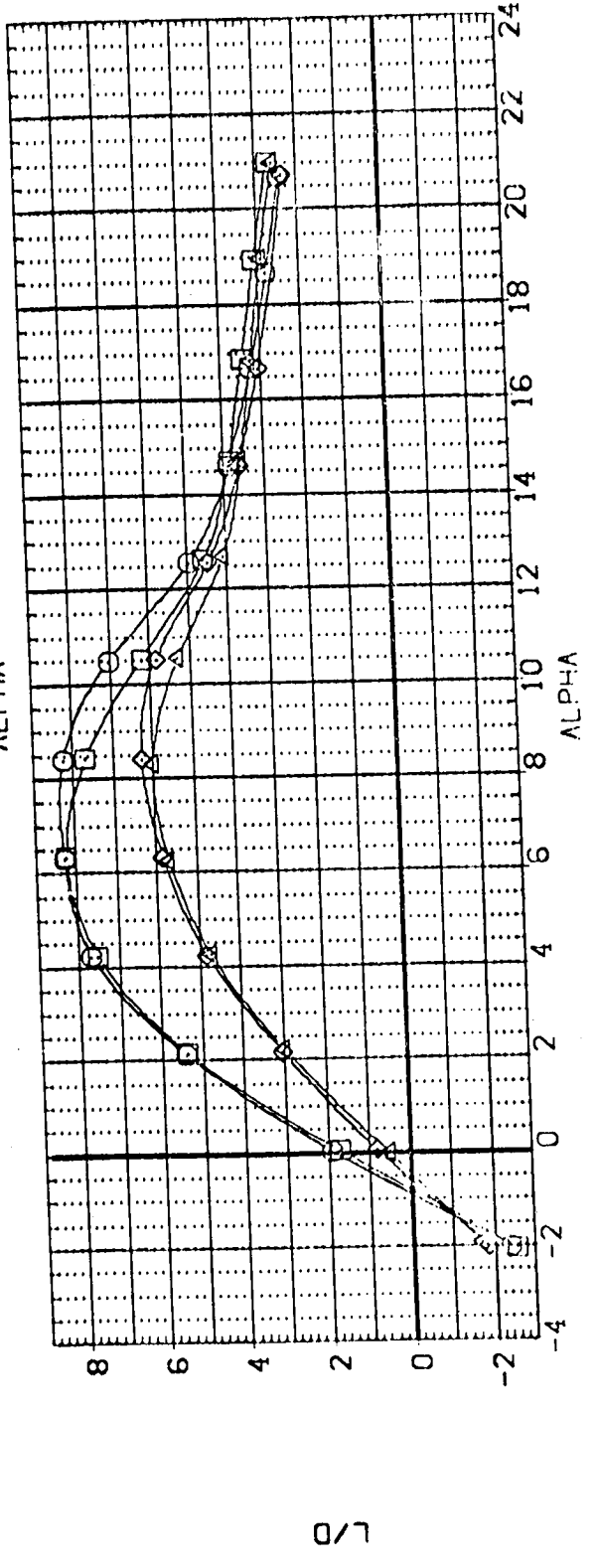
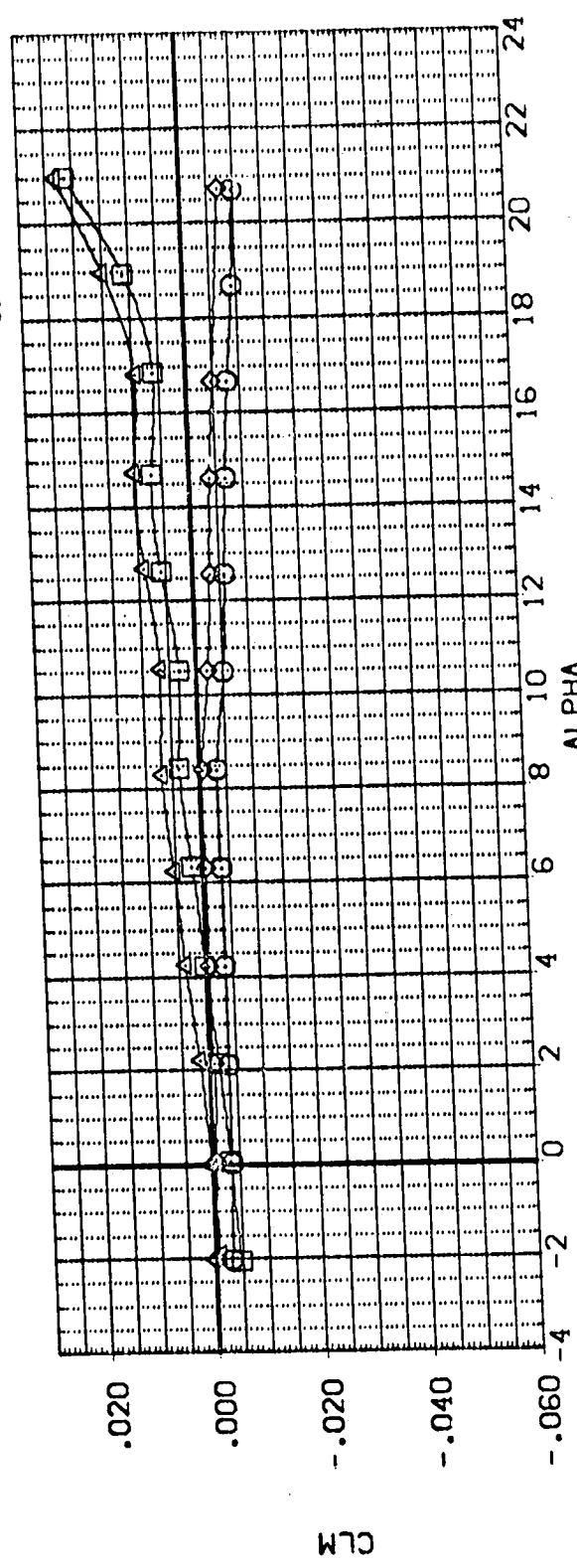


EFFECT OF RUDDER FLARE (B W2 V FB)

(EDMACH = 1.20)



DATA SET SYMBOLS: (O) (X)
 CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BW2VFB)
 LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BW2VFB)
 REFERENCE INFORMATION
 SREF 171.4720 SCALIN.
 LREF 25.5100 INCHES
 BREF 20.3557 INCHES
 XMRP .16 INCHES
 VMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0198 SCALE

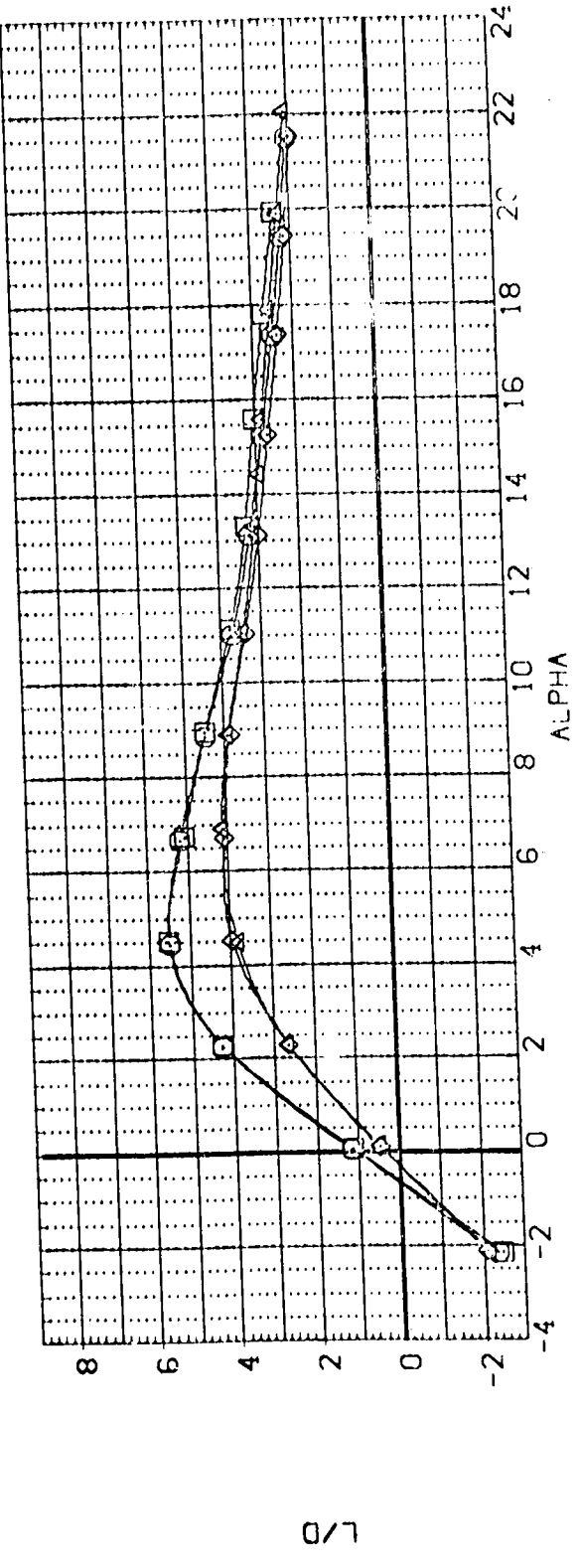
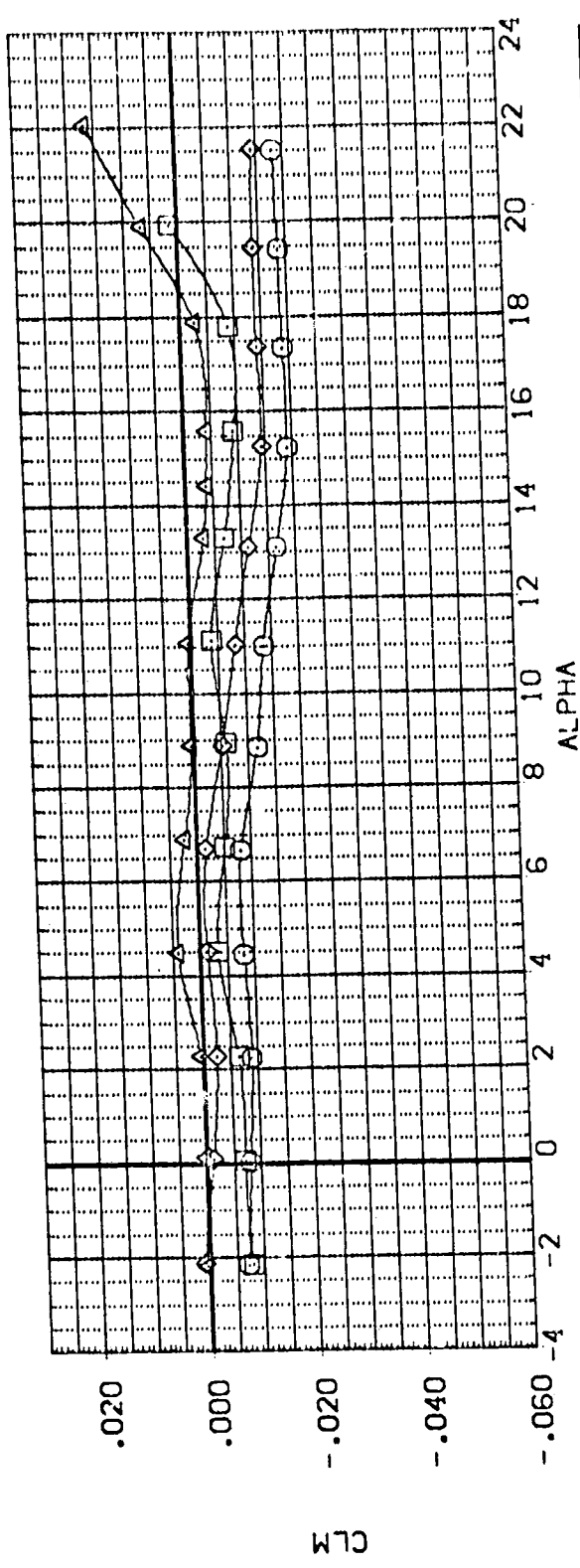


EFFECT OF RUDDER FLARE (B W 2 V F B)

CADYAC = .35



DATA SET SYMBOL: (C) (X)
 CONFIGURATION DESCRIPTION
 LARC 8-FT TPI 644 LG-100 CRBITTER(SHIPS) (BV2VFB)
 LARC 8-FT TPI 644 LG-100 CRBITTER(SHIPS) (BV2VFB)
 LARC 8-FT TPI 644 LG-100 CRBITTER(SHIPS) (BV2VFB)
 LARC 8-FT TPI 644 LG-100 CRBITTER(SHIPS) (BV2VFB)
 REFERENCE INFORMATION
 SREF 171.472C SCALING
 LREF 25.510C SCALING
 BREF 20.3597 SCALING
 XMRP 15.8533 SCALING
 YMRP .0000 SCALING
 ZMRP .0000 SCALING
 BOFLAP .000 SCALING
 RJDFLR .000 SCALING
 WINGMG 2.000 SCALING
 LAMDAE 45.800 SCALING
 45.800 SCALING
 75.000 SCALING
 45.800 SCALING
 75.000 SCALING



EFFECT OF RUDDER FLARE (B W 2 V FB)

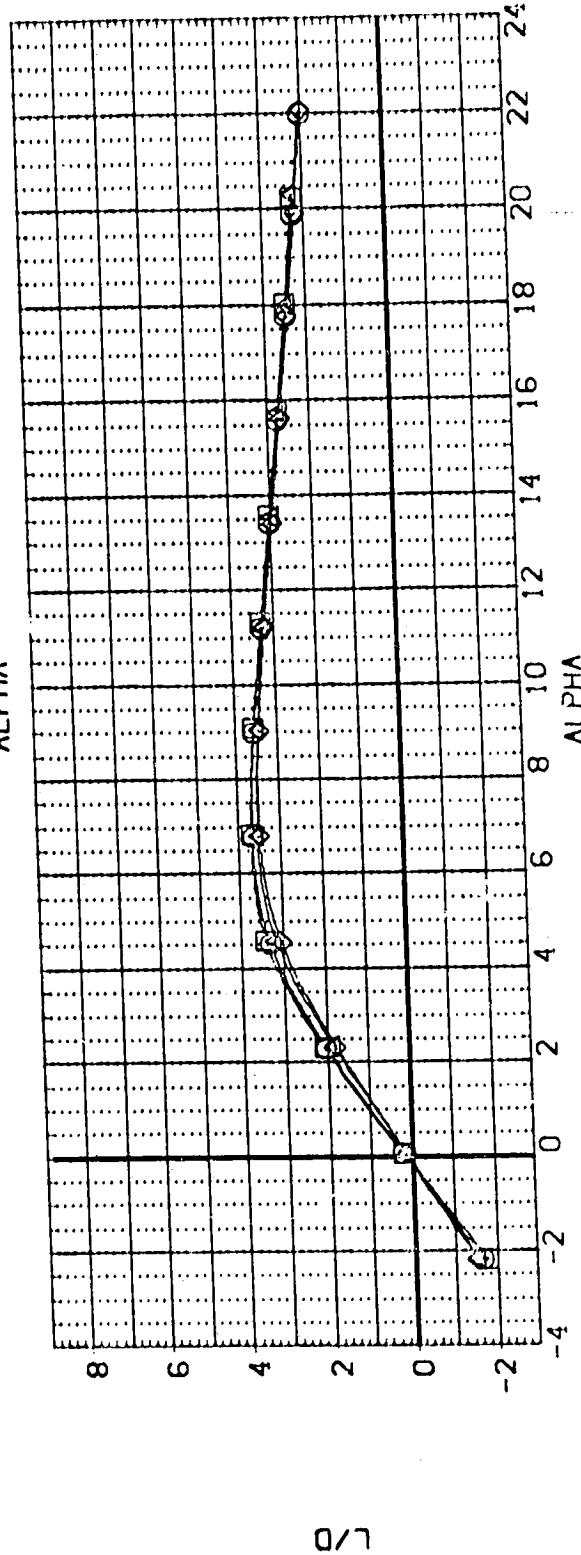
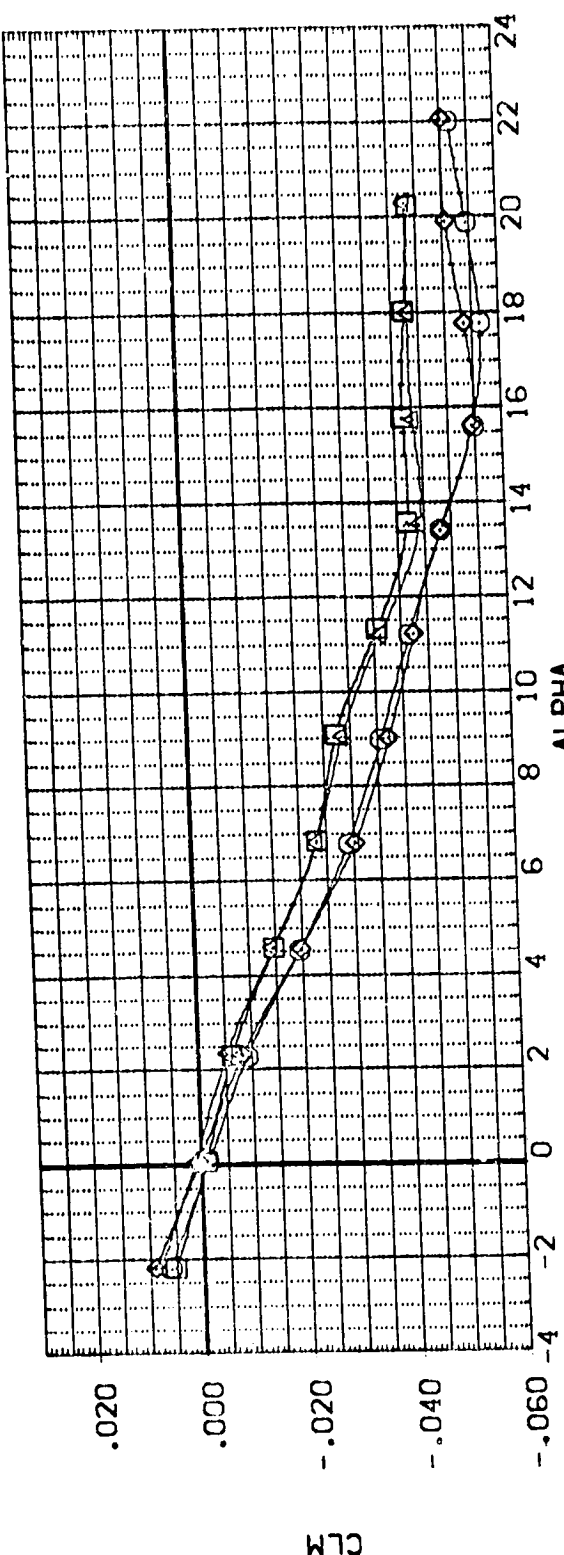
(C) MACH = .50

DATA SET SYMBOLS
 (R0007)
 (R0012)
 (R0014)
 (R0015)

CONFIGURATION DESCRIPTION
 ARC 8-F1 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-F1 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-F1 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-F1 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)

REFERENCE INFORMATION
 SREF 171.4722
 LREF 25.5100
 BREF 20.2557
 XMRP 16.6633
 YMRP 11.1111
 ZMRP 11.1111
 SCALE .0188

BOFLAP .000
 RUJFLR .000
 VINGND 2.000
 LAMCAF 46.800
 (BV2VFB) (BV2VFB)
 (BV2VFB) (BV2VFB)
 (BV2VFB) (BV2VFB)
 (BV2VFB) (BV2VFB)



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = .98

DATA SET SYMBOLS:
 (R) (S) (X)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)

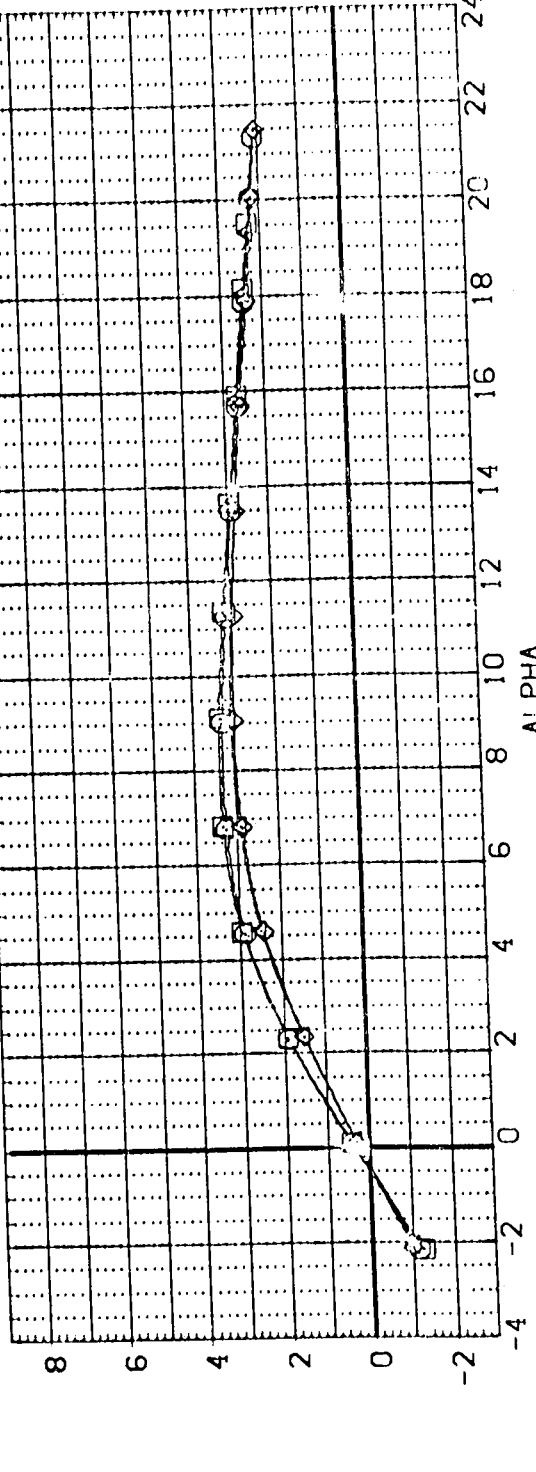
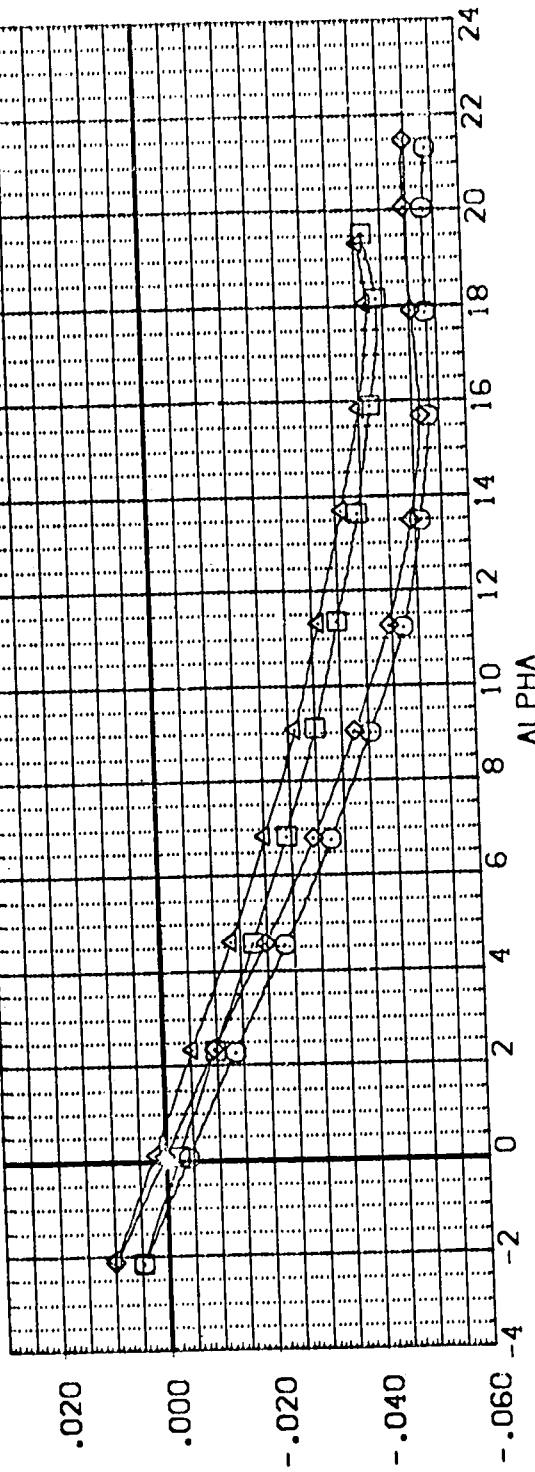
LAMDAF
 46.800
 75.000
 46.800
 75.000

WINGNO
 2.000
 2.000
 2.000
 2.000

RUDFLR
 .000
 .000
 10.000
 10.000

BCFLAP
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720 SCALE
 LREF 75.5100 SCALE
 BREF 20.3597 SCALE
 XMRP 16.8533 SCALE
 YMRP .0000 SCALE
 ZMRP .0000 SCALE
 SCALE .0199 SCALE

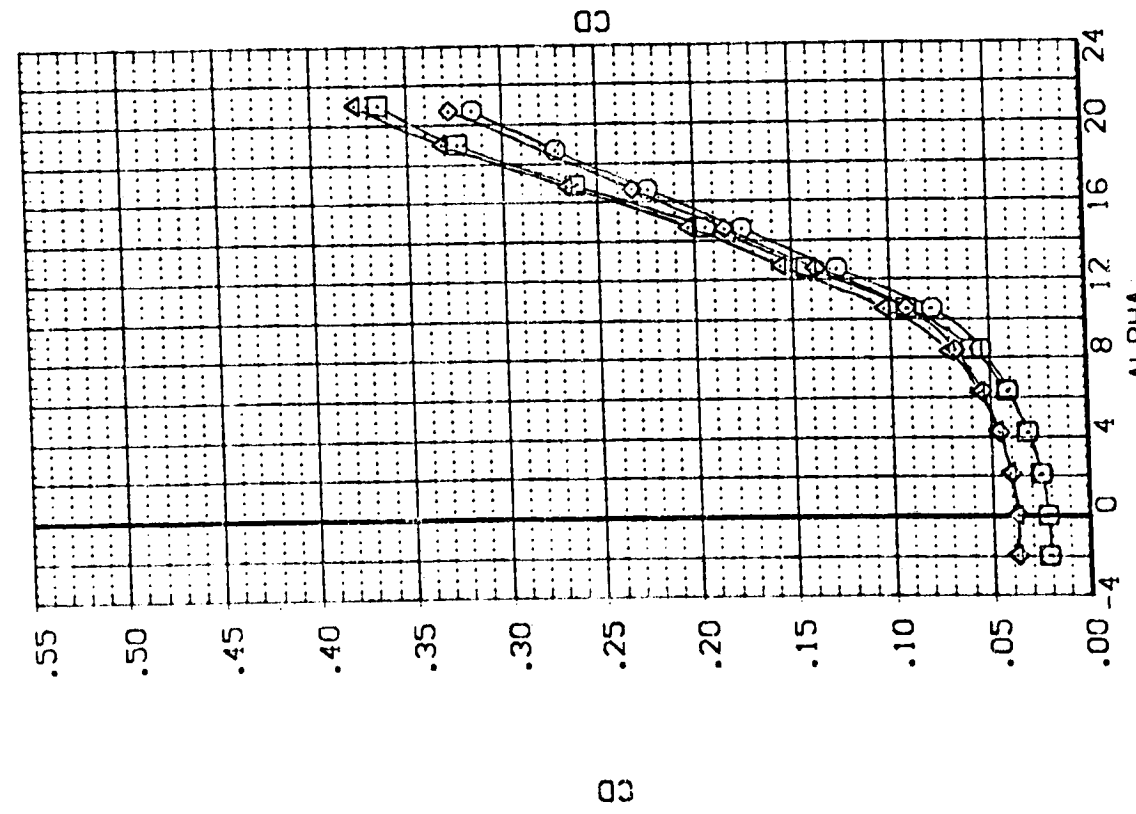
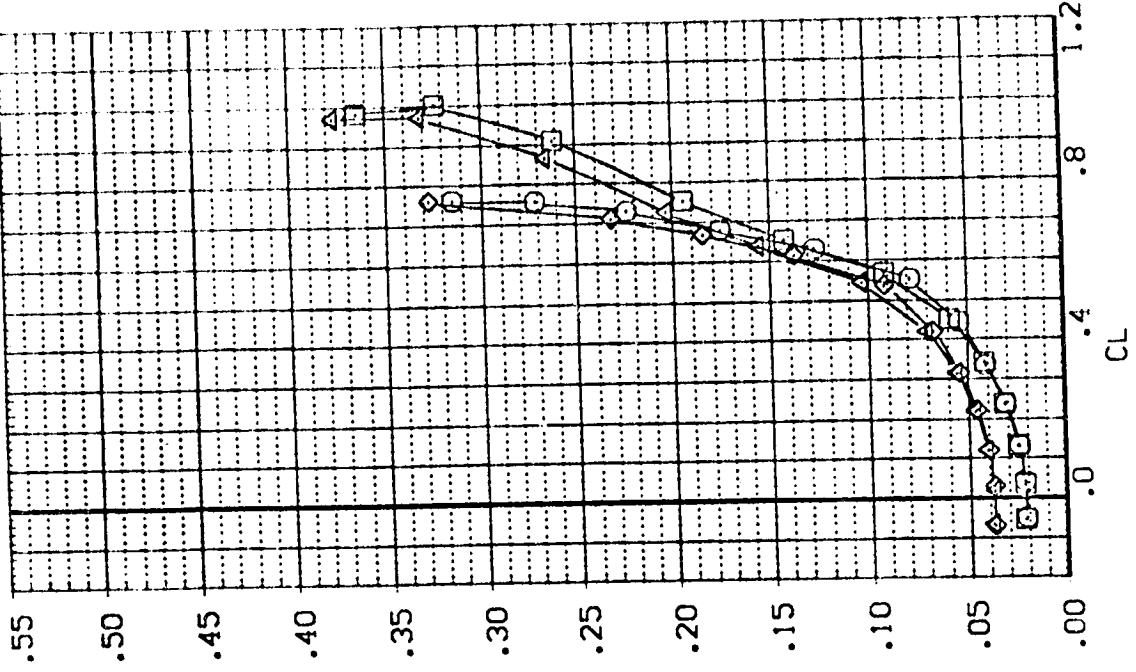


EFFECT OF RUDDER FLARE (B W2 V FB)
 MACH = 1.20

DATA SET 5190C
 (R21007)
 (R21002)
 (R21014)
 (R21011)

CONFIGURATION DESCRIPTION
 -A3 844 TP 844 LC-100 CRBITTER(SHIPS) (BW2VFB)
 -A3 844 TP 844 LC-100 CRBITTER(SHIPS) (BW2VFB)
 -A3 844 TP 844 LC-100 CRBITTER(SHIPS) (BW2VFB)
 -A3 844 TP 844 LC-100 CRBITTER(SHIPS) (BW2VFB)

WINGND RUDFLR 9DFLAP REFERENCE INFORMATION
 45.800 .000 .000 4720 50000 S
 75.000 .000 .000 4720 50000 S
 45.800 10.000 .000 4720 50000 S
 75.000 10.000 .000 4720 50000 S
 75.000 .000 .000 4720 50000 S
 75.000 .000 .000 4720 50000 S
 SCALE SCALE SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)

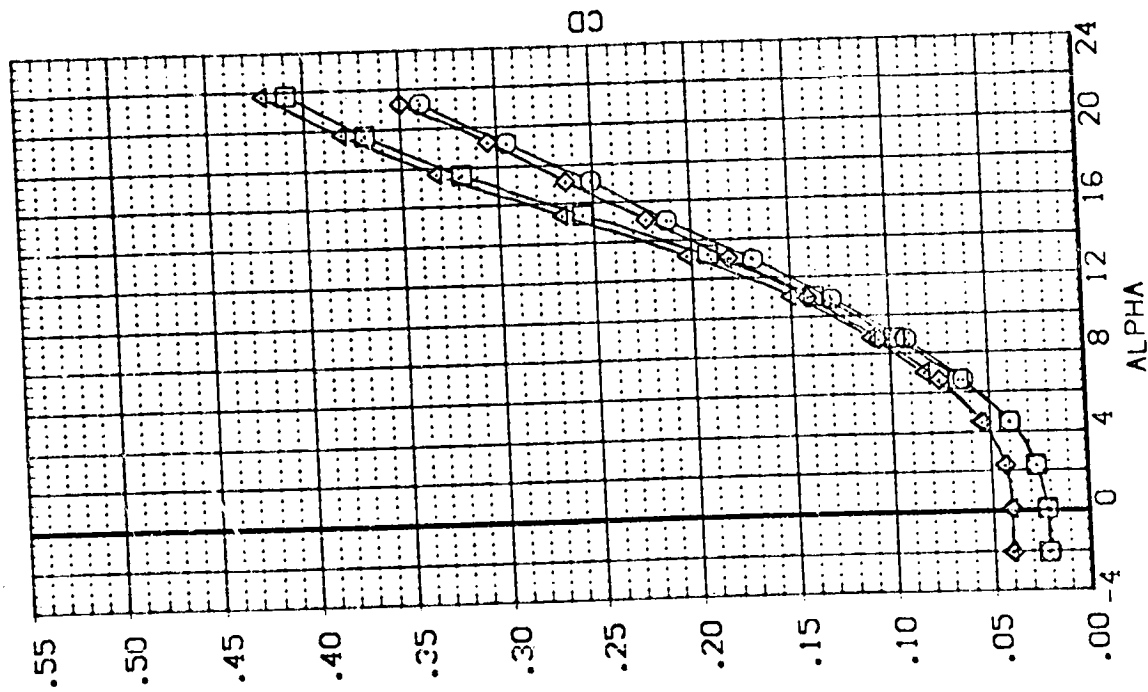
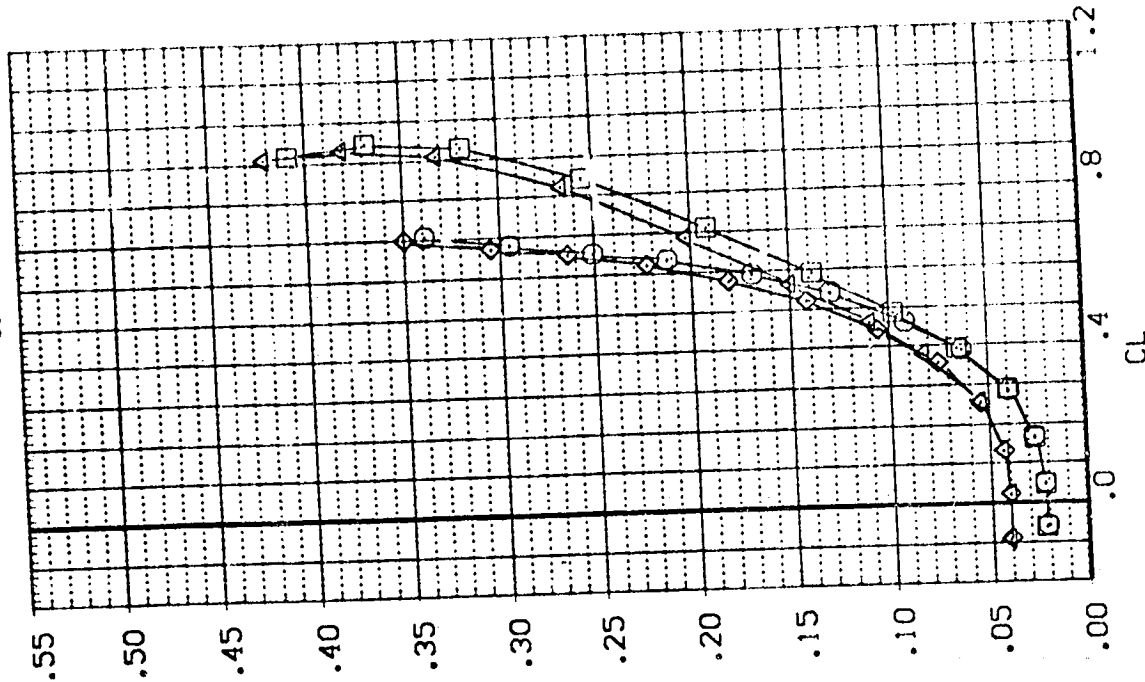
CADMACH = .35



DATA SET SYMBOLS: () () () ()
 CONFIGURATION DESCRIPTION: (B W2 V FB) (B W2 V FB) (B W2 V FB) (B W2 V FB)
 LARC 9-FT TPT 644 LC-100 CRBITTER(SHIPS) (B W2 V FB)
 LARC 9-FT TPT 644 LC-100 CRBITTER(SHIPS) (B W2 V FB)
 LARC 9-FT TPT 644 LC-100 CRBITTER(SHIPS) (B W2 V FB)
 LARC 9-FT TPT 644 LC-100 CRBITTER(SHIPS) (B W2 V FB)

LAMDAF: 45.800 75.000 45.800 75.000
 WINGND: 2.000 2.000 2.000 2.000
 RUOFLR: .000 .000 10.000 10.000
 BOFLAP: .000 .000 .000 .000

REFERENCE INFORMATION:
 SREF: 7.4720
 LREF: 25.5100
 BRFL: 20.3597
 XMRP: 16.8532
 YMRP: .0000
 ZMRP: .0000
 SCALE: .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

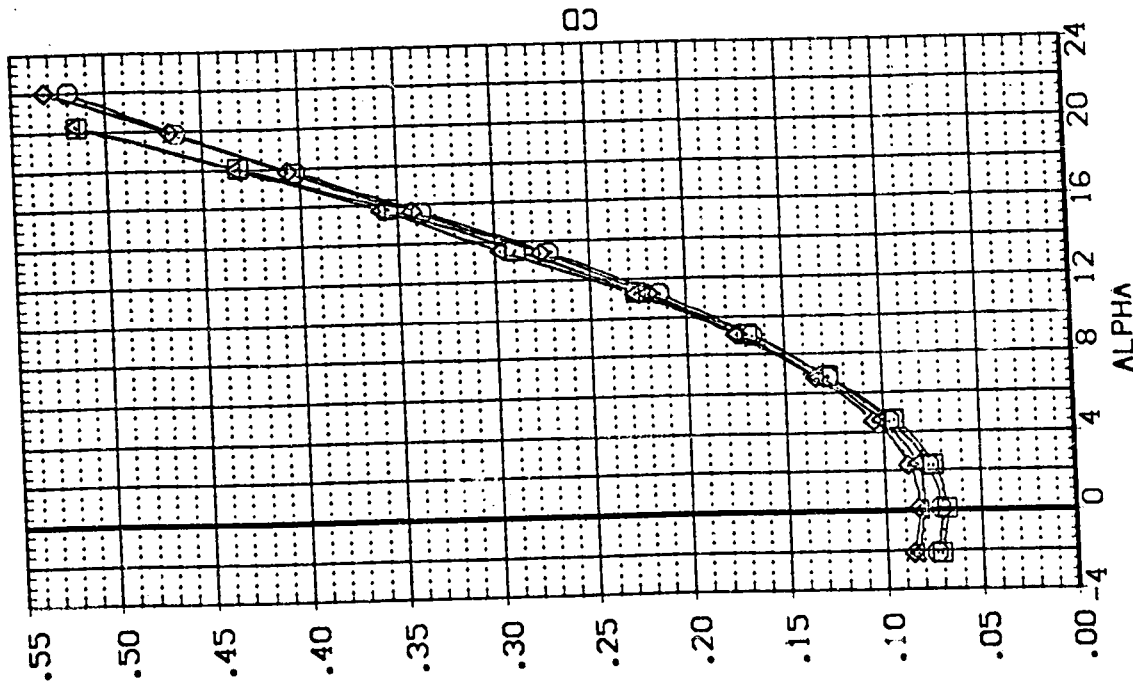
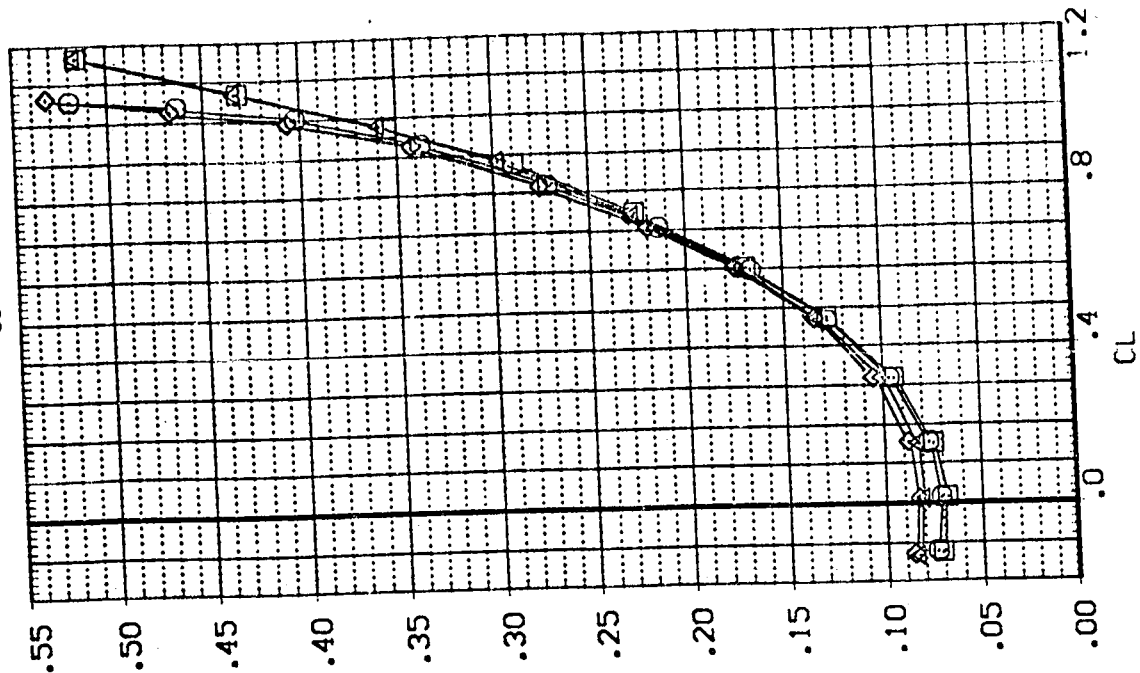
(B)MACH .50

DATA SET SYMBOL: (RP5007) (RP5012) (RP5014) (RP5015)

CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)

LAMDAF: 46.800, 75.000, 46.800, 75.000
 WINGNG: 2.000, 2.000, 2.000, 2.000
 RUDFLR: .000, .000, 10.000, 10.000
 BDFLAP: .000, .000, .000, .000

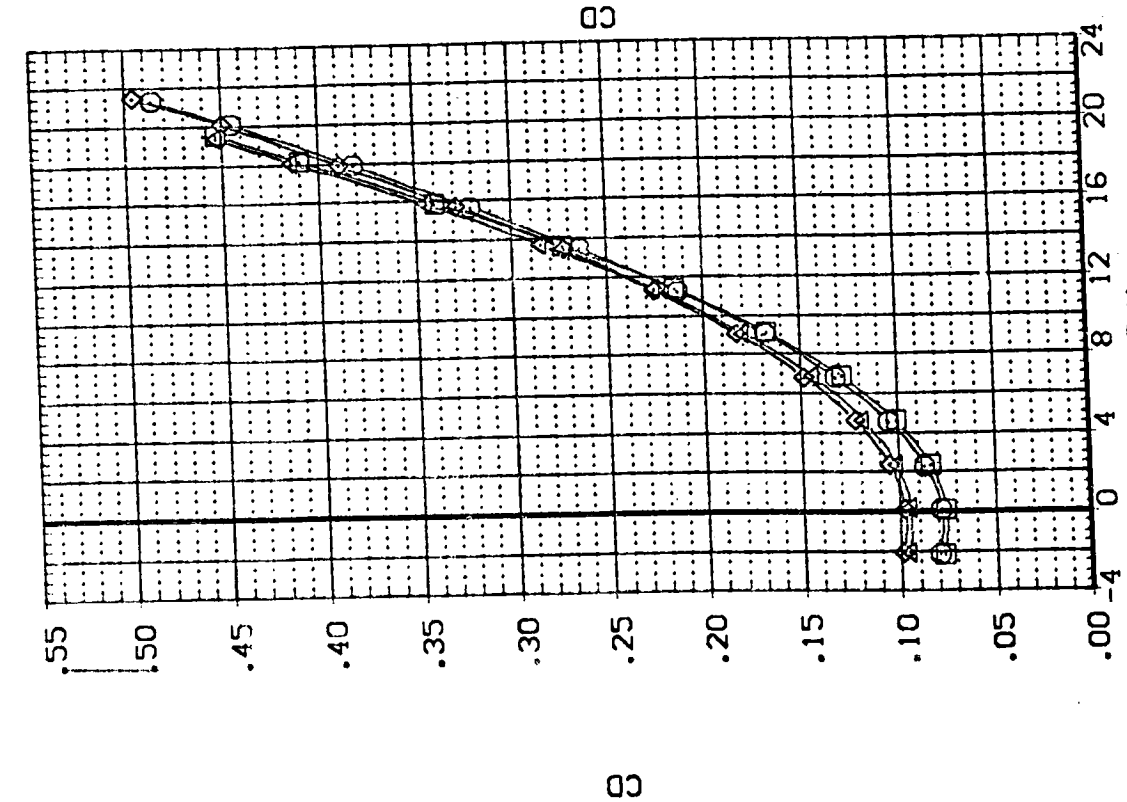
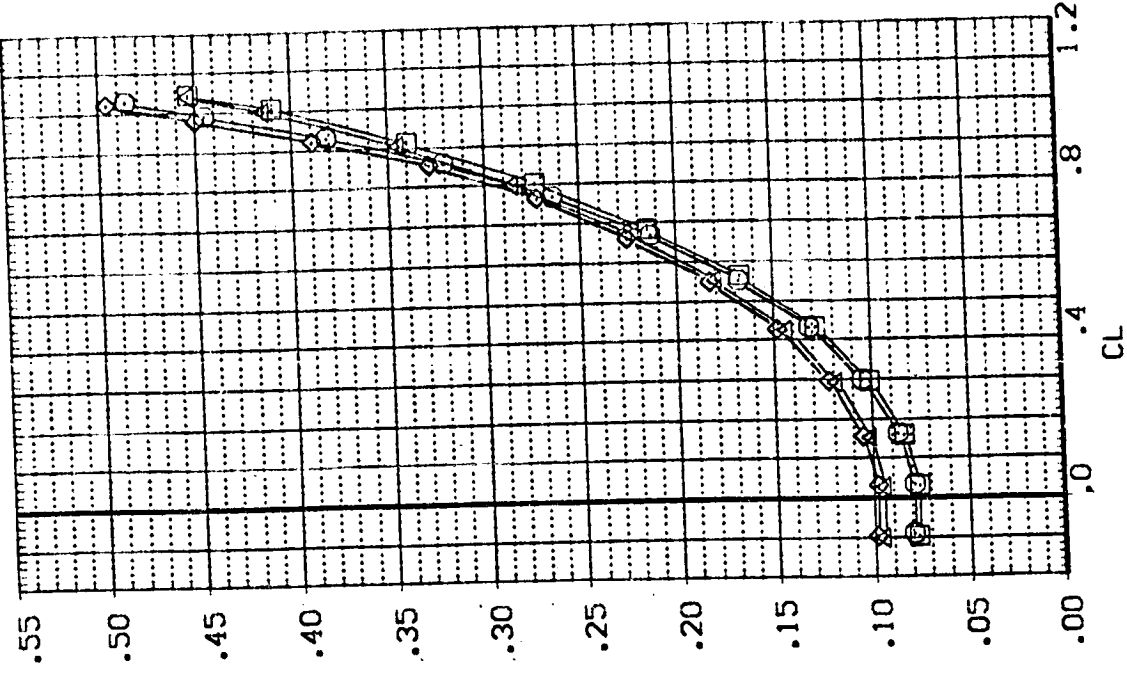
REFERENCE INFORMATION:
 SREF: 171.4720
 LREF: 25.5100
 BREF: 20.3597
 YMRP: 16.8633
 ZMRP: .0000
 SCALE: .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

() MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMPAD	WINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720
(RP5012)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (SV2VFB)	75.000	2.000	.000	.000	LREF 23.5120
(RP5014)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 23.3337
(RP5015)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	VMRP 15.8633
						ZMRP .0000
						SCALE .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = 1.20



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

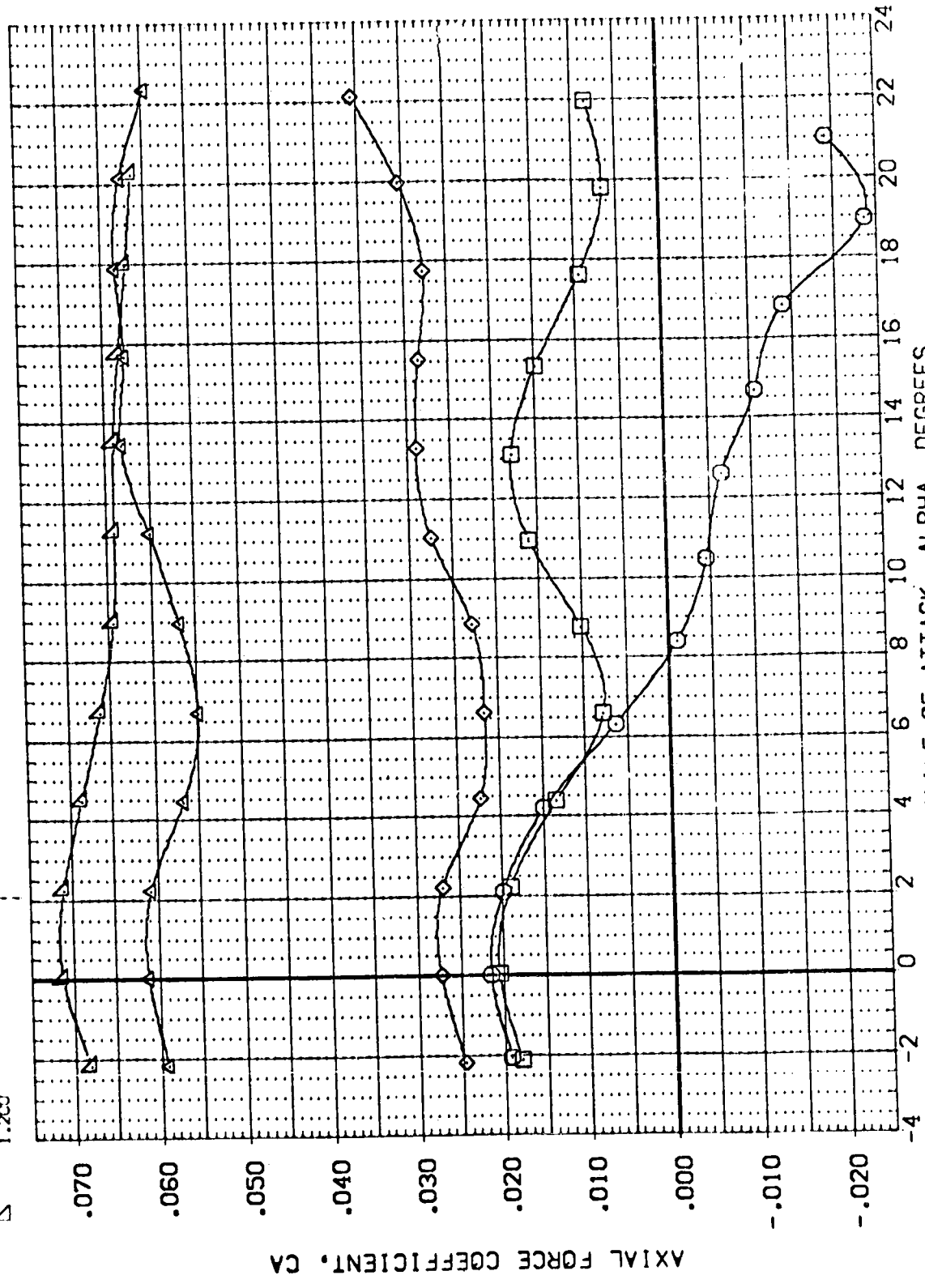
SYMBOL MACH
○ .349
□ .799
◇ .900
△ .980
▽ 1.200

BETA
LAMDAF
SOF LAF

PARAMETRIC VALUES
.000 WINGNO
78.000 ELEVTR
.000 RUOFLR

1.000
.000
.000

REFERENCE INFORMATION
SREF 175.7376
LREF 75.5100
BREF 19.7156
XMRP 16.8633
YMRP .0000
ZMRP .0000
SCALE .0188



AXIAL FORCE COEFFICIENT, CA

ANGLE OF ATTACK, ALPHA, DEGREES

LARC 8-F-1 IP: 644 00-100 ORBITER(SHIPS) (BWIV-B) (RP5006)

SYMBOL MACH

○ .349

□ .799

◇ .900

△ .980

1.200

PARAMETRIC VALUES

BETA .000

LAMDAF 78.000

BOFLAP .000

WINGNO 1.000

ELEVTR .000

RJDFLR .00

REFERENCE INFORMATION

SREF 175.7376

LREF 25.5100

BREF 19.7156

XMRP 15.8633

YMRP .0000

ZMRP .0000

SCALE .0188

SS: N

NC: S

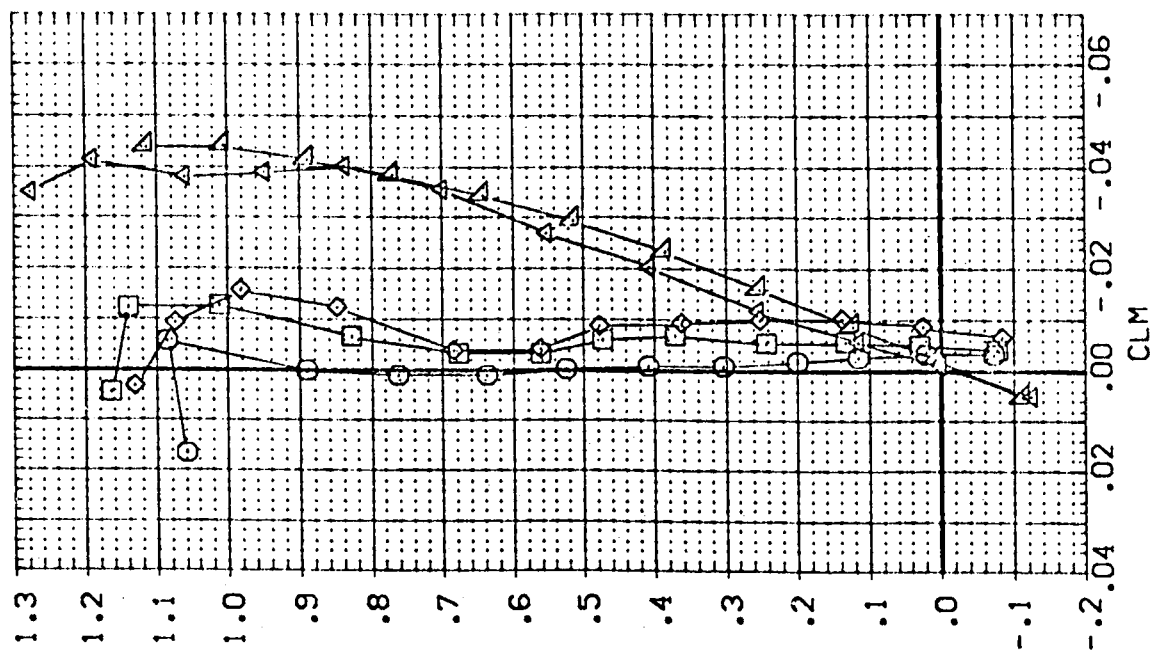
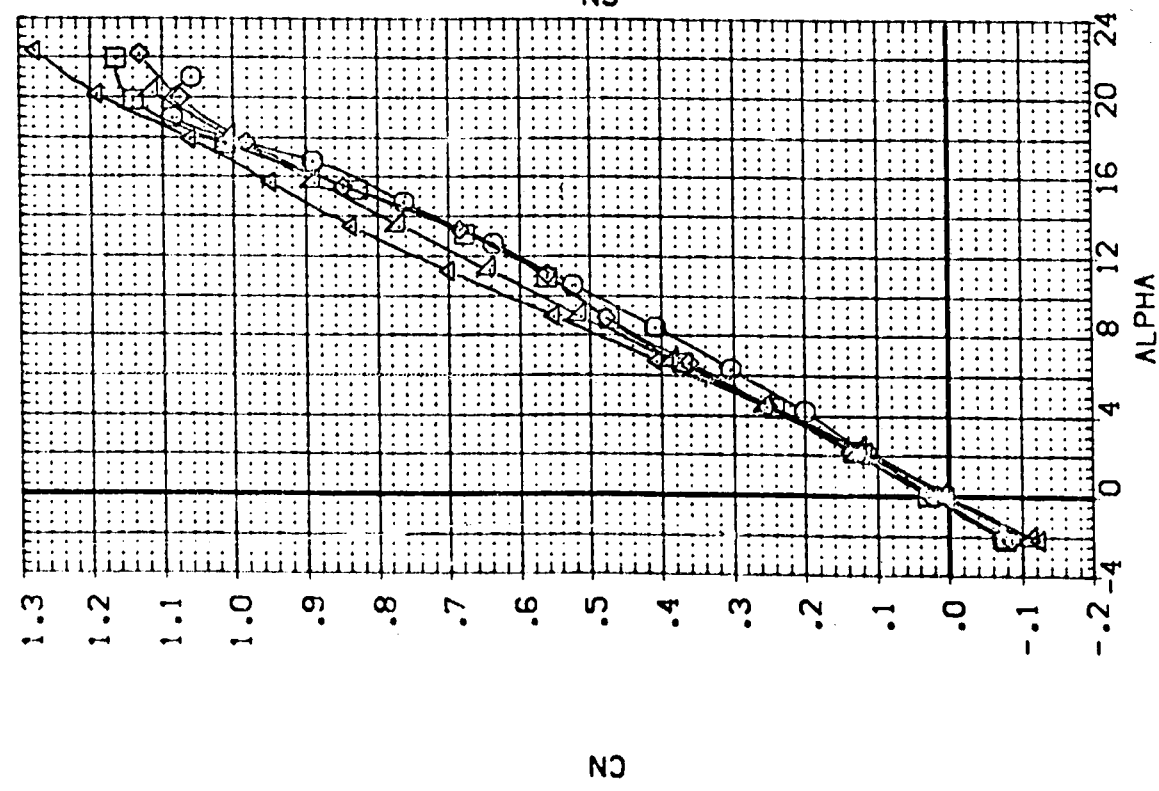
NC: S

NC: S

NC: S

NC: S

SCALE



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W I V FB)

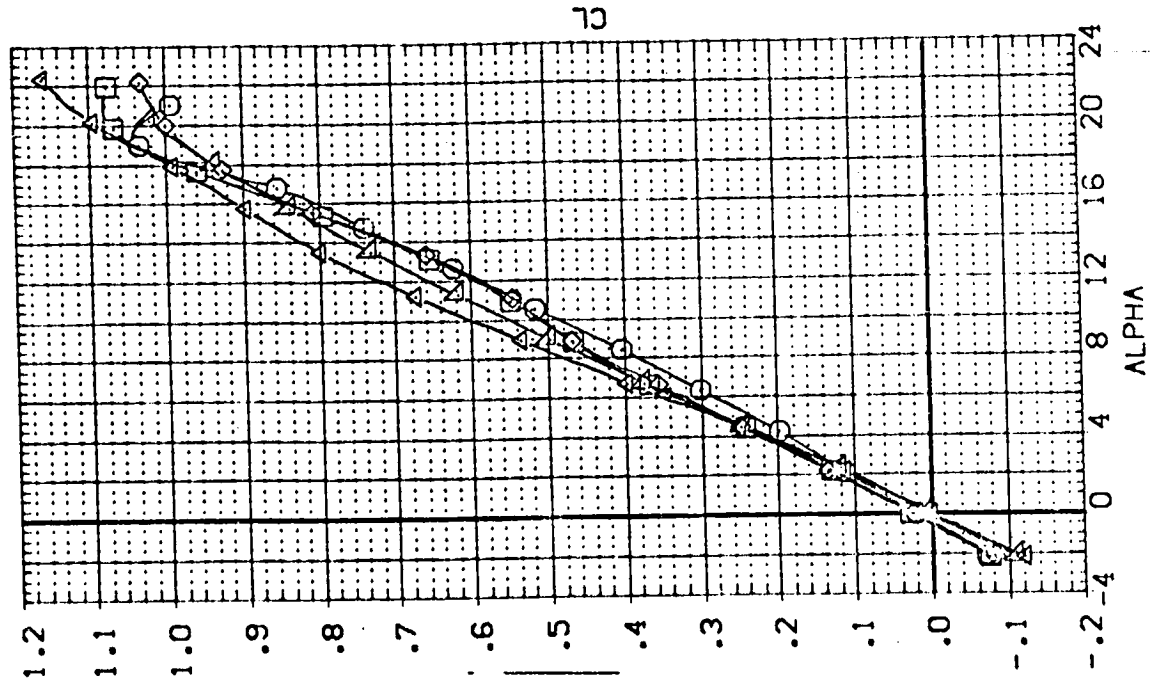
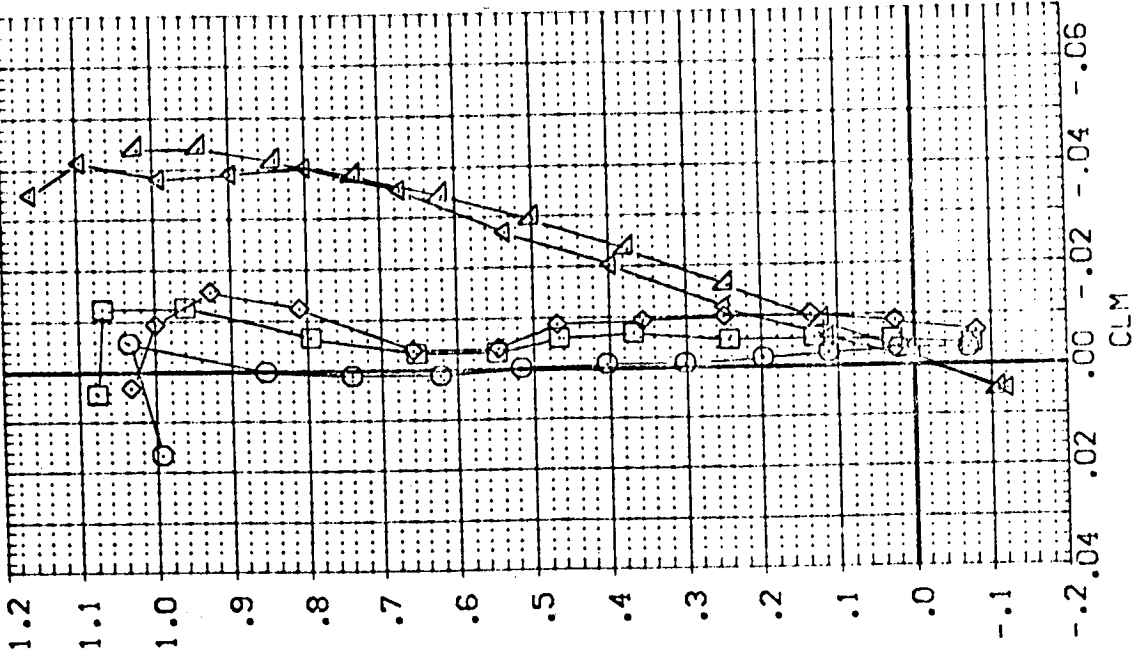


LARC 8-FT TPI 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

REFERENCE INFORMATION
 SREF 175.7376 SQ. IN.
 LREF 25.5100 INCHES
 BREF 19.7156 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0189

PARAMETRIC VALUES
 MACH .349 BETA .000 WINGNO 1.000
 .799 LAMDAF 78.000 ELEVTR .000
 .900 BDFLAP .000 R-DFLR .000
 .980
 1.200

SYMB.
 ○ □ ◇ ▲



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W I V F B)

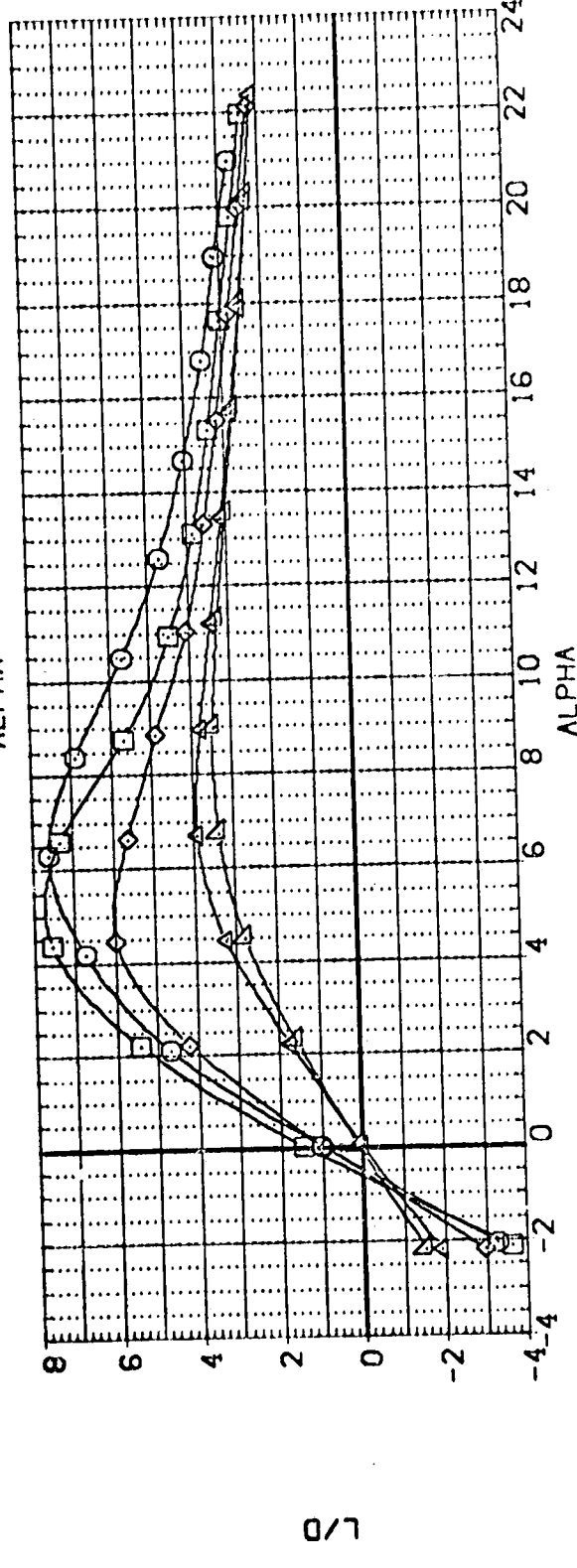
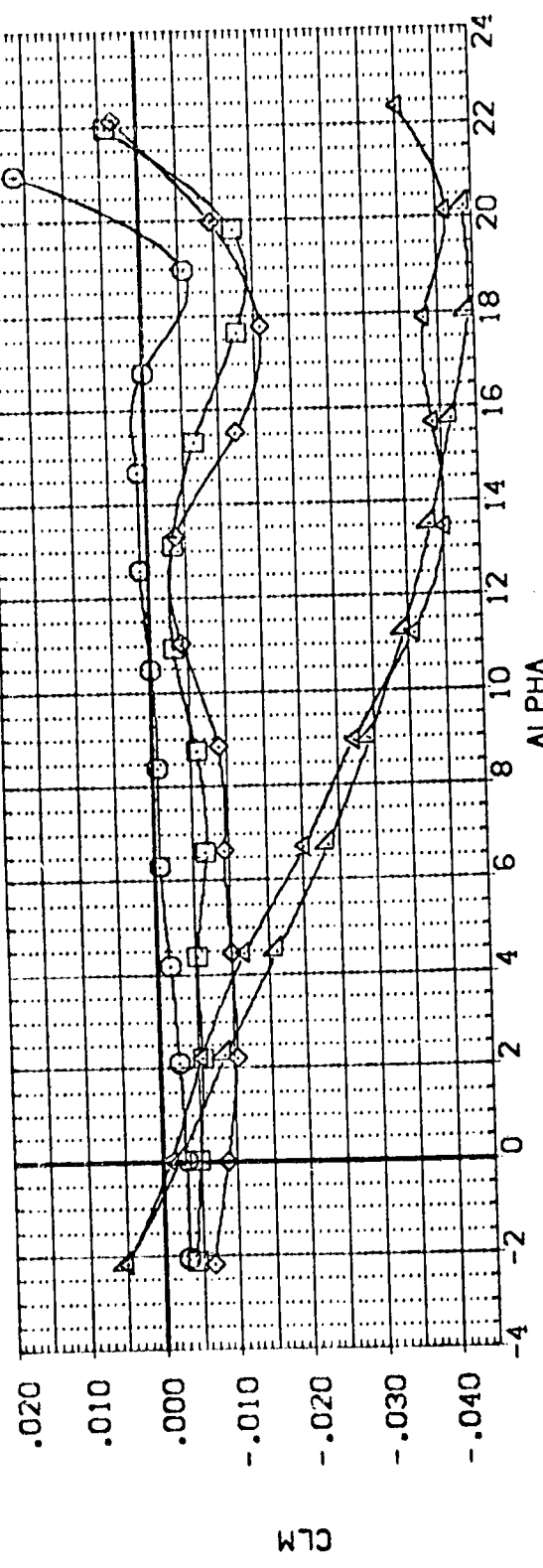
LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

REFERENCE INFORMATION
 SREF 175.7376
 PREF 75.5100
 BREF 19.7155
 XREF 15.8633
 WREF 0.0000
 ZREF 0.0000
 SCALE 0.98

PARAMETRIC VALUES
 .000 VINGNO 1.000
 .000 ELEVTR .000
 .000 RJDFLR .000
 .000

BETA
 .349
 .799
 .900
 .980
 1.200

SYMBOL
 ○ □ ◇ ▲ ▽

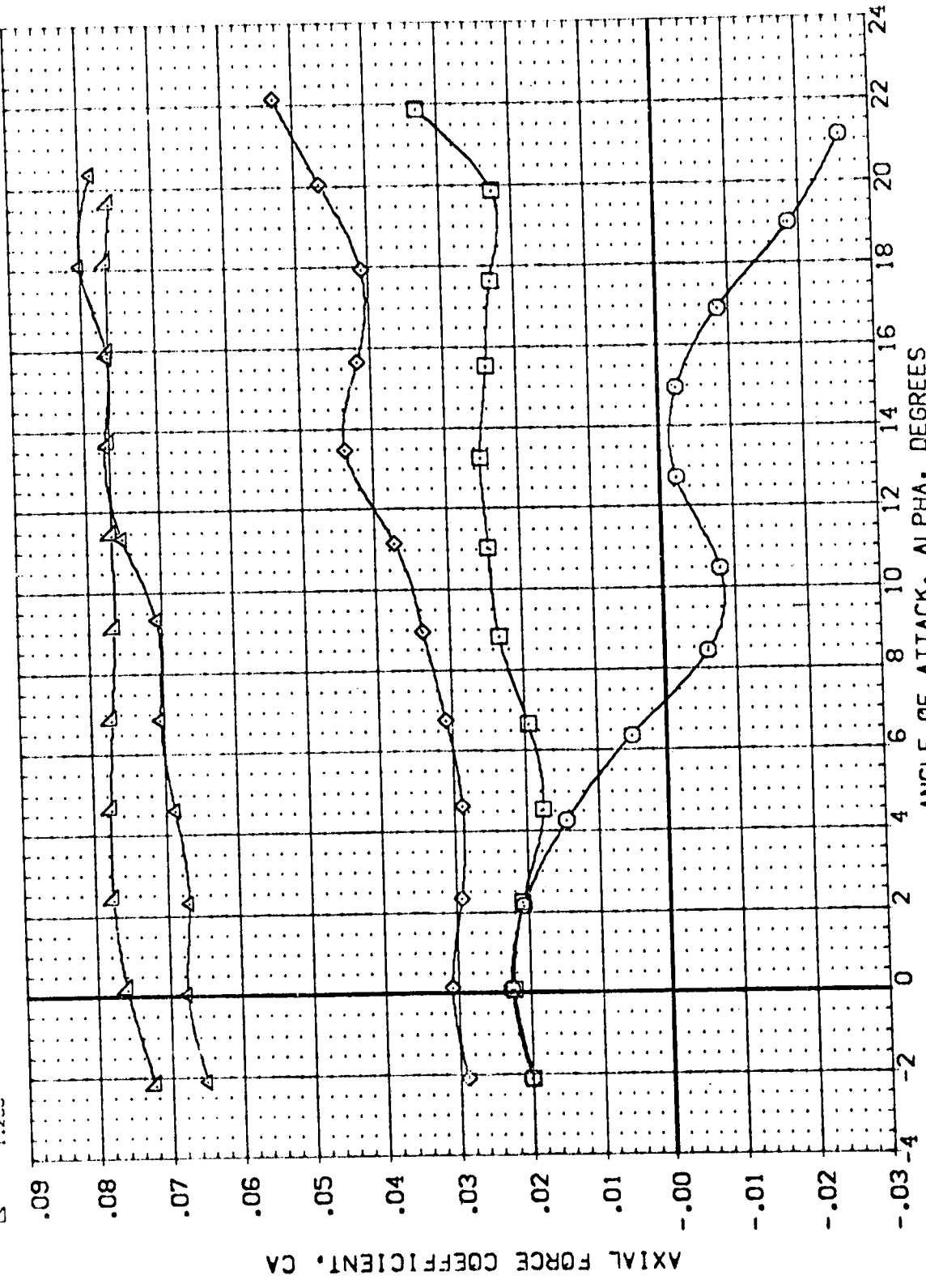


EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W1 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

REFERENCE INFORMATION
 SPEC 171.472C
 LREF 25.51CC
 SREF 20.3597
 XREF 16.8533
 YREF .0000
 ZREF .0000
 SCALE .0168

SYMBOL MACH BETA LAMDAF 90FLAP
 ○ .348 .000 .000
 □ .800 78.000 .000
 ◇ .900 .000 .000
 △ .980 .000 .000
 1.200



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG. (B W2 V FB)



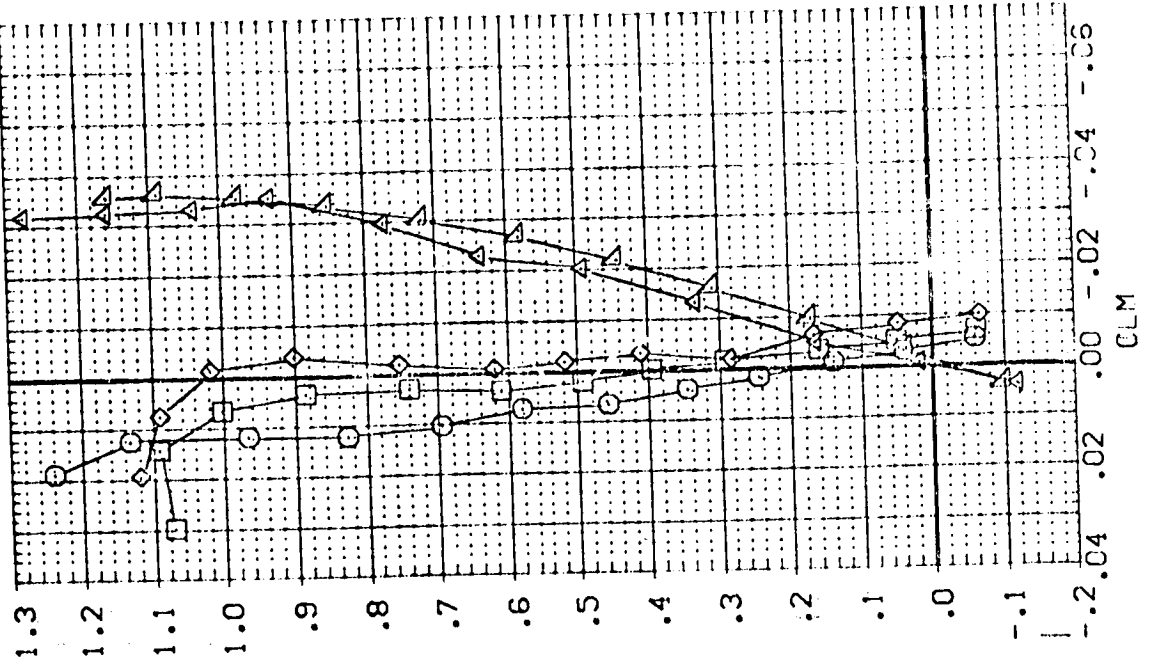
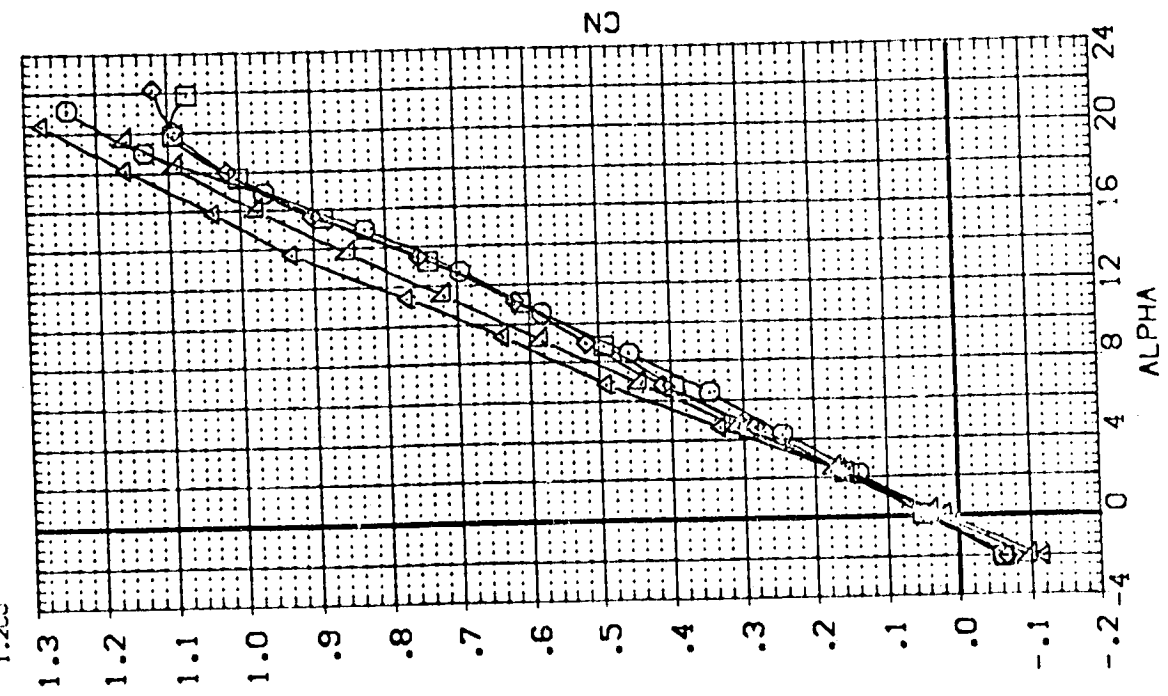
LARC 8-FT IPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

SYMBOL
□ ○ ◇ △

PARAMETRIC VALUES	
MACH	2.000
BETA	.000
L'AMDAF	78.000
BOFLAP	.000
	RJDFLR
	.000
	VINGNO
	2.000
	ELEVTR
	.000
	RJDFLR
	.000

REFERENCE INFORMATION

SREF	171.4720
LREF	25.5100
BREF	20.3597
XMRP	16.8633
YMRP	.0000
ZMRP	.0000
SCALE	.0188



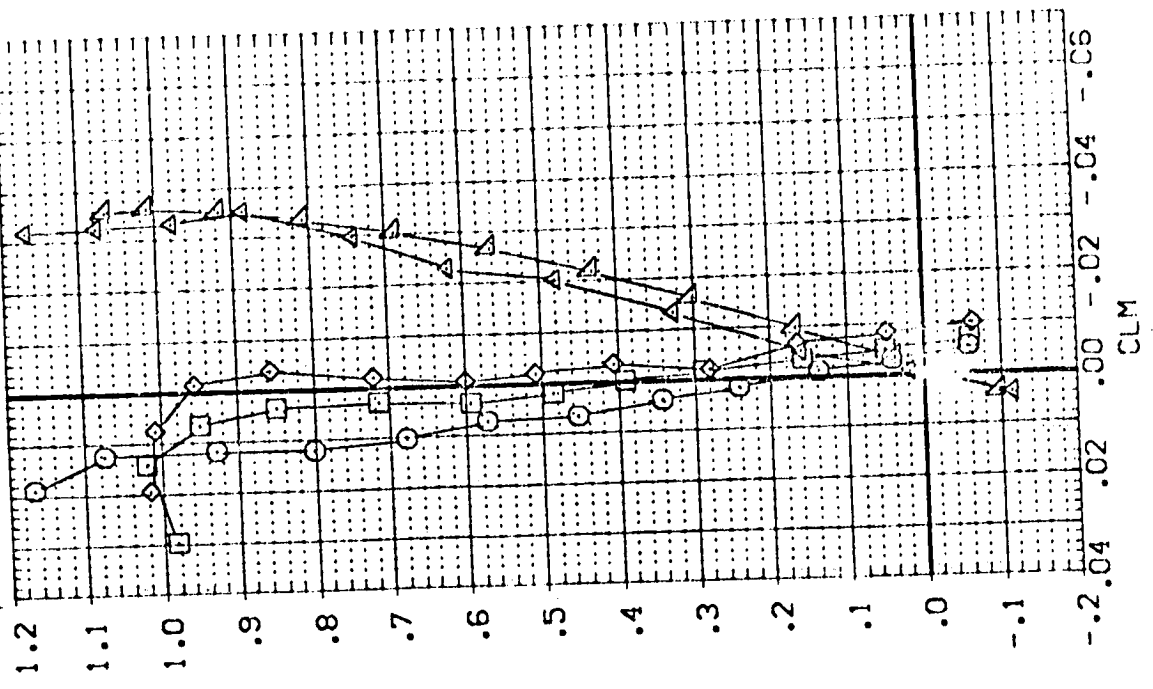
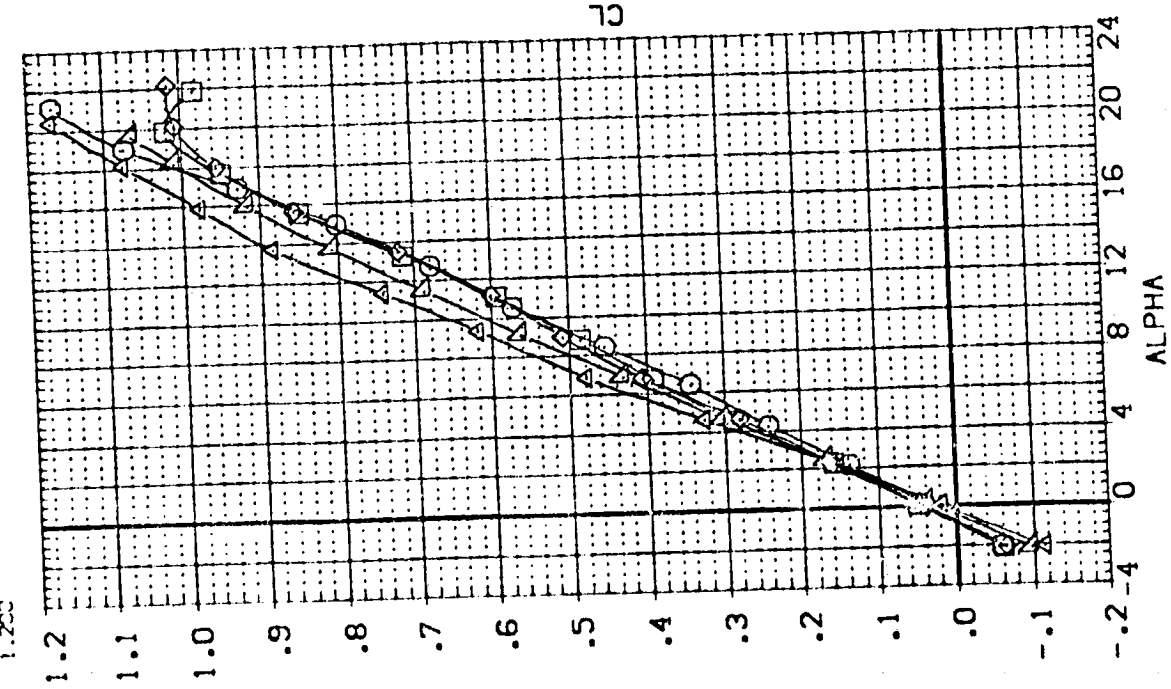
EFFECT OF MACH NUMBER, L'AMDAF = 78 DEG, (BW2 V FB)

LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

MACH .348
 BETA .800
 LAMDAF 78.000
 SCFLAP .000
 .900
 .980
 1.200

PARAMETRIC VALUES
 .000 WINGNO 2.000
 .000 ELEVTR .000
 .000 RUDFLR .000

REFERENCE INFORMATION
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 LREF 29.5400
 BRREF 20.9557
 XMRP 16.8933
 YMRP .0000
 ZMRP .0000
 SCALE 1:1.89

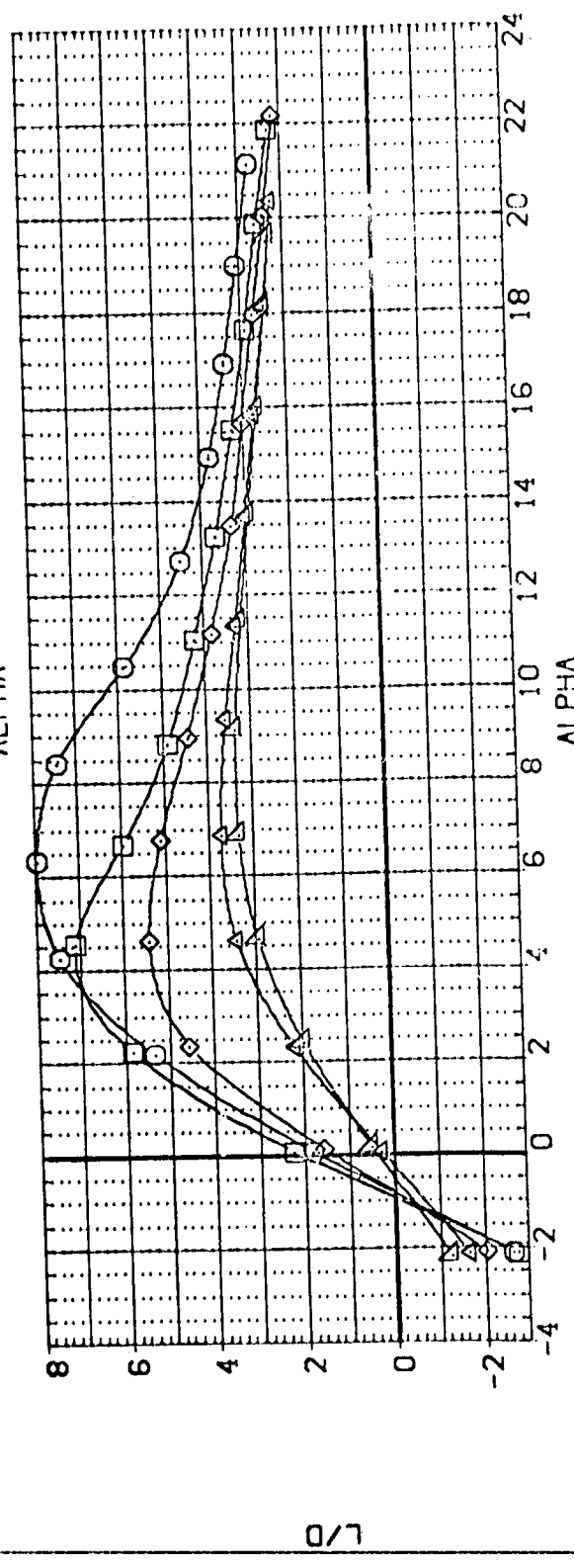
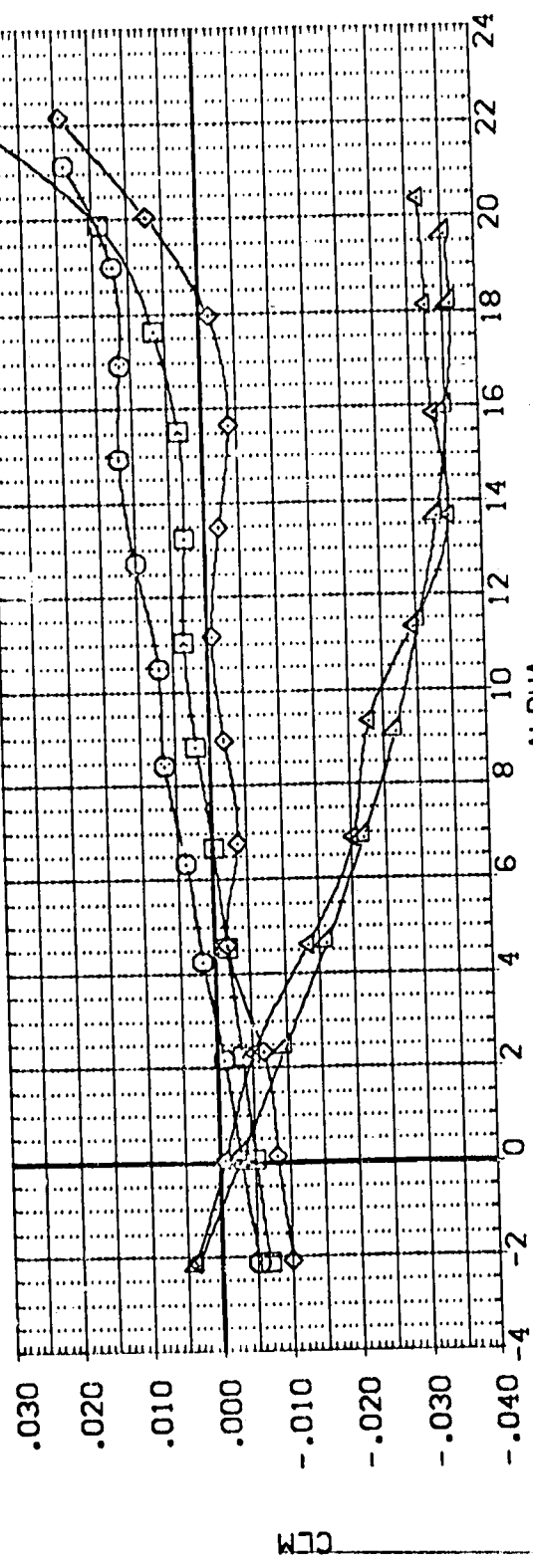


EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

SYMBOL	MACH	BETA	LAMDAF	BOFLAP	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.348				WINGNO 2.000	SREF 171.4720
□	.800				ELEVTR .000	LREF 25.5100
◇	.900				RJDFLR .000	BREF 20.3597
△	.980					XMRP 16.8533
▽	1.200					VMRP .0000
						ZMRP .0000
						SCALE .0188
						SCALE



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W2 V FB)

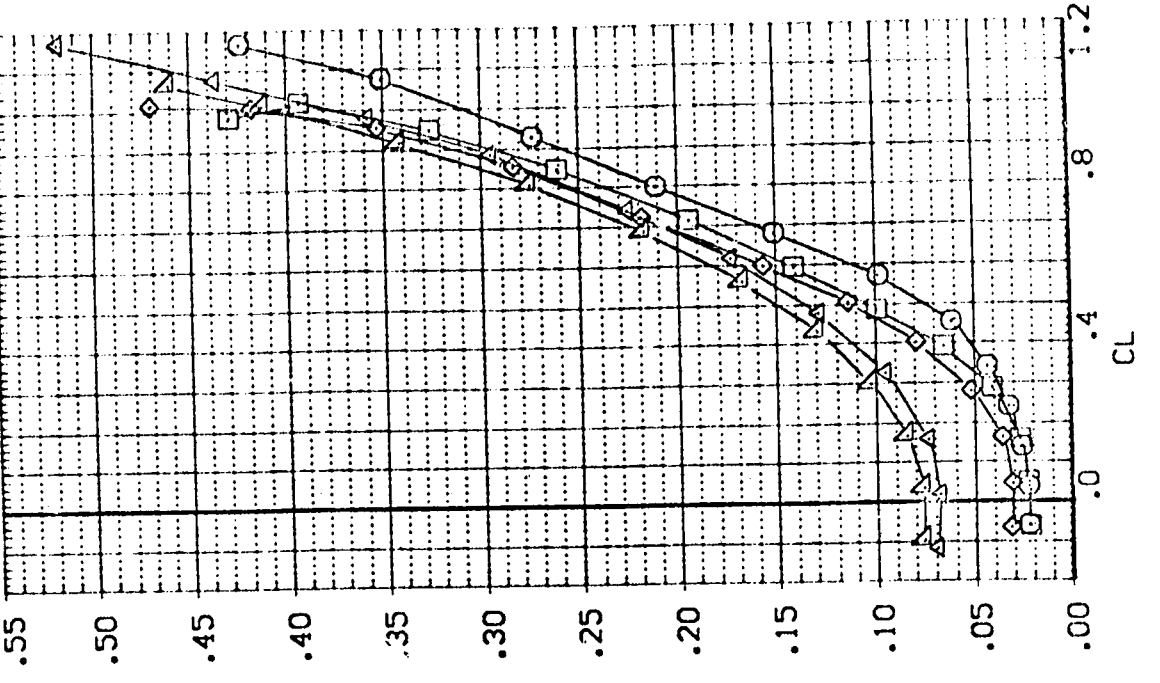
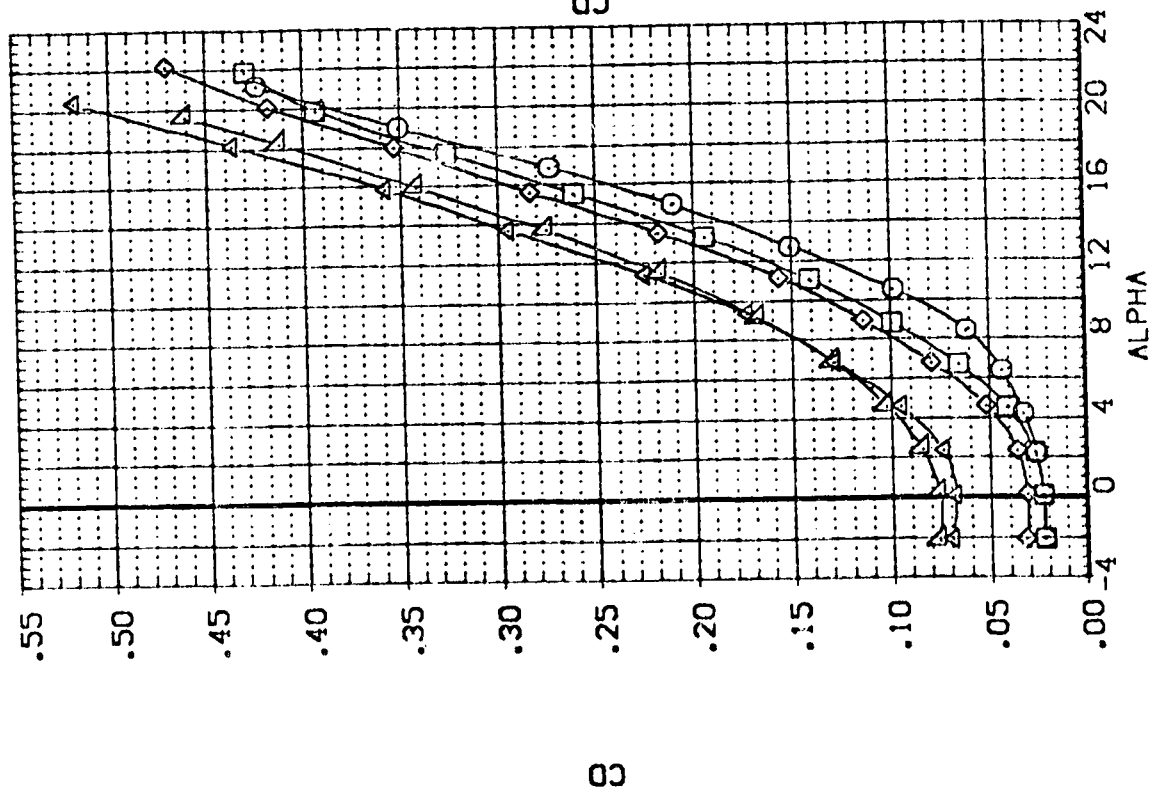
LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RPS013)

SYMBOL
 □
 ◇
 △

MACH
 .348
 .800
 .900
 .980
 1.200

PARAMETRIC VALUES
 BETA .000
 LAMDAF 78.000
 BCFLAP .000
 WINGAO 2.000
 ELEVTR .000
 RJDFLR .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3597
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



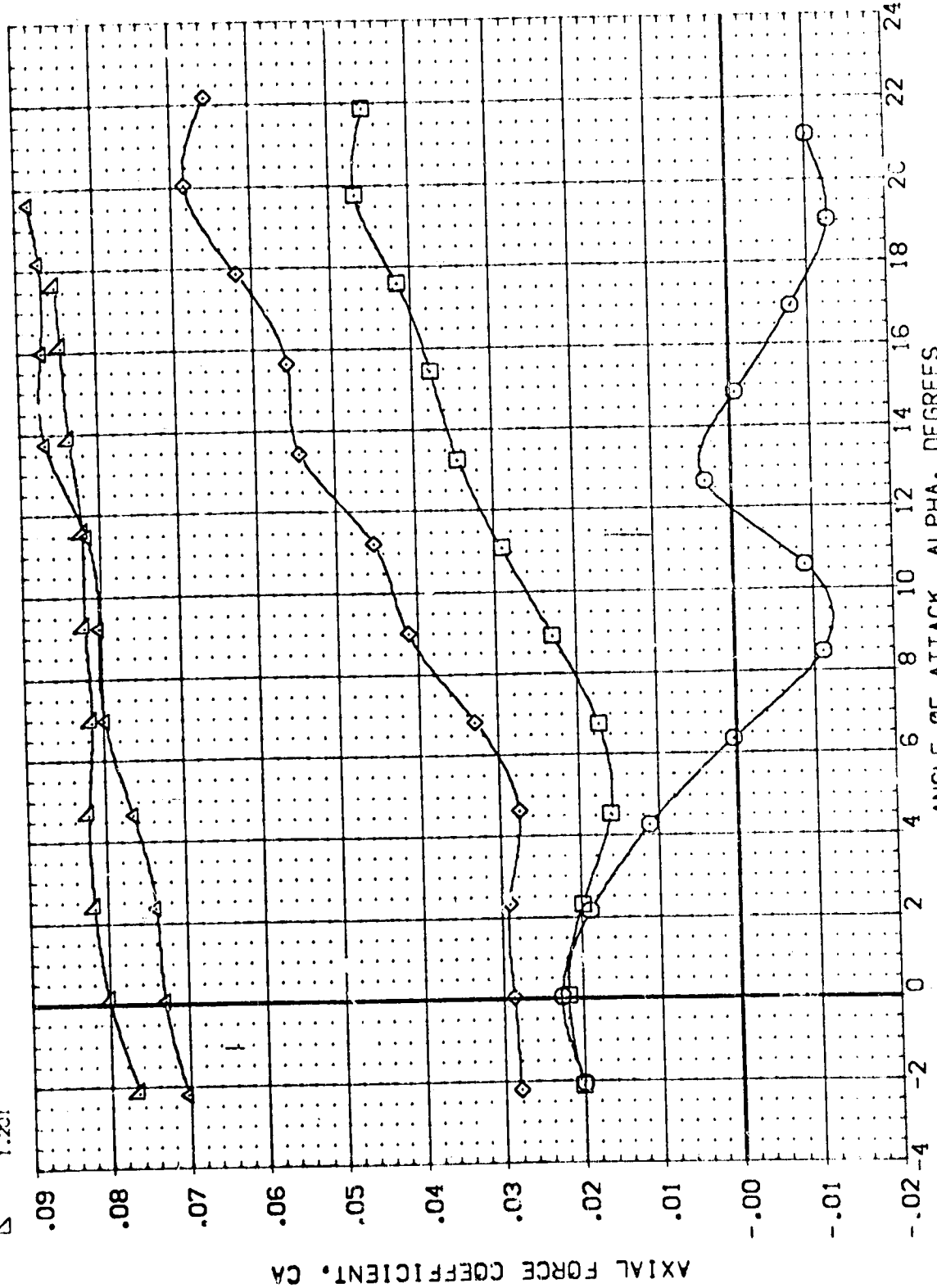
EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL	MACH	PETA	LAMDAF	BDFLAP	PARAMETRIC VALUES	SCALE
○	.349				WINGNG 3.000	
□	.800				ELEVTR .000	
◇	.899				RJDFLR .000	
△	.980					
	1.201					

REFERENCE INFORMATION	
SREF	173.1312
REF	25.5100
BREF	20.0000
XREF	16.8833
YREF	.0000
ZREF	.0000
SCALE	.0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (B*3VFB) (RP5022)

SYMBOL
 ○ □ ◇ △

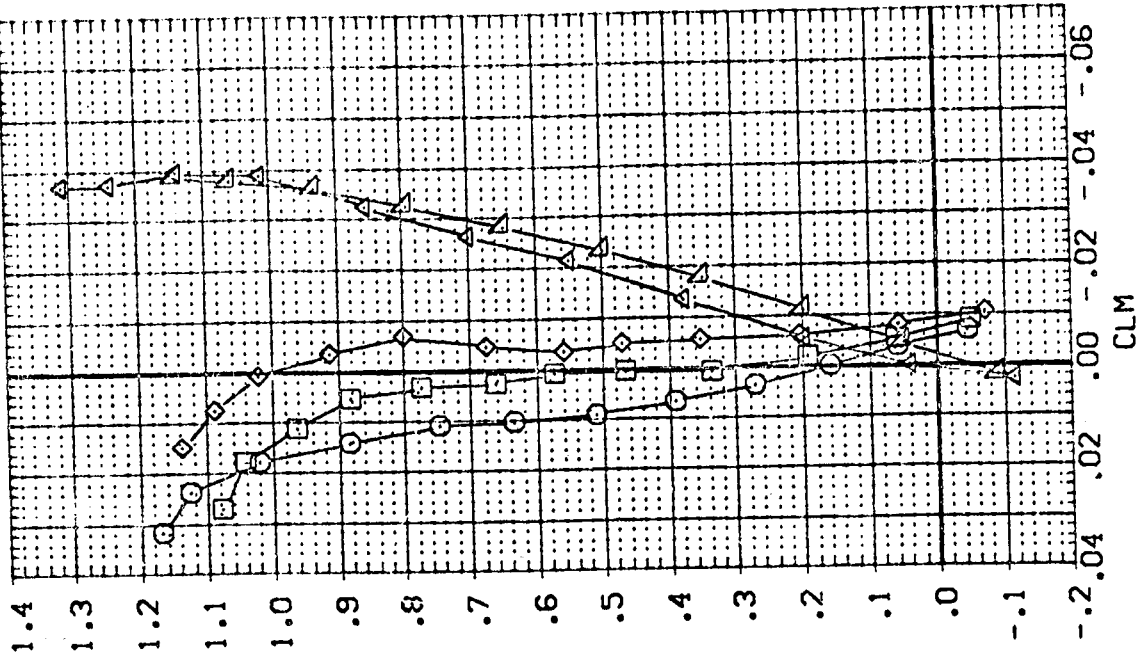
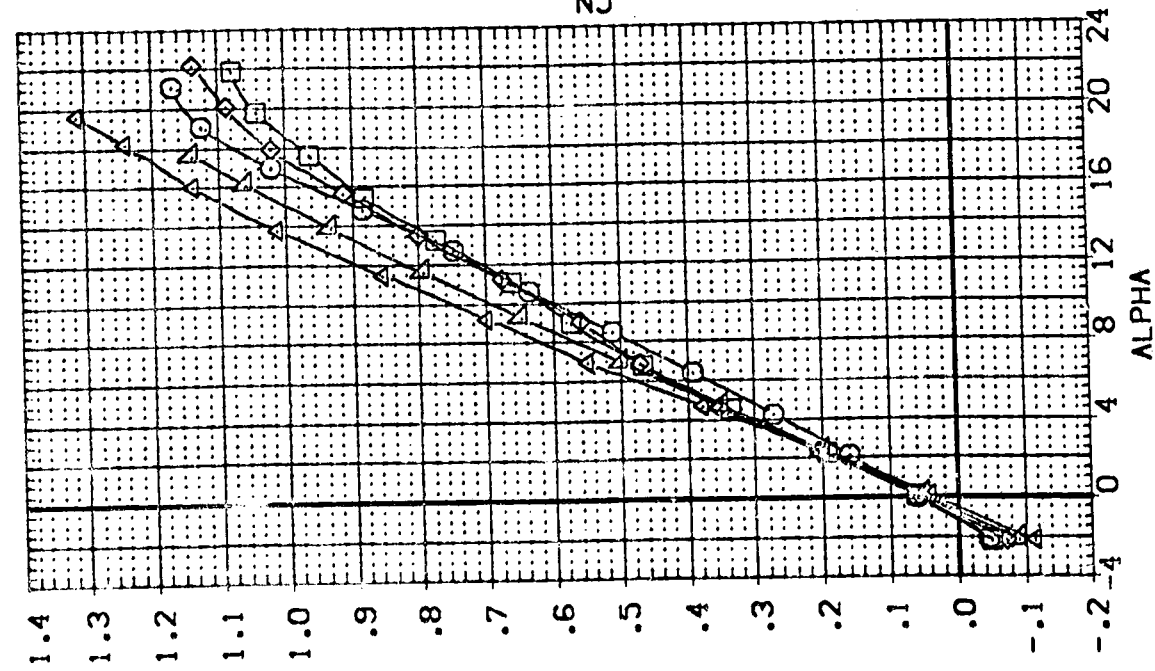
MACH
 .343
 .500
 .699
 .980
 1.201

BETA
 .000
 79.000
 .000
 .000

LAMDAF
 .000
 .000
 .000
 .000

PARAMETRIC VALUES
 WINGNO 3.000
 ELEVTR .000
 RUOFLR .000

REFERENCE INFORMATION
 SREF 179.1312
 LREF 25.5100
 BREF 22.9236
 XMRP 15.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL
 ○ □ ◇ △ ▽

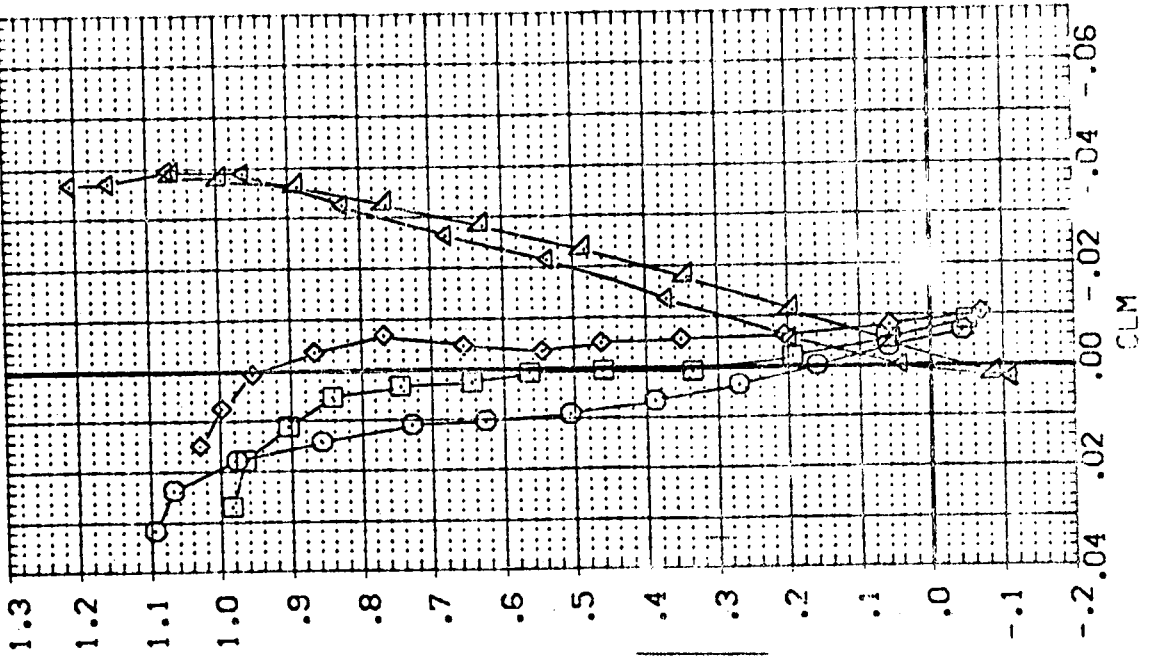
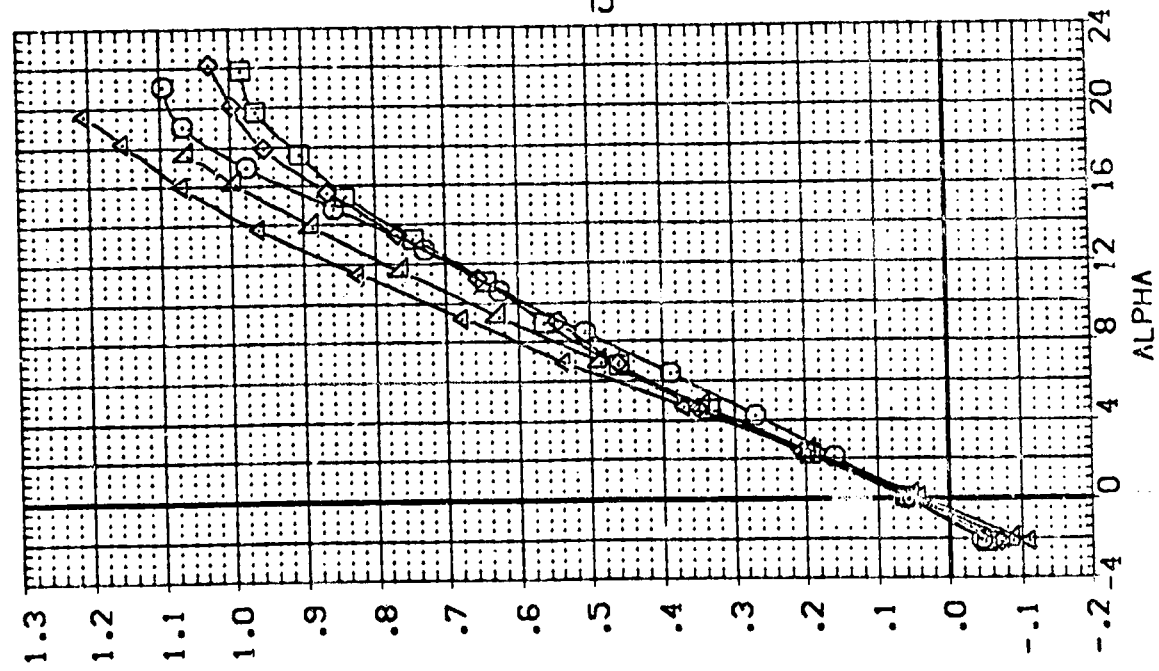
MACH
 .349
 .800
 .899
 .980
 1.201

BETA
 .000
 .000
 .000

PARAMETRIC VALUES
 VINGNO 3.000
 ELEVTR .000
 RUFLR .000

LAMDAF
 78.000
 78.000
 78.000

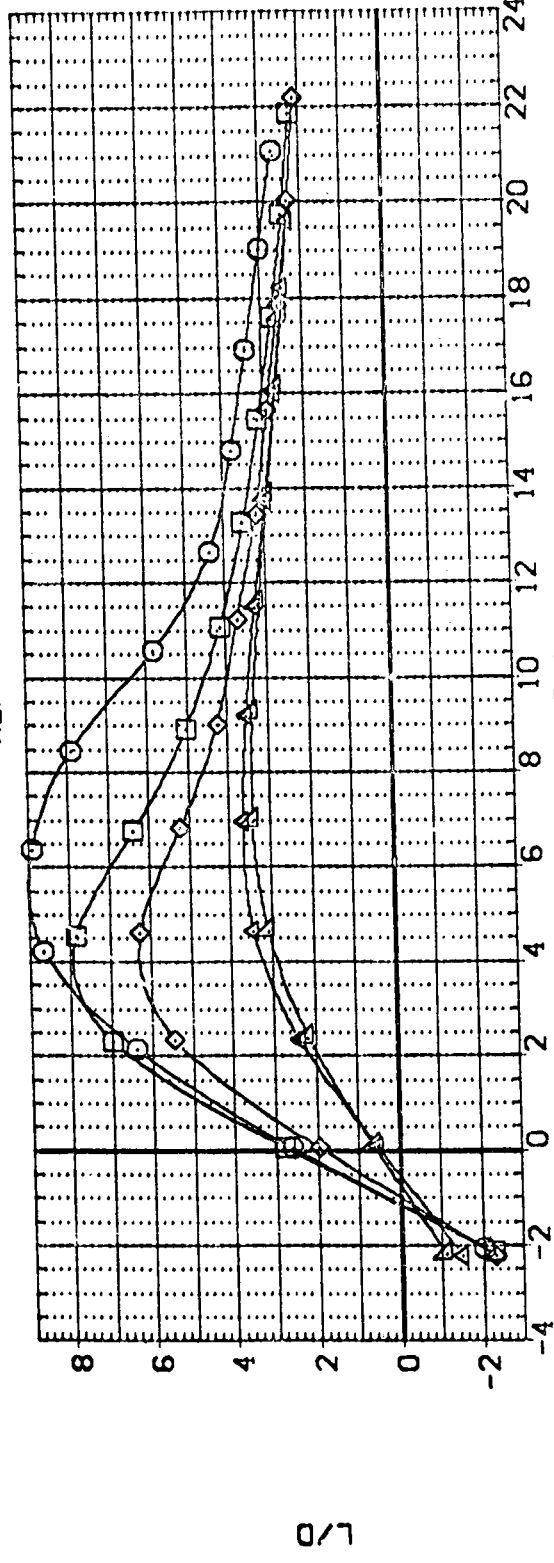
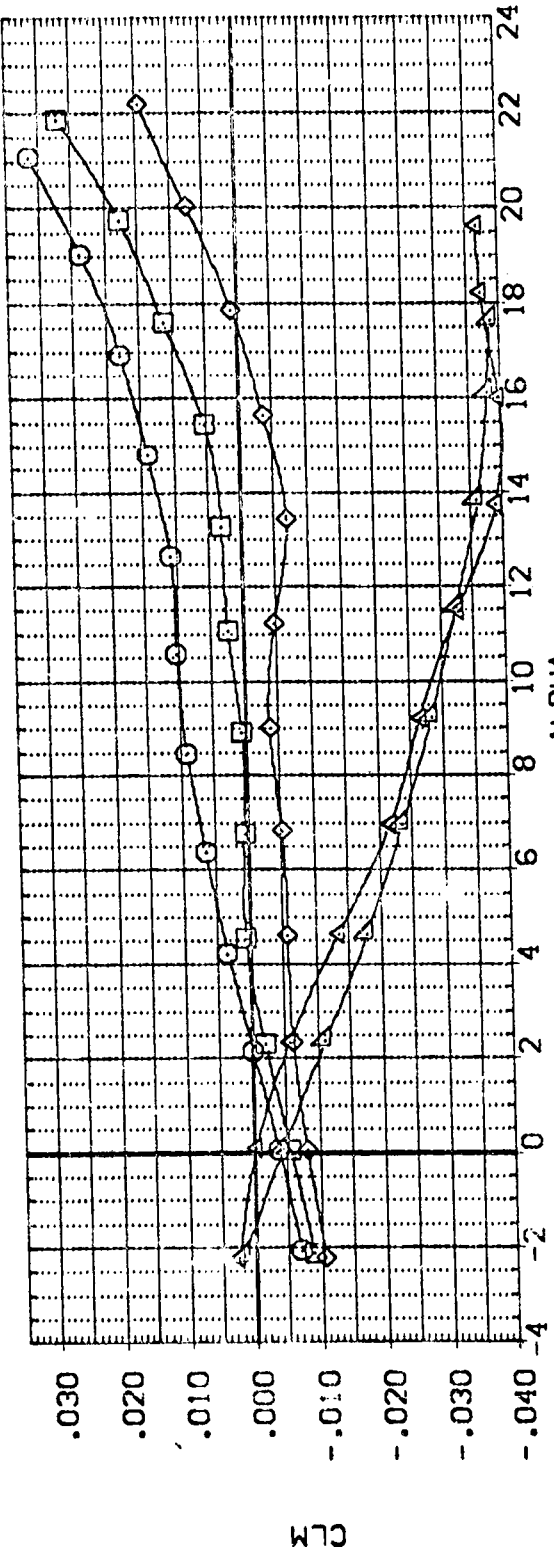
REFERENCE INFORMATION
 SREF 173.1312 SQ. IN.
 LREF 23.5100 INCHES
 BREF 20.5033 INCHES
 XMRP 15.8533 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0189



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW3VFB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.349	.000	WINGO 3.000	SREF 173.1312
□	.800	78.000	ELEVTR .000	LREF 29.5100
◇	.899	.000	RUDFLR .000	SREF 70.9000
△	.980	.000		XMRP 16.8633
	1.201			YMRP .0000
				ZMRP .0000
				SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL
 ○ □ ◇ △

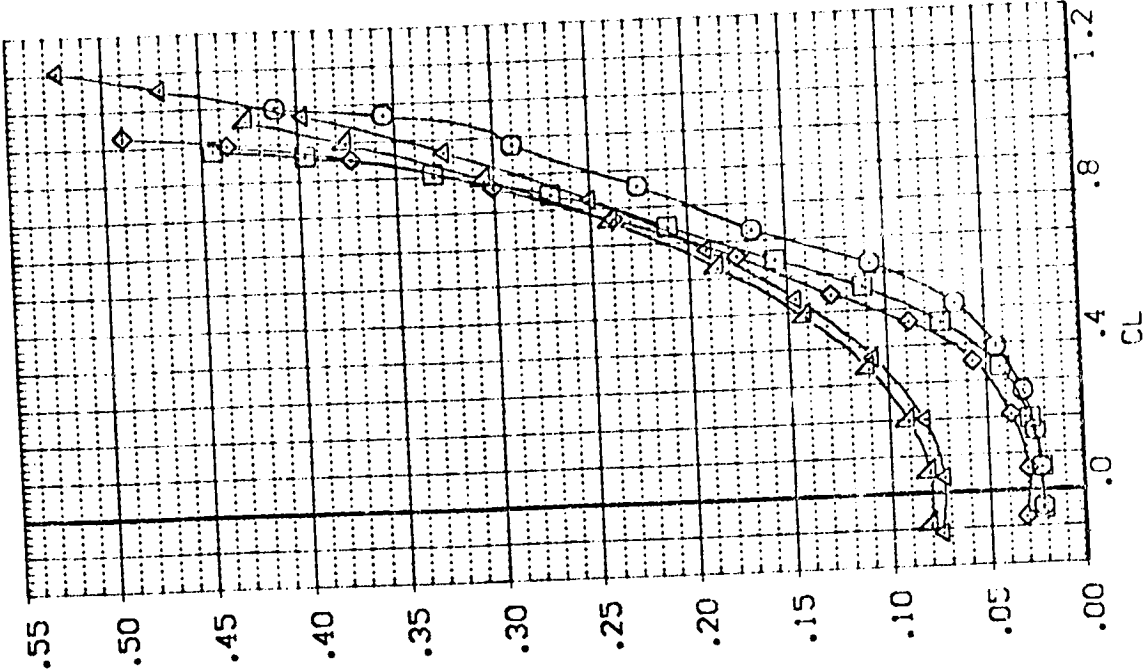
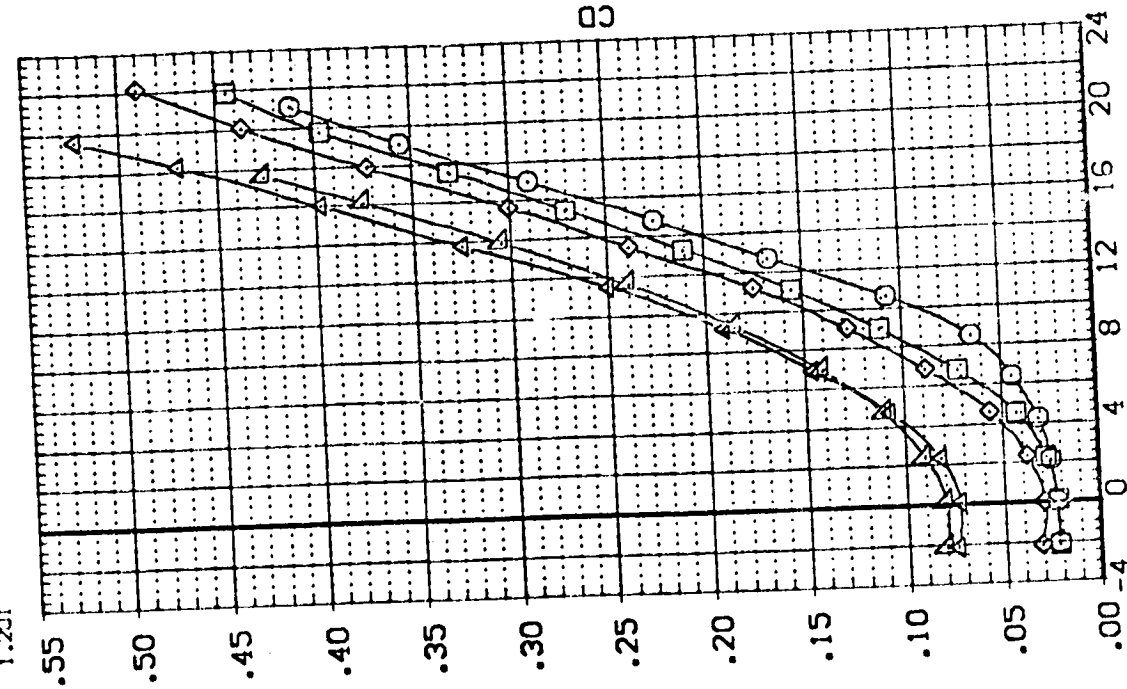
MACH .349
 .800
 .899
 .980
 1.201

BETA
 LAMDAF
 BOFLAP

PARAMETRIC VALUES
 .000 VINGNO 3.000
 78.000 ELEVTR .000
 .000 R-CLFLR .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 75.5100
 BREF 20.9086
 XMRD 16.8533
 YMRD .0000
 ZMRD .0000
 SCALE .0188

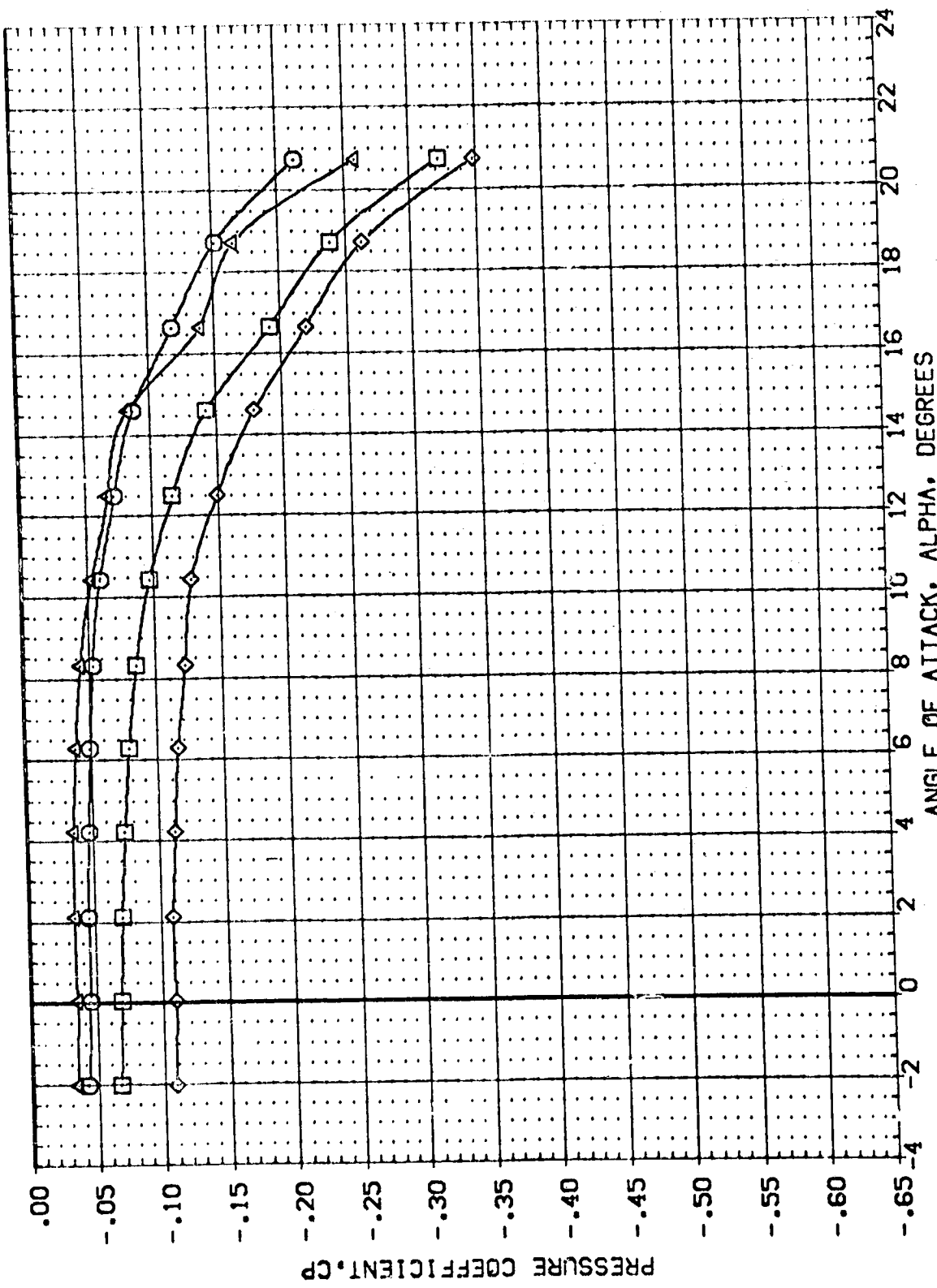
SCALE
 .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	.349	BETA .000	SREF 175.7376
□	CPB2	1.000	LAMDAF 53.200	LREF 29.5100
◇	CPC1	.000	EOLFLAP .000	XRREF 19.7156
△	CPC2	.000		YMRP .0000
				ZMRP .0000
				SCALE .0188

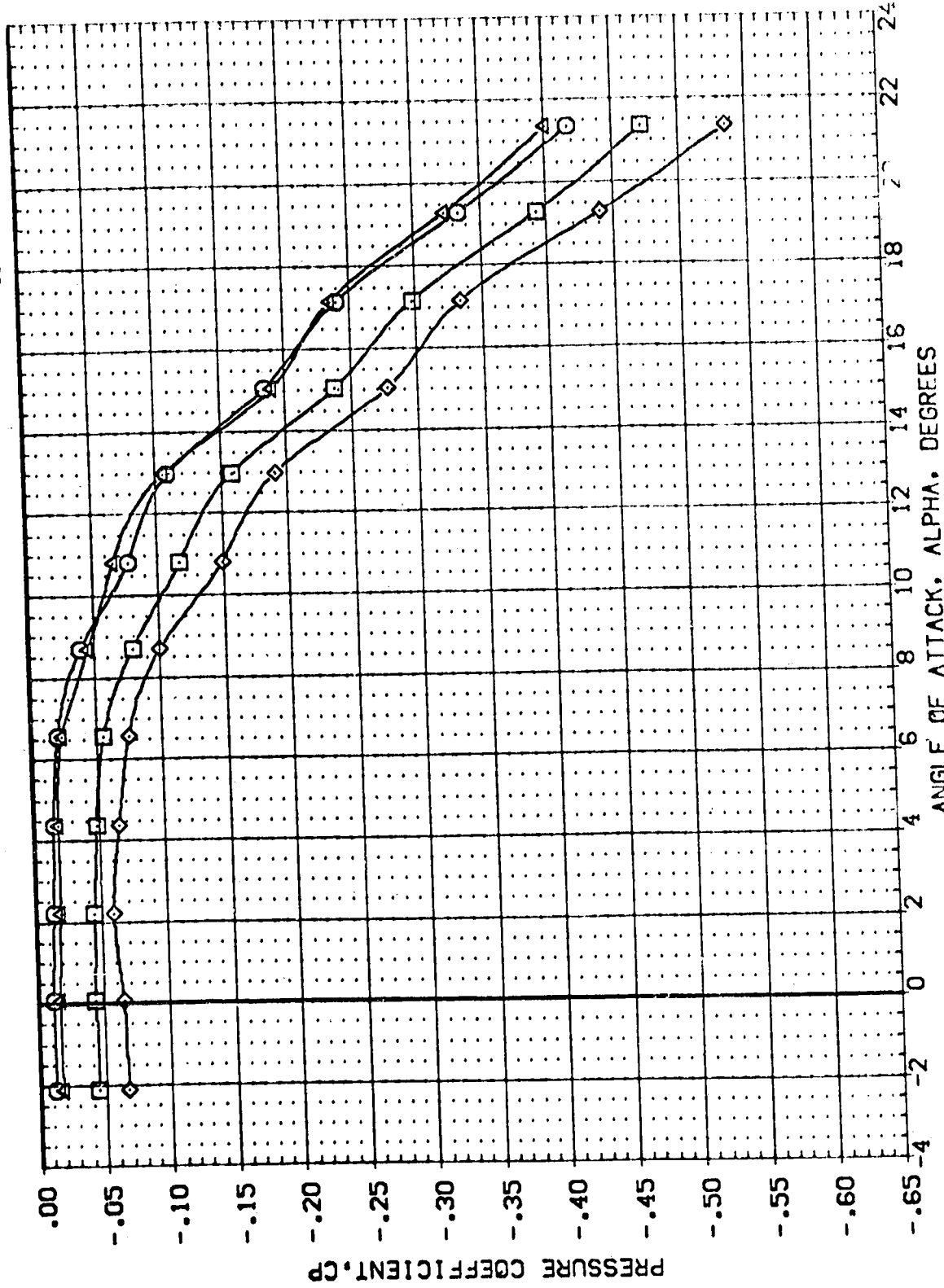


BASE PRESSURES FOR L0-100 WING (BW1 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL		DATA		PARAMETRIC VALUES		REFERENCE INFORMATION	
○	CPB1	MACH	.800	BETA	.000	SREF	175.7376
□	CPB2	VINGND	1.000	LANDAF	53.200	LREF	25.5100
△	CPC1	ELEVTR	.000	BOFLAP	.000	XPRP	19.7156
◇	CPC2	RUOFLR	.000			YPRP	16.8633
						ZPRP	.0000
						SCALE	.0188



BASE PRESSURES FOR LO-100 WING (B W1 V FB)

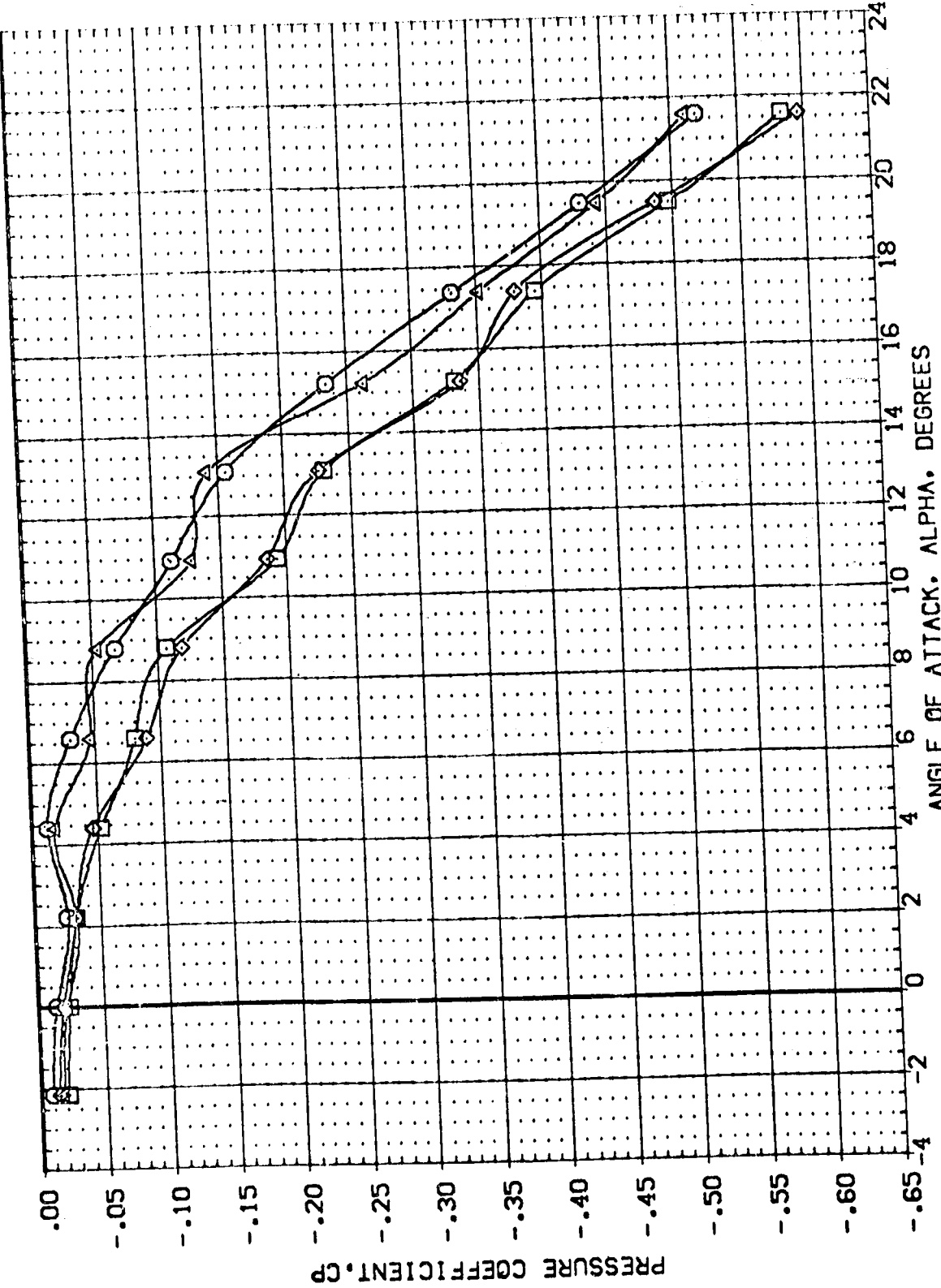
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (B-WIVFB) (RP5P01)

REFERENCE INFORMATION
 SREF 175.7376
 LREF 25.5100
 BREF 19.7156
 XPRP 16.8633
 YPRP .0000
 ZPRP .0000
 SCALE .0158

PARAMETRIC VALUES
 MACH .900 BETA .000
 WINGND 1.000 LAMDAF 53.200
 ELEVTR .000 BOFLAP .000
 RUOFLR .000

DATA
 CPB1
 CPB2
 CPC1
 CPC2

SYMBOL
 ○
 □
 ◇
 △

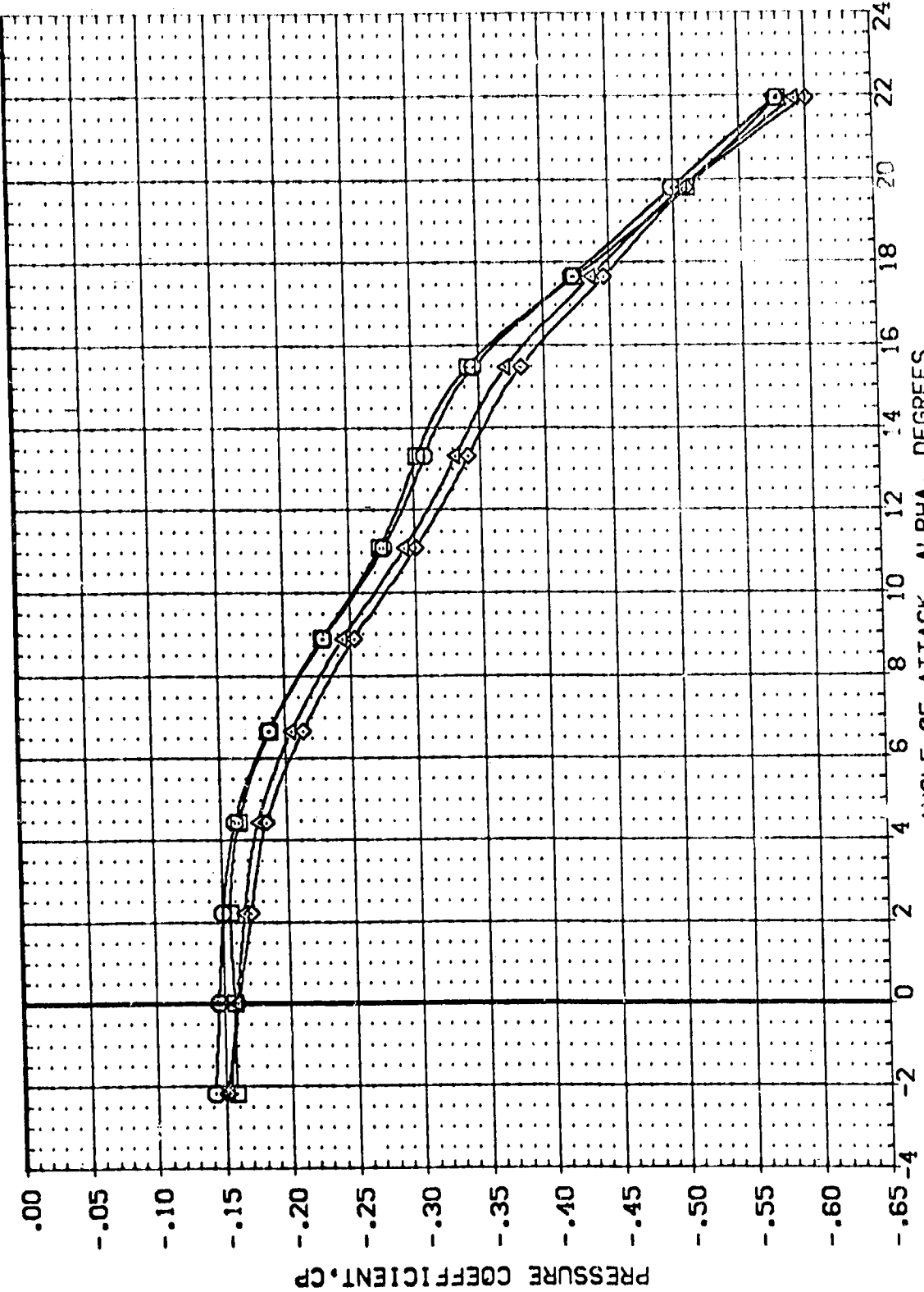


BASE PRESSURES FOR LO-100 WING (B-WI V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

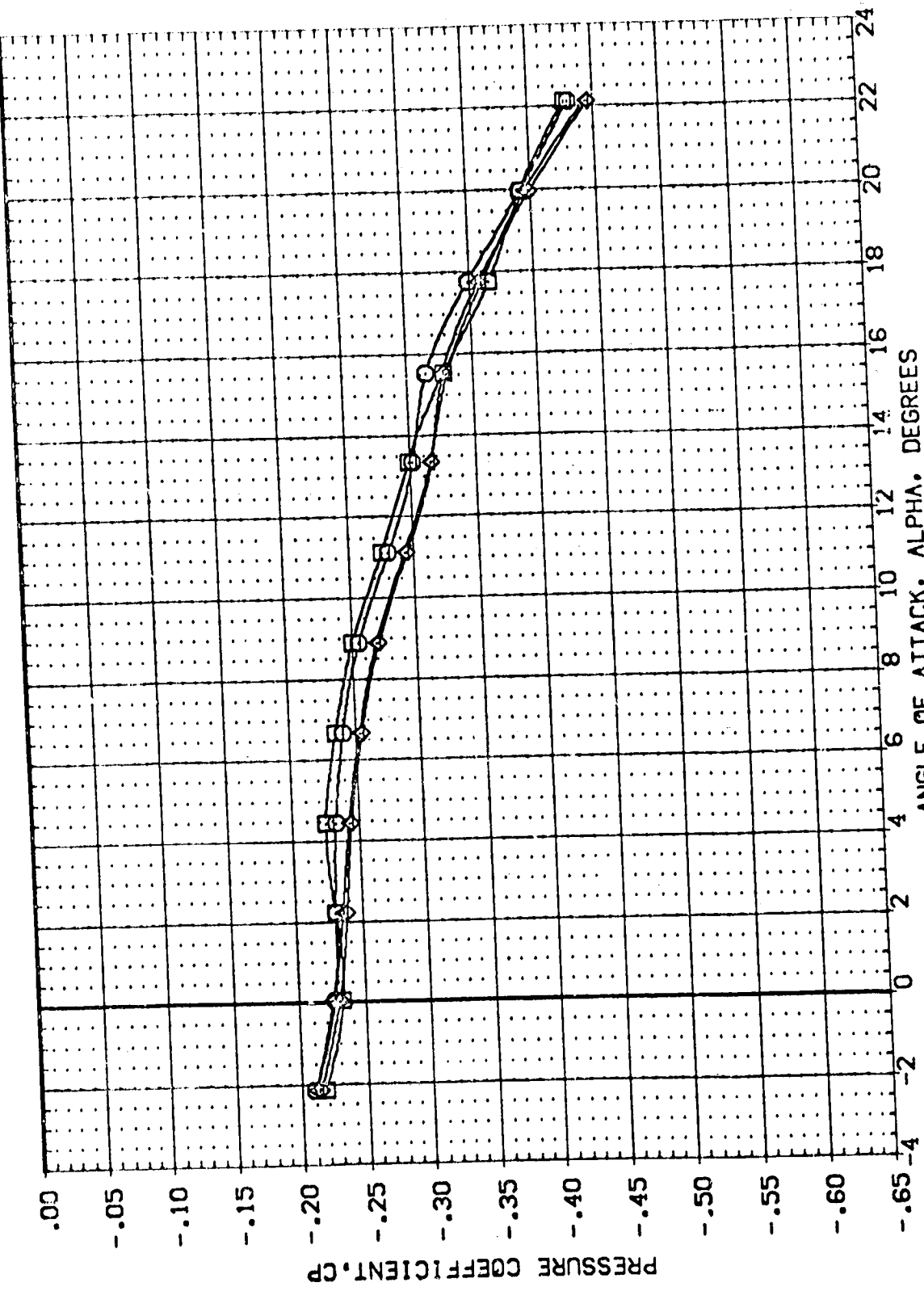
SYMBOL		DATA		PARAMETRIC VALUES		REFERENCE INFORMATION	
○	CPB1	MACH	.980	BETA	.000	SREF	175.7376
□	CPB2	WINGND	1.000	LAMDAF	53.20C	LREF	25.5100
◇	CPC1	ELEVTR	.000	BOFLAP	.000	BREF	19.7156
△	CPC2	RJOFLR	.000			XPRP	16.8633
						YMRP	.0000
						ZMRP	.0000
						SCALE	.0188
							SO.IN.
							INCHES
							INCHES
							INCHES
							INCHES
							SCALE



BASE PRESSURES FOR L0-100 WING (B W 1 V F B)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	1.200	BETA	175.7376
□	CPB2	1.000	LANDAF	29.5100
◇	CPC1	.000	FOFLAP	19.7156
△	CPC2	.000		15.8633
				.0000
				.0000
				.0188
				SCALE



BASE PRESSURES FOR L0-100 WING (B W 1 V F B)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL
 ○
 □
 △

DATA
 CPB1
 CPB2
 CPC1
 CPC2

MACH
 WING
 ELEVTR
 R/DCLR

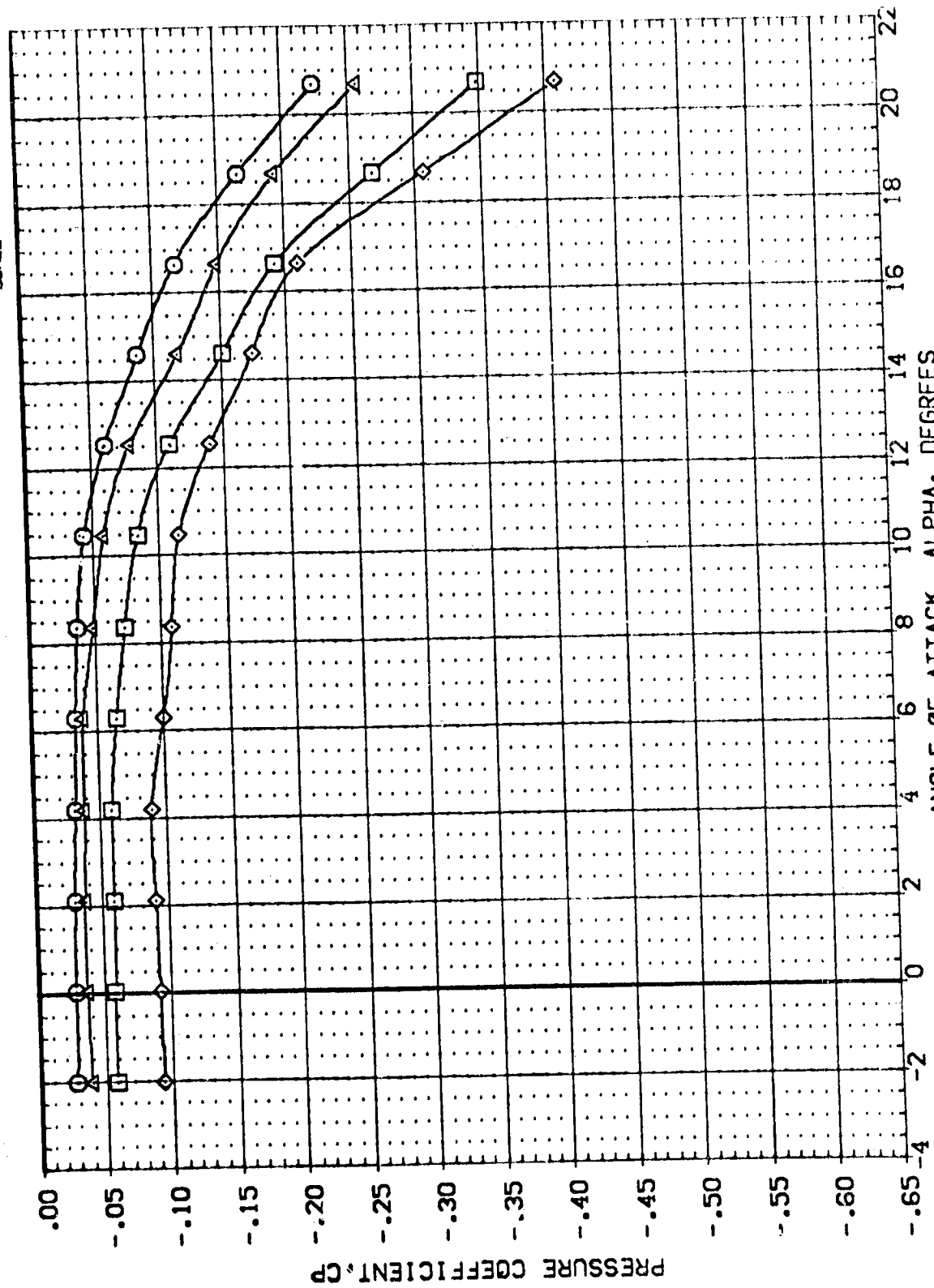
PARAMETRIC VALUES
 BETA
 LAMDAF
 BOFLAP

.350
 2.000
 .000
 .000

REFERENCE INFORMATION
 SREF
 LREF
 BREF
 XPRP
 YPRP
 ZPRP
 SCALE

171.4720
 25.5100
 20.3597
 16.8633
 .0000
 .0000
 .0188

50. IN
 INCHES
 INCHES
 INCHES
 INCHES
 SCALE



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL
 ○
 □
 ◇
 △

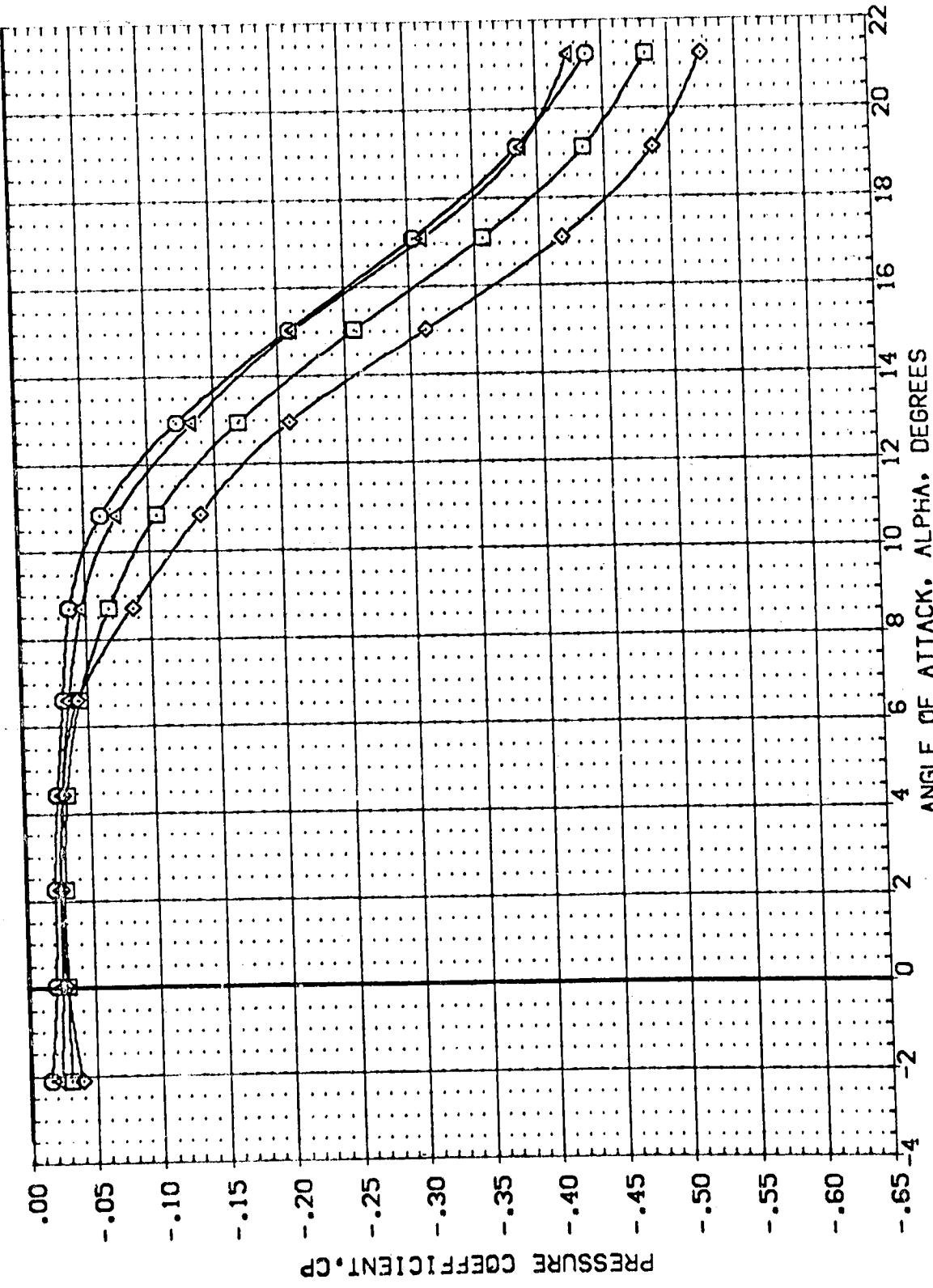
DATA
 CPB1
 CPB2
 CPC1
 CPC2

MACH
 WINGV
 ELEVTR
 RUJFLR

PARAMETRIC VALUES
 .800 BETA
 2.000 LAMDAF
 .000 BOFLAP
 .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3557
 XMRP 15.8833
 YMRP .0000
 ZMRP .0000
 SCALE .0188

SO. IN.
 INCHES
 INCHES
 INCHES
 INCHES
 INCHES
 SCALE



BASE PRESSURES FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

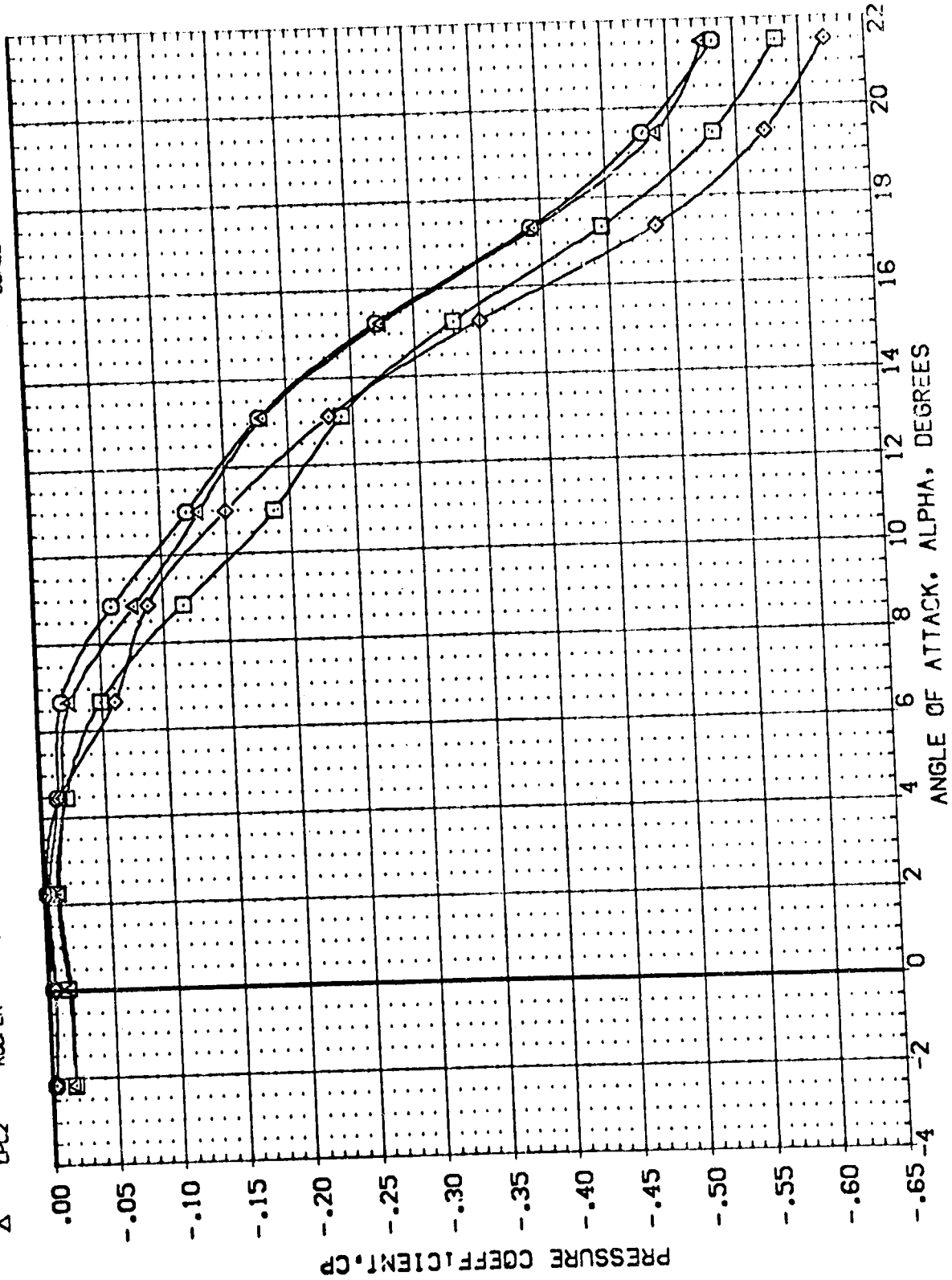
SYMBOL DATA
 ○ CPB1
 □ CPB2
 ◇ CPC1
 △ CPC2

MACH
 WING
 ELEVTR
 RUOFLR

PARAMETRIC VALUES
 .899 BETA
 2.000 LAMDAF
 .000 BOFLAP
 .000

.000
 46.800
 .000

REFERENCE INFORMATION
 SREF 171.4720 SQ. IN.
 LREF 23.5100 INCHES
 BRFP 20.3597 INCHES
 YMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL
 ○
 □
 ◇
 △

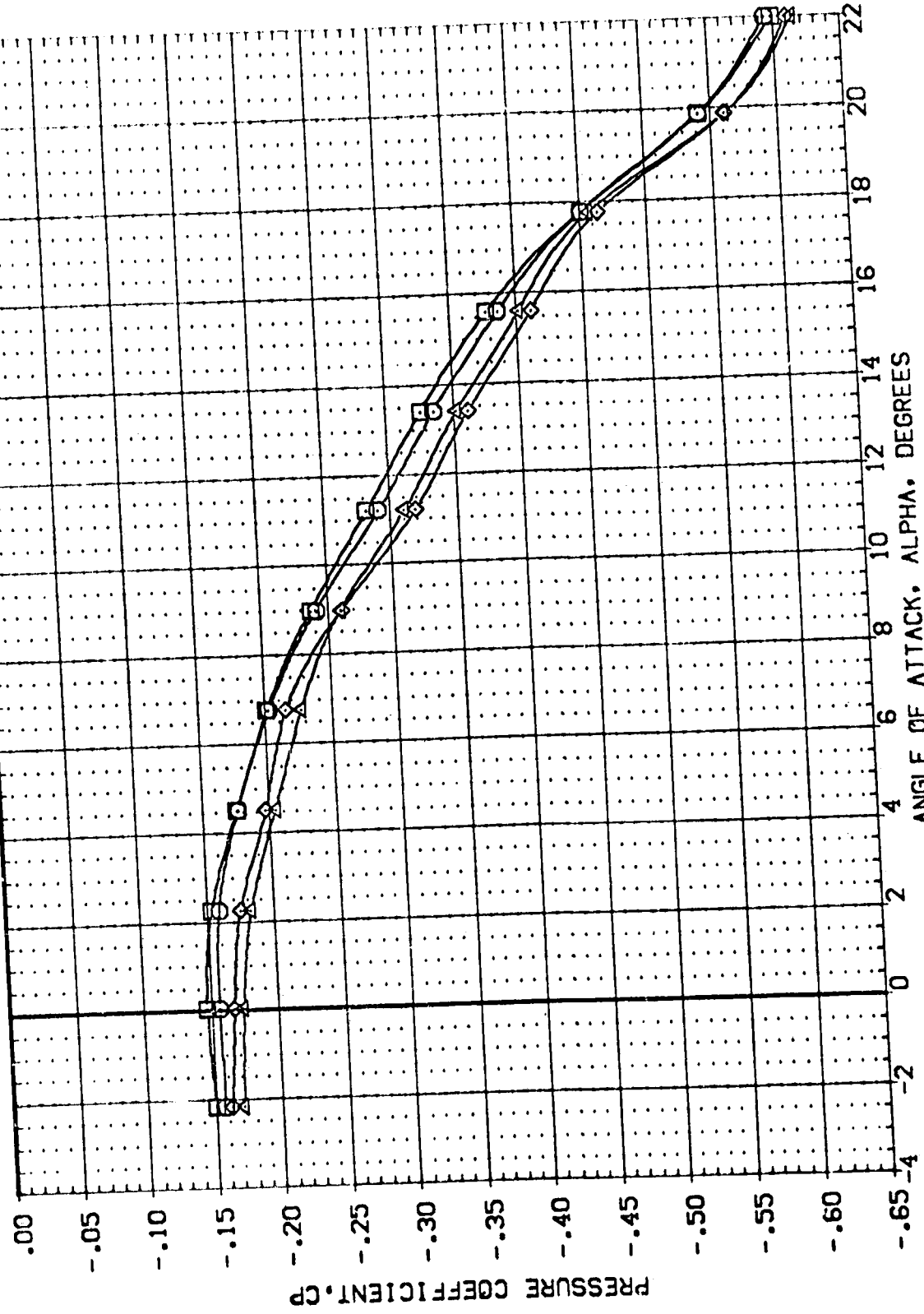
DATA
 CPB1
 CPB2
 CPC1
 CPC2

MACH
 VINGND
 ELEVTR
 RUDEFLR

PARAMETRIC VALUES
 .980 BETA
 2.000 LAMDAF
 .000 BOFLAP
 .000

.000
 46.800
 .000

REFERENCE INFORMATION
 SREF 171.4720 SG.IN.
 LREF 25.5100 INCHES
 BREF 20.3557 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188 SCALE

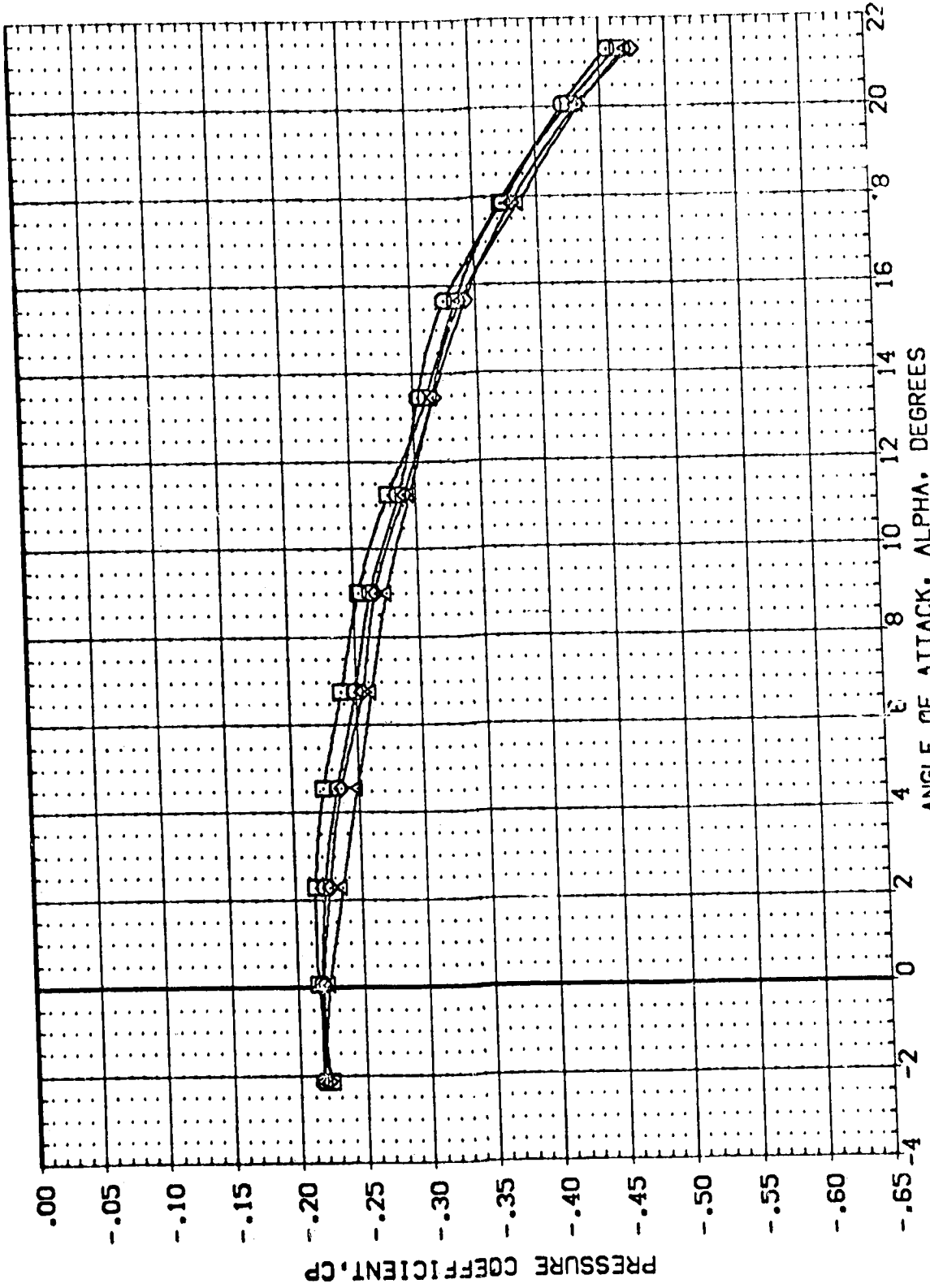


BASE PRESSURES FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 CRBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBL	DATA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	MACH	SREF
□	CPB2	BETA	LREF
◇	CPC1	LAMDAF	BREF
△	CPC2	BOFLAP	XMRP
		BOFLR	YMRP
			ZMRP
			SCALE
			SO. IN.
			INCHES
			INCHES
			INCHES
			INCHES
			SCALE



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL
 ○
 □
 ◇
 △

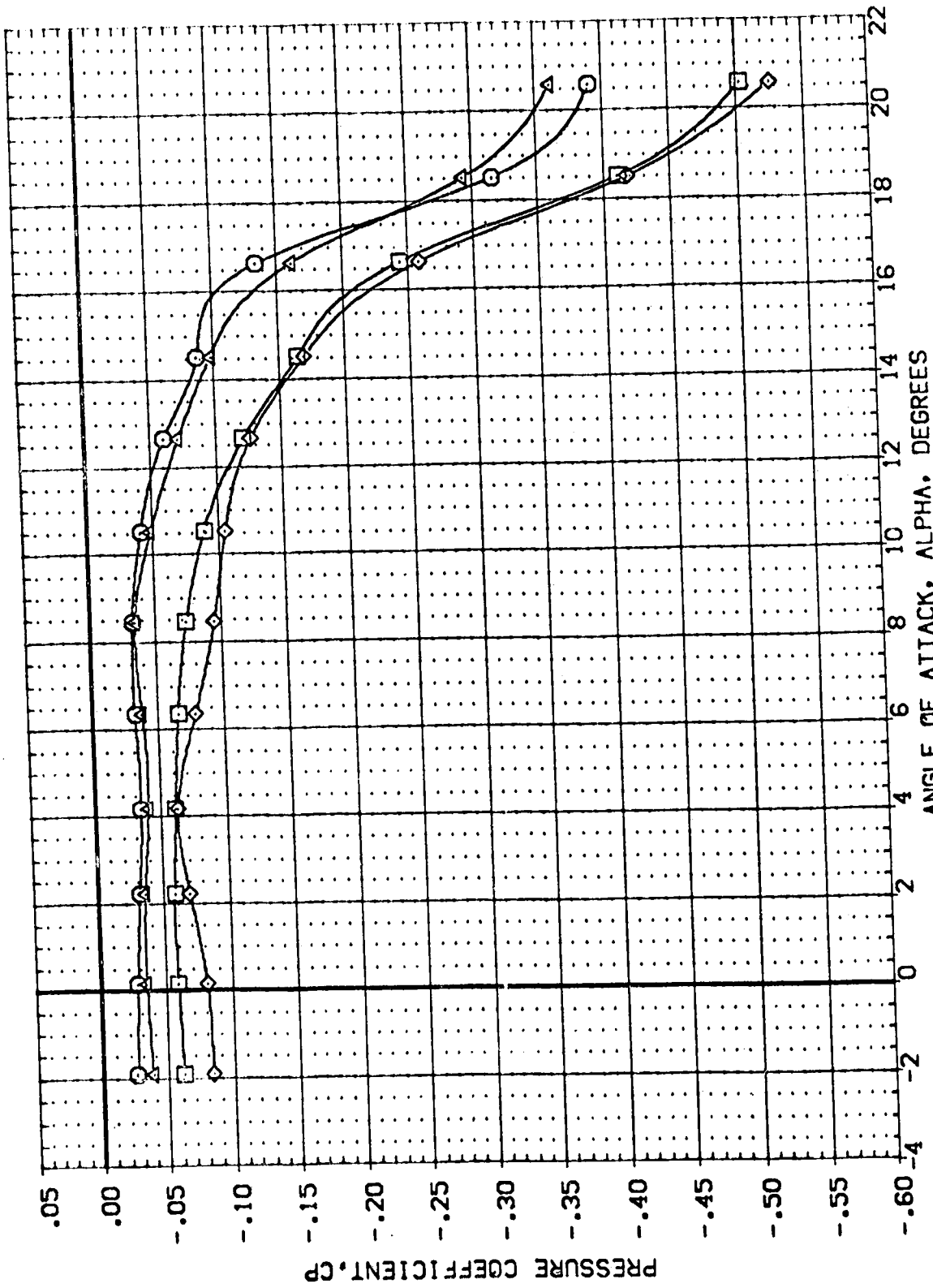
DATA
 CPB1
 CPB2
 CPC1
 CPC2

MACH
 WING
 ELEVTR
 RUFLR

PARAMETRIC VALUES
 .349 BETA
 3.000 LAMDAF
 .000 BCLAP
 .000

.000
 35.000
 .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 23.5100
 BREF 20.5058
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188

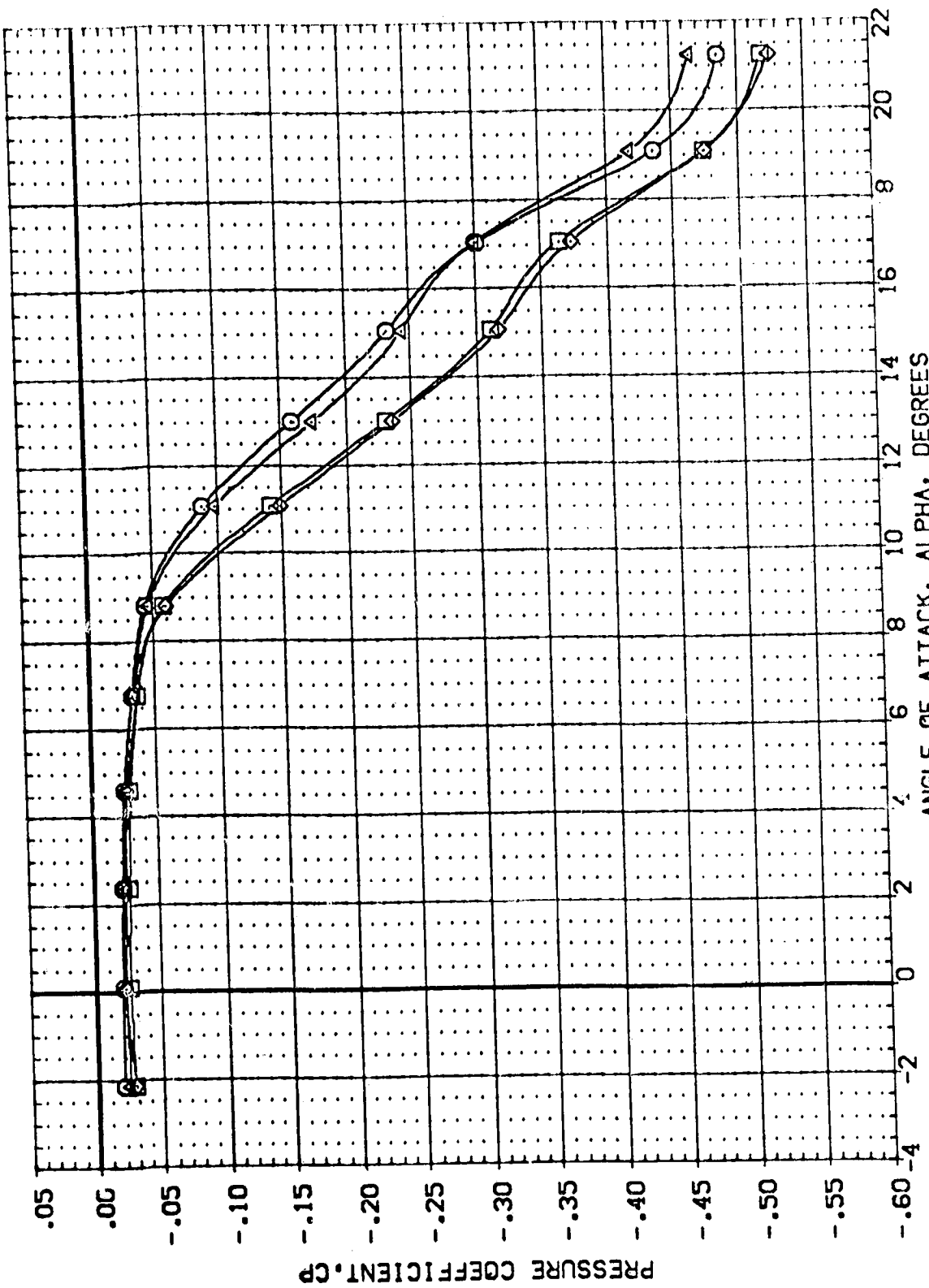


BASE PRESSURES FOR MSC C49 WING (B W3 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL	DATA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	MACH .798	SREF 173.1312
□	CPB2	BETA .000	LREF 25.5100
◇	CPC1	LAVDAF 35.000	BREF 20.9096
△	CPC2	BOFLAP .300	XPRP 16.8633
			YPRP .0000
			ZPRP .0000
			SCALE .0188



BASE PRESSURES FOR MSC 049 WING (B W3 V FB)

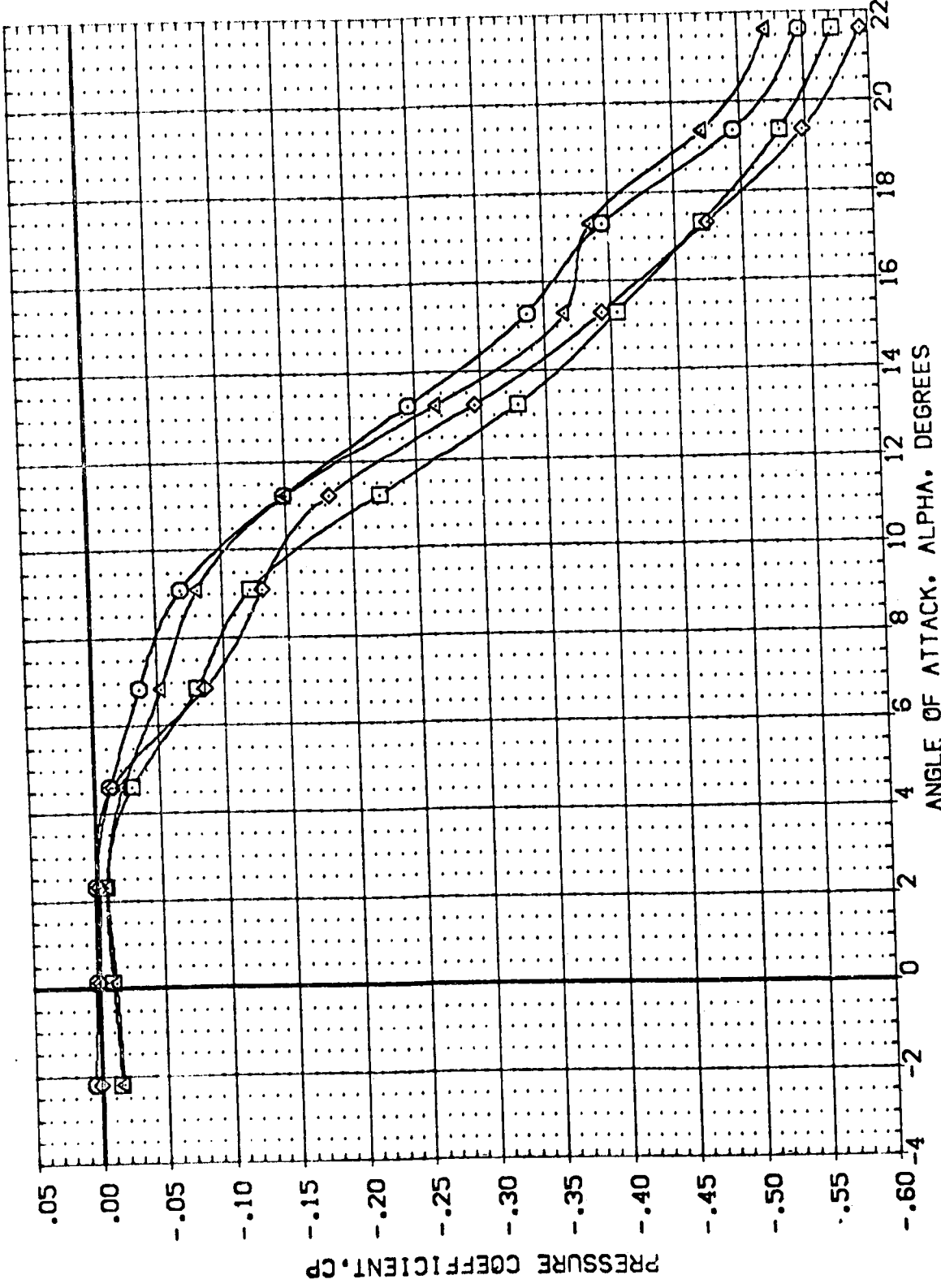
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL DATA
 ○ CPB1
 □ CPB2
 ◇ CPC1
 △ CPC2

PARAMETRIC VALUES
 MACH .859
 WINGNO 3.000
 ELEVTR .000
 RJDFLR .000

BETA .000
 LAYDAF 35.000
 BOFLAP .000

REFERENCE INFORMATION
 SREF 173.1312 SQ. IN.
 LREF 25.5100 INCHES
 BREF 20.8096 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188



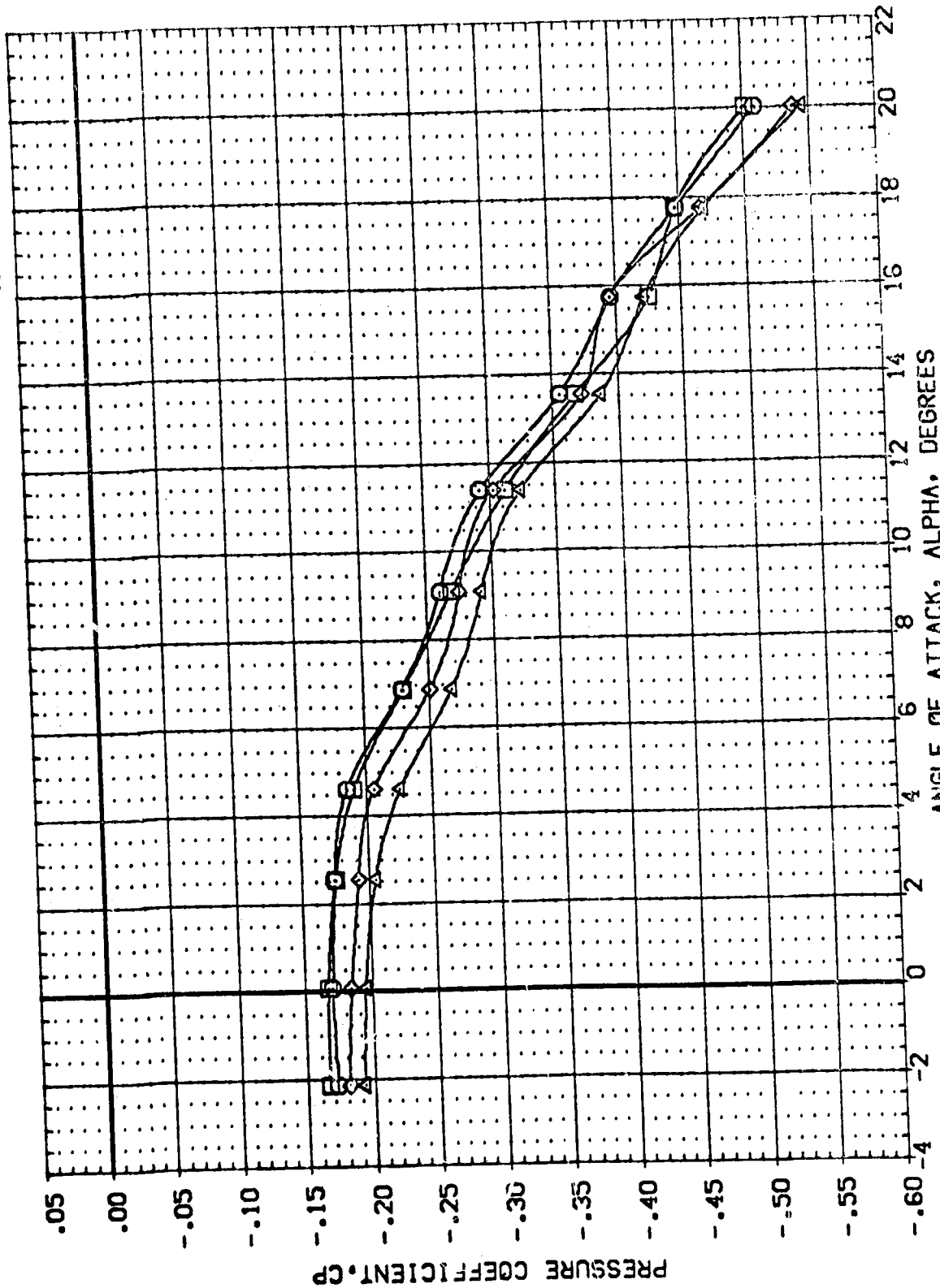
BASE PRESSURES FOR MSC 049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	BETA	.000
○	CPB1	WING	BETA	35.000	.000
□	CPB2	ELEVTR	LANDAF		
◇	CPC1	RUDFLR	BDFLAP		
△	CPC2				

REFERENCE INFORMATION

SREF	173.1312	SG. IN.
LREF	25.5100	INCHES
BREF	20.9026	INCHES
XMRP	16.8633	INCHES
YMRP	.0000	INCHES
ZMRP	.0000	INCHES
SCALE	.0188	SCALE



BASE PRESSURES FOR MSC 049 WING (B W3 V FB)

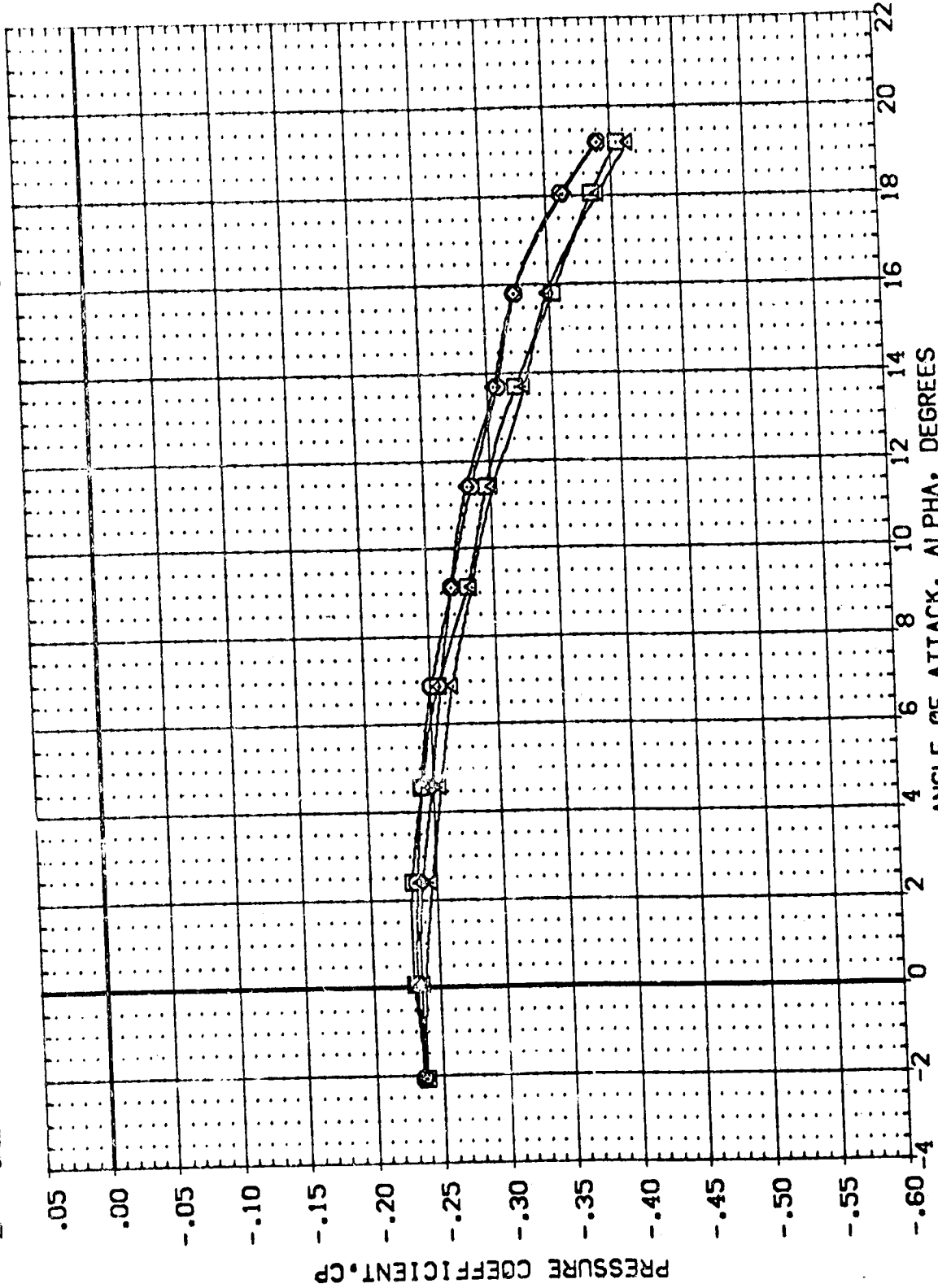
LARC 8-FT IPT S44 LO-100 ORBITER(SHIPS) (BW3VFB) (R2P16)

SYMBOL DATA
 ○ CPB1
 □ CPB2
 △ CPC1
 ◇ CPC2

MACH
 WINGX0
 ELLIPT
 RUDDER

PARAMETRIC VALUES
 1.200 BETA .000
 3.000 LAMDAF .36.000
 .000 BOFLAP .000
 .000

REFERENCE INFORMATION
 SREF 172.1312 SG.IN.
 LREF 25.5150 INCHES
 BREF 20.9056 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0183



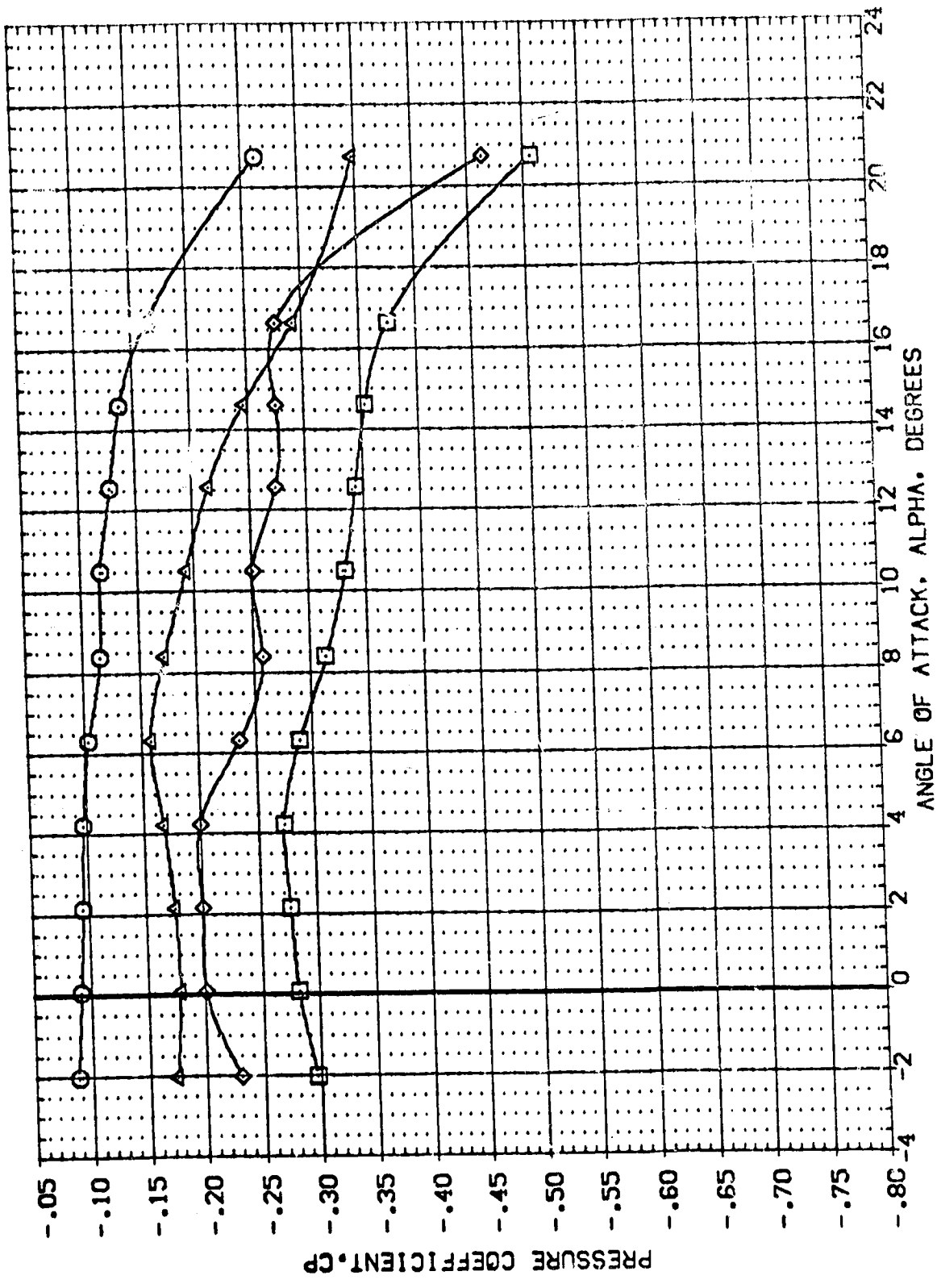
BASE PRESSURES FOR MSC 049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5P14)

SYMBOL DATA MACH PARAMETRIC VALUES REFERENCE INFORMATION

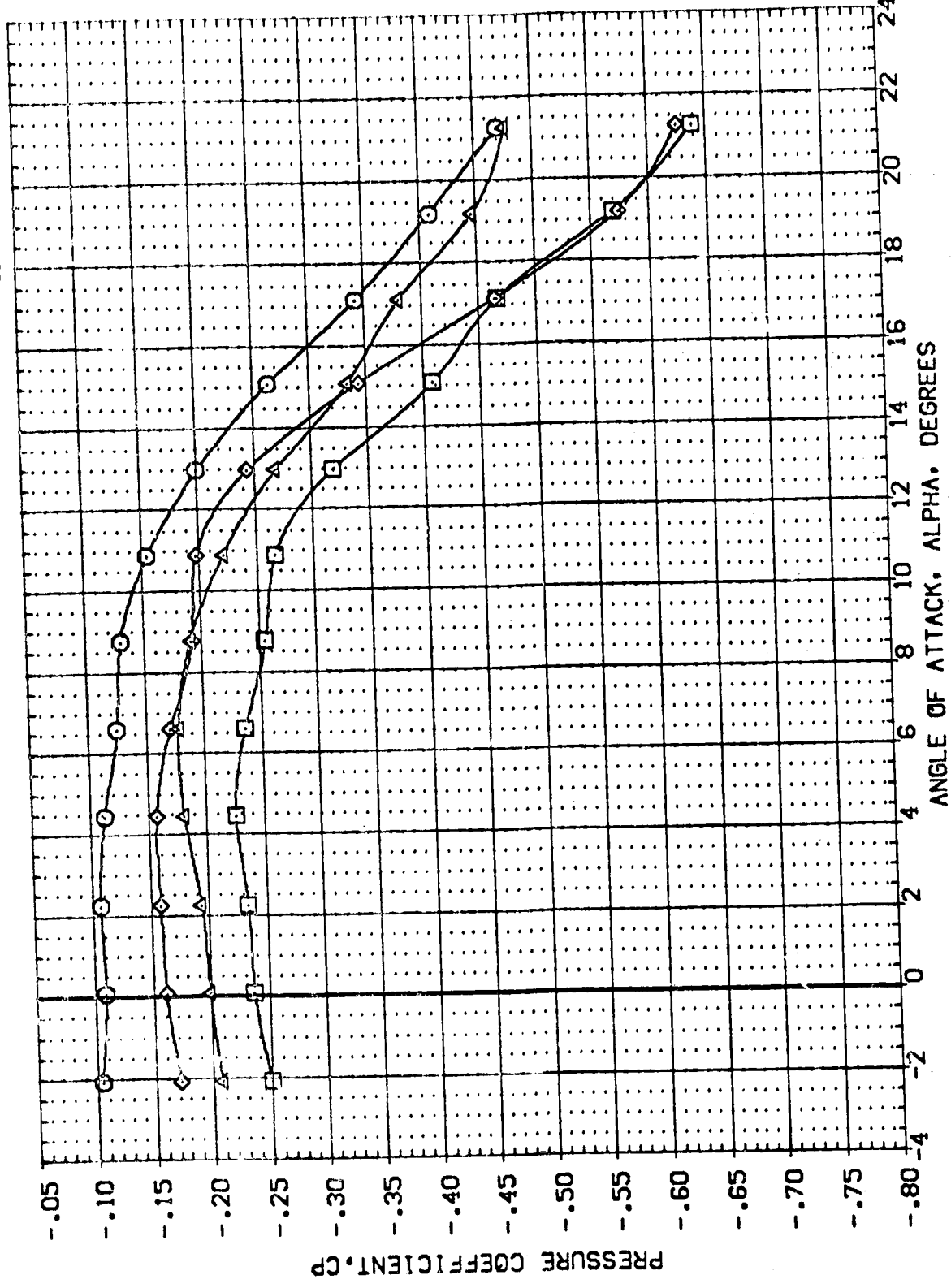
CPB1	.349	BETA	.000	SREF	171.4720	SO.IN.
CPB2	2.000	LAMDAF	46.800	LREF	25.5100	INCHES
CPC1	.000	EOFLAP	.000	BREF	20.3597	INCHES
CPC2	10.000			XMRP	16.8633	INCHES
				YMRP	.0000	INCHES
				ZMRP	.0000	INCHES
				SCALE	.0188	SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RPS114)

SYMBOL	DATA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CP81	MACH .759	SREF 171.4720
□	CP82	BETA 2.000	LREF 25.5100
◇	CP81	LANDAF 46.800	XREF 20.3597
△	CP82	BOFLAP .000	YMRP 19.8633
	CP82	ELEVIR 10.000	ZMRP .0000
		RUDFLR 10.000	ZLAP .0189
			SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)



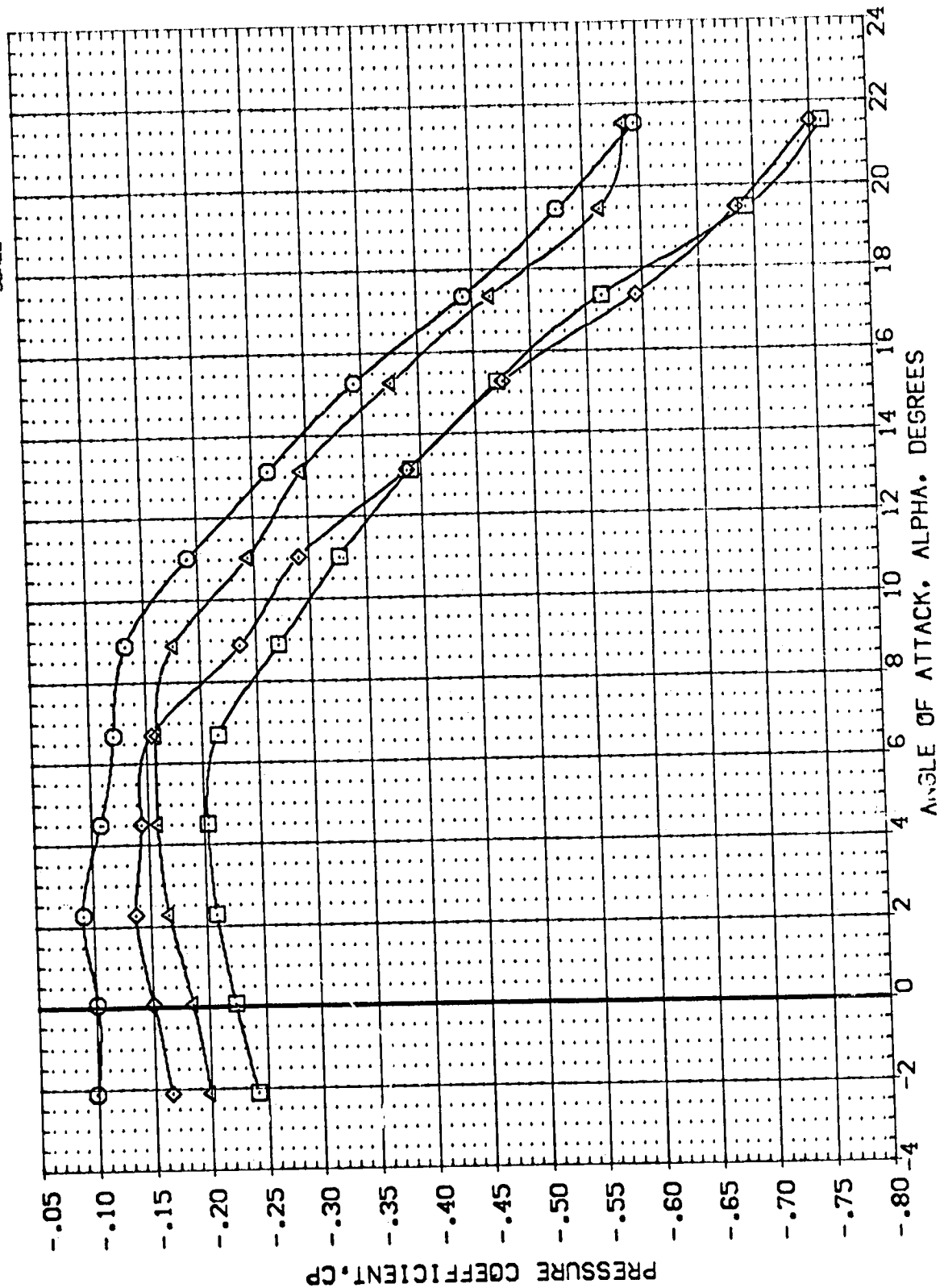
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5P14)

SYMBOL DATA

○	CPB1	MACH	.859	BETA	.000
□	CPB2	WINGNG	2.000	LAVDAF	46.800
◇	CPC1	ELEVTR	.000	BOFLAP	.000
△	CPC2	RUOFLR	10.000		

REFERENCE INFORMATION

SREF	171.4720	SO. IN.
LREF	25.5100	INCHES
BREF	20.3597	INCHES
XMRP	16.8633	INCHES
YMRP	.0000	INCHES
ZMRP	.0000	INCHES
SCALE	.0188	SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

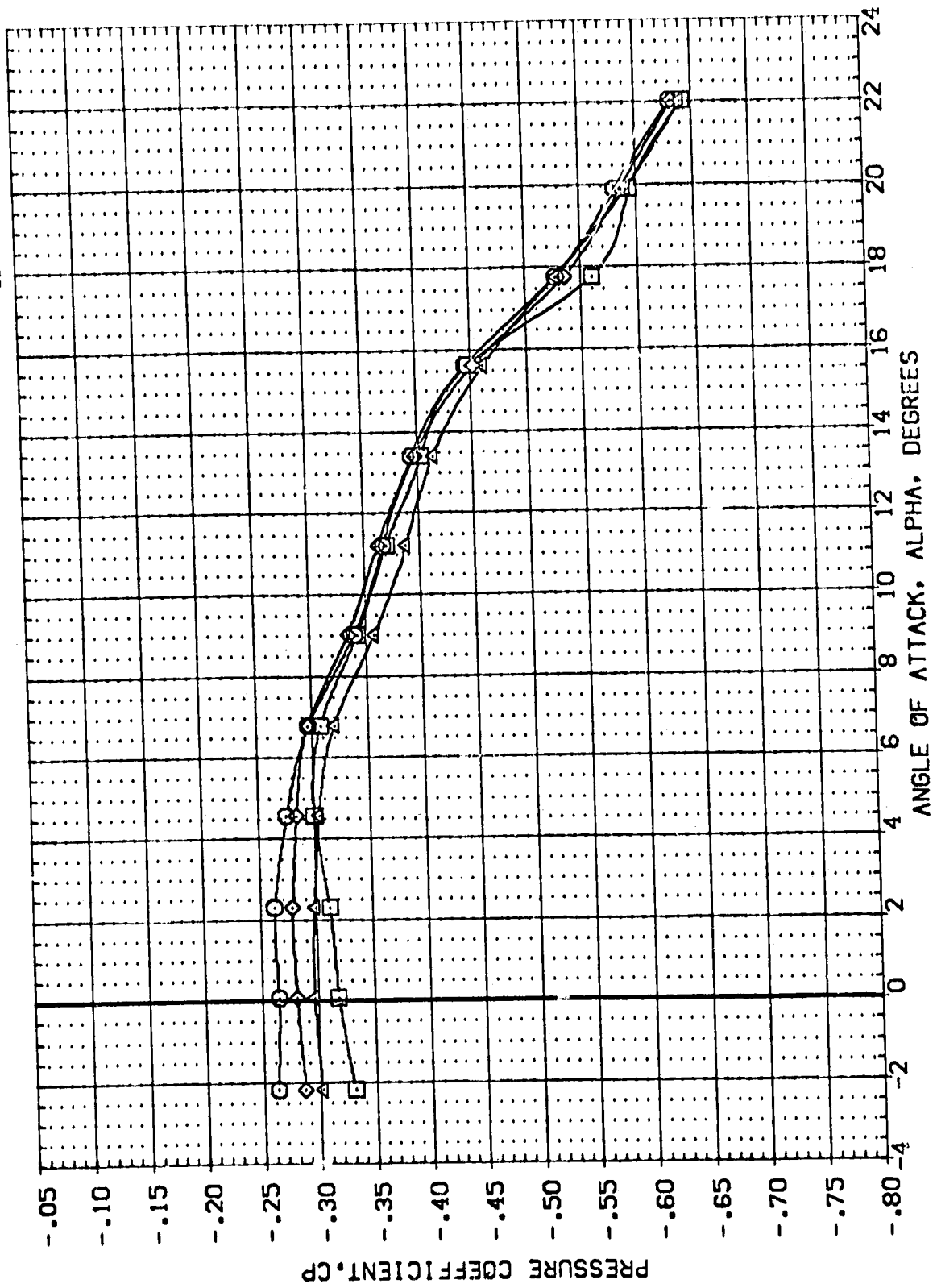
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RPSP14)

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 XMRP 20.3597
 YMRP 16.8633
 ZMRP .0000
 SCALE .0188

PARAMETRIC VALUES
 MACH .979
 BETA .000
 LAMDAF 46.800
 BOFLAP .000

DATA
 CPB1
 CPB2
 CPC1
 CPC2

SYMBOL
 ○
 □
 ◇
 △



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)



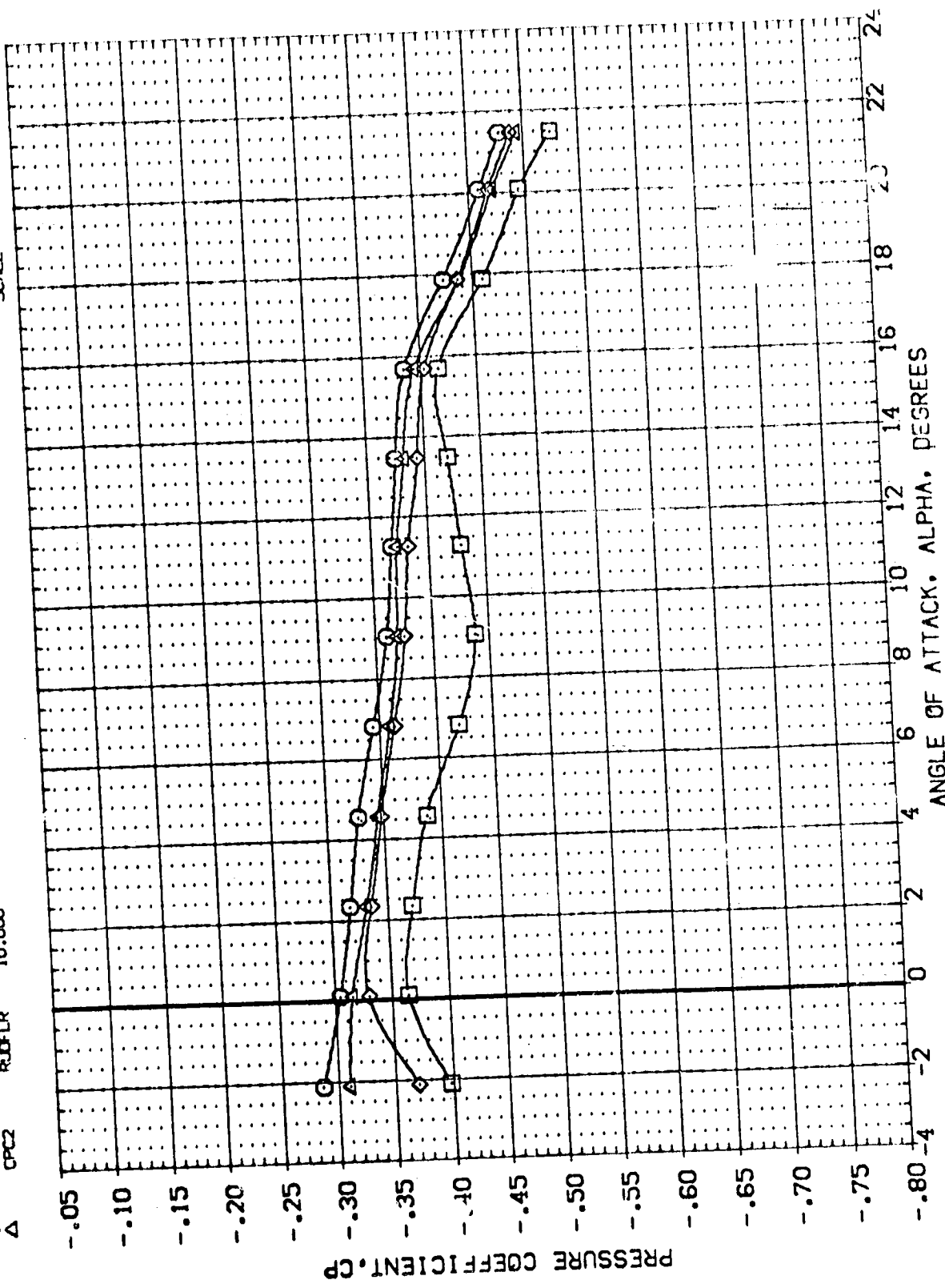
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5P14)

REFERENCE INFORMATION
 SQ. IN. 171.4720
 INCHES 25.5100
 INCHES 20.3557
 INCHES 16.8633
 INCHES .0000
 INCHES .0000
 SCALE .0188

PARAMETRIC VALUES
 MACH 1.200
 BETA .000
 LAMDAF 46.800
 BOFLAP .000
 RWJFLR 10.000

DATA
 CPB1
 CPB2
 CPC1
 CPC2

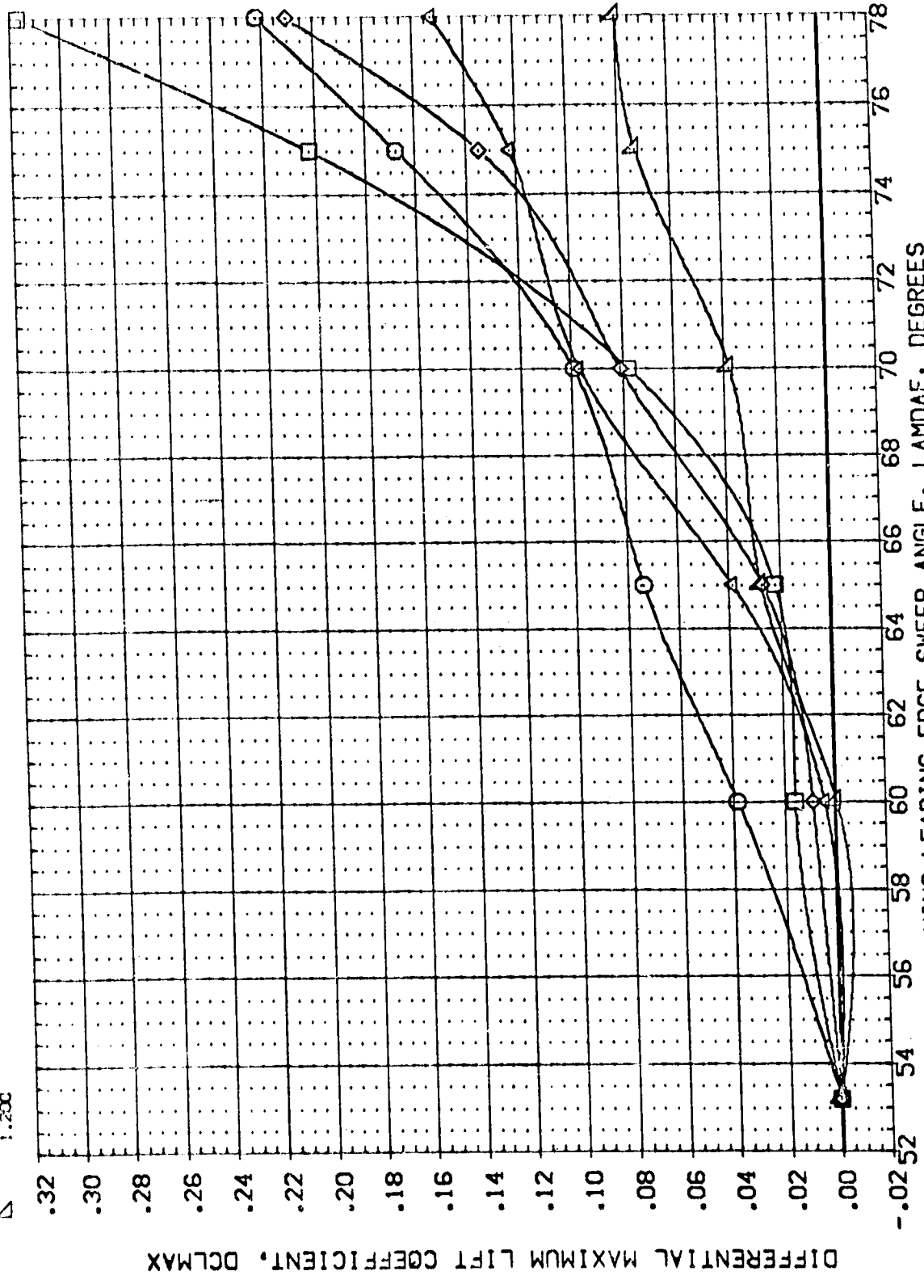
SYMBOL
 ○
 □
 ◇
 △



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BWIVFB) (FP5001)

SYMBOL		MACH		PARAMETRIC VALUES		DATA SOURCE		WING-VC		REFERENCE INFORMATION	
○	◇	.35C	BETA	.000	LAMDAF	53.200	WINGSND	1.000	SREF	175.7375	SO IN.
□	△	.800	ELEVTR	.000	BOFLAP	.000	1.000	1.000	LREF	25.5100	INCHES
◇	△	.900	RJDFLR	.000		FP5001	1.000	1.000	EXCF	19.7156	INCHES
△	△	.980				FP5003	1.000	1.000	XPRP	15.6633	INCHES
△	△	1.200				FP5005	1.000	1.000	ZPRP	.0000	INCHES
									SCALE	.0188	SCALE

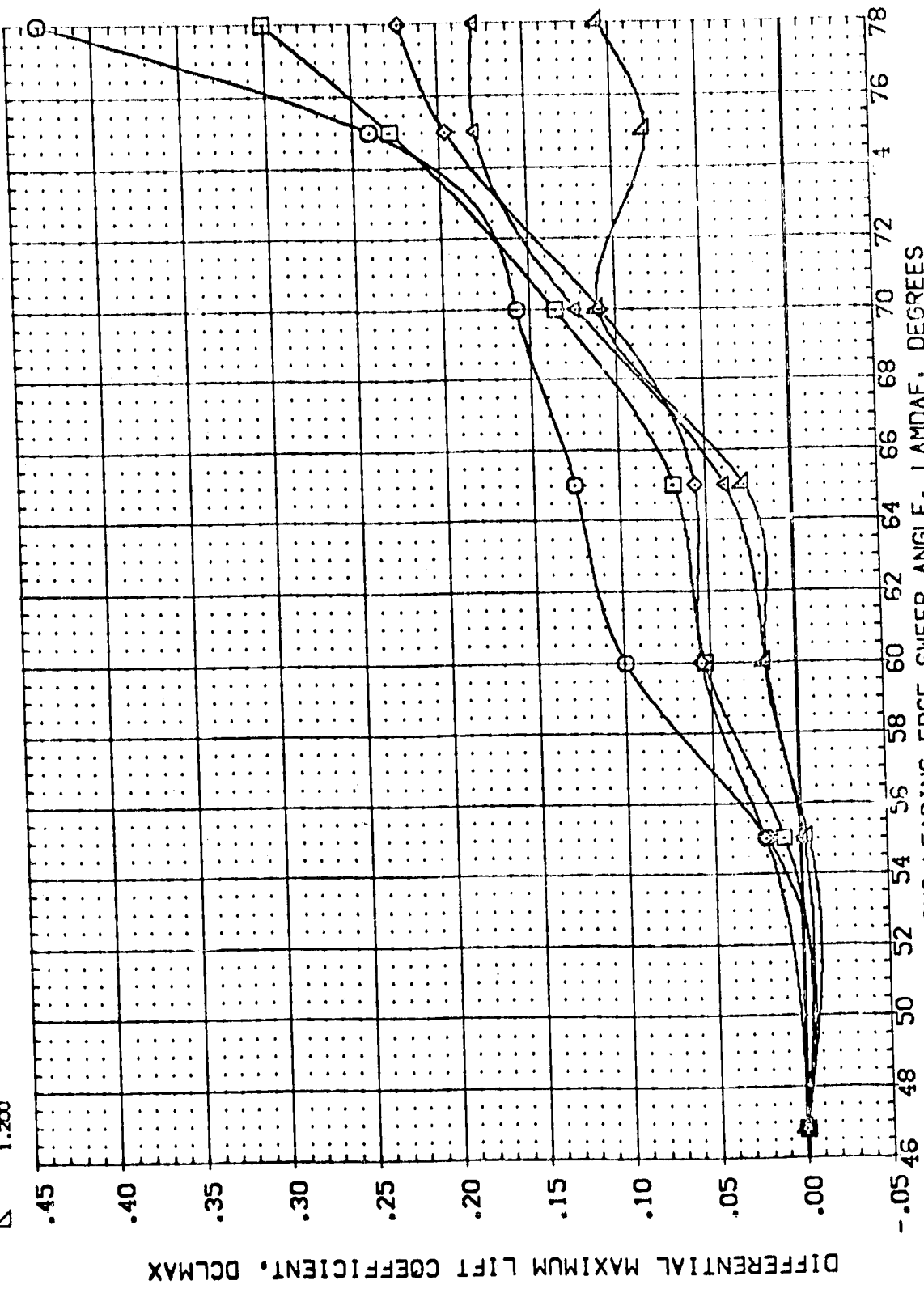


DELTA CLMAX FOR L0-100 WING (B W I V F B)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (FP5007)

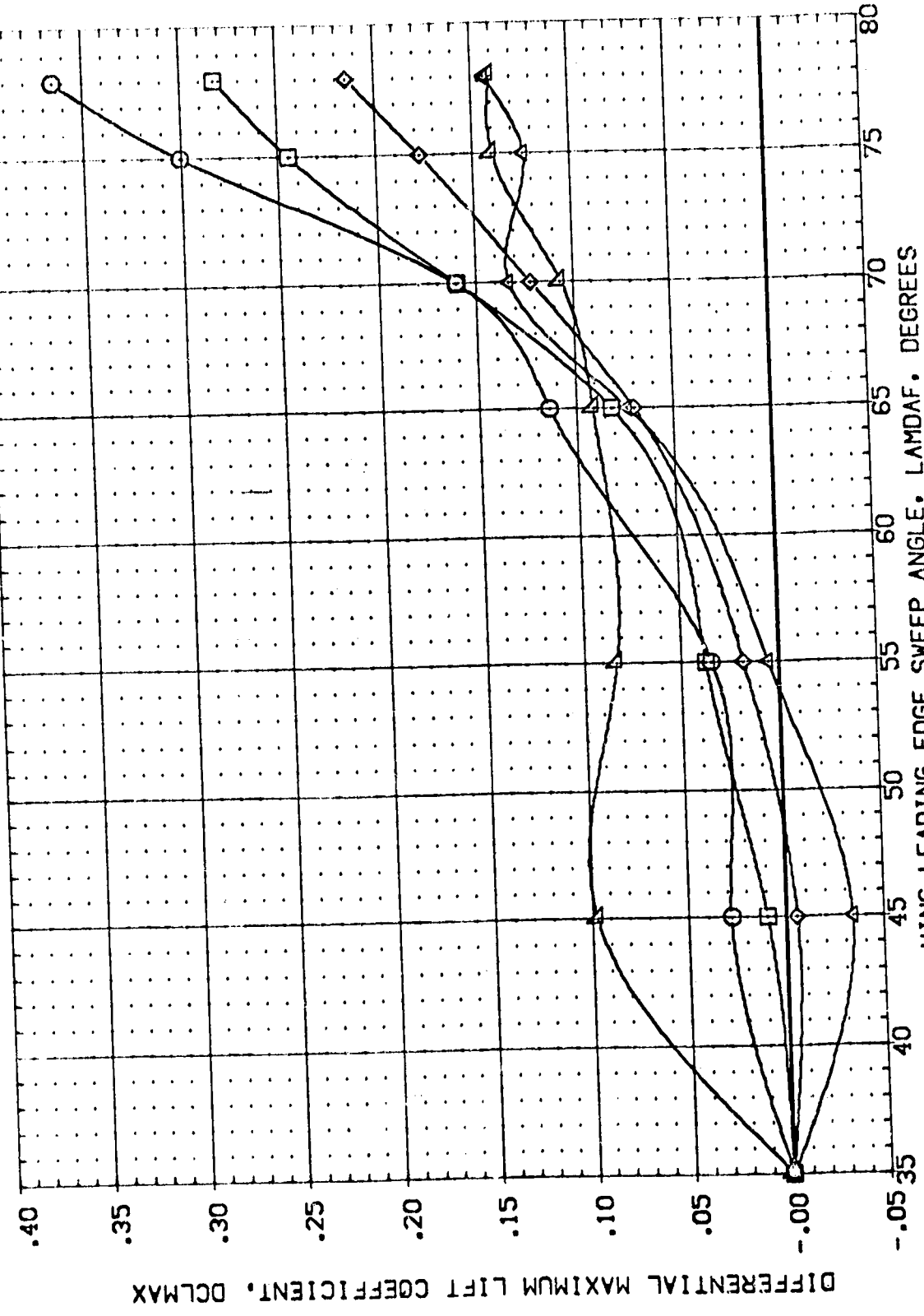
PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
MACH	.350	WINGNO	2.000	SREF	171.4720
BETA	.000	LAMDAF	.000	LREF	25.5100
ELEVTR	.000	BOFLAP	.000	BREF	20.3597
RJDFLR	.000	FP5007	2.000	XPRP	16.8633
		FP5009	2.000	YPRP	.0000
		FP5011	2.000	ZPRP	.0000
		FP5013	2.000	SCALE	.0188
	1.200				



DELTA CLMAX FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (FP5016)

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
MACH	BETA	35.000	FP5016	SREF	179.1312
.350	.000	.000	FP5018	LREF	25.5100
.800	.000	3.000	FP5019	BREF	20.5096
.950	.000	3.000	FP5021	XMRP	16.8833
.980	.000	3.000	FP5022	YMRP	.0000
1.200		3.000		ZMRP	.0000
				SCALE	.0188

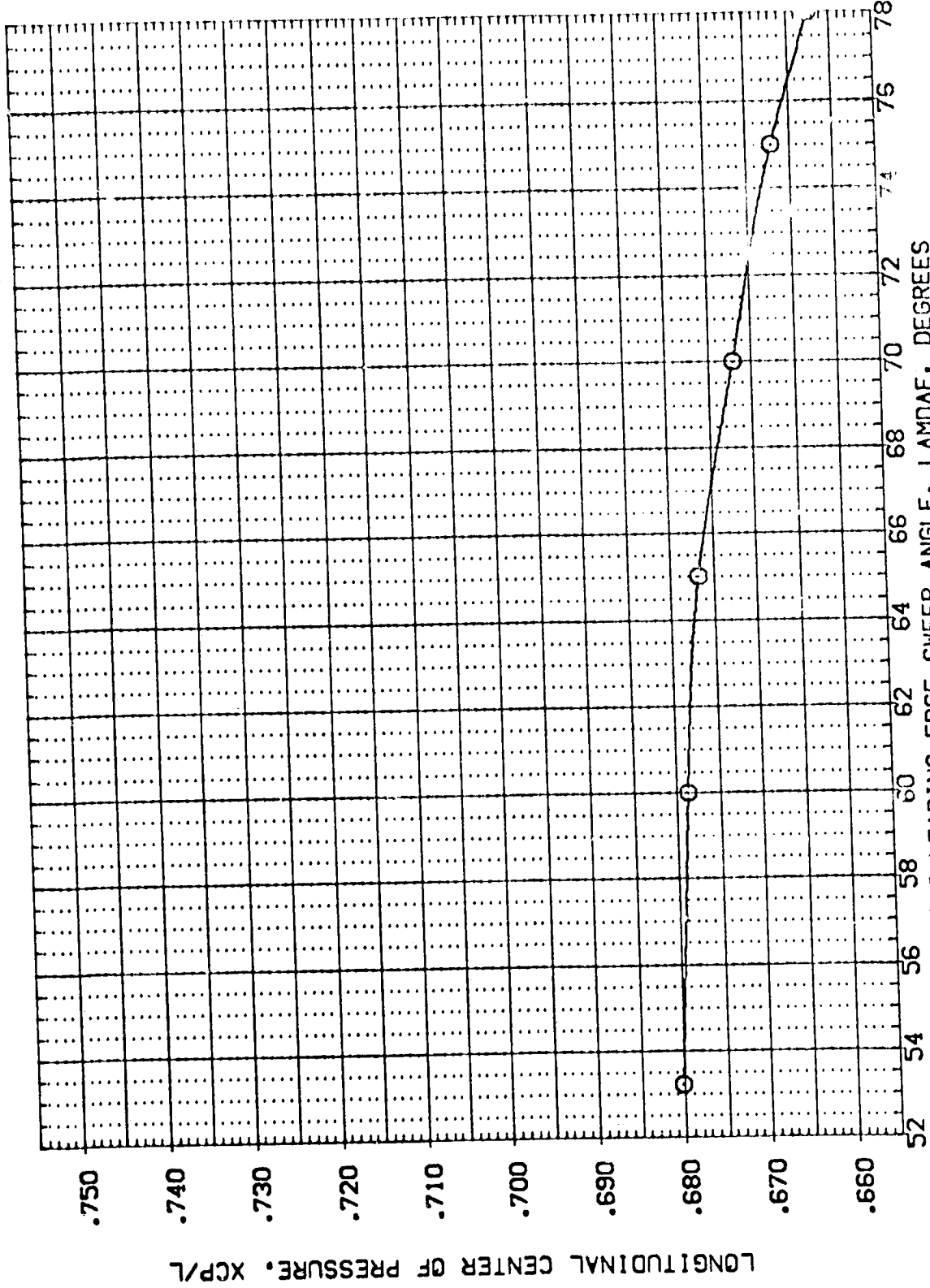


DELTA CLMAX FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

SYMBOL		ALPHA		MACH		PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	8.000	.350	BETA	.000	CP5001	53.200	LAMDAF	CP5002	SREF	175.7376	SC.IN.
		1.000	ELEVTR	.000	CP5003	65.000	LAMDAF	CP5004	LREF	26.5100	INCHES
		.000	RUOFLR	.000	CP5005	75.000	LAMDAF	CP5006	BREF	19.7156	INCHES
									YMRP	16.8633	INCHES
									ZMRP	.0000	INCHES
									SCALE	.0188	SCALE

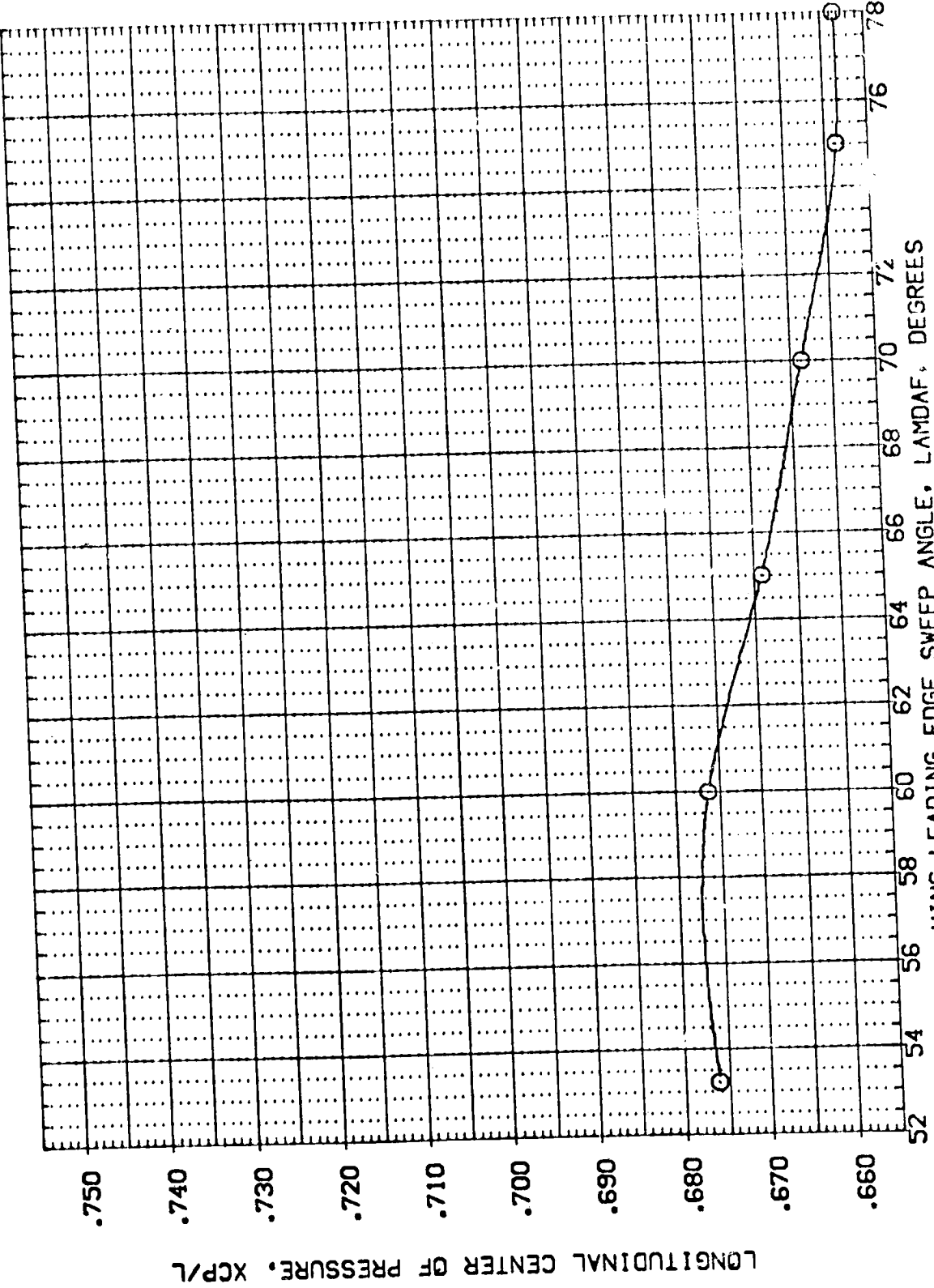


CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

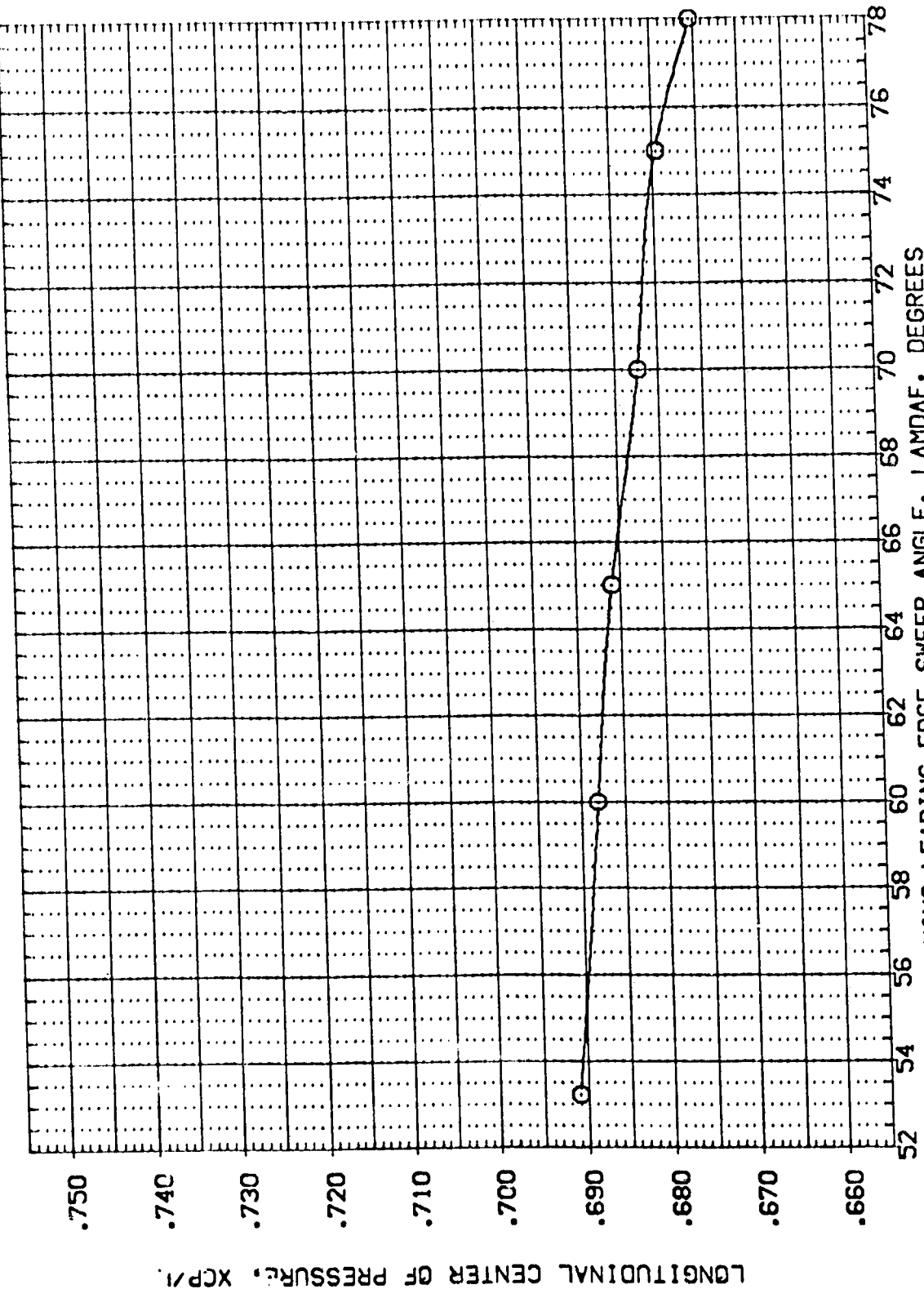
PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
ALPHA	20.000	MACH		SREF	175.7376
BETA	.350	WING		LREF	25.5100
ELEVTR	1.000	BOFLAP		BREF	19.7156
RUOFLR	.000			XPRP	16.8633
				YPRP	.0000
				ZPRP	.0000
				SCALE	.0188
				SCALE	
				LAMDAF	
				60.000	
				70.000	
				78.000	
				CP5002	
				CP5004	
				CP5006	
				LAMDAF	
				53.200	
				65.000	
				75.000	
				CP5001	
				CP5003	
				CP5005	



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BWIVFB) (CP5001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	LAMDAF	DATASET	LAMDAF	SREF	REFERENCE INFORMATION
O	8.000	WINGND BOFLAP	BETA ELEVTR RUOFLR	LAMDAF CP5001 CP5003 CP5005	60.000 70.000 78.000	CP5002 CP5004 CP5006	175.7376 25.5100 19.7156 16.8693 .0000 CP000 ZMRP SCALE	SC.IN. INCHES INCHES INCHES INCHES INCHES SCALE	

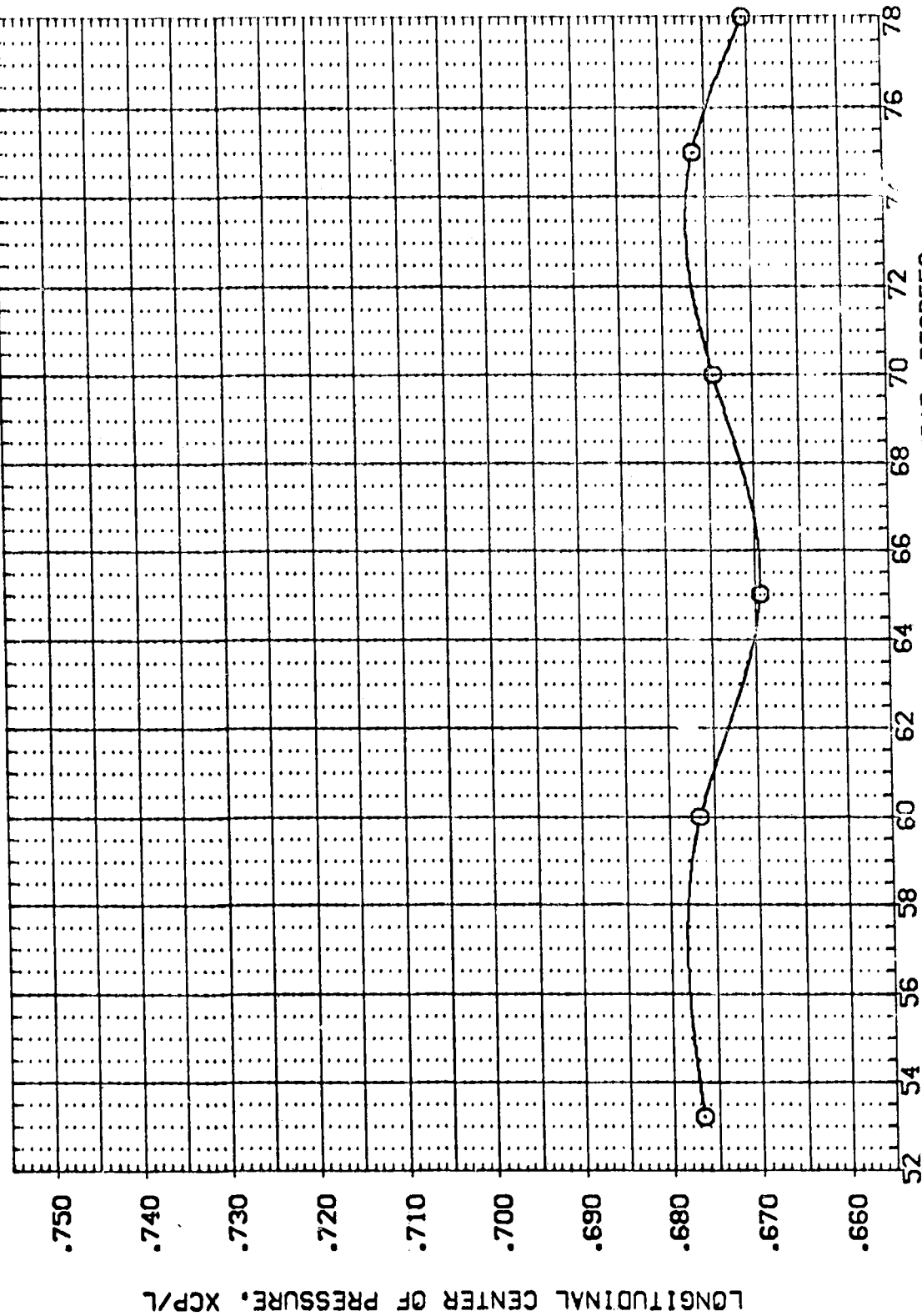


CENTER OF PRESSURE FOR L0-100 WING (B W I V F B)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (B W1VFB) (CP5001)

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION					
ALPHA	.800	BETA	.000	LAMDAF	53.270	LREF	25.5100	SC.IN.	INCHES
MACH	1.000	ELEVTR	.000	CP5001	55.000	BRF	19.7156	INCHES	INCHES
VINGND	.000	RUDFLR	.000	CP5003	75.000	XFRP	16.8633	INCHES	INCHES
BOFLAP				CP5005		ZFRP	.0000	INCHES	INCHES
						SCALE	.0188	INCHES	SCALE

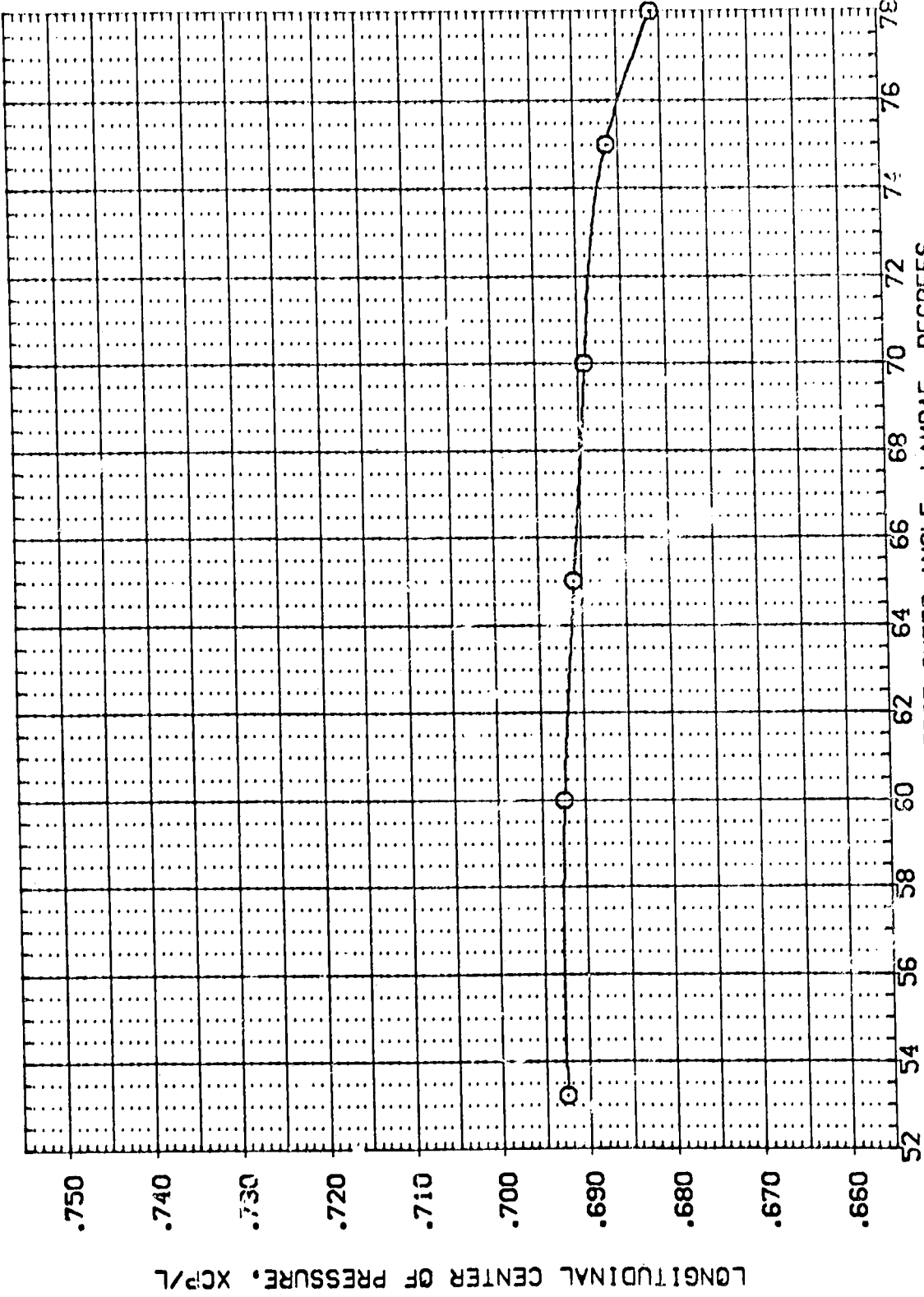


CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)



LARC 8-F7 TPT 644 L0-100 ORBITER(SHIPS) (BWIVFB) (CP5001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION				
O	8.000	WINGV0	.900	BETA	.000	DATASET	LAMDAF	LREF	SREF	175.7376	SO, IN
		BOFLAP	1.000	ELEVTR	.000	CP5001	60.000	BREF	25.5100	INCHES	
			.000	RUOFLR	.000	CP5003	70.000	XMRP	19.7156	INCHES	
						CP5005	75.000	YMRP	16.8633	INCHES	
								ZMRP	.0000	INCHES	
								SCALE	.0188	SCALE	



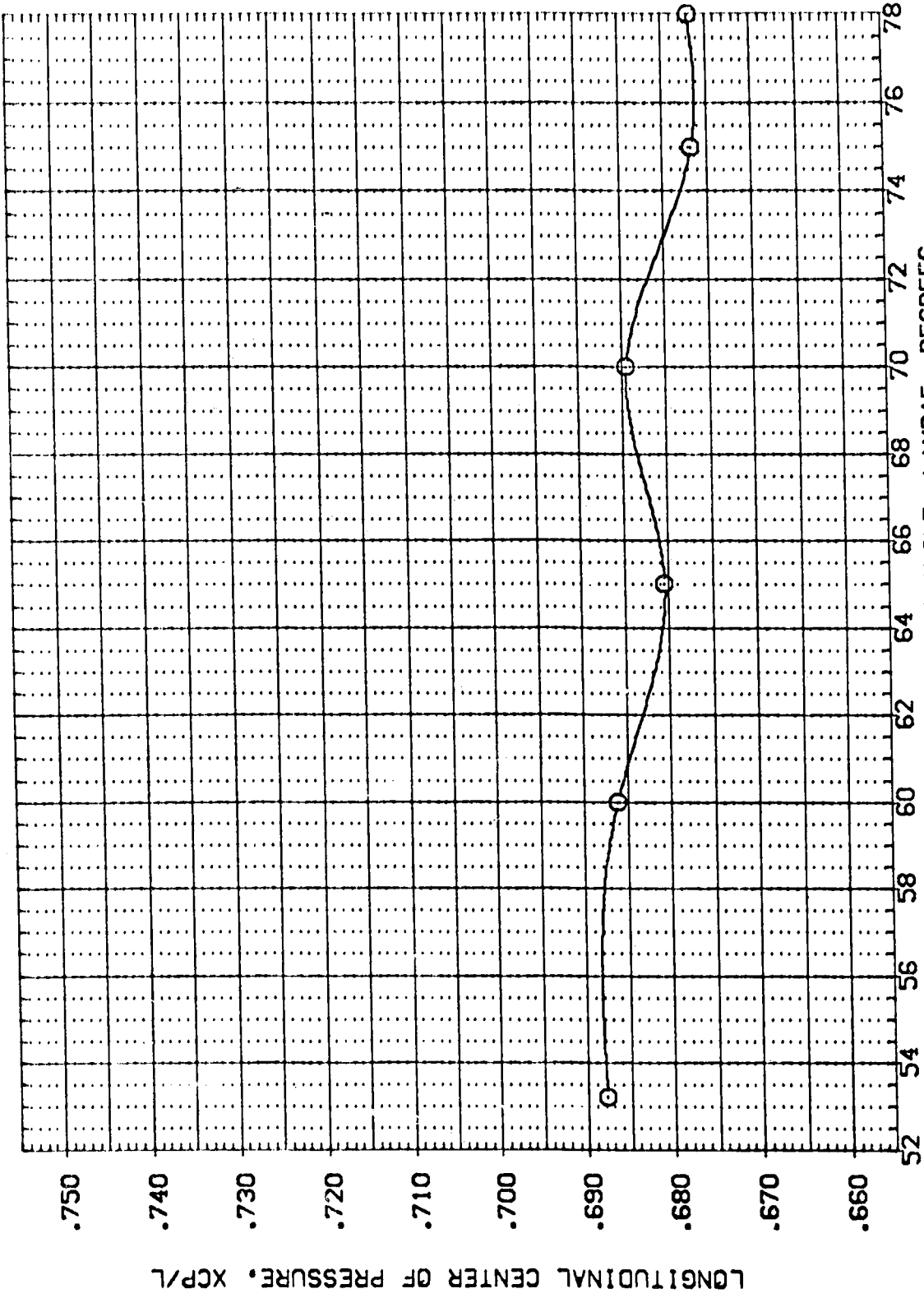
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR L0-100 WING (B W I V F B)

LARC 3-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

SYMBOL	ALPHA	MACH	WING	BOFLAP	PARAMETRIC VALUES	.000	DATASET	LAMDAF	DATA SOURCE	LAMDAF	DATASET	SCALE
O	16.000				BETA	.900	CP5001	60.000	SREF	60.000	CP5002	
					ELEVTR	1.000	CP5003	70.000	LREF	70.000	CP5004	
					RUDFLR	.000	CP5005	78.000	BREF	78.000	CP5006	

REFERENCE INFORMATION	SCALE
SO. IN.	175.7375
INCS	25.5100
INCS	19.7156
INCS	15.8633
INCS	.0000
INCS	.0000
SCALE	.0188



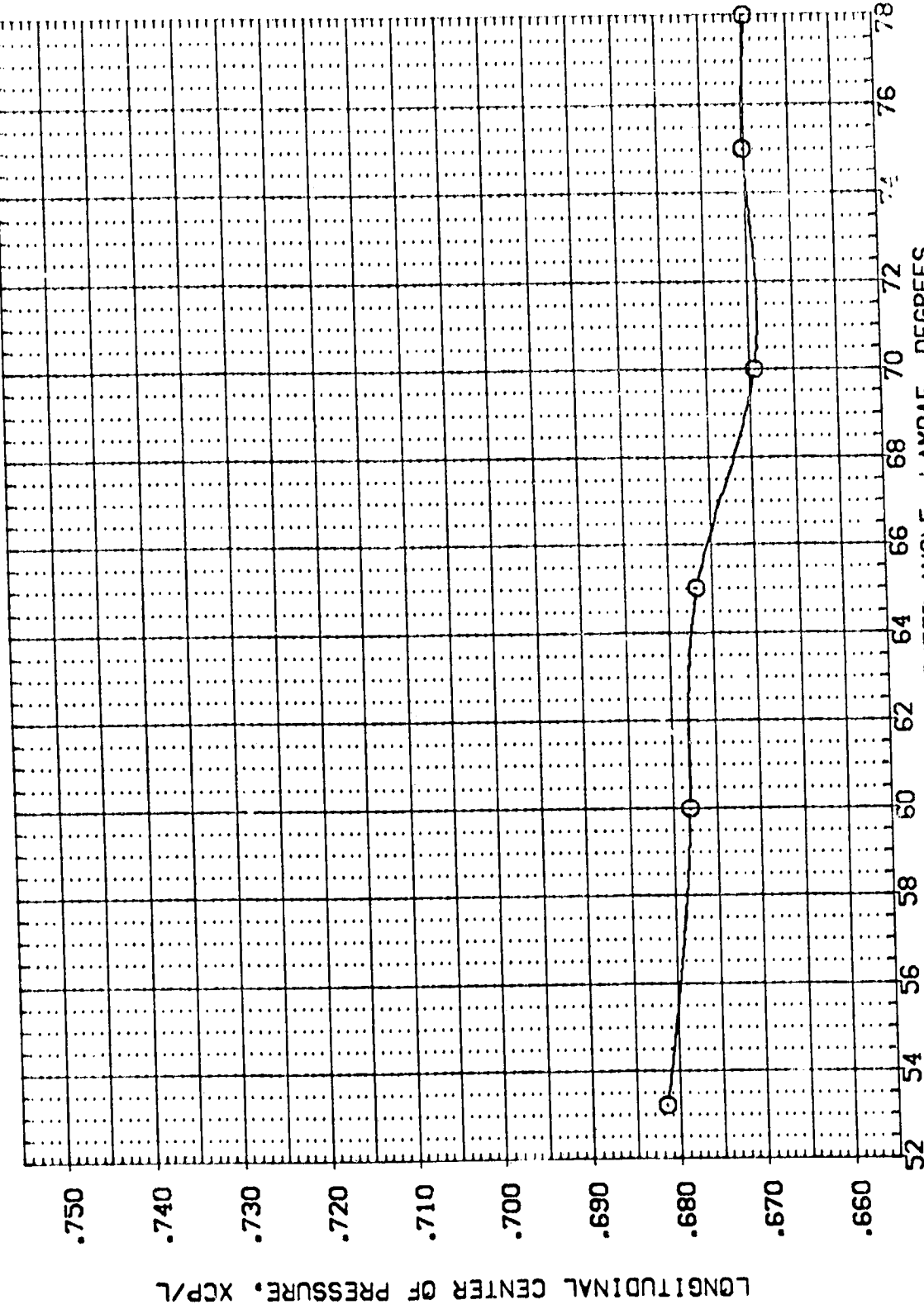
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

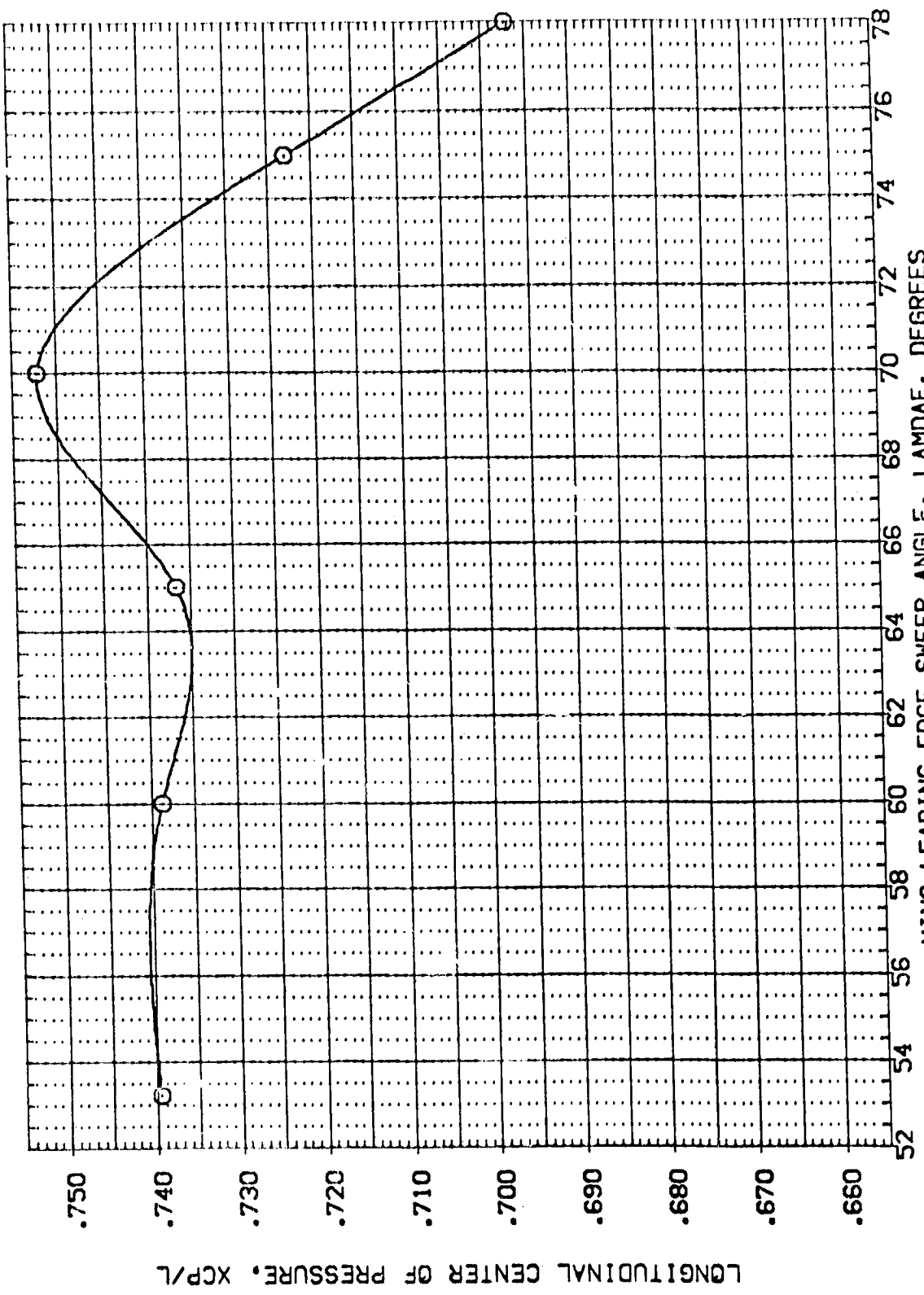
SYMBOL		ALPHA		MACH		PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	20.000	.900	BETA	.000	DATASET	LAMDAF	LAMDAF	SREF	175.7375	50. IN.	
		1.000	ELEVTR	.000	CP5001	53.200	60.000	LREF	25.5100	INCHES	
		.000	RUDFLR	.000	CP5003	65.000	70.000	BREF	19.7156	INCHES	
					CP5005	75.000	78.000	XPRP	16.8633	INCHES	
								YPRP	.0000	INCHES	
								ZPRP	.0000	INCHES	
								SCALE	.0188	SCALE	



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

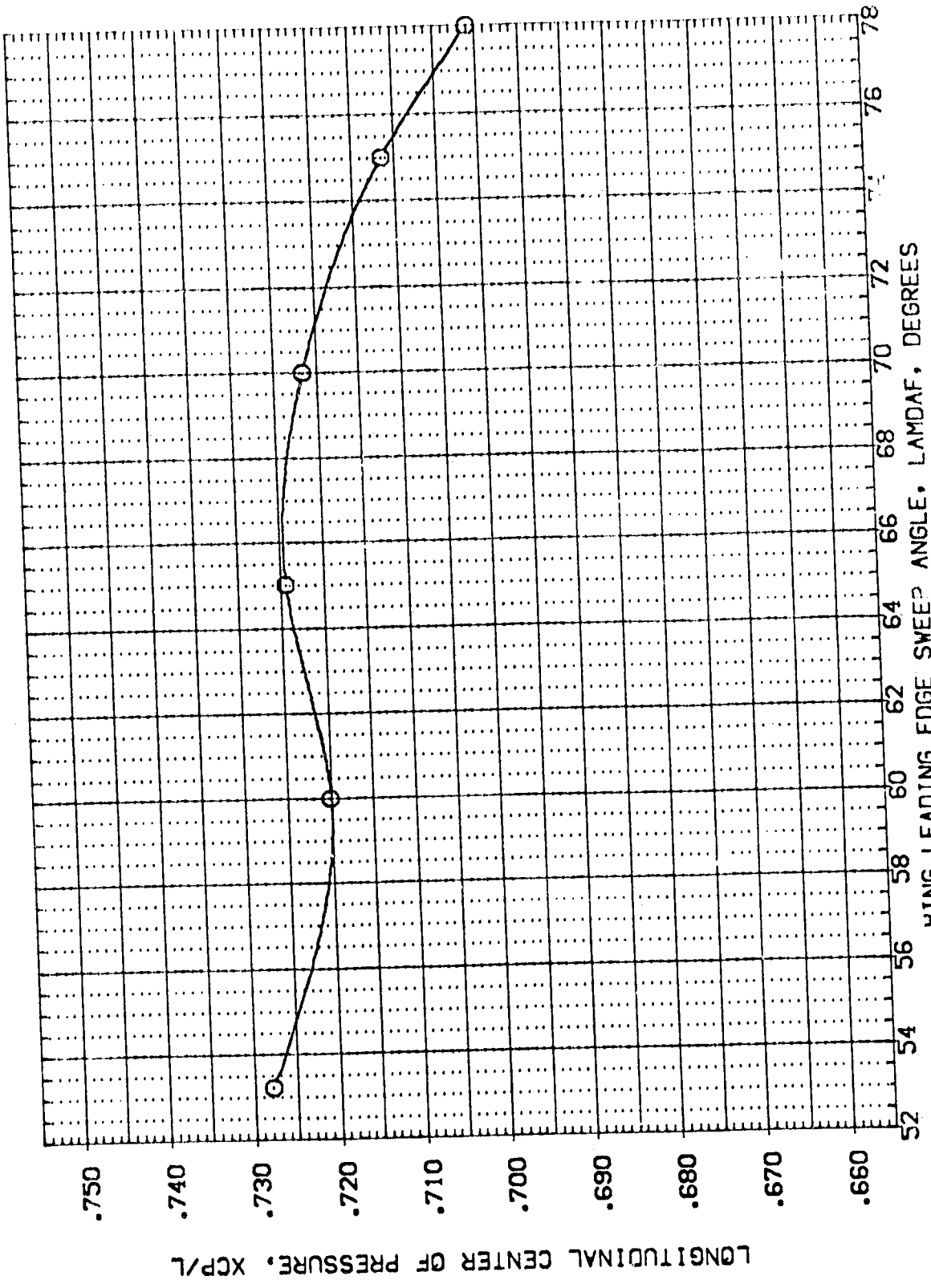
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
C	8.000	WING BOFLAP	.980	BETA	.000	CP5001	LAMDA V	CP5002	SREF	175.7376	SU.I.N.
			1.000	ELEVTR	.000	CP5003	53.260	CP5004	LREF	75.5100	INCHES
			.000	RUDFLR	.000	CP5005	65.000	CP5006	BREF	19.7156	INCHES
							75.000		XREF	16.6633	INCHES
									YREF	.0000	INCHES
									ZREF	.0000	INCHES
									SCALE	.2158	SCALE



CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT S44 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

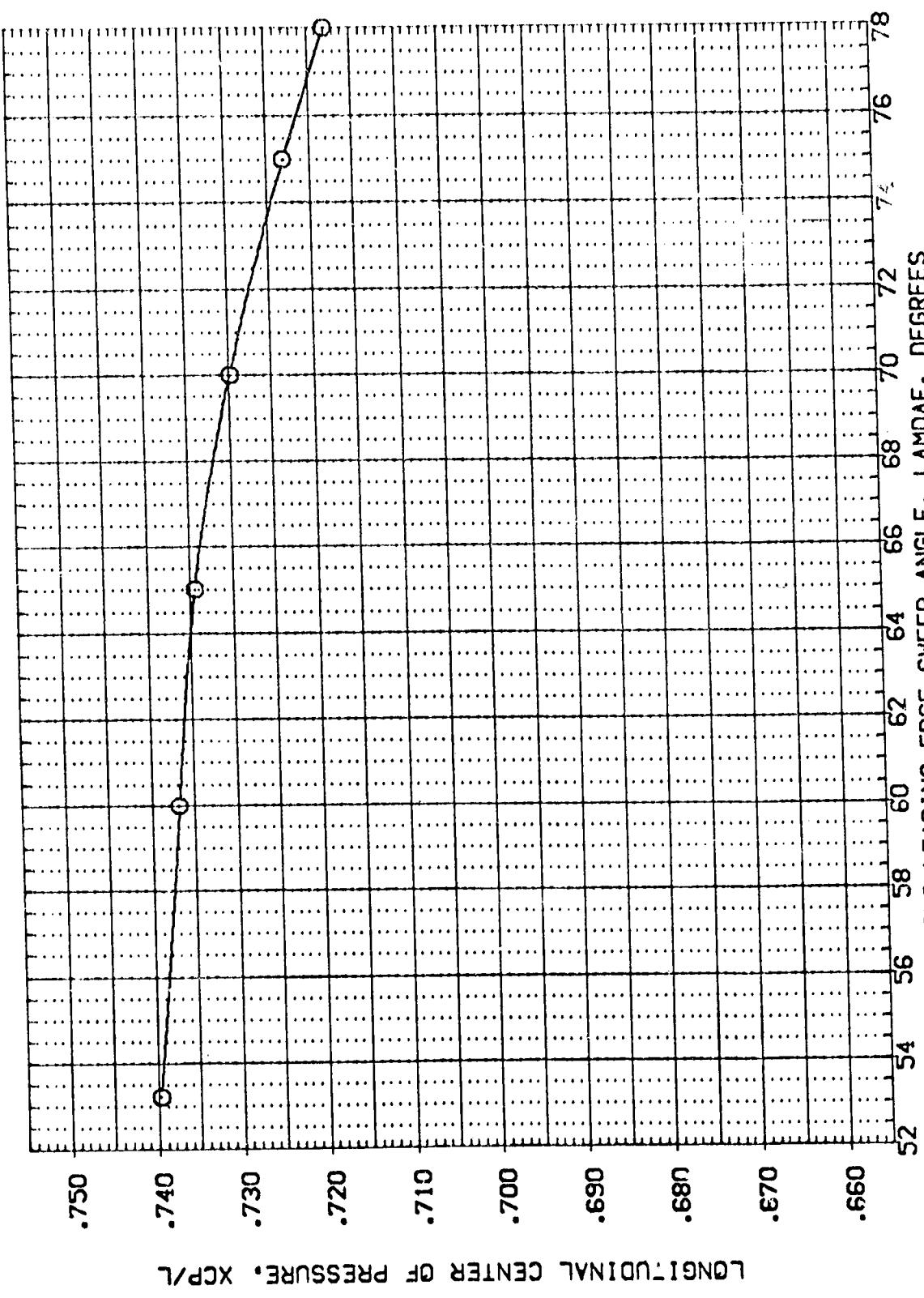
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
○	16.000		BETA	LAMDAF	CP5002	60.000	175.7375	SO.IN.
		WINGC	ELEVTR	CP5001	CP5002	70.000	25.5100	INCHES
		BOFLAP	RUDFLR	CP5003	CP5004	78.000	19.7156	INCHES
				CP5005	CP5006		16.8633	INCHES
							.0000	INCHES
							.0000	SCALE
							.0188	SCALE



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

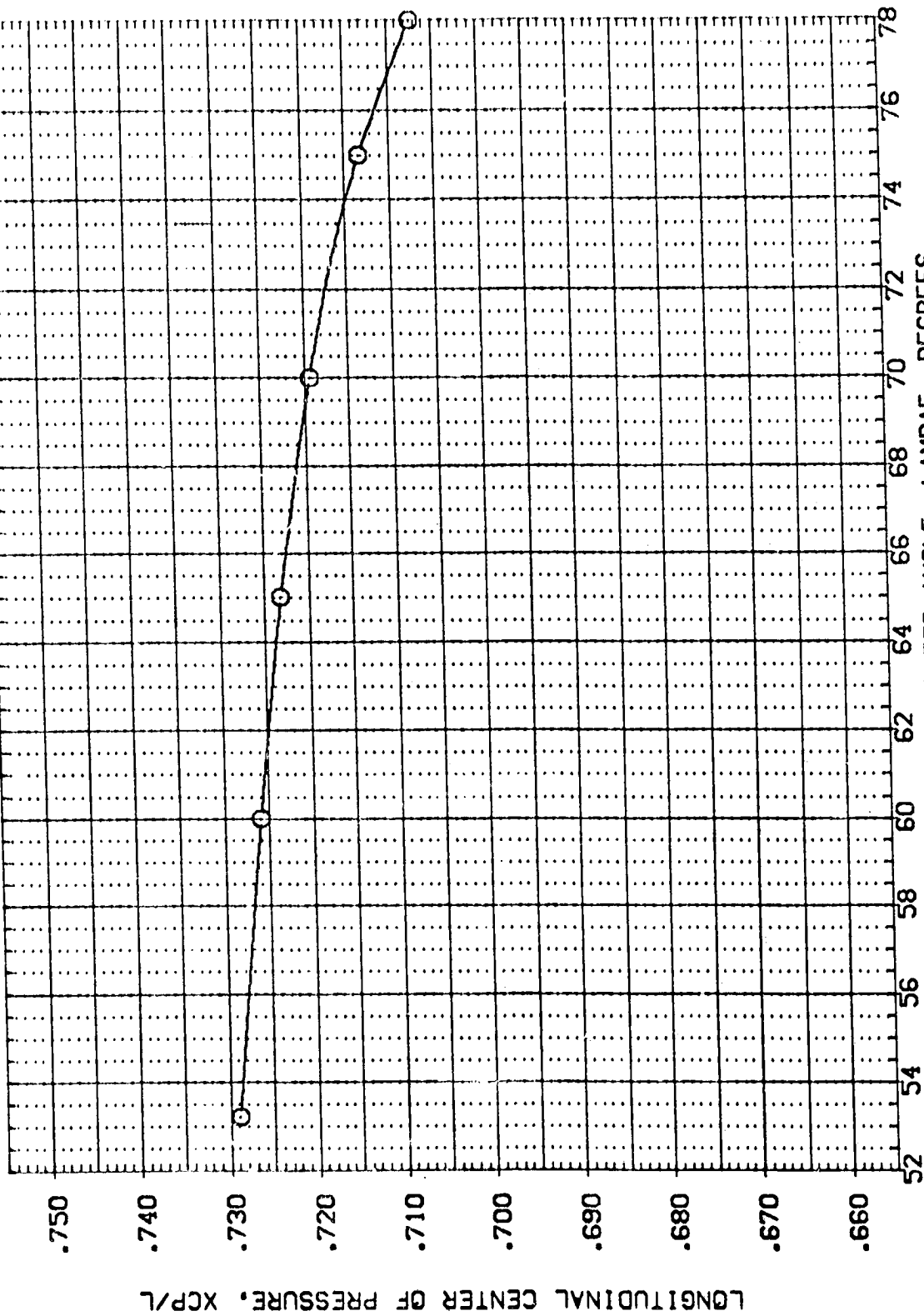
SYMBOL	ALPHA	MACH	WING	BOFLAP	PARAMETRIC VALUES	.000	DATASET	LAMDAF	DATA SOURCE	LAMDAF	SREF	SCALE
O	8.000				BETA	.000	CP5001	60.000	LREF	175.7375	INCHES	
					ELEVTR	.000	CP5002	70.000	BREF	25.5100	INCHES	
					RUDFLR	.000	CP5004	78.000	XPRP	19.7156	INCHES	
							CP5005		YPRP	15.6633	INCHES	
									ZPRP	.0000	INCHES	
									SCALE	.0188		



CENTER OF PRESSURE FOR LO-100 WING (B W I V F B)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	LAMDAF	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
O	16.000	1.200	BETA	.000	53.200	CP5001	50.000	175.7376	50. IN.
		1.000	ELEVTR	.000	55.000	CP5003	70.000	25.5100	INCHES
		.000	RODFLR	.000	75.000	CP5005	78.000	19.7156	INCHES
								16.8633	INCHES
								.0000	INCHES
								.0000	INCHES
								.0188	SCALE

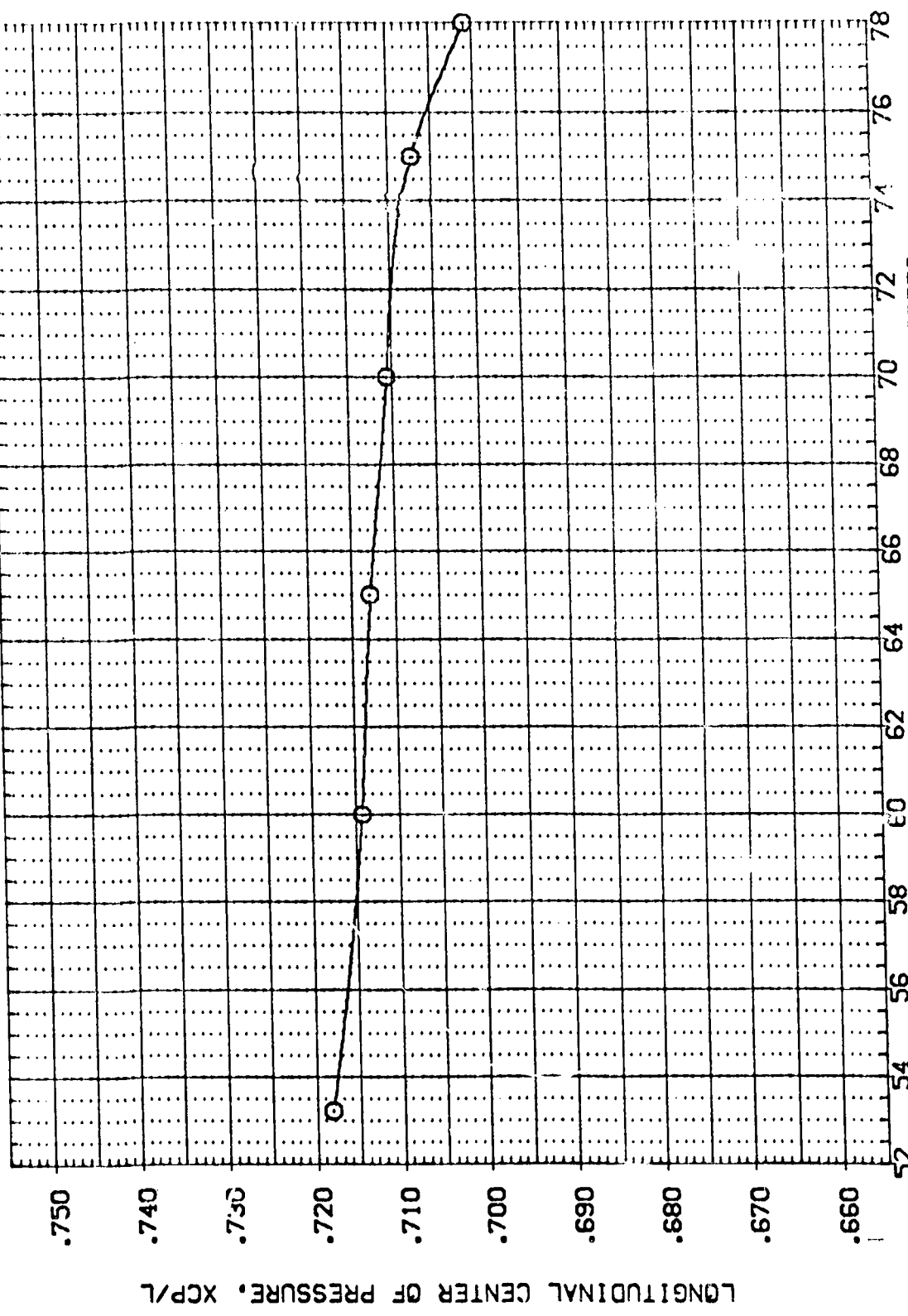


CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

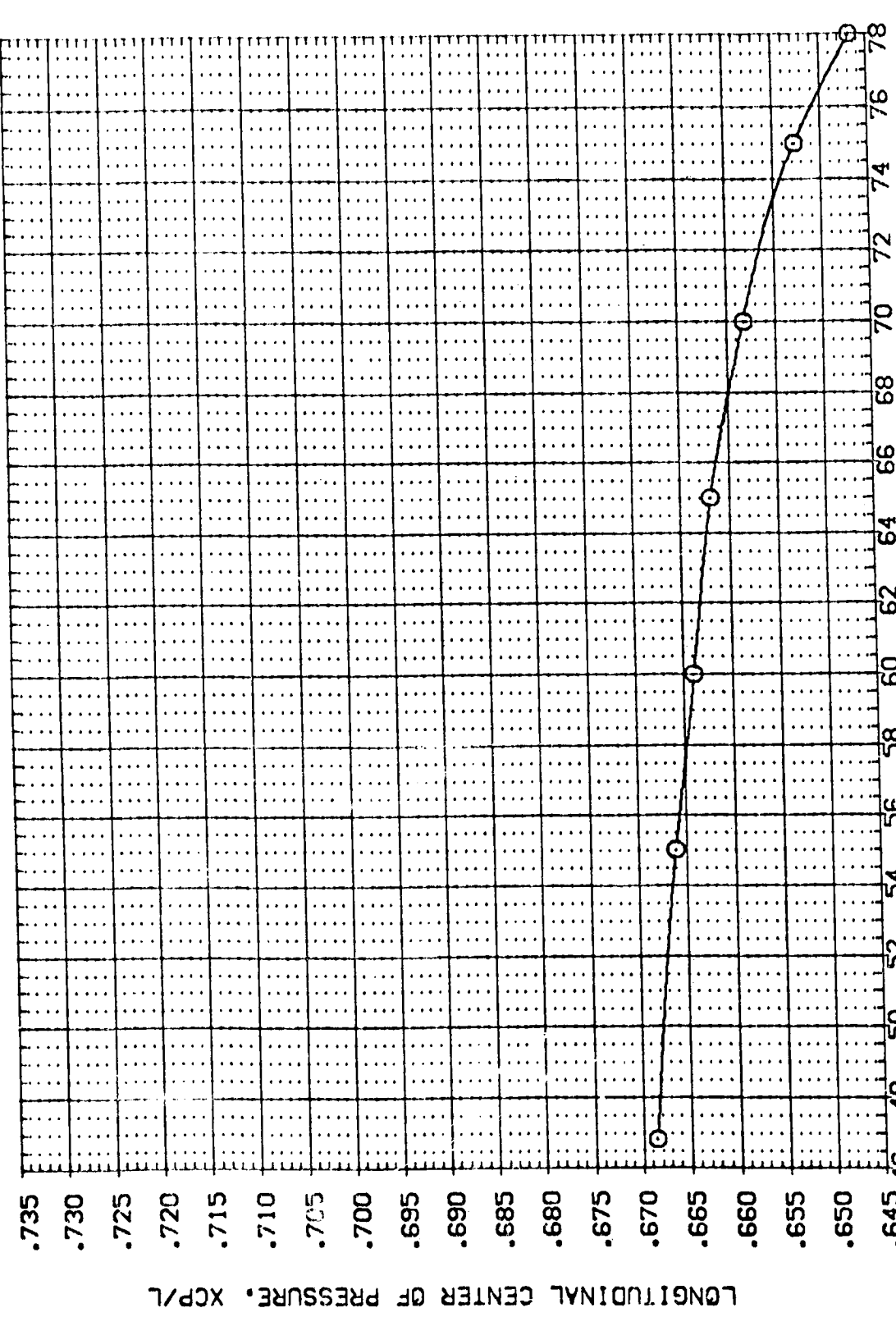
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATASET	LAMDAF	LREF	SREF	REFERENCE INFORMATION
○	20.000		BETA	LAMDAF	CP5001	50.000	175.7376	175.7376	SG:IN.
			ELEVTR	CP5002	60.000	60.000	25.5100	25.5100	INCHES
			RUDFLR	CP5003	70.000	70.000	18.7156	18.7156	INCHES
				CP5005	78.000	78.000	16.8633	16.8633	INCHES
							.0000	.0000	INCHES
							.0000	.0000	INCHES
							.0000	.0000	INCHES
							.0188	.0188	SCALE



CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL		ALPHA		MACH		WING		BOFLAP		PARAMETRIC VALUES		DATA SOURCE		DATASET		LAMDAF		SREF		REFERENCE INFORMATION	
O		8.000				.350		BETA		.000		CP5007		55.000		171.4720		SC.IN.			
						2.000		ELEVTR		.000		CP5008		65.000		25.5100		INCHES			
						.000		RUOFLR		.000		CP5009		75.000		20.3597		INCHES			
										.000		CP5010				15.8633		INCHES			
										.000		CP5011				.0000		INCHES			
										.000		CP5013				.0000		INCHES			
										.000						.0188		SCALE			



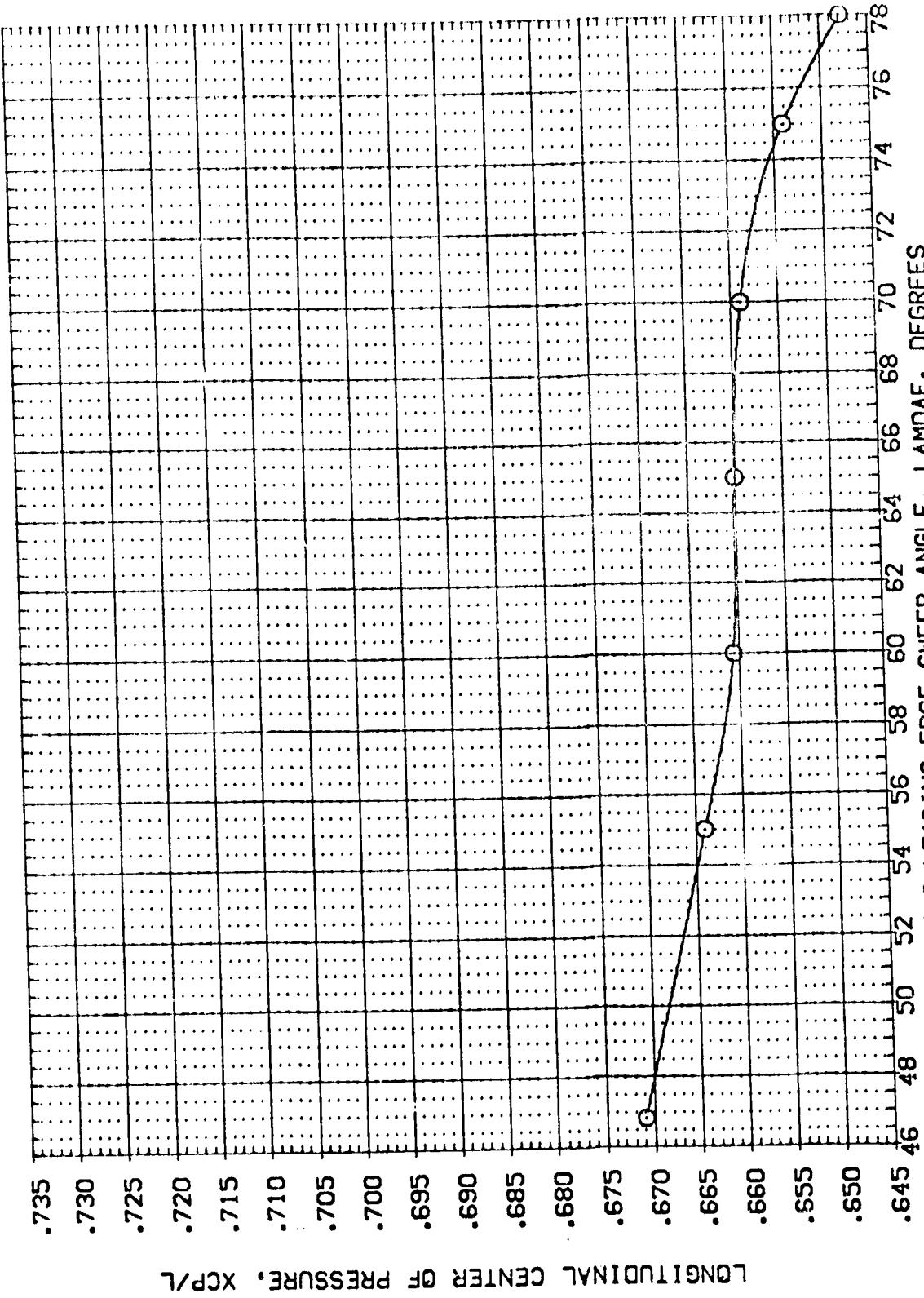
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

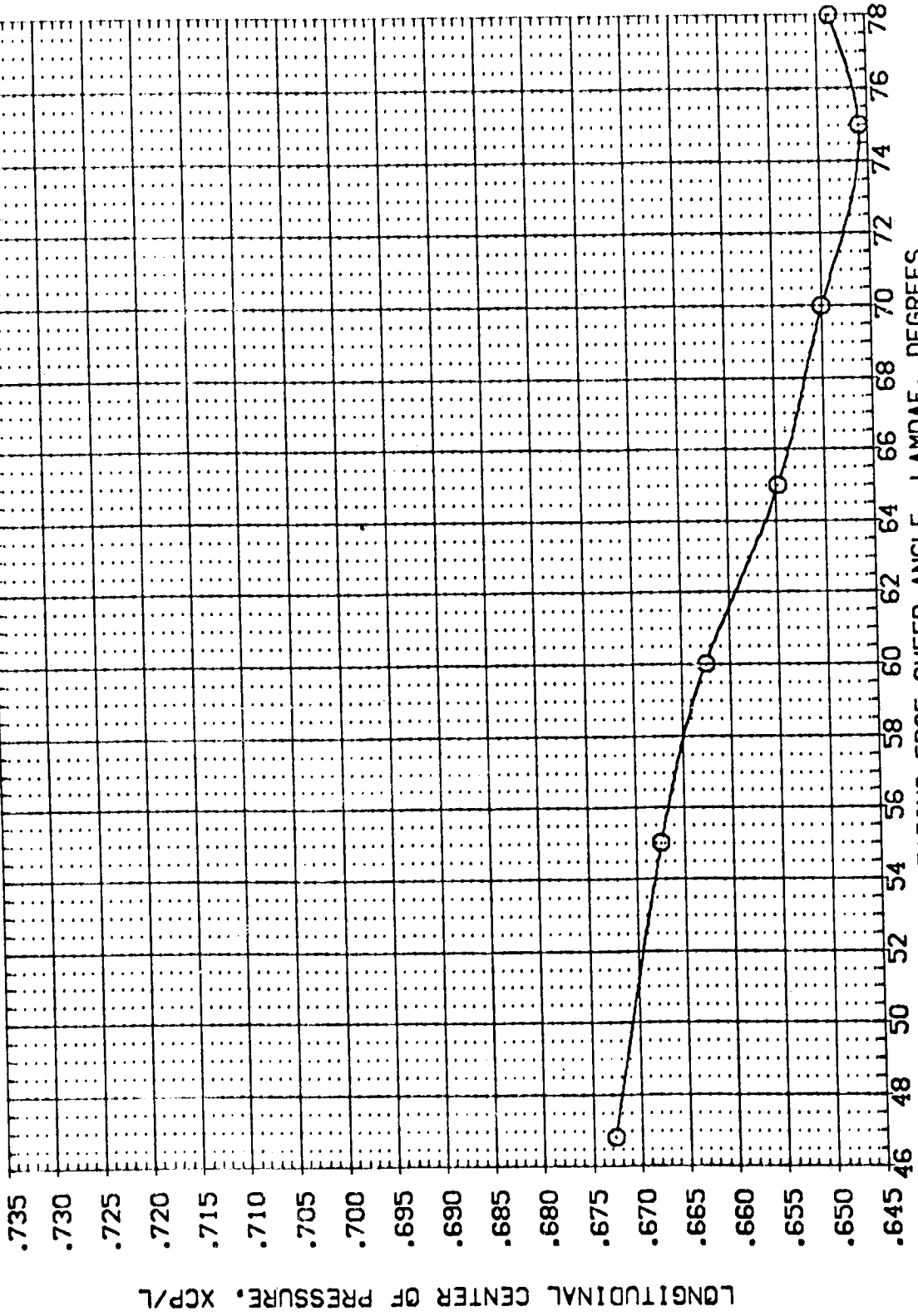
SYMBOL		ALPHA		MACH		PARAMETRIC VALUES		DATA SOURCE		LAMDAF		SREF		REFERENCE INFORMATION	
O		15.000		WINGNO		BETA		LAMDAF		DATASET		LOC		SQ. IN.	
				BOFLAP		ELEVTR				CP5008		REF		INCHES	
						RUDEL				CP5010		XREF		INCHES	
										CP5012		YREF		INCHES	
										CP5013		ZREF		INCHES	
												SCALE		SCALE	
							.350		.000				171.4720		50.000
							2.000		.000				25.5100		20.000
									.000				70.2697		16.000
									.000				16.8333		16.000
									.000				.0000		16.000
									.000				.0000		16.000
									.000				.0188		16.000



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	20.000	WINGNO BOFLAP	.350 2.000 .000	BETA ELEVTR RUDFLR	.000 .000 .000	CP5007 CP5009 CP5011 CP5013	CP5008 CP5010 CP5012	CP5007
						49.800 60.000 70.000 78.000	55.000 55.000 75.000	171.4720 29.5100 20.3597 15.8633 .0000 .0000 .0188
								SQ. IN. INCHES INCHES INCHES INCHES SCALE



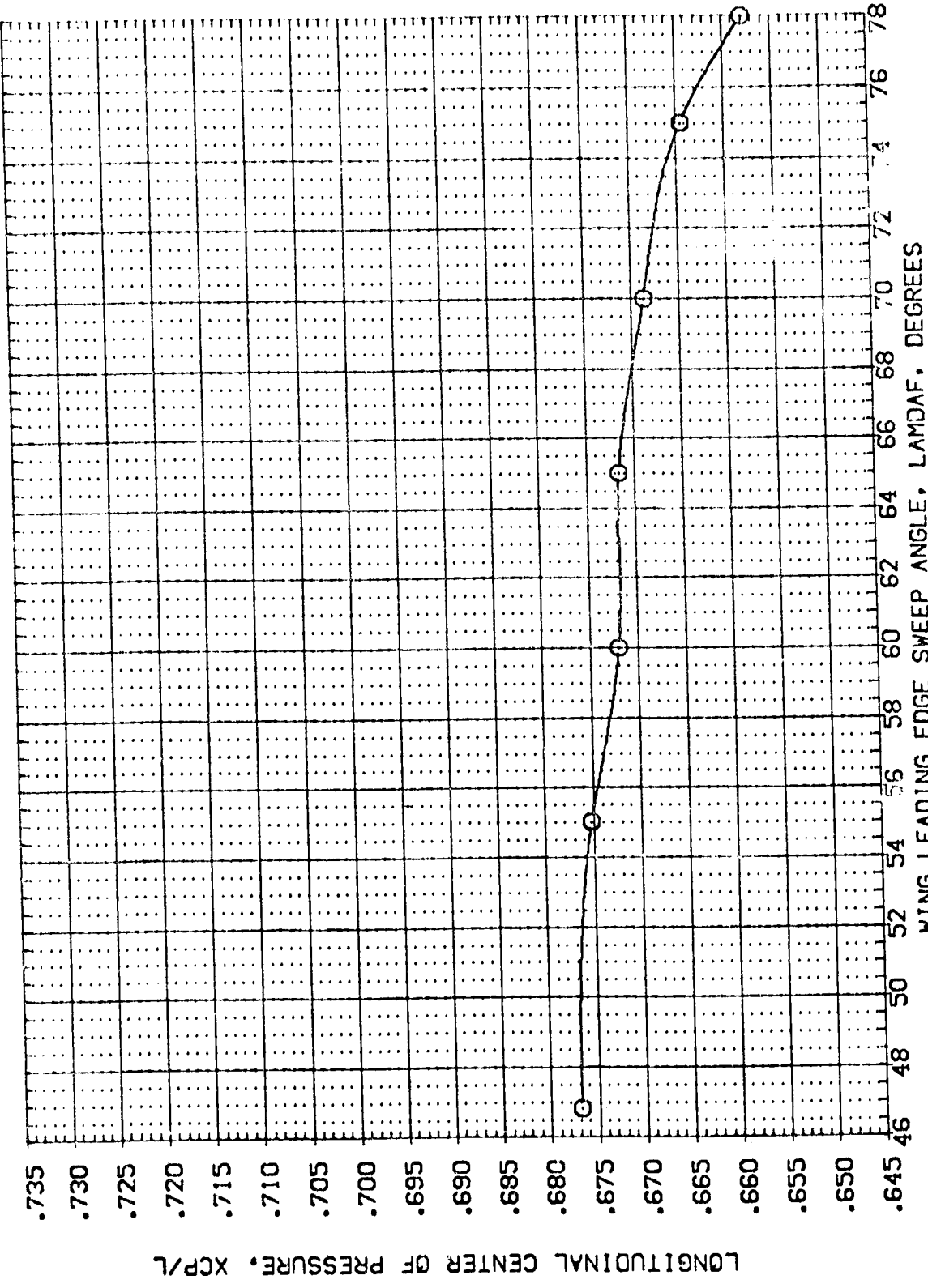
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

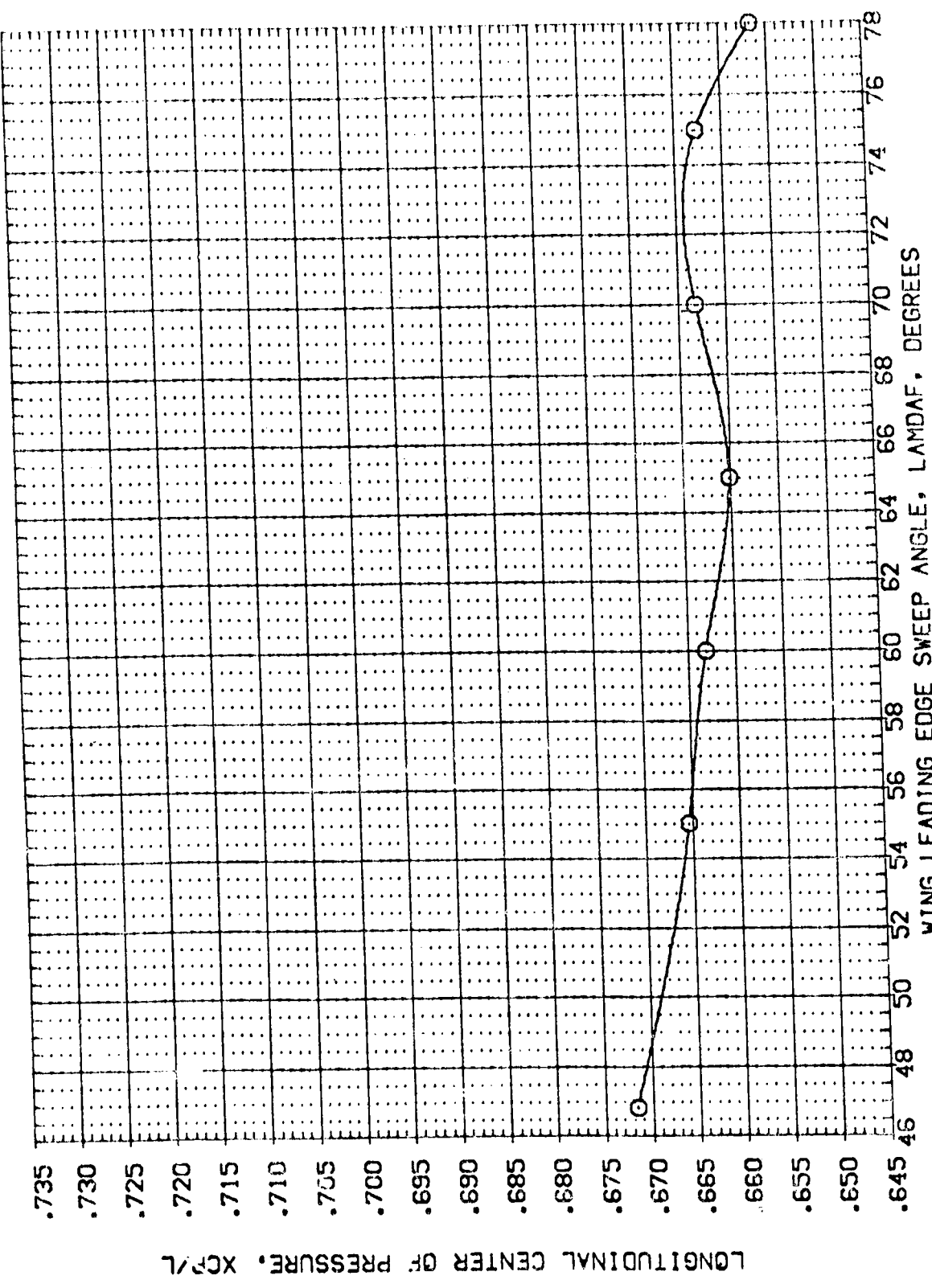
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
O	8.000	WING BOFLAP	.800 BETA 2.000 ELEVTR .000 RUCFLR	.000 DATASET CP5007 .000 CP5005 .000 CP5011 CP5013	171.4720 SCALING 25.5100 INCHES 20.3597 INCHES 16.8633 INCHES .0000 INCHES .0000 INCHES SCALE
				LAMDAF 55.000 65.000 75.000	SREF LREF BREF X-PP Y-PP Z-PP SCALE



CENTER OF PRESSURE FOR W-33 WING (8 W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	WING	BOFLAP	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	16.000	.800	2.000	.000	BETA ELEVTR RUCFLR	LAMDAF LAMPDF DATASET LAMPDF DATASET	SCALIN INCLIN INCLIN INCLIN INCLIN INCLIN SCALE
						CP5007 CP5009 CP5011 CP5013	171.4720 25.5100 20.3587 16.8693 .0000 .0000 .0189
						CP5008 CP5010 CP5012	SREF LREF BREF XMRP YMRP ZMRP SCALE
						55.000 55.000 75.000	
						49.800 60.000 70.000 78.000	

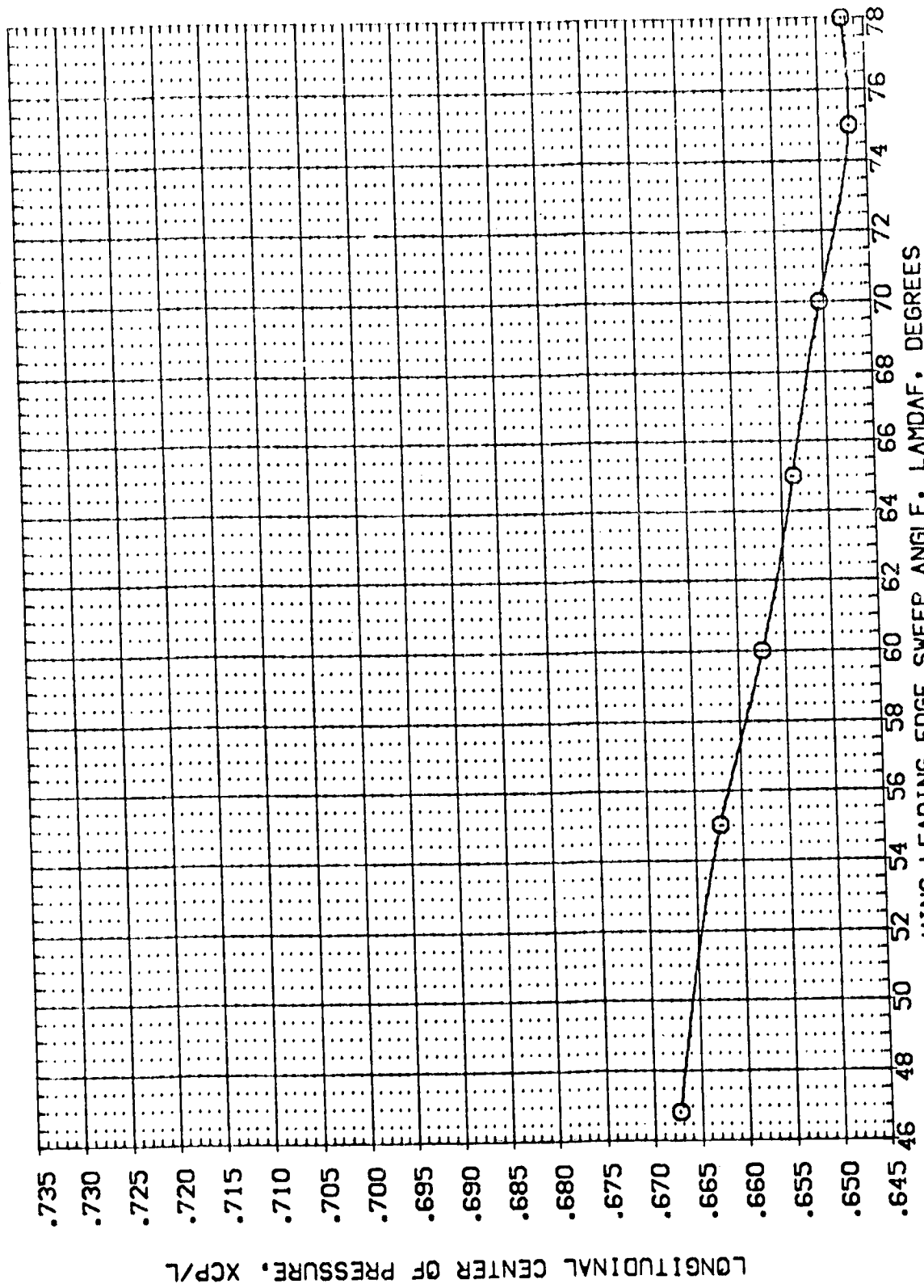


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
○	20.000	WINGING BCFLAP	.800 BETA 2.000 ELEVTR .000 RUOFLR	.000 CP5007 .000 CP5009 .000 CP5011 CP5013	46.800 60.000 70.000 78.000	55.000 65.000 75.000	171.4720 25.5100 20.3557 16.8533 .0000 .0000 ZPRP SCALE	SQ. IN. INCHES INCHES INCHES INCHES INCHES SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL ALPHA MACH VINGND BOFLAP

○ 8.000

PARAMETRIC VALUES

.900 BETA

2.000 ELEVTR

.000 RUDFLR

.000 DATASET

.000 CP5007

.000 CP5009

.000 CP5011

CP5013

DATA SOURCE

LAMDAF 46.800

60.000

70.000

78.000

DATASET CP5008

CP5010

CP5012

SREF LREF XMRP ZMRP SCALE

171.4700 25.5100 20.3597 .0000 .0188

REFERENCE INFORMATION

SG. IN. INCHES

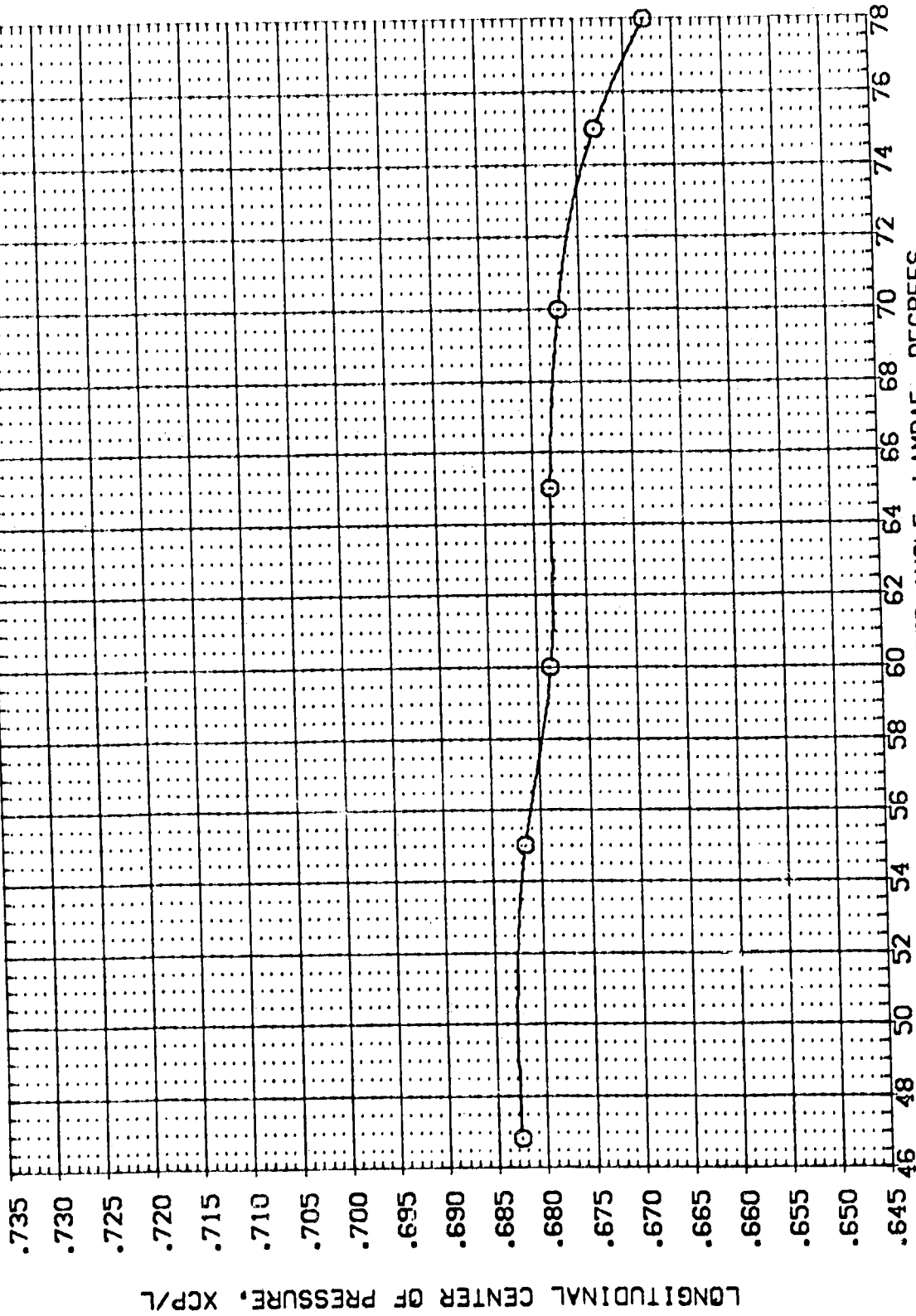
25.5100 INCHES

20.3597 INCHES

.0000 INCHES

.0000 INCHES

.0188 SCALE



LONGITUDINAL CENTER OF PRESSURE, XCP/L

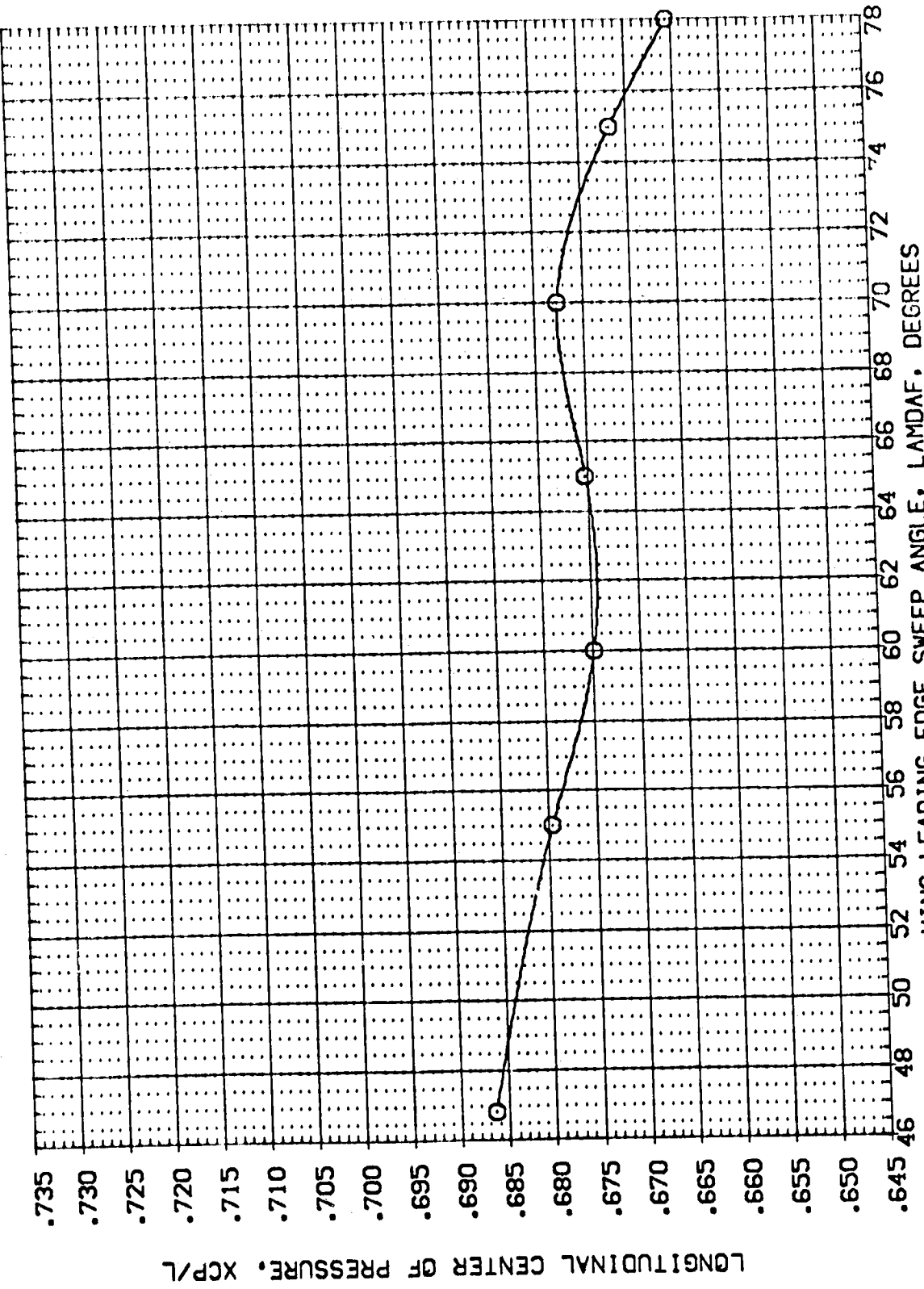
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

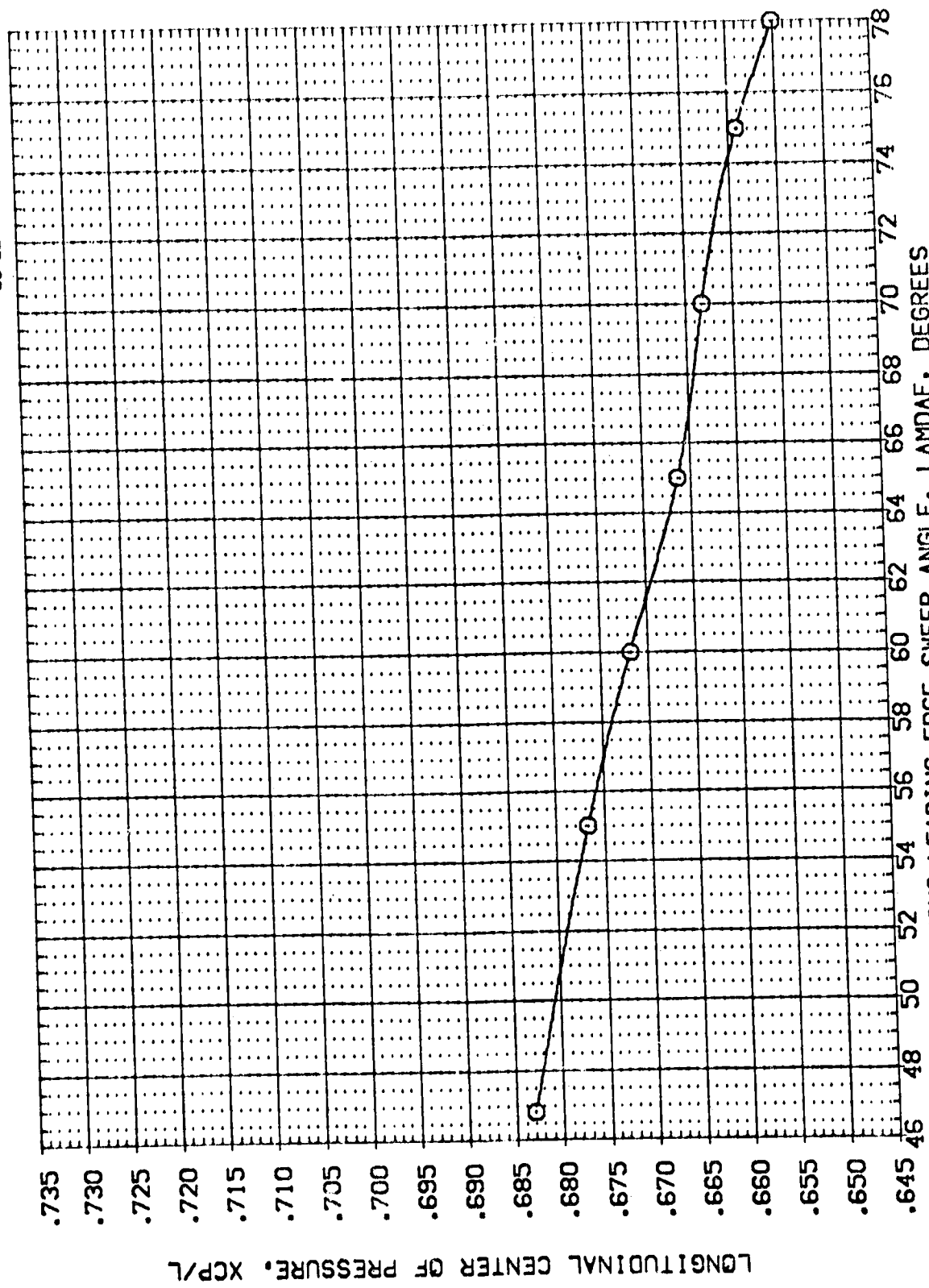
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATASET	LAMDAF	SREF	REFERENCE INFORMATION
O	16.000	WING BOFLAP	BETA ELEVTR RUOFLR	LAMDAF	CP5007 CP5009 CP5011 CP5013	55.000 65.000 75.000	171.4720 29.5100 20.3597 15.8633 .0000 ZVRP SCALE	50. IN. INCHES INCHES INCHES INCHES SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	20.000	V:WING	.900	BETA	.000	DATASET	SREF	SO. IN.
		BOFLAP	2.000	ELEVTR	.000	CP5007	LREF	INCHES
			.000	RUOFLR	.000	CP5008	BREF	INCHES
					.000	CP5010	X:WRP	INCHES
					.000	CP5012	Y:WRP	INCHES
						CP5013	Z:WRP	INCHES
							SCALE	SCALE

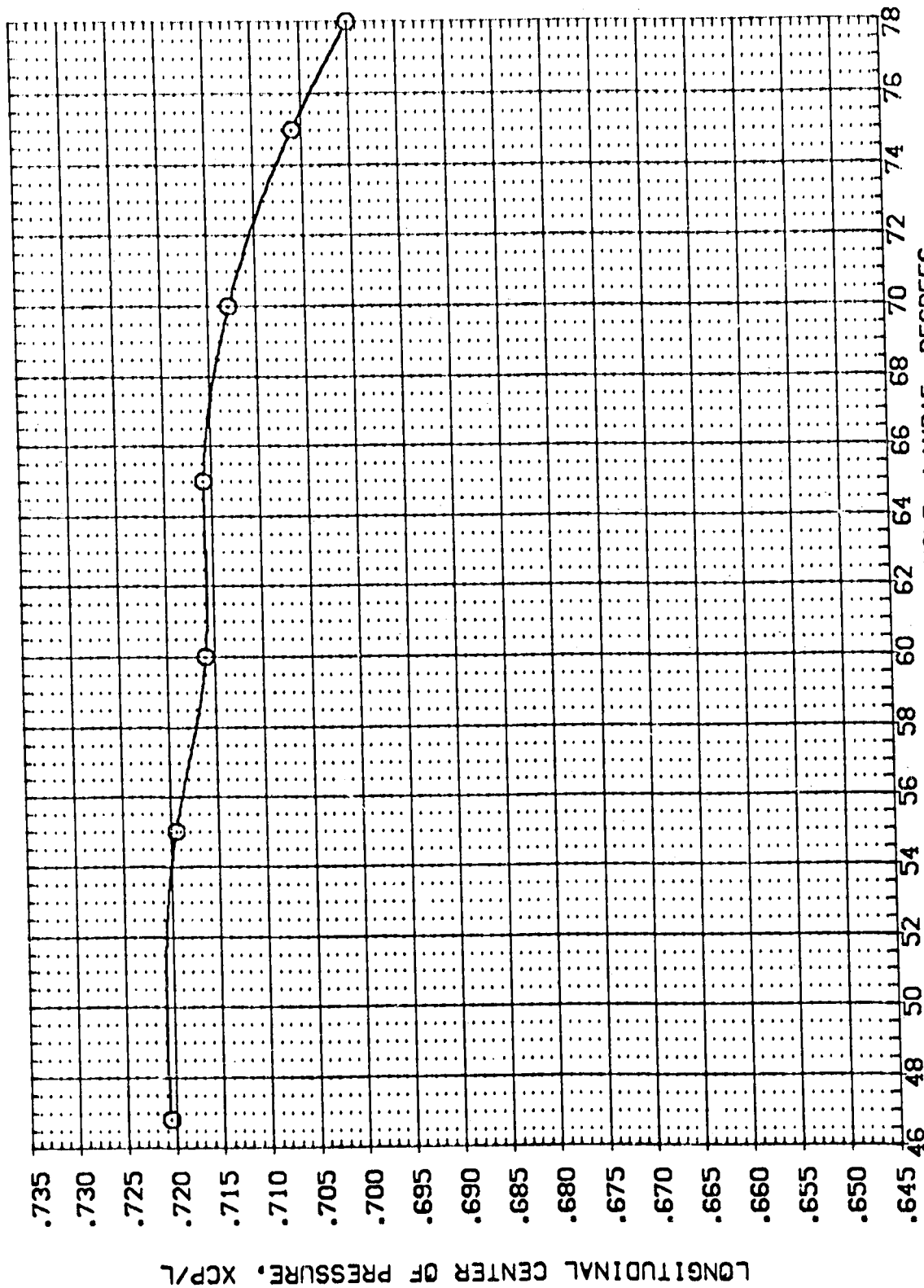


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	LAMDAF	REF	REFERENCE INFORMATION
○	8.000	WING	BETA	LAMDAF	55.000	171.4720	50. IN.
		BOFLAP	ELEVTR	CP5007	65.000	26.5100	INCHES
			RUOFLR	CP5009	75.000	20.3550	INCHES
				CP5011		15.8630	INCHES
				CP5013		.0000	INCHES
						.0000	INCHES
						.0000	SCALE
						.0188	SCALE



WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL ○

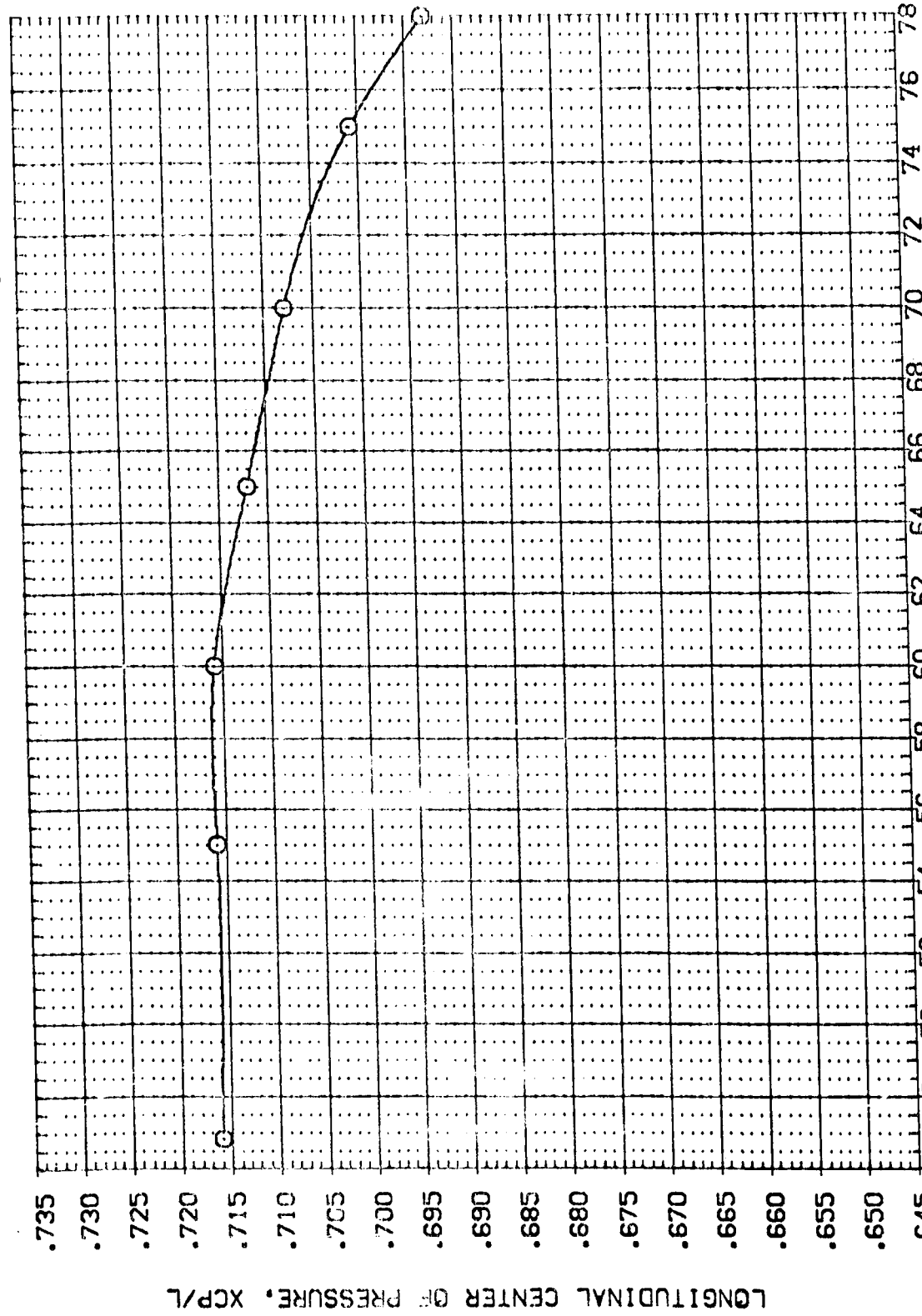
PARAMETRIC VALUES
 ALPHA 16.000
 MACH 2.000
 WING 2.000
 BOFLAP .000

DATA SOURCE
 DATASET .000
 LAMDAF 46.800
 60.000
 70.000
 78.000

DATA SET
 CP5008
 CP5010
 CP5012

LAMDAF
 55.000
 65.000
 75.000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 29.5100
 BREF 20.3597
 VREF 16.5633
 YREF .0000
 ZREF .0000
 SCALE .0188



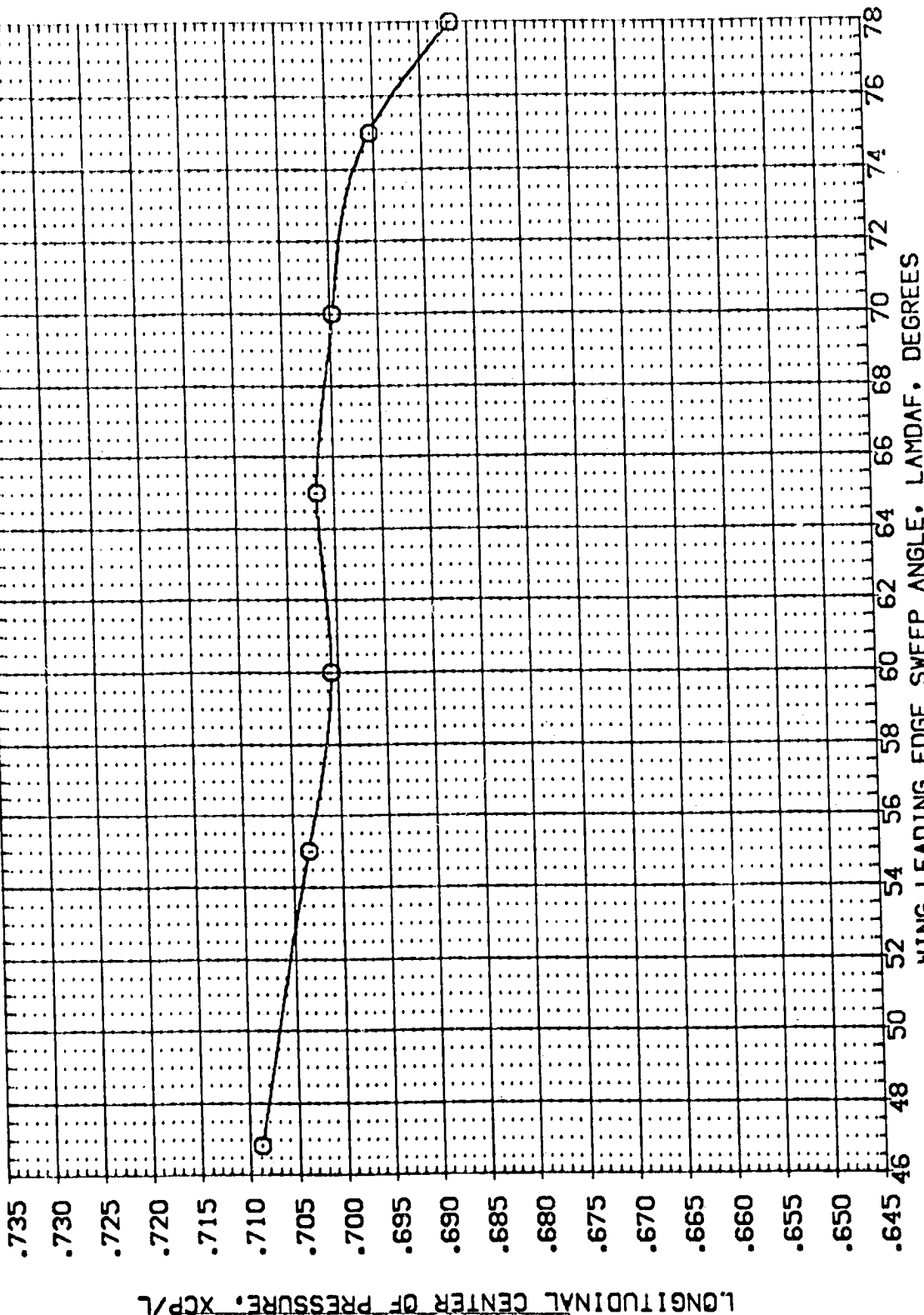
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

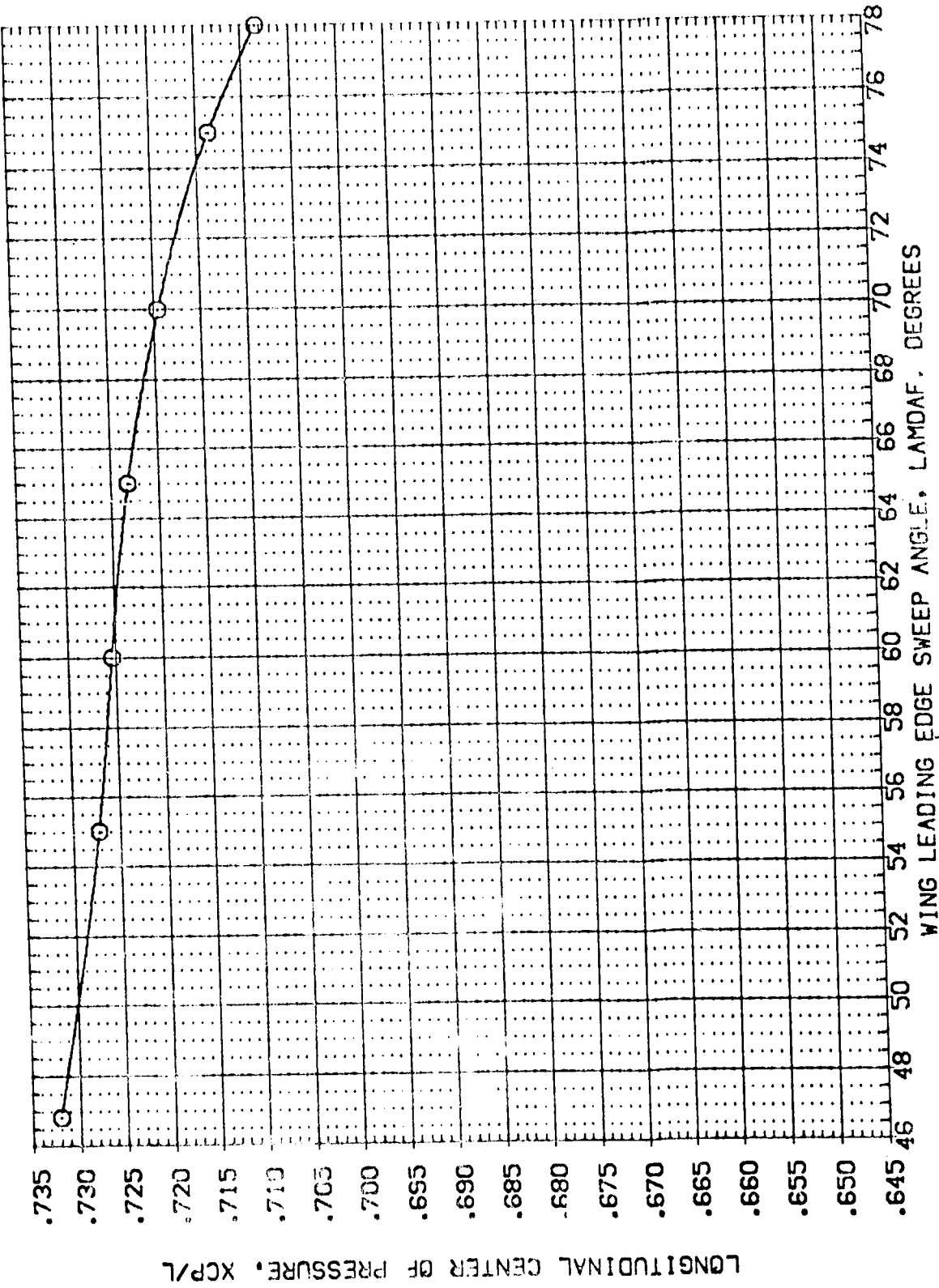
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION		
O	20.000	VINGNO BOFLAP	.980 2.000 .000	BETA ELEVTR RUDFLR	.000 .000 .000	DATASET CP5007 CP5009 CP5011 CP5013	LAMDAF 48.800 60.000 70.000 78.000	SREF LREF SREF XREF YREF ZREF SCALE	SO. IN. INCHES INCHES INCHES INCHES SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
○	8.000	WING 50FLAP	1.200 BETA 2.000 ELEVTR .000 RUOFLR	.000 CP5007 .000 CP5009 .000 CP5011 CP5013	CP5008 CP5010 CP5012	55.000 55.000 75.000	LREF BREF YREF ZREF SCALE	171.4720 SQ.IN. 25.5100 INCHES 20.3597 INCHES 15.8533 INCHES .0000 INCHES .0000 INCHES .0188 SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

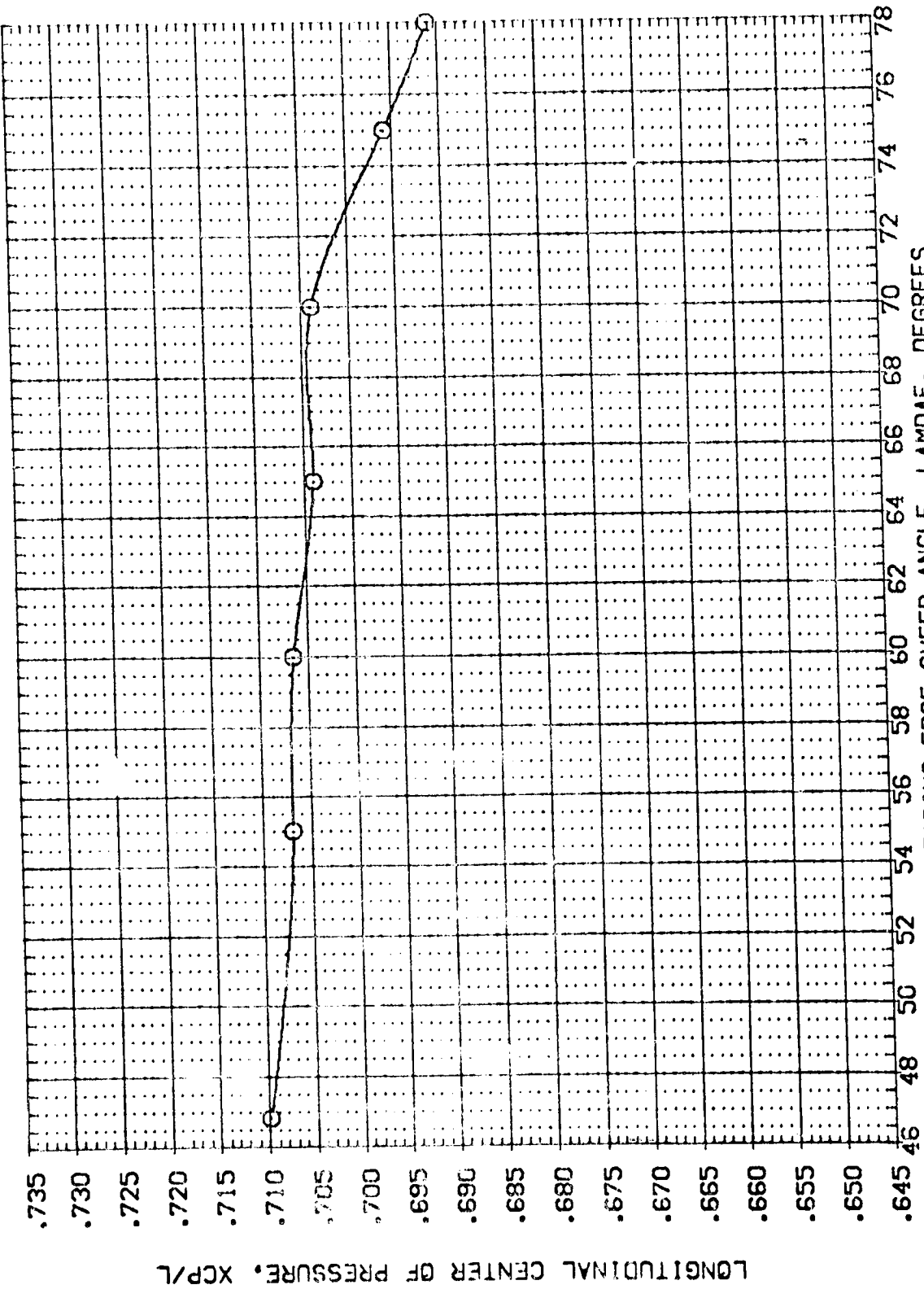
SYMBOL ALPHA 20.000
 MACH 1.200
 WINGNO 2.000
 BCF LAP .000

PARAMETRIC VALUES
 BETA
 ELEVTR
 R/OFLR

DATA SOURCE
 DATASET .000
 LAMDAF 46.800
 CP5007
 CP5009
 CP5011
 CP5013

DATA SOURCE
 DATASET CP5008
 CP5010
 CP5012

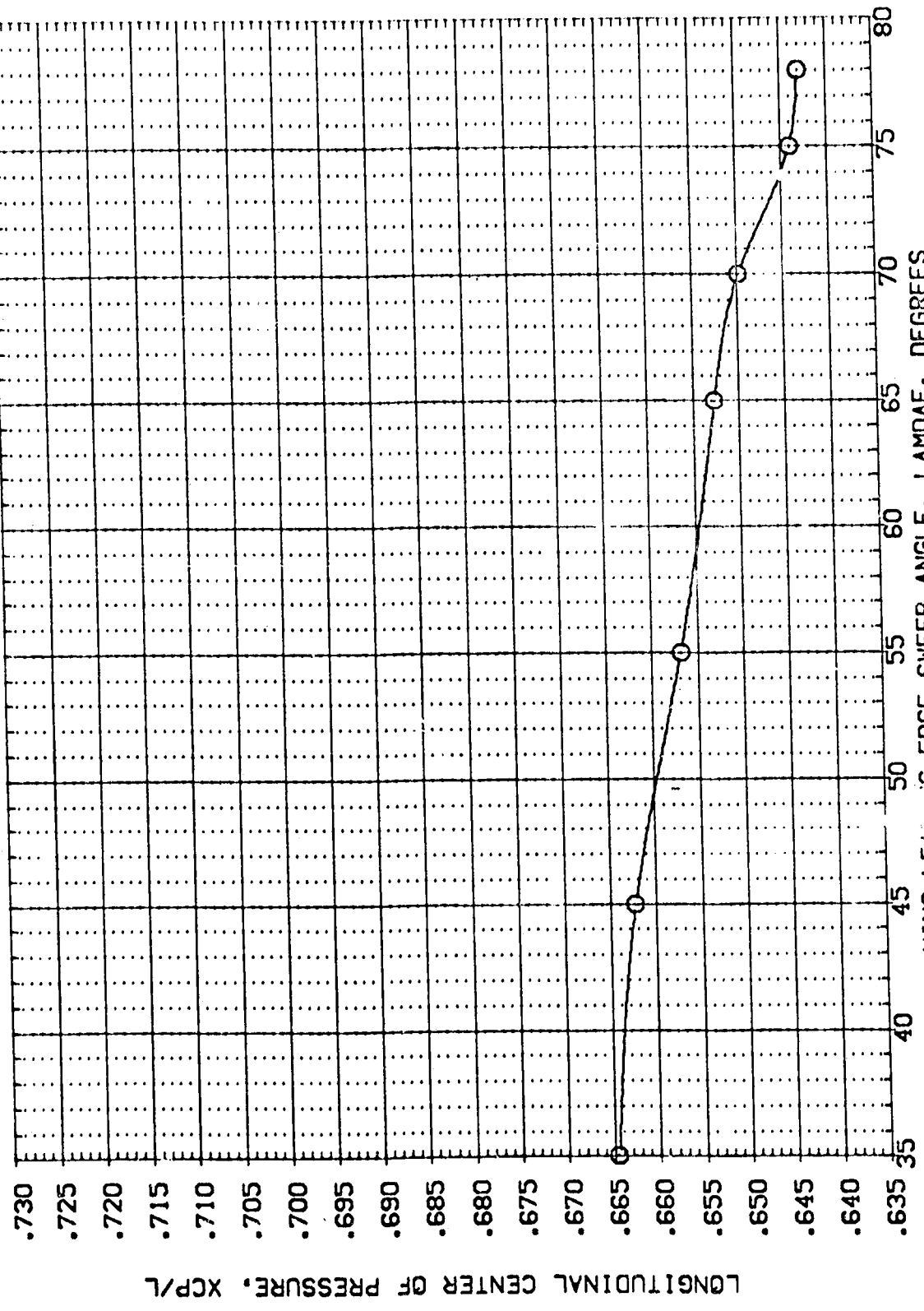
REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3597
 YMRP 15.8633
 ZMRP .0000
 SCALE .0189



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB)(CP5016)

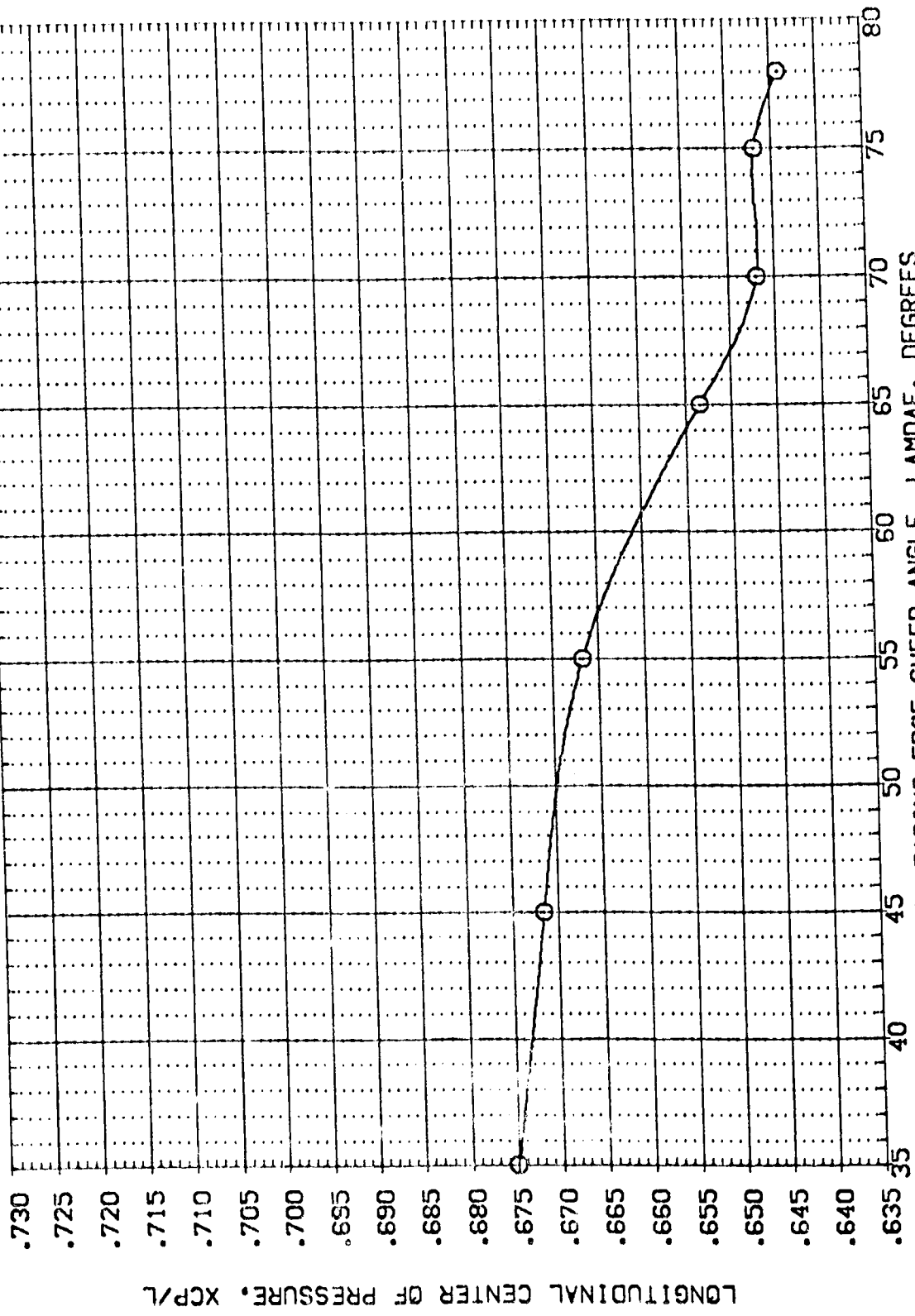
PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
ALPHA	8.000	MACH		SREF	173.1312
BETA	.350	LAMDAF		LREF	25.5100
ELEVTR	3.000	CP5016	CP5017	BREF	20.9095
RUOFLR	.000	CP5018	CP5019	YMRP	16.8633
		CP5020	CP5021	ZMRP	.0000
		CP5022		SCALE	.0188



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

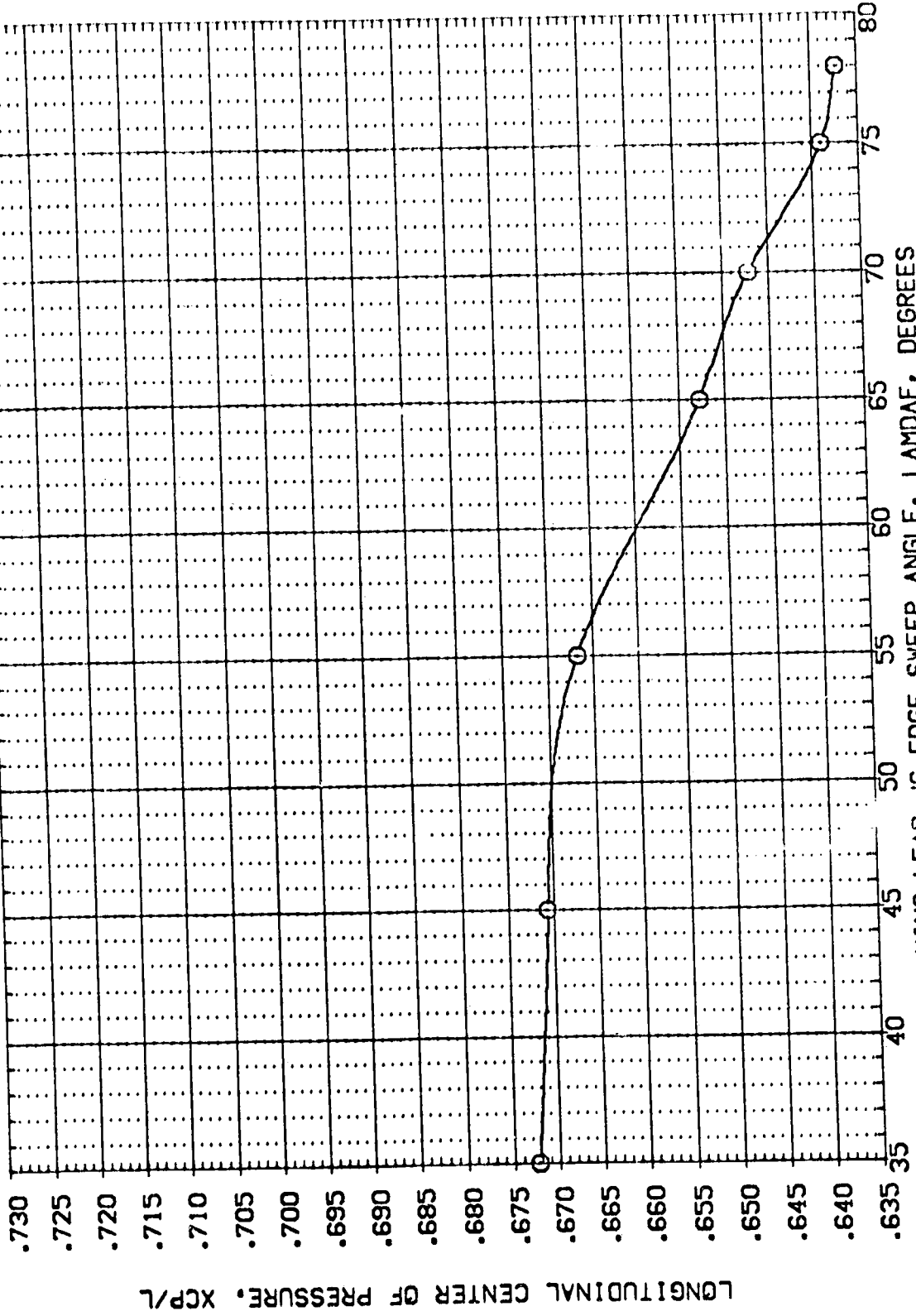
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
○	15.000	WINGING BOFLAP	.350 BETA 3.000 ELEVTR .000 RUJDFLR	.000 DATASET CP5016 CP5018 CP5020 CP5022	CP5017 CP5019 CP5021	45.000 65.000 75.000	LREF BREF YREF ZREF SCALE	173.1312 SQ. IN. 25.5100 INCHES 20.5056 INCHES 16.8633 INCHES .0000 INCHES .0000 INCHES .0188 SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

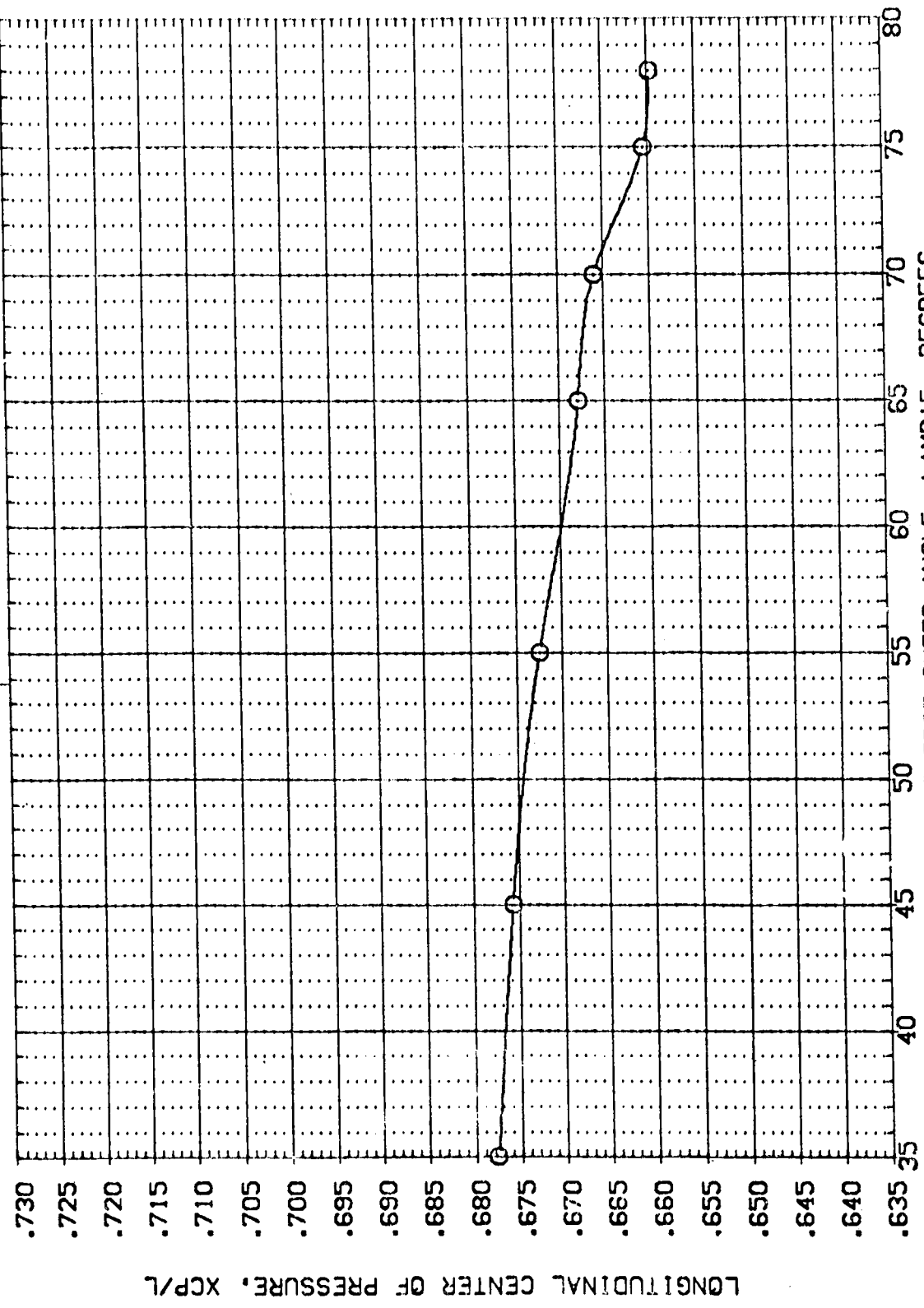
SYMBOL		ALPHA		MACH		WING		BOFLAP		PARAMETRIC VALUES		DATA SOURCE		LAMDAF		DATASET		LAMDAF		SREF		REFERENCE INFORMATION	
O		20.000								BETA ELEVTR RUOFLR		LAMDAF CP5016 CP5018 CP5020 CP5022		35.000 55.000 70.000 78.000		CP5017 CP5019 CP5021		45.000 65.000 75.000		LRFF BRFF YMRP ZMRP SCALE		173.1312 25.5100 20.9058 16.5633 .0000 .0000 .0188	



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

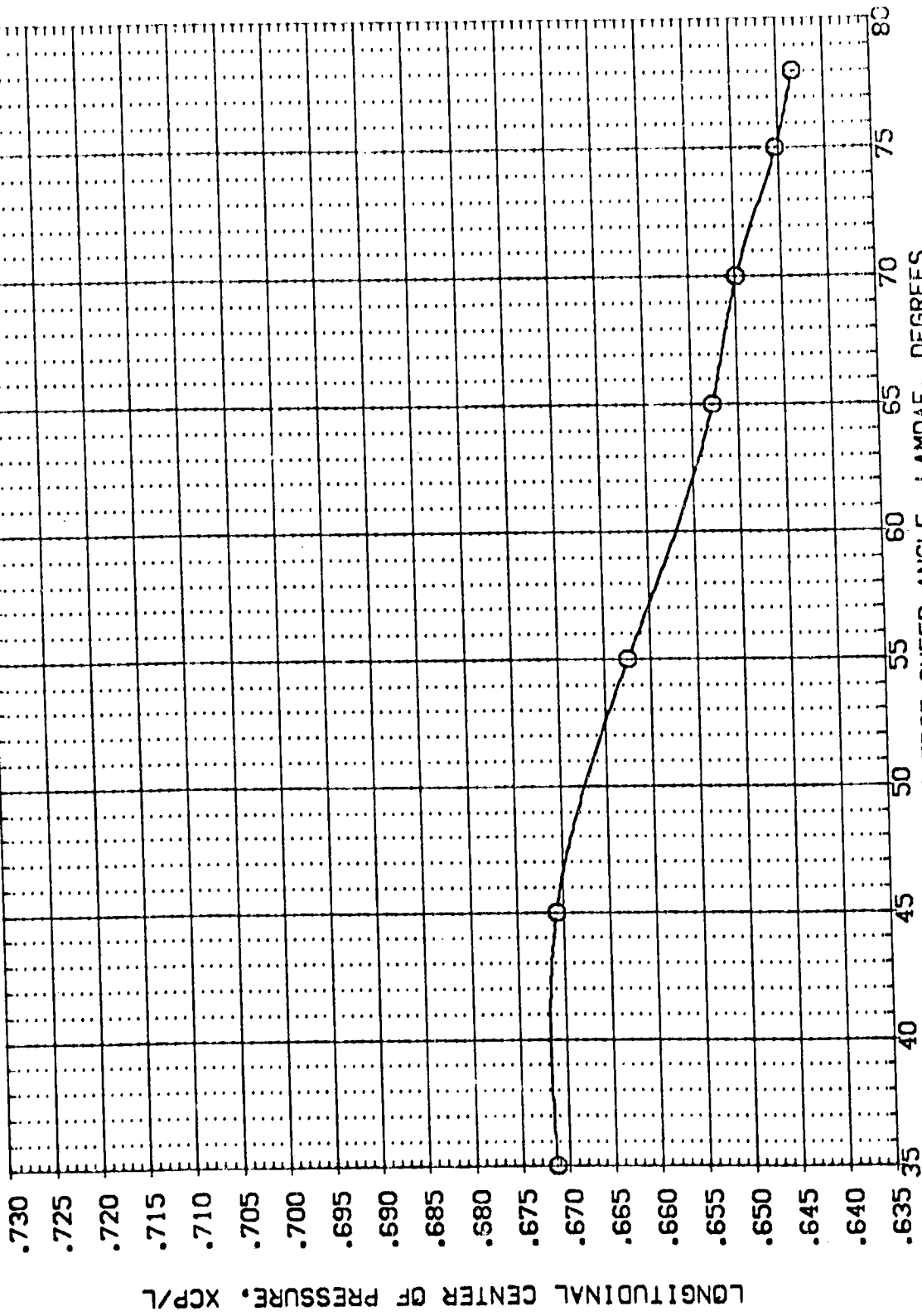
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	DATA	REFERENCE INFORMATION
○	8.000	WING BOELAP	BETA ELEVTR RUOFLR	LAMDAF LAMDAF LAMDAF	.000 .000 .000	CP5016 CP5018 CP5020 CP5022	SREF LREF BREF XPRP YPRP ZPRP SCALE
							173.1312 25.5100 20.9096 16.8633 .0000 .0000 .0188
							SO.IN. INCHES INCHES INCHES INCHES INCHES SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		DATA SOURCE		REFERENCE INFORMATION	
○	20.000	VINGND BOFLAP	.800	BETA	.000	DATASET	LAMDAF	SREF	173.1312	SO.IN.
			3.000	ELEVTR	.000	CP5016	45.000	LRP	25.5100	INCHES
			.000	RUDFLR	.000	CP5018	65.000	BREF	20.9056	INCHES
					.000	CP5020	75.000	XMRP	16.8633	INCHES
						CP5022	78.000	YMRP	.0000	INCHES
								ZMRP	.0000	SCALE
								SCALE	.0188	SCALE

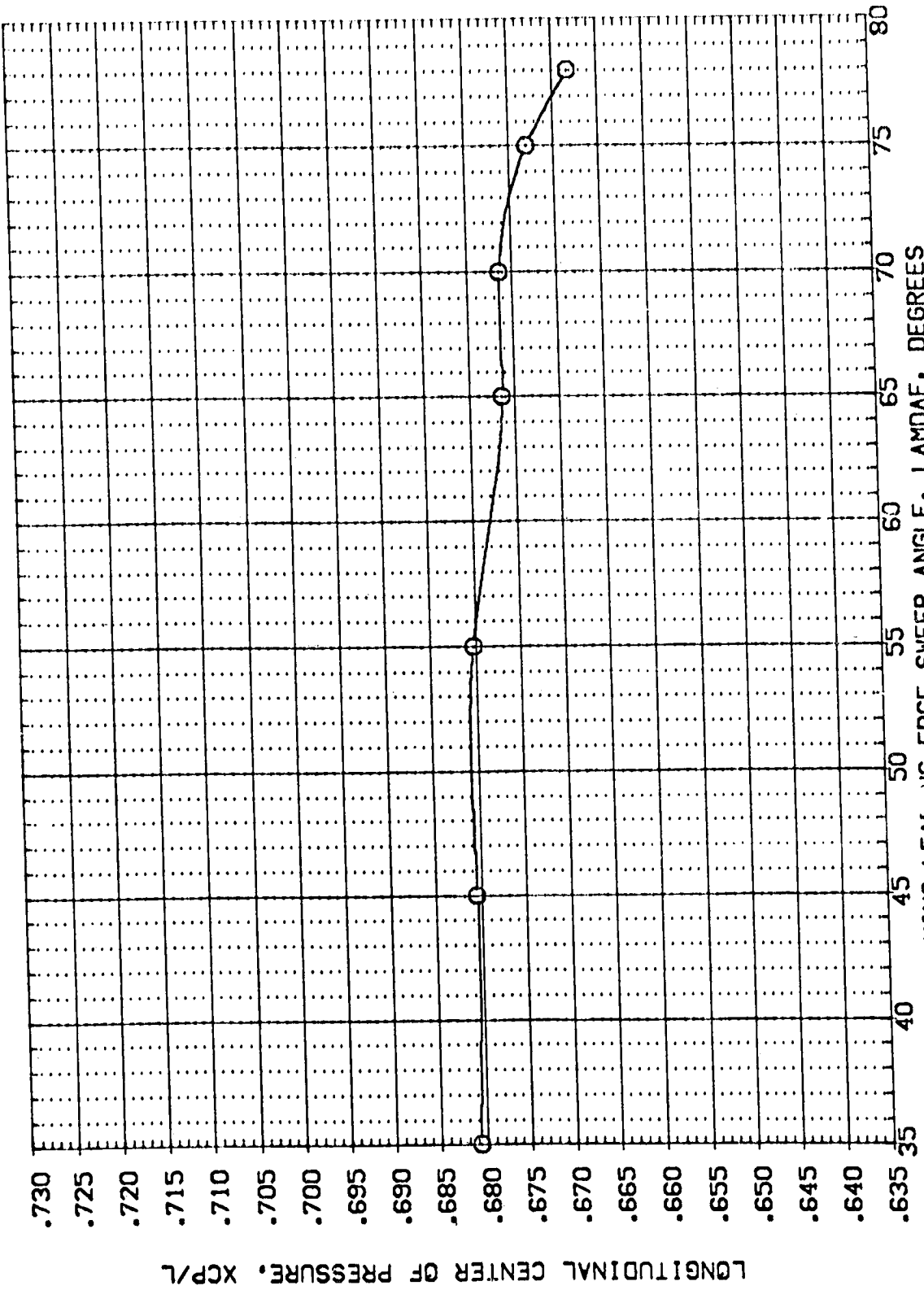


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
SYMBOL	ALPHA	MACH	BETA	SREF	SCALE
O	8.000	VINGAB	ELEVTR	LREF	INCHES
		BOFLAP	RUOFLR	BREF	INCHES
				XREF	INCHES
				YREF	INCHES
				ZREF	INCHES
				SCALE	SCALE
					0.188

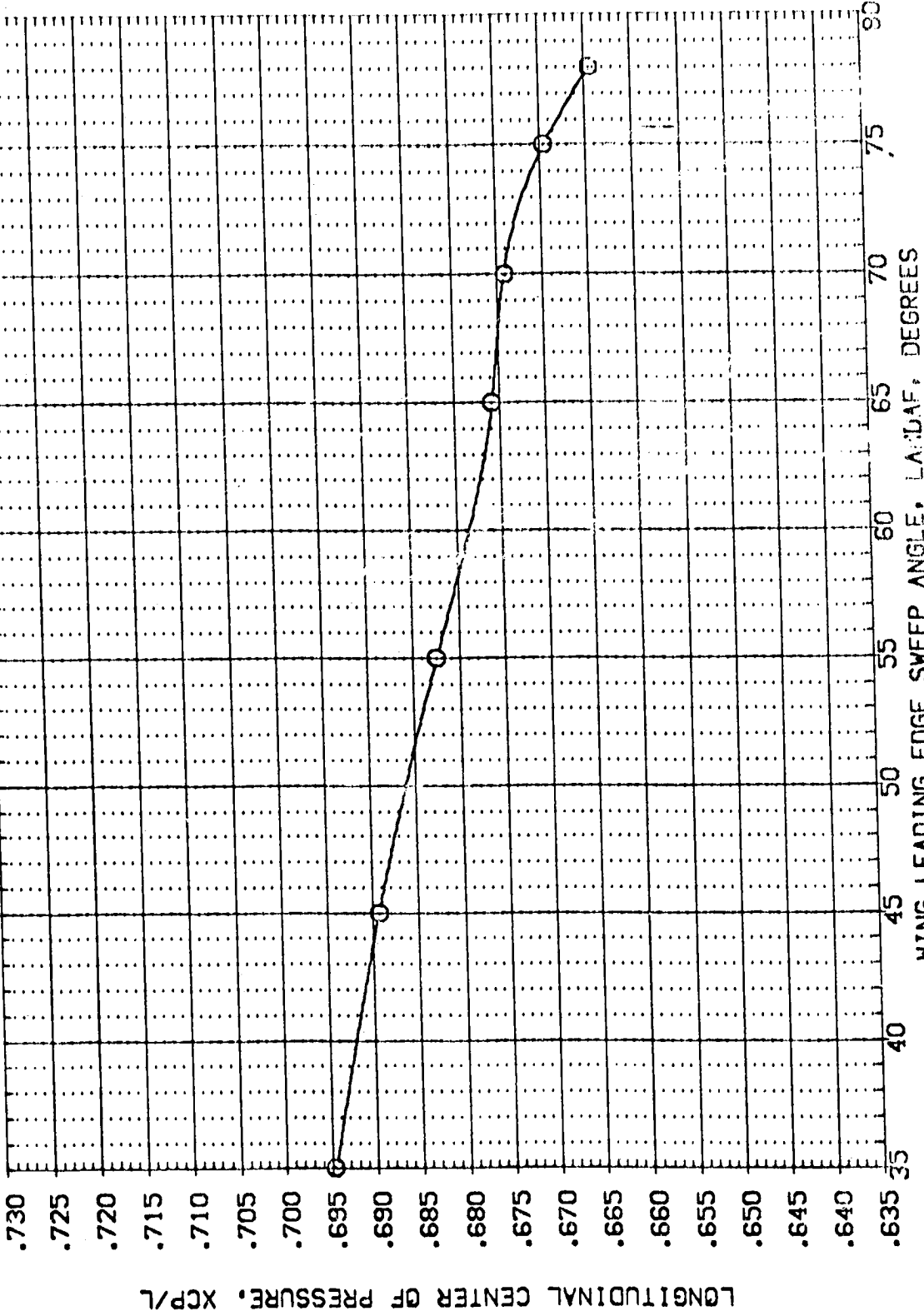


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL ALPHA MACH PARAMETRIC VALUES DATA SOURCE REFERENCE INFORMATION

○	16.000		.900 BETA	.000 DATASET	LAMDAF	SREF	50. IN.
			3.000 ELEVTR	.000 CP5016	45.000	LREF	25.5100
			.000 RUOFLR	.000 CP5018	65.000	BREF	20.9095
				.000 CP5020	75.000	XPRP	15.8633
				CP5022		YPRP	.0000
						ZPRP	.0000
						SCALE	.0188



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL ○

ALPHA 20.000

MACH
VINGNO
BOFLAP

PARAMETRIC VALUES
BETA
ELEVTR
RUOFLR

.000
.000
.000

DATA SOURCE

LAMDAF
35.000
55.000
70.000
78.000

DATASET
CP5016
CP5018
CP5020
CP5022

.000
.000
.000

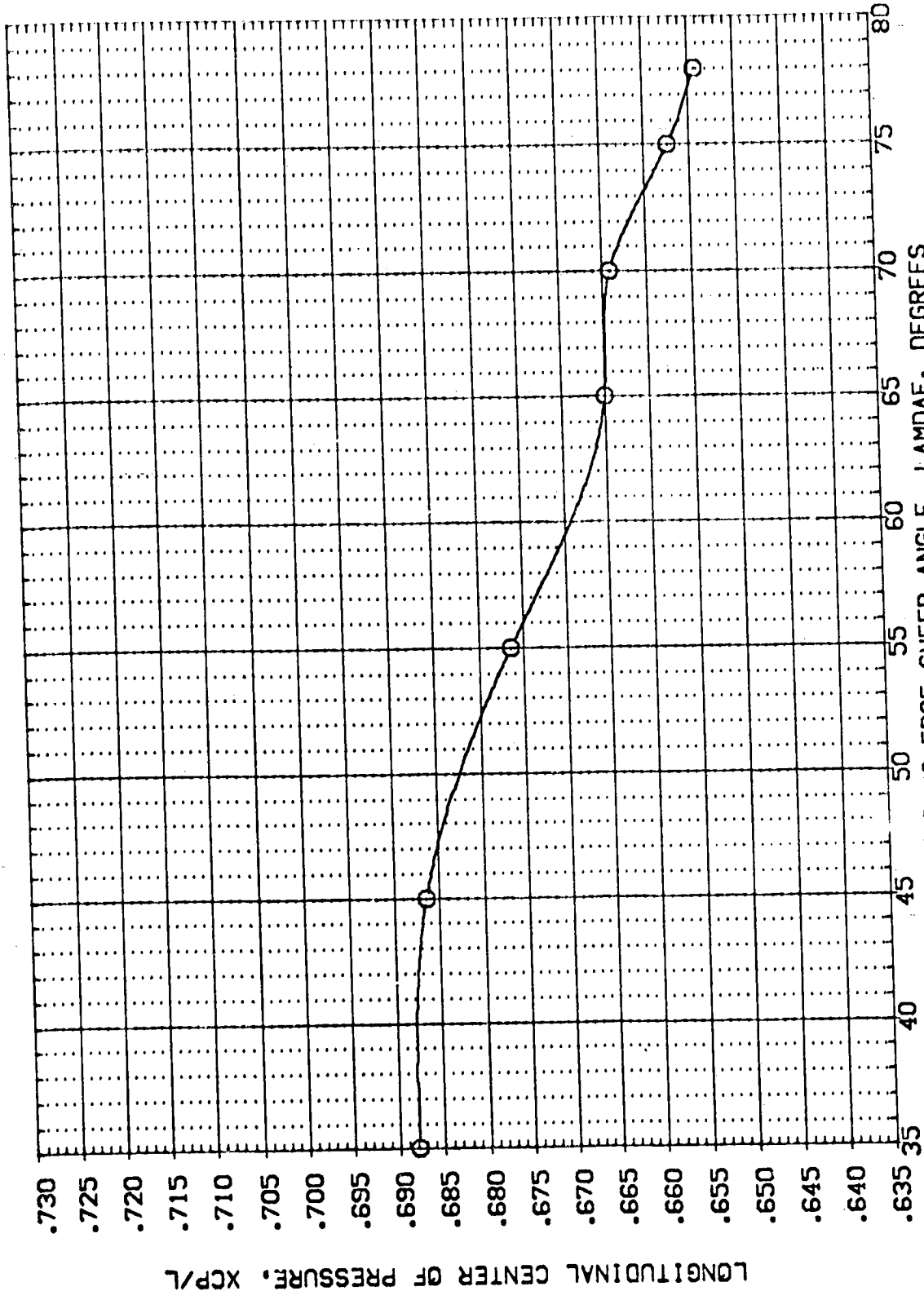
LAMDAF
45.000
65.000
75.000

DATASET
CP5017
CP5019
CP5021

REFERENCE INFORMATION

173.1312
25.5100
20.5025
16.8633
.0000
.0000
.0188

SO.IN.
INCHES
INCHES
INCHES
INCHES
INCHES
SCALE



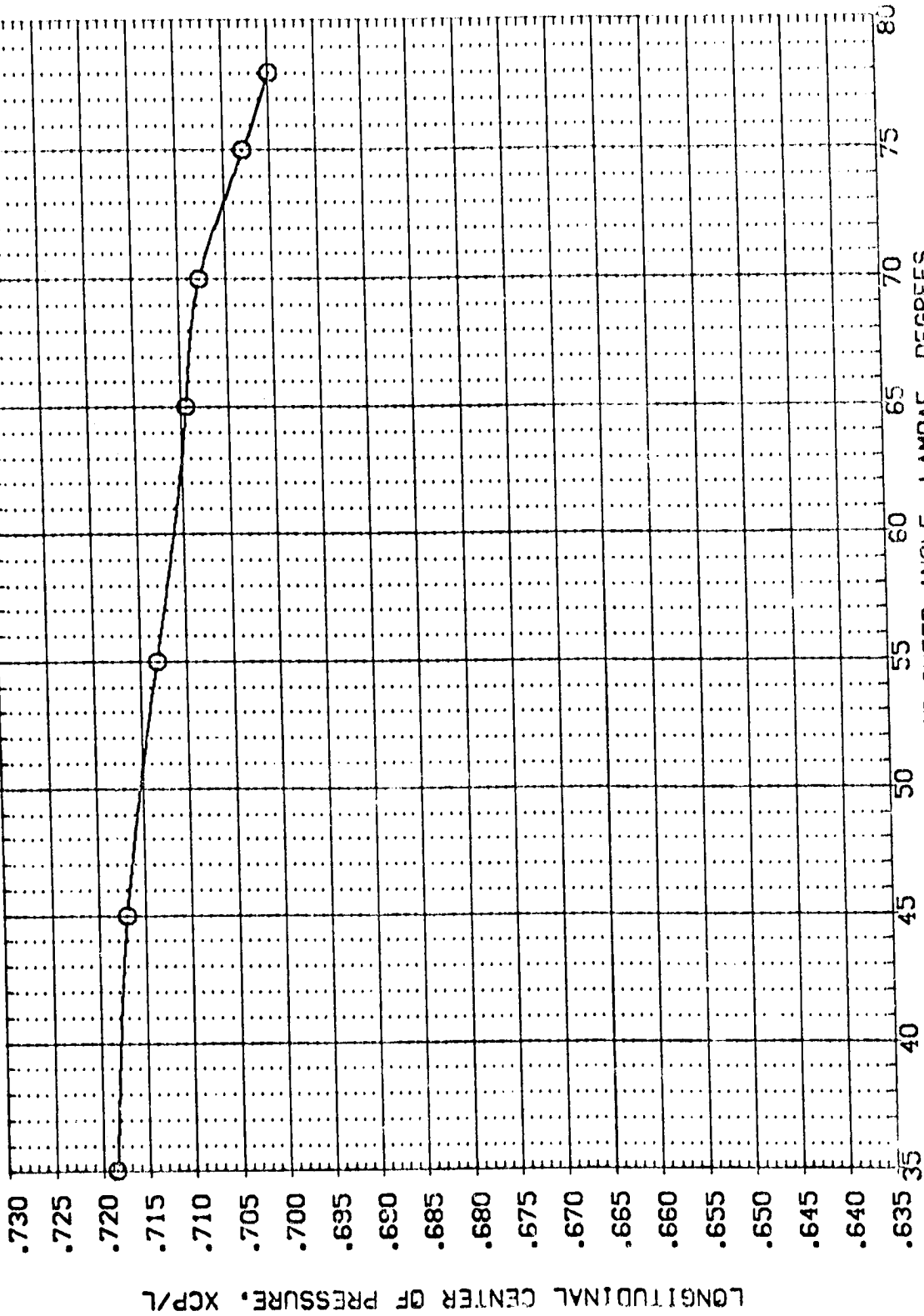
WING LEAD ANGLE SWEEP ANGLE LAMDAF DEGREES

CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
○	8.000	WINGNO BOFLAP	.980 BETA 3.000 ELEVTR .000 RUOFLR	.000 CP5016 .000 CP5018 .000 CP5020 CP5022	CP5017 CP5019 CP5021	45.000 55.000 75.000	LREF BREF XMRP YMRP ZMRP SCALE	173.1312 SQ. IN. 25.5100 INCHES 20.5056 INCHES 5.8633 INCHES .0000 INCHES .0000 INCHES .C:188

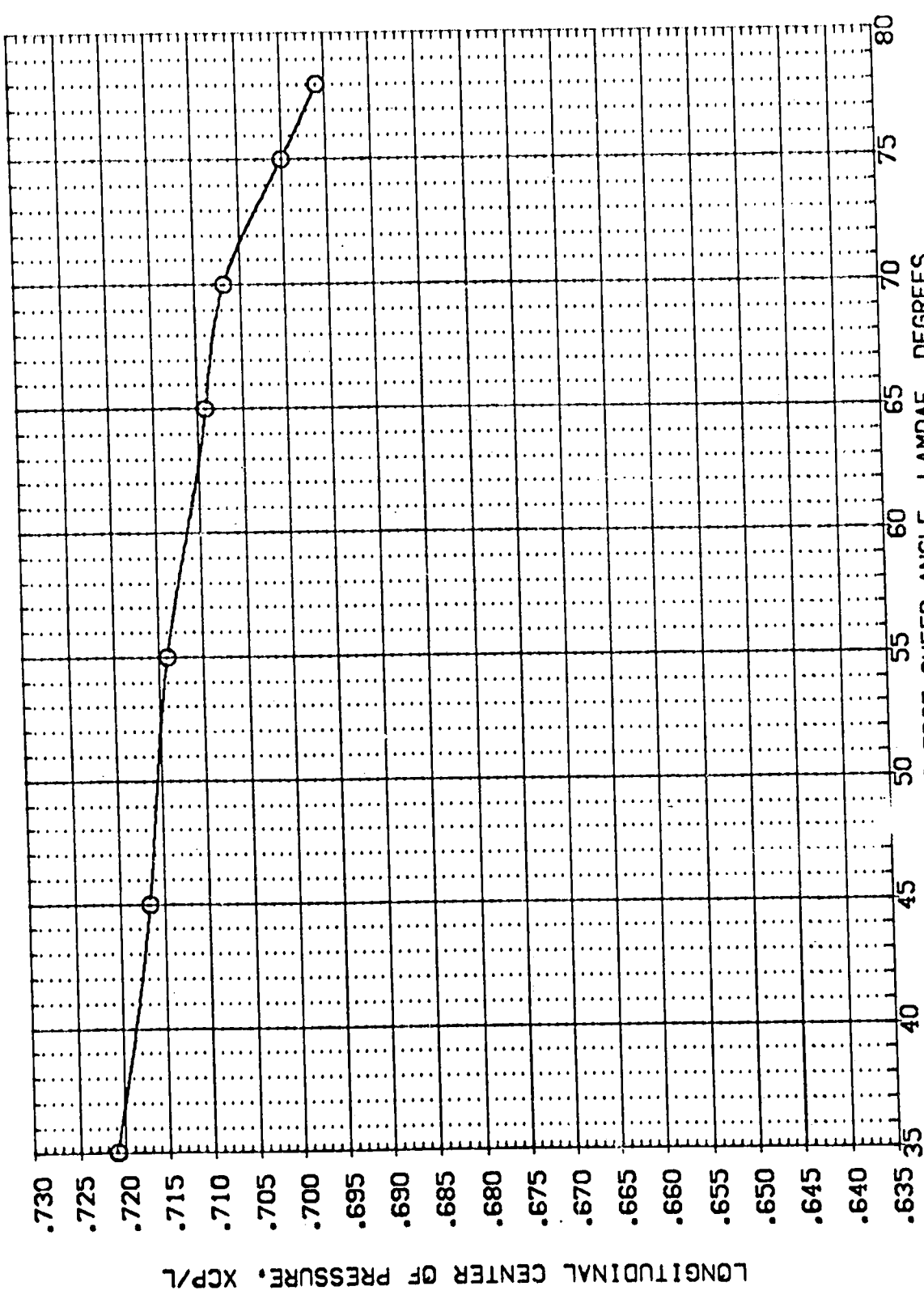


CENTER OF PRESSURE FOR MSC-049 WING (B W3 VFB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VF8)(CP5016)

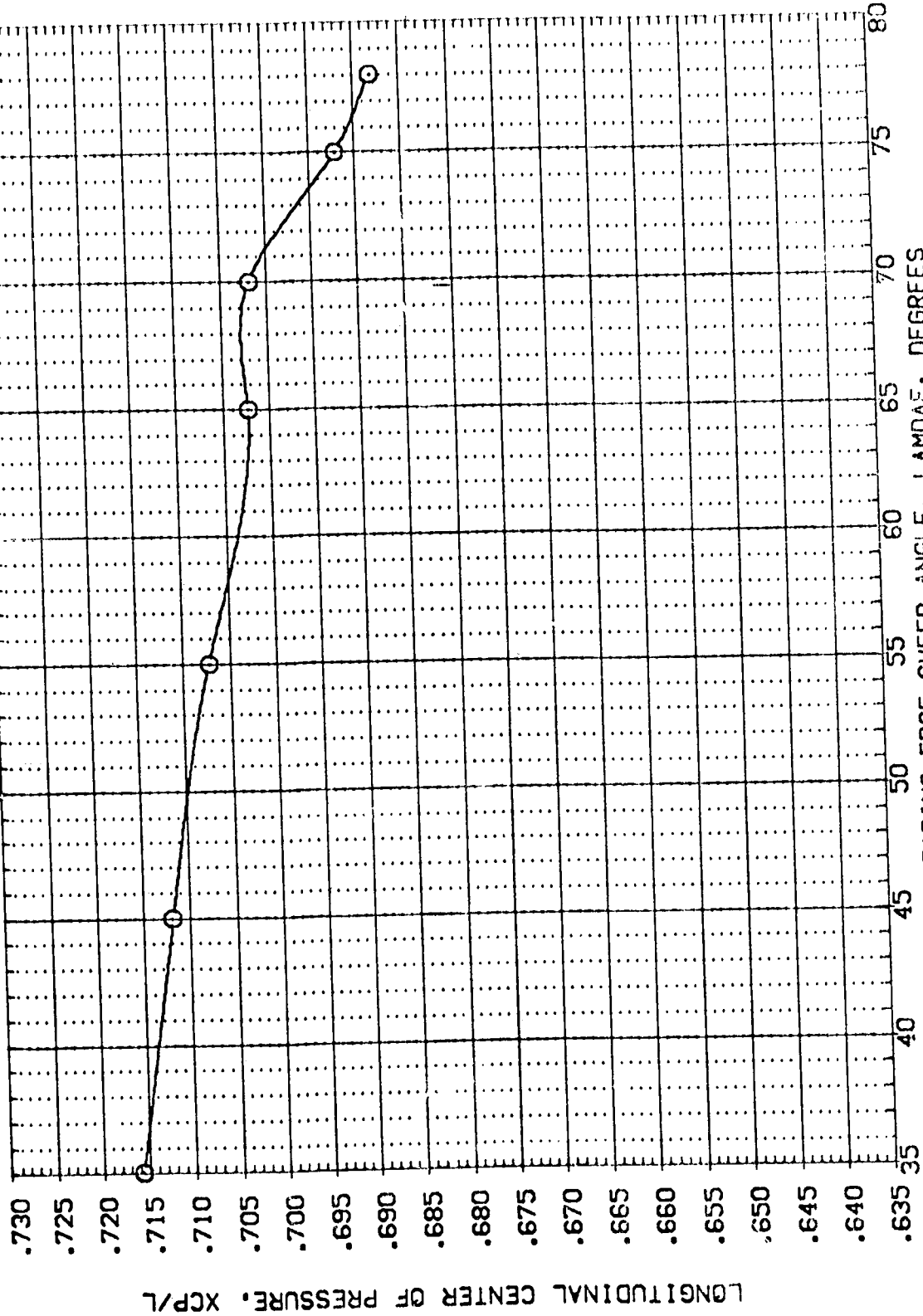
SYMBOL		ALPHA		MACH		PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION					
○	16.000					.980	BETA	.000	CP5016	35.000	LAMDAF	45.000	SREF	173.1312	SC.IN.
				3.000	ELEVTR	.000	RUOFLR	.000	CP5018	55.000	LREF	65.000	LREF	25.5100	INCHES
				.000				.000	CP5020	70.000	BREF	75.000	BREF	22.9096	INCHES
									CP5022	78.000	XMRP		XMRP	16.8633	INCHES
											ZMRP		ZMRP	.0000	INCHES
											SCALE		SCALE	.0188	SCALE



WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES
CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
O	20.000	WING BOFLAP	.980 BETA 3.000 ELEVTR .000 RUOFLR	.000 CP5016 .000 CP5018 .000 CP5020 CP5022	CP5017 CP5019 CP5021	45.000 65.000 75.000	LREF XMRP YMRP ZMRP SCALE	173.1312 SQ. IN. 29.5100 INCHES 20.9095 INCHES 16.8533 INCHES 0.0000 INCHES 0.0000 INCHES .0189 SCALE

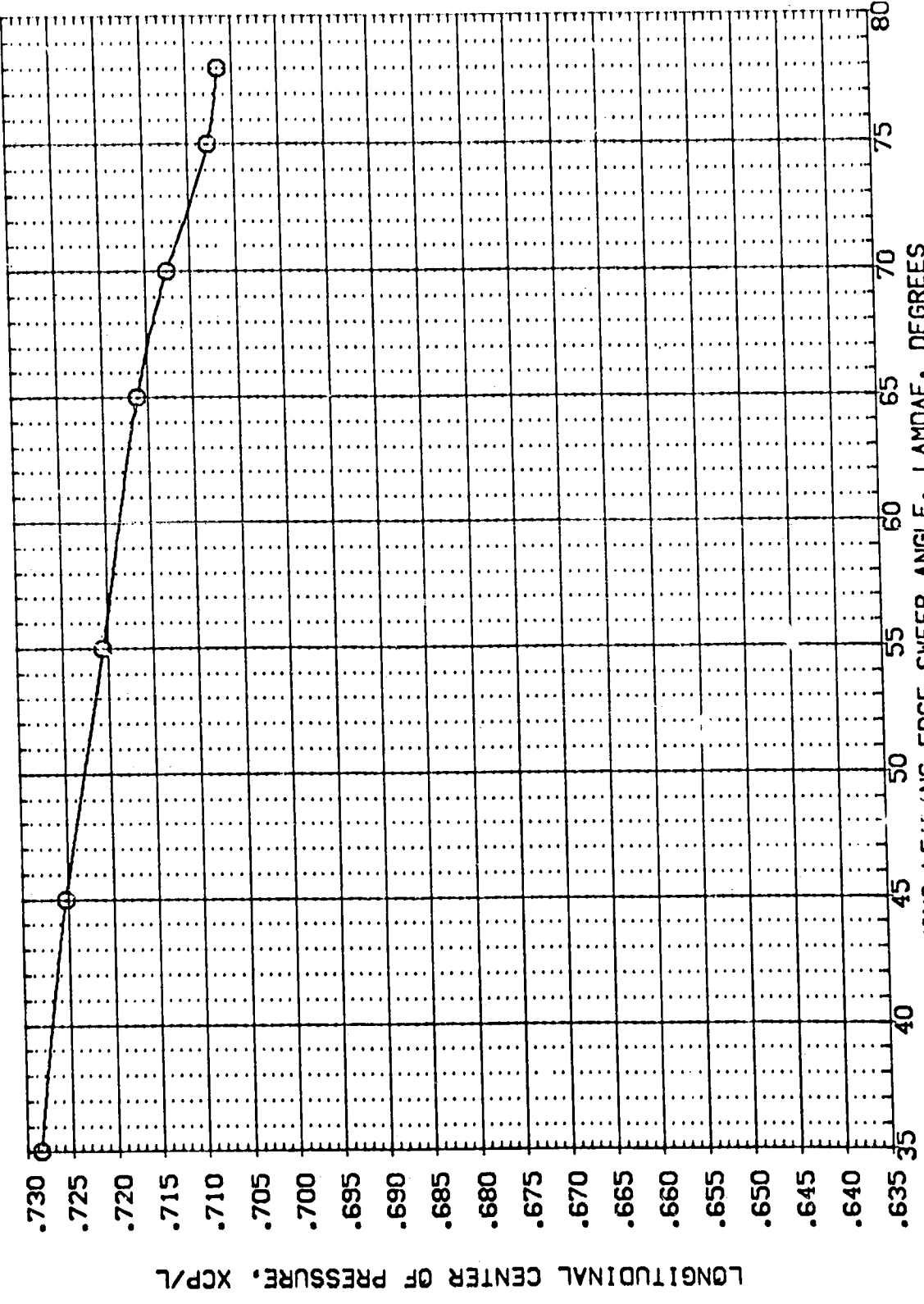


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-10C ORBITER(SHIPS) (BW3VFB) (CP5016)

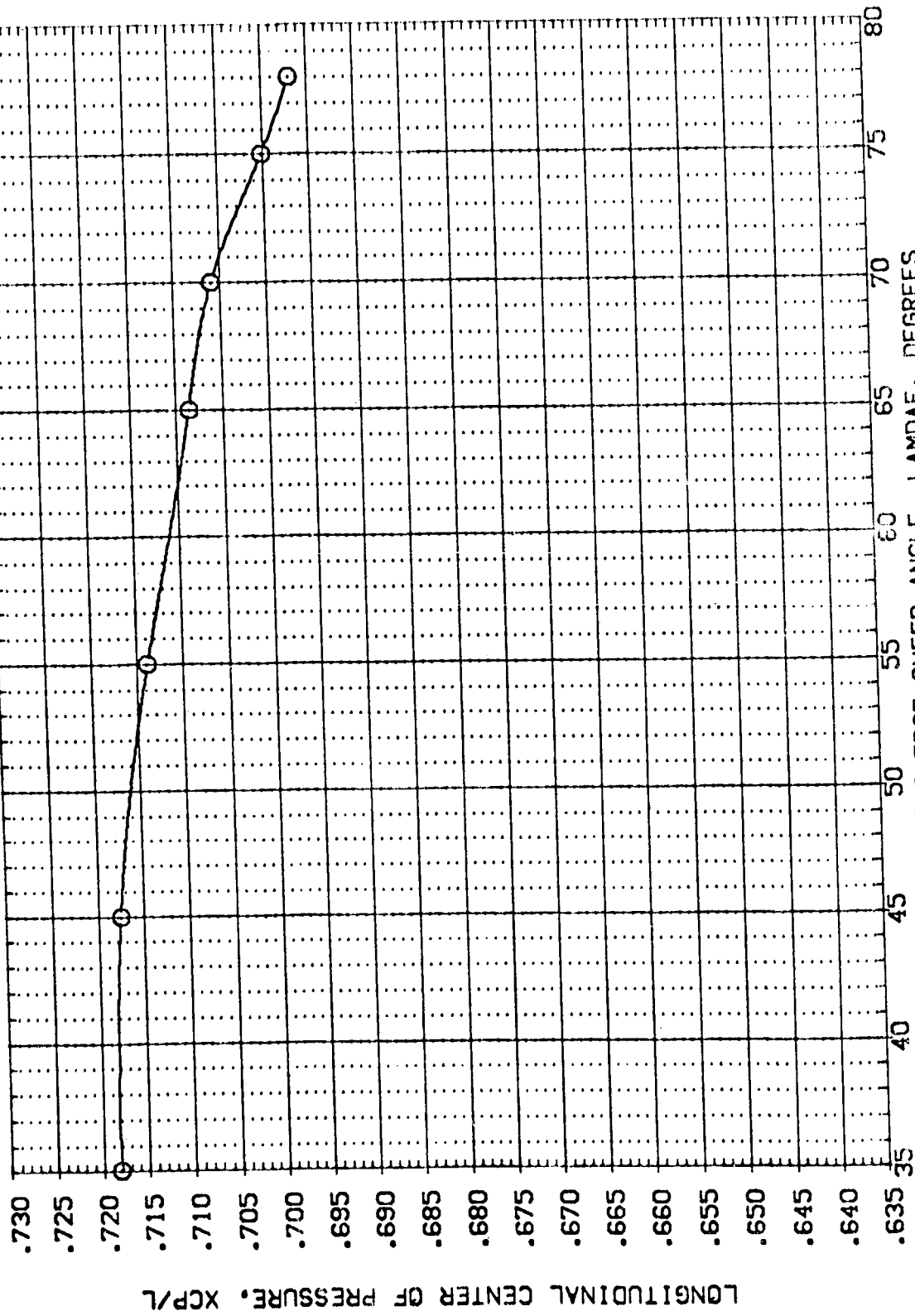
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION				
○	8.000	YINGND BOFLAP	BETA	ELEVTR	RUDFLR	.000	CP5016	CP5017	CP5019	CP5021	SREF	173.1312	SG, IN.
			1.200	3.000	.000	.000	CP5018	CP5019	CP5021		LREF	25.5100	INCHES
			.000			.000	CP5020	CP5022			BREF	20.9086	INCHES
							CP5022				XPRP	16.8633	INCHES
											YPRP	.0000	INCHES
											ZPRP	.0000	INCHES
											SCALE	.0188	SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SOURCE	REFERENCE INFORMATION
O	16.000	VINGND BOFLAP	BETA ELEVTR RUOFLR	.000 CP5016 .000 CP5018 .000 CP5020 CP5022	LAMDAF LREF LREF XMRP YMRP ZMRP SCALE	173.1312 26.5100 20.9096 16.8633 .0000 .0000 .0188
						SO. IN. INCHES INCHES INCHES INCHES INCHES SCALE

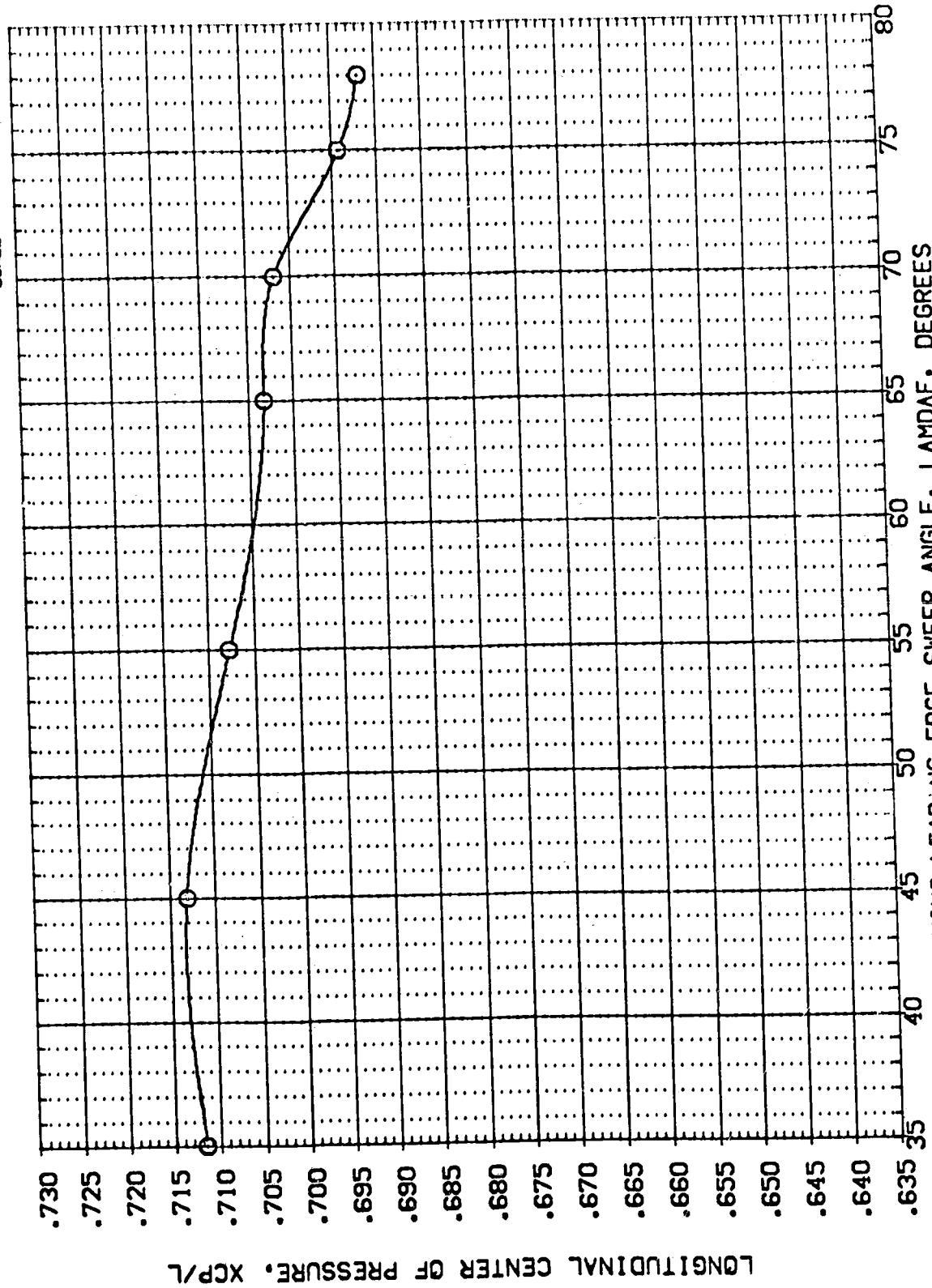


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	20.000	WINGNG BOFLAP	1.20'	BETA	.000	DATASET	LAMDAF	SREF
			3.000	ELEVTR	.000	CP5016	45.000	173.1312
			.000	RUOFLR	.000	CP5018	65.000	25.5100
					.000	CP5019	75.000	20.5096
						CP5021		16.8633
						CP5020		.0000
						CP5022		.0000
								.0000
								.0188
								SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

APPENDIX
TABULATED SOURCE DATA

PLOTTED DATA TABULATIONS ARE AVAILABLE
FROM THE DMS ON REQUEST.

DATE 07 JUL 75

TABLATED SOURCE DATA-LARC 644

(RP5001) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMVFB)

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 29.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 53.200 ELEVTR = .000
 BDFLAT = .000 RUFLR = .000

RUN NO. 90/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.037	-.00143	-.07216	.01919	-.00133	-.00345	.00124	-.00290	-.07143	.02174	-3.28590
.350	.030	.00214	.02058	.02179	-.00279	-.00325	.00080	-.00606	.02057	.02180	.94331
.350	2.102	.00392	.10702	.01996	-.00406	-.00283	.00033	-.00665	.10622	.02387	4.45034
.350	4.203	.00575	.20310	.01455	-.00507	-.00293	.00015	-.00847	.20149	.02939	6.85469
.350	6.273	.00601	.29788	.00552	-.00594	-.00289	-.00001	-.00824	.29549	.03804	7.76848
.350	8.343	.00723	.39475	-.00442	-.00770	-.00283	-.00008	-.00968	.39122	.05290	7.39503
.350	10.432	.00815	.50536	-.01274	-.01029	-.00275	-.00011	-.01091	.49931	.07898	6.32199
.350	12.499	.00839	.60090	-.01663	-.01234	-.00198	-.00048	-.01364	.59026	.11382	5.18611
.350	14.610	.00998	.69611	-.01810	-.01367	-.00295	-.00037	-.01555	.67817	.15807	4.29036
.350	16.656	.00893	.75813	-.01344	-.01309	-.00716	-.00031	-.01153	.73017	.20442	3.57198
.350	18.715	.01240	.81409	-.00821	-.01249	-.00452	-.00065	-.02053	.77368	.25344	3.05268
.350	20.742	.01080	.85620	-.00706	-.01283	-.00475	-.00062	-.01573	.80073	.30319	2.64104
.350	GRADIENT	.00112	.04388	-.00276	-.00060	.00010	-.00018	-.00083	.04350	.00121	1.63106

RUN NO. 89/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.117	-.00373	-.07614	.01805	-.00227	-.00350	.00141	-.00260	-.07542	.02085	-3.61770
.800	.056	.00364	.02737	.02036	-.00509	-.00308	.00086	-.00606	.02735	.02039	1.34148
.800	2.202	.00830	.13086	.01868	-.00746	-.00289	.00077	-.00912	.13095	.02369	5.48913
.800	4.359	.00945	.23845	.01309	-.00911	-.00311	.00056	-.00914	.23677	.03117	7.59541
.799	6.553	.01280	.36084	.00636	-.01194	-.00330	-.00026	-.00845	.35775	.04750	7.53166
.799	8.697	.01316	.46040	.00927	-.01345	-.00439	-.00042	-.00813	.45372	.07869	5.76680
.799	10.814	.01249	.52164	.01608	-.01237	-.00492	.00137	-.01471	.50936	.11366	4.48140
.799	12.980	.01574	.61987	.01554	-.01324	-.00224	.00092	-.01547	.60054	.15437	3.69030
.799	15.047	.01439	.66589	.02375	-.01092	-.00452	.00042	-.01258	.63689	.19582	3.25247
.799	17.160	.02051	.73640	.02727	-.01118	-.00271	.00074	-.01866	.69557	.24333	2.85860
.799	19.285	.02393	.79404	.03341	-.00942	-.00234	.00027	-.01967	.73845	.29379	2.51352
.800	21.358	.02341	.83047	.03807	-.00709	-.00387	-.00136	-.01309	.75957	.33792	2.24780
.800	GRADIENT	.00205	.04854	-.00277	-.00106	.00006	-.00012	-.00102	.04817	.00159	1.75189

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (SMAVFB) (RP5001) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 53.200 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

RUN NO. 88/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.157	-.00427	-.08343	.02504	-.00498	-.00288	.00186	-.00456	-.08243	.02817	-2.92635
.899	.015	.00155	-.02223	.02732	-.00685	-.00262	.00152	-.00696	.02224	.02733	.81403
.900	2.259	.00781	1.4167	.02606	-.01336	-.00208	.00134	-.01029	1.4056	.03150	4.46173
.900	4.399	.00973	.25366	-.01486	-.00216	-.00216	.00153	-.01227	.25126	.04100	6.12868
.900	6.594	.01239	.35391	.02161	-.01357	-.00473	.00100	-.01195	.34914	.06168	5.66072
.899	8.807	.01377	.45618	.02324	-.01475	-.00017	.00177	-.01589	.44724	.09281	4.81872
.899	10.947	.01353	.54804	.02851	-.01763	-.00348	.00154	-.01491	.53267	.13200	4.03553
.900	13.101	.01775	.64937	.03042	-.02054	-.00159	.00112	-.01610	.62557	.17683	3.53776
.899	15.247	.01763	.71696	.03660	-.01988	-.00518	-.00015	-.01118	.68213	.22378	3.04818
.900	17.387	.02120	.78738	.04285	-.01918	-.00302	.00060	-.01662	.73859	.27618	2.67429
.900	19.487	.02414	.84652	.04854	-.01782	-.00370	-.00053	-.01436	.78184	.32815	2.38262
.900	21.588	.02510	.89883	.05296	-.01705	-.00431	-.00175	-.01048	.81629	.37995	2.14839
GRADIENT		.00221	.05172	-.00053	-.00156	.00012	-.00005	-.00121	.05120	.00195	1.40913

RUN NO. 87/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.187	-.00713	-.12568	.06217	.00680	-.00349	.00267	-.00626	-.12322	.06692	-1.84126
.980	.011	.00010	-.00081	.06458	-.00113	-.00303	.00253	-.01001	-.00082	.06457	-.01277
.980	2.197	.00420	.11070	.05726	-.00757	-.00237	.00251	-.01245	.11059	.06755	1.63713
.980	4.417	.00671	.25091	.05940	-.01611	-.00178	.00255	-.01398	.24559	.07855	3.12659
.980	6.646	.00829	.40249	.05660	-.02719	-.00126	.00266	-.01538	.39323	.10280	3.82514
.980	8.875	.00977	.54164	.05542	-.03638	-.00051	.00311	-.01808	.52661	.13832	3.80716
.981	11.078	.01181	.67606	.05707	-.04511	-.00311	.00318	-.01961	.65250	.18591	3.50985
.980	13.308	.01757	.82375	.05806	-.05793	-.00034	.00278	-.02162	.78326	.24612	3.20280
.980	15.482	.02504	.94248	.06016	-.06450	.00152	.00202	-.02333	.89222	.30956	2.88220
.980	17.670	.03078	1.01667	.06209	-.06037	.00120	.00246	-.02855	.94886	.36775	2.58287
.981	19.813	.03023	1.06382	.06124	-.05371	-.00185	.00194	-.02665	.98009	.41820	2.34358
.981	21.948	.02238	1.10537	.06487	-.04787	-.00273	-.00251	-.02541	1.00101	.47332	2.11488
GRADIENT		.00238	.05654	-.00044	-.00341	.00026	-.00002	-.00116	.05537	.00172	.75242



REFERENCE DATA PARAMETRIC DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 1.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 53.200 ELEVTR = .000
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUCFLR = .000
 SCALE = .0188 SCALE

RUN NO. 86/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.172	-.00690	-.10960	.06929	.00647	-.00193	.00196	-.00413	-.10689	.07339	-1.45648
1.200	.030	.00122	.01102	.07217	-.00328	-.00141	.00177	-.00759	.01099	.07218	.15222
1.200	2.217	.00609	.12540	.07187	-.01188	-.00117	.00175	-.01002	.12252	.07666	1.59822
1.200	4.440	.00774	.25631	.06950	-.02194	-.00096	.00183	-.01121	.25016	.08913	2.80663
1.200	6.651	.00901	.38434	.06655	-.03150	-.00066	.00196	-.01241	.37404	.11061	3.38159
1.200	8.894	.01123	.51075	.06428	-.04028	-.00049	.00207	-.01402	.49467	.14247	3.47201
1.200	11.115	.01360	.63148	.06302	-.04765	-.00034	.00217	-.01571	.60748	.18358	3.30913
1.200	13.344	.01677	.74464	.06323	-.05308	-.00034	.00244	-.01850	.70994	.23339	3.04188
1.200	15.537	.02066	.85550	.06234	-.05864	-.00031	.00231	-.02015	.80754	.28921	2.79220
1.201	17.762	.02345	.95754	.06249	-.06136	-.00017	.00245	-.02233	.89283	.35162	2.53916
1.200	19.957	.02678	1.03985	.06170	-.05948	-.00065	.00244	-.02434	.95634	.41292	2.31608
1.200	22.140	.02650	1.11638	.06131	-.05750	-.00000	.00280	-.02581	1.01096	.47752	2.11712
	GRADIENT	.00221	.05504	.00001	-.05426	.00014	-.00002	-.00107	.05371	.00235	.64628

REFERENCE DATA

SREF = 175.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

MACH = 16.8633 INCHES
YMRP = 0.00 INCHES
ZMRP = 0.0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 53.200 ELEVTR = .000
SDFLAP = .000 RUOFLR = .000

RUN NO. 90/ 0 RNVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.037	165.89512	-.04272	-.06672	-.10801	-.03438
.350	.030	167.38298	-.04476	-.06853	-.10899	-.03506
.350	2.102	167.38298	-.04476	-.07043	-.10851	-.03410
.350	4.203	167.19562	-.04673	-.07384	-.11150	-.03509
.350	6.273	166.82180	-.04923	-.07830	-.11510	-.03851
.350	8.343	166.72798	-.05262	-.08503	-.12189	-.04333
.350	10.432	166.91562	-.05929	-.09639	-.12799	-.05286
.350	12.499	166.72798	-.07186	-.11561	-.14926	-.06861
.350	14.610	167.00919	-.08663	-.14260	-.17875	-.08297
.350	16.656	166.91562	-.11838	-.19184	-.21914	-.13903
.350	18.715	166.72869	-.15170	-.23839	-.26309	-.16602
.350	20.742	166.91585	-.21351	-.32211	-.34868	-.25871
GRADIENT		.18849	-.07058	-.09112	-.09048	-.09006

RUN NO. 89/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.117	311.61795	-.01183	-.04461	-.06613	-.01768
.800	.055	311.34979	-.01208	-.04361	-.06437	-.01716
.800	2.202	311.42313	-.01388	-.04462	-.05895	-.01870
.800	4.359	311.42313	-.01568	-.04769	-.06461	-.01896
.799	6.553	311.08771	-.02057	-.05489	-.07392	-.02384
.799	8.697	310.80768	-.03541	-.07876	-.09974	-.04544
.799	10.814	311.22191	-.07700	-.11630	-.14878	-.06543
.799	12.980	311.21564	-.10870	-.15751	-.19072	-.10574
.799	15.047	311.15482	-.18397	-.23792	-.27774	-.18373
.799	17.160	310.87382	-.24010	-.29731	-.33387	-.23539
.799	19.285	311.22191	-.33338	-.39272	-.44107	-.32270
.800	21.358	311.28899	-.41755	-.47299	-.53564	-.40067
GRADIENT		-.02377	-.10062	-.09047	-.09046	-.09025

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (RW1VFB)

(RP5P01) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 53.200 ELEVTR = .000
 BPFLAP = .000 RUOFLR = .000

RUN NO. 88/ D RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.157	355.25213	-.00690	-.02043	-.01394	-.01743
.899	.015	354.89518	-.01433	-.02359	-.01937	-.02217
.900	2.209	354.96868	-.02495	-.03188	-.03132	-.03230
.900	4.399	355.15618	-.01229	-.05205	-.04596	-.01766
.900	6.594	355.01903	-.03149	-.08012	-.08928	-.04647
.899	8.807	355.07371	-.06718	-.10680	-.11836	-.05344
.899	10.940	355.01421	-.11259	-.19276	-.18515	-.12750
.900	13.101	355.37100	-.15580	-.23067	-.22688	-.14177
.899	15.240	354.95470	-.23506	-.33147	-.33543	-.26237
.900	17.387	355.20178	-.33197	-.39471	-.37938	-.35173
.900	19.487	355.32982	-.43115	-.49724	-.48719	-.44313
.900	21.588	355.13320	-.51568	-.58341	-.59592	-.51065
GRADIENT		-.00968	-.00095	-.00472	-.00494	-.00049

RUN NO. 87/ D RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.187	385.29378	-.14197	-.15771	-.15141	-.15351
.980	.011	385.29378	-.14613	-.15771	-.16056	-.15953
.980	2.197	385.29378	-.15050	-.15564	-.17137	-.16637
.980	4.417	385.33967	-.16092	-.16351	-.18385	-.17789
.980	6.646	384.97279	-.18736	-.18791	-.21318	-.20456
.980	8.875	385.38556	-.22981	-.22863	-.25263	-.24435
.981	11.078	385.56899	-.27620	-.27347	-.30081	-.29244
.980	13.308	385.40072	-.30885	-.30280	-.34195	-.33224
.980	15.482	385.23272	-.34681	-.34216	-.38215	-.37090
.980	17.670	385.03387	-.42248	-.42456	-.44672	-.43656
.981	19.813	385.47780	-.49928	-.51014	-.51092	-.50727
.981	21.948	385.52315	-.57739	-.57947	-.60355	-.59257
GRADIENT		.00627	-.00078	-.00070	-.00491	-.00365

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (SMVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0189 SCALE

BETA = .000 WINGNO = 1.000
 LANDAF = 53.200 ELEVTR = .000
 SSFLAP = .000 RUDFLR = .000

FUN NO. 86/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CPE2	CFC1	CFC2
1.200	-2.172	440.42224	-2.20925	-2.21769	-2.21392	-2.21049
1.200	.030	440.62362	-2.22689	-2.23504	-2.23045	-2.22535
1.200	2.217	440.59476	-2.23004	-2.22965	-2.23849	-2.23537
1.200	4.440	440.49398	-2.23299	-2.22478	-2.24432	-2.24245
1.200	6.651	440.59476	-2.24023	-2.24472	-2.25485	-2.25296
1.200	8.894	440.49398	-2.25517	-2.25010	-2.27050	-2.26876
1.200	11.115	440.52303	-2.28765	-2.27536	-2.29499	-2.29301
1.200	13.344	440.53073	-3.0199	-2.29642	-3.1617	-3.1560
1.200	15.537	440.53073	-3.1455	-3.2771	-3.2762	-3.3065
1.201	17.762	440.67996	-3.4903	-3.6521	-3.5732	-3.5993
1.200	19.957	440.56569	-3.9135	-3.9188	-3.9849	-3.9539
1.200	22.140	440.59476	-4.3079	-4.2762	-4.4663	-4.4412
	GRADIENT	.00841	-.00332	-.00281	-.00450	-.00481

REFERENCE DATA
 SREF = 175.7376 SA.IN. XMRP = 16.8633 INCHES BETA = .000 WGNOMO = 1.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANCAF = 60.000 ELEVTR = .000
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 115/ 0 RVL = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.348	-2.056	-.00079	-.07143	-.01969	-.00145	-.00336	.00126	-.00386	-.07067	.02224	-3.17837
.348	.008	.00235	.01881	.02202	-.00269	-.00284	.00079	-.00636	.01880	.02272	.85450
.348	2.991	.00507	.10706	.02030	-.00390	-.00262	.00014	-.00755	.0625	.02419	4.39245
.348	4.157	.00538	.19730	.01509	-.00472	-.00241	.00006	-.00769	.19569	.02935	6.66664
.348	6.235	.00629	.29058	.00635	-.00527	-.00285	.00004	-.00890	.28817	.03788	7.60746
.348	8.321	.00641	.39361	-.00416	-.00706	-.00224	-.00012	-.00795	.39007	.05284	7.38163
.348	10.417	.00728	.50234	-.01272	-.00972	-.00222	-.00021	-.00975	.49636	.07832	6.33747
.348	12.488	.00829	.60172	-.01414	-.01153	-.00175	.00034	-.01306	.59055	.11631	5.07743
.348	14.555	.00981	.67703	-.01081	-.01084	-.00176	.00069	-.01671	.65802	.15968	4.12074
.348	16.613	.01046	.75051	-.00822	-.01238	-.00195	.00125	-.02003	.72153	.20670	3.49067
.347	18.668	.00922	.80295	-.00402	-.01238	-.00508	.00121	-.01827	.76200	.25320	3.00946
.347	20.716	.01127	.87408	-.00077	-.01351	-.00142	.00137	-.02210	.81784	.30847	2.65131
GRADIENT		.00102	.04316	-.00075	-.00053	-.00015	-.00021	-.00061	.04278	.00113	1.59608

RUN NO. 114/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.115	-.00315	-.07377	.01847	-.00256	-.00301	.00121	-.00246	-.07304	.02118	-3.44802
.801	.026	.00326	.02597	.02061	-.00484	-.00273	.00079	-.00548	.02596	.02062	1.25923
.799	2.180	.00765	.12735	.01911	-.00691	-.00265	.00057	-.00787	.12653	.02394	5.26569
.800	4.350	.01039	.23776	.01356	-.00875	-.00298	.00051	-.00965	.23604	.03155	7.48084
.799	6.518	.01283	.35921	.00665	-.01118	-.00297	-.00018	-.00877	.35216	.04693	7.50357
.801	8.675	.01140	.44572	.01018	-.01176	-.00209	.00046	-.01025	.43909	.07728	5.68142
.799	10.798	.01288	.53398	.01409	-.01338	-.00275	.00064	-.01214	.52189	.11388	4.58274
.800	12.932	.01574	.60472	.01661	-.01208	-.00100	.00039	-.01730	.64866	.15152	3.86513
.800	15.085	.01452	.67809	.02295	-.01159	-.00481	-.00015	-.01041	.64885	.19830	3.27214
.799	17.182	.01909	.75041	.02591	-.00984	-.00368	.00031	-.01587	.70927	.24643	2.87317
.800	19.264	.01781	.79726	.03020	-.00721	-.00511	-.00006	-.01361	.74266	.29153	2.54743
.800	21.375	.02193	.84277	.03507	-.00423	-.00384	-.00005	-.01590	.77201	.33982	2.27183
GRADIENT		.00209	.04808	-.00076	-.00096	-.00001	-.00011	-.00111	.04770	.00160	1.70753

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (841VFB)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.3100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAF = .000 RUDFLR = .000

RUN NO. 113/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALP. A	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.988	-2.161	-.00406	-.08077	.02377	-.00489	-.00298	.00179	-.00440	-.07982	.02680	-2.97844
.990	-.015	.00246	.01940	.02781	-.00810	-.00232	.00129	-.00664	.01941	.02780	-.69819
.999	2.184	.00799	.13399	.02370	-.01196	-.00228	.00122	-.00993	.13291	.03079	4.31725
.990	4.391	.00982	.25117	.02196	-.01381	-.00222	.00129	-.01141	.24875	.04112	6.04923
.990	5.615	.01314	.35129	.02174	-.01270	-.00500	.00083	-.01176	.34645	.06207	5.58191
.990	8.759	.01313	.45867	.02135	-.01522	-.00354	.00094	-.01222	.45007	.09095	4.94863
.990	10.917	.01313	.54319	.02875	-.01691	-.00282	.00162	-.01493	.13110	.17201	3.52158
.999	13.064	.01780	.62897	.03063	-.01702	-.00071	.00115	-.01626	.60576	.22224	3.03531
.999	15.212	.01750	.71354	.03628	-.01854	-.00436	.00006	-.01191	.67901	.27564	2.71266
.990	17.383	.02060	.79591	.03967	-.01752	-.00408	.00000	-.01387	.74771	.32926	2.40926
.990	19.513	.02110	.85768	.04537	-.01528	-.00396	.00037	-.01583	.79326	.36205	2.16181
.990	21.618	.02169	.90857	.05089	-.01387	-.00300	.00100	-.01892	.82591	.40211	1.40368
	GRADIENT	.00216	.05082	-.00035	-.00140	.00011	-.00007	-.00111	.05031	.00211	

RUN NO. 112/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.180	-.00771	-.11955	.06281	-.00612	-.00335	.00274	-.00618	-.11718	.06732	-1.73924
.981	.001	-.00159	-.00080	.06432	-.00112	-.00263	.00246	-.00866	-.00000	.06432	-.01242
.980	2.178	.00765	.11259	.06229	-.00727	-.00206	.00250	-.01198	.11014	.06653	1.65564
.980	4.398	.00645	.25064	.05932	-.01583	-.00142	.00261	-.01409	.24536	.07837	3.13086
.980	6.635	.00836	.40035	.05582	-.02682	-.00096	.00259	-.01516	.39122	.10171	3.84646
.980	8.866	.00932	.53980	.05461	-.03579	-.00036	.00292	-.01706	.52493	.13716	3.82721
.981	11.053	.01205	.67275	.05659	-.04468	-.00221	.00308	-.01939	.64542	.18452	3.51951
.980	13.267	.01692	.82261	.05908	-.05770	.00035	.00268	-.02080	.78710	.24629	3.19583
.981	15.459	.02485	.91019	.05844	-.05571	.00393	.00192	-.02282	.86168	.29894	2.88250
.980	17.651	.02992	1.00215	.06081	-.05607	.00148	.00328	-.02318	.93653	.36181	2.50644
.981	19.811	.03425	1.08476	.06271	-.05586	-.00130	.00271	-.02368	.99930	.42665	2.34223
.981	21.946	.01470	1.10400	.06204	-.04346	-.00339	.00468	-.02773	1.00081	.47015	2.12871
	GRADIENT	.00218	.05587	-.00057	-.00329	.00029	-.00002	-.00123	.05470	.00162	-.74280

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5002: (19 MAY 73)

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (B41VPB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 111/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
1.200	-2.216	-.00662	-.11098	.06937	.00647	-.00205	.00187	-.00393	-.10822	.07361	-1.47019
1.200	-.017	.00135	-.00640	.07218	-.00280	-.00150	.00167	-.00725	-.00642	.07217	-.06900
1.200	2.180	.00663	.11958	.07188	-.01100	-.00105	.00164	-.00990	.11676	.07637	1.52880
1.200	4.417	.00730	.25138	.06915	-.02090	-.00267	.00182	-.01095	.24531	.08930	2.77810
1.200	6.644	.00945	.38243	.06602	-.03057	-.00032	.00191	-.01243	.37223	.10982	3.38934
1.200	8.873	.01157	.51090	.06328	-.03925	-.00023	.00203	-.01402	.49503	.14132	3.50283
1.200	11.090	.01321	.62844	.06205	-.04556	.00076	.00230	-.01601	.60280	.18139	3.32315
1.200	13.317	.01613	.74611	.06224	-.05190	.00006	.00211	-.01793	.71171	.23243	3.06204
1.199	15.535	.02200	.86211	.06197	-.05697	.00017	.00219	-.02044	.81429	.28963	2.81145
1.200	17.746	.02521	.94853	.06192	-.05688	.00468	.00247	-.02341	.88452	.34809	2.54110
1.200	19.946	.02466	1.03317	.06113	-.05517	.00286	.00303	-.02548	.95037	.40982	2.31901
1.199	22.149	.02648	1.11700	.06069	-.05392	.00014	.00299	-.02655	1.01169	.47734	2.11943
GRADIENT		.00213	.05433	-.00005	-.00409	.00021	-.00001	-.00107	.05300	.00219	.64182

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMLVFB)

(RFP5P02) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0189 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

BETA = .000 WINGNO = 1.000
LAMBDA = 60.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 115/ 0 RVL = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.056	165.31987	-0.04382	-0.06621	-0.10908	-0.03583
.348	.009	165.31987	-0.04431	-0.06717	-0.11053	-0.03448
.348	2.091	165.13306	-0.04387	-0.06966	-0.10872	-0.03354
.348	4.157	165.13306	-0.04630	-0.07352	-0.11114	-0.03548
.348	6.236	165.13283	-0.04921	-0.07738	-0.11599	-0.04032
.348	8.321	165.13283	-0.05407	-0.08558	-0.12375	-0.04371
.348	10.417	165.22624	-0.05937	-0.09710	-0.13240	-0.05384
.348	12.488	165.13260	-0.07350	-0.11548	-0.15284	-0.06645
.348	14.555	165.22647	-0.09482	-0.14772	-0.18572	-0.08576
.348	16.613	164.85166	-0.11497	-0.18332	-0.20993	-0.10970
.347	18.668	164.57092	-0.13463	-0.24219	-0.26381	-0.16960
.347	20.716	164.57092	-0.19460	-0.30221	-0.31198	-0.20650
GRADIENT		-0.03609	-0.00034	-0.00118	-0.00021	-0.00011

RUN NO. 114/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.115	311.72903	-0.01105	-0.04318	-0.06520	-0.01792
.801	.026	312.06406	-0.01388	-0.04443	-0.06566	-0.01869
.799	2.180	311.05637	-0.01440	-0.04453	-0.05965	-0.01793
.800	4.350	311.49646	-0.01491	-0.04679	-0.06318	-0.01819
.799	6.518	311.13601	-0.02187	-0.05578	-0.07456	-0.02508
.801	8.675	311.91116	-0.04294	-0.07869	-0.10599	-0.04124
.799	10.798	311.23445	-0.07211	-0.11514	-0.14349	-0.07210
.800	12.932	311.49646	-0.11172	-0.15598	-0.19480	-0.09489
.800	15.055	311.69756	-0.17805	-0.23511	-0.27176	-0.19584
.799	17.182	311.30155	-0.23904	-0.30165	-0.33690	-0.24509
.800	19.264	311.35607	-0.32221	-0.38578	-0.43124	-0.32231
.800	21.375	311.35607	-0.41443	-0.47250	-0.53900	-0.40033
GRADIENT		-0.07909	-0.00051	-0.00056	-0.00056	-0.00000



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT T4T 644 LO-100 ORBITER (SHIPS) (BM1VFB)

(RP5P02) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMPAF = 60.000 ELEVTR = .000
 BDPLAP = .000 RUOFLR = .000

RUN NO. 113/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.888	-2.161	354.42378	-.00371	-.02193	-.01317	-.01678
.900	-.015	355.34807	-.01410	-.02390	-.01900	-.02237
.899	2.184	355.11012	-.01930	-.03064	-.02488	-.02756
.900	4.391	355.10595	-.01162	-.05397	-.05306	-.01428
.900	6.615	355.31157	-.03125	-.08039	-.08752	-.04733
.900	8.759	355.21090	-.06061	-.10732	-.12406	-.06984
.900	10.917	355.52639	-.11538	-.20043	-.18815	-.13406
.899	13.064	354.94561	-.16708	-.23307	-.23966	-.14846
.899	15.212	354.92740	-.23262	-.32779	-.33082	-.25518
.900	17.383	355.03727	-.32177	-.38535	-.36794	-.34153
.900	19.513	355.31157	-.42829	-.48549	-.46614	-.44472
.900	21.618	355.51725	-.51648	-.58223	-.58795	-.51549
GRADIENT		.08201	-.00131	-.00472	-.00576	-.00012

RUN NO. 112/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.180	385.36998	-.14509	-.16147	-.15336	-.15535
.981	.001	385.57228	-.14612	-.15715	-.16145	-.15969
.980	2.178	385.37039	-.14099	-.14669	-.16507	-.15957
.980	4.398	385.12574	-.15760	-.16071	-.18104	-.17551
.980	6.635	385.33967	-.18384	-.18552	-.20909	-.20122
.980	8.866	385.47600	-.22651	-.22584	-.24961	-.24083
.981	11.053	385.23351	-.27454	-.27127	-.29966	-.29014
.980	13.267	385.47692	-.30883	-.30388	-.34199	-.33197
.981	15.459	385.61798	-.36118	-.35774	-.38864	-.37997
.980	17.651	385.14136	-.42878	-.42797	-.45138	-.44154
.981	19.811	385.00764	-.49526	-.49337	-.51566	-.50661
.981	21.946	385.61453	-.57108	-.58025	-.59406	-.58793
GRADIENT		-.04280	-.00149	-.00443	-.00596	-.00276

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RPSFD2) (19 MAY 73)

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (BMLVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFPLR = .000

REFERENCE DATA
 SREF = 175.7376 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 19.7156 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 111/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.216	440.40088	-20887	-21701	-21397	-21026
1.200	-.017	440.65287	-22506	-23055	-22904	-22367
1.200	2.180	440.50168	-23071	-23436	-23977	-23474
1.200	4.417	440.40088	-23218	-22641	-24306	-24020
1.200	6.644	440.70327	-23816	-23145	-25229	-24995
1.200	8.873	440.69555	-25572	-24998	-27146	-26890
1.200	11.090	440.61608	-27525	-27064	-28897	-28764
1.200	13.317	440.55977	-30125	-29683	-31766	-31717
1.199	15.535	440.25730	-31572	-32657	-33175	-33396
1.200	17.746	440.61017	-35512	-36425	-36344	-36359
1.200	19.946	440.65287	-39341	-39396	-40295	-39993
1.199	22.149	440.43692	-44132	-44245	-45533	-45346
	GRADIENT	-.00694	-0.0042	-0.0144	-0.0443	-0.0456

(RF5003) (19 MAY 75)

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 OBITER (SHIPS) (BWL/VFB)

DATE 07 JUL 73

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 110/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.045	-.00180	-.06740	.01868	-.00197	-.00296	.00127	-.00253	-.06669	.02107	-3.16490
.349	.021	.00178	.02240	.02099	-.00304	-.00288	.00098	-.00629	.02240	.02100	1.06676
.348	2.106	.00309	.11190	.01961	-.00393	-.00238	.00034	-.00562	.11110	.02371	4.68568
.349	4.176	.00530	.20335	.01403	-.00445	-.00270	.00031	-.00852	.20378	.02894	7.04101
.349	6.266	.00569	.29876	.00543	-.00482	-.00259	.00001	-.00781	.29639	.03801	7.79768
.349	8.342	.00569	.40193	-.00459	-.00648	-.00234	.00003	-.00802	.39834	.05377	7.49869
.349	10.440	.00691	.51159	-.01204	-.00882	-.00212	-.00005	-.00948	.50530	.08086	6.24882
.349	12.511	.00740	.60706	-.01260	-.00971	-.00092	.00097	-.01422	.59538	.11921	4.99417
.349	14.605	.00976	.70066	-.01512	-.00855	.00079	.00194	-.02149	.68183	.16205	4.20758
.349	16.668	.00961	.76921	-.01166	-.00749	-.00766	-.00012	-.01335	.74523	.20946	3.53397
.349	18.730	.01171	.83914	-.00972	-.00703	-.00191	.00062	-.01947	.79782	.26025	3.06561
.349	20.793	.01302	.91344	-.00879	-.00739	-.00161	.00125	-.02408	.85635	.31792	2.69360
GRADIENT		.00109	.04375	-.00074	-.00040	.00006	-.00017	-.00083	.04338	.00127	1.65008

RUN NO. 109/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.130	-.00282	-.07509	.01799	-.00302	-.00306	.00133	-.00316	-.07437	.02077	-3.58021
.799	.038	.00321	.02836	.02045	-.00515	-.00276	.00090	-.00588	.02835	.02047	1.36459
.799	2.197	.00642	.13139	.01869	-.00685	-.00264	.00079	-.00783	.13058	.02372	5.50597
.800	4.358	.00942	.24055	.01278	-.00814	-.00284	.00049	-.00886	.23888	.03102	7.70089
.800	6.538	.01255	.36607	.00662	-.01099	-.00315	-.00021	-.00842	.36292	.04859	7.50037
.799	8.692	.01082	.44831	.01089	-.01068	-.00158	.00085	-.01136	.44152	.07852	5.62313
.800	10.832	.01232	.53554	.01274	-.01146	-.00216	.00085	-.01253	.52360	.11316	4.62729
.799	12.958	.01434	.60064	.01719	-.00762	-.00300	.00022	-.01166	.58149	.15144	3.83986
.799	15.098	.01688	.68164	.02194	-.00645	-.00466	-.00017	-.01217	.65266	.19777	3.30004
.799	17.226	.02115	.75585	.02484	-.00522	-.00228	.00090	-.01977	.71459	.24756	2.86649
.799	19.326	.02438	.82134	.03103	-.00417	-.00279	-.00036	-.01755	.76583	.30082	2.53920
.799	21.400	.03158	.85586	.03717	-.00154	-.00022	-.00076	-.02190	.83829	.34689	2.25806
GRADIENT		.00185	.04856	-.00080	-.00079	.00004	-.00012	-.00088	.04819	.00157	1.75594

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BML/VB)

(RPS003) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAP = 65.000 ELEVTR = .000
BDCLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 58. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

RUN NO. 108/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.165	-.00515	-.08086	.02295	-.00549	-.00288	.00179	-.00370	-.07993	.02399	-3.07505
.899	.011	.00150	.02464	.02636	-.00870	-.00239	.00138	-.00637	.02464	.02636	.93441
.900	2.190	.00640	.13673	.02573	-.01185	-.00203	.00128	-.00914	.13565	.03093	4.38543
.899	4.408	.00882	.25478	.02181	-.01371	-.00190	.00128	-.01074	.24235	.04133	6.10599
.899	5.589	.01132	.35383	.01999	-.01262	-.00407	.00125	-.01222	.34919	.06046	5.77571
.899	6.781	.01355	.46155	.02222	-.01394	-.00340	.00110	-.01316	.45275	.08242	4.89873
.899	10.952	.01362	.55196	.02579	-.01527	-.00301	.00084	-.01219	.53700	.13018	4.12494
.900	13.122	.01533	.64139	.02810	-.01350	-.00404	.00076	-.01389	.17298	.17298	3.57418
.900	15.309	.01892	.74117	.03068	-.01463	-.00362	.00174	-.01946	.22528	.22528	3.13726
.899	17.459	.02333	.82112	.03758	-.01451	-.00391	.00156	-.01949	.70577	.28220	2.73570
.899	19.586	.02895	.89390	.04336	-.01480	-.00348	.00121	-.02449	.82765	.34050	2.43065
.901	21.673	.03340	.93019	.05085	-.01133	-.00298	.00141	-.02863	.39077	.39077	2.16407
.899	GRADIENT	.00214	-.00019	-.00015	-.00127	-.00015	-.00007	-.00109	.05060	.00231	1.41427

RUN NO. 107/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.187	-.00861	-.12339	.06140	.00613	-.00320	.00265	-.00531	-.12096	.06606	-1.83095
.980	.010	-.00101	-.00085	.06444	-.00120	-.00271	.00248	-.00915	-.00086	.06444	-.01333
.981	2.191	.00340	.11360	.06275	-.00713	-.00217	.00249	-.01180	.11112	.06704	1.65741
.980	4.417	.00618	.25305	.05871	-.01531	-.00155	.00235	-.01288	.24778	.07802	3.17575
.980	6.655	.00813	.40116	.05446	-.02560	-.00102	.00263	-.01514	.39215	.10058	3.89890
.980	8.872	.00858	.54655	.05555	-.03545	-.00087	.00326	-.01794	.53145	.13917	3.81866
.980	11.072	.01183	.67160	.05533	-.04296	-.00167	.00313	-.01942	.64847	.18328	3.53824
.980	13.295	.01847	.82332	.05886	-.05531	-.00070	.00247	-.02093	.78772	.24681	3.19417
.981	15.513	.02386	.94890	.06163	-.06136	-.00101	.00239	-.02405	.89809	.31228	2.87588
.981	17.715	.02940	1.05993	.06115	-.06358	-.00086	.00210	-.02632	.98535	.37895	2.60022
.981	19.892	.03289	1.12452	.06340	-.05873	-.00089	.00197	-.02844	1.03586	.44224	2.34230
.980	GRADIENT	.00222	-.00019	-.00025	-.00287	-.00019	.00295	-.00233	1.03473	.48183	2.14751
									.05540	.00175	.75881

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RF5003) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 65.000 ELEVTR = .000
 BSFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .5000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 106/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.195	-.00796	-.11064	.06880	.00647	-.00197	.00184	-.00308	-.10792	.07299	-1.47862
1.201	.022	.00063	.00982	.07159	-.00266	-.00151	.00178	-.00700	.00979	.07159	.13677
1.201	2.212	.00561	.12327	.07114	-.01061	-.00103	.00179	-.00993	.12043	.07584	1.58788
1.201	4.451	.00706	.25550	.06818	-.02030	-.00767	.00188	-.01106	.24944	.08780	2.84085
1.201	6.668	.00911	.38496	.06501	-.02948	-.00746	.00198	-.01254	.37481	.10927	3.43019
1.199	8.912	.01115	.51445	.06253	-.03780	-.00927	.00204	-.01387	.49855	.14147	3.52403
1.200	11.139	.01345	.63390	.06204	-.04413	-.00936	.00236	-.01638	.60998	.18333	3.52715
1.200	13.361	.01860	.75644	.06218	-.05070	-.00969	.00221	-.01858	.72159	.23530	3.06672
1.200	15.594	.02238	.86781	.06093	-.05496	-.00977	.00227	-.02084	.81949	.29198	2.80669
1.200	17.804	.02416	.95303	.06219	-.05345	-.00917	.00257	-.02324	.88837	.35061	2.53382
1.199	20.001	.02756	1.04635	.06227	-.05442	-.00961	.00268	-.02573	.96194	.41641	2.31009
1.200	21.646	.03014	1.12381	.06194	-.05642	-.00920	.00238	-.02615	1.02172	.47211	2.16414
		.00226	.05477	-.00011	-.00399	.00020	.00001	-.00120	.05345	.00220	.65109

GRADIENT

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMC VFB)

(RFSF03) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGMO = 1.000
 LAMCAP = 65.000 ELEVTR = .000
 BSFLAP = .000 RUOFLR = .000

RUN NO. 110/ 0 RVAL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.045	167.28822	-.04335	-.06547	-.10833	-.03460
.349	.021	166.35244	-.04358	-.06774	-.10796	-.03285
.348	2.156	165.69718	-.04519	-.06991	-.10837	-.03345
.349	4.176	165.88465	-.04659	-.07368	-.11115	-.03486
.349	6.266	166.07234	-.04896	-.07888	-.11633	-.03867
.349	8.342	166.25932	-.05276	-.08550	-.11958	-.04584
.349	10.440	166.07164	-.05910	-.09662	-.12887	-.05407
.349	12.511	166.55315	-.07202	-.11370	-.14406	-.06599
.349	14.605	165.97826	-.08715	-.13507	-.16223	-.07576
.349	16.668	165.88442	-.12104	-.18892	-.21831	-.14035
.349	18.730	165.88512	-.14570	-.22206	-.22893	-.16010
.348	20.793	165.69741	-.18946	-.27470	-.26737	-.20657
GRADIENT		-.23452	-.00055	-.00129	-.00043	-.00007

RUN NO. 109/ 0 RVAL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.133	311.08145	-.01027	-.04145	-.06247	-.01588
.799	.038	311.15482	-.01104	-.04221	-.06246	-.01665
.799	2.197	311.25326	-.01387	-.04424	-.06013	-.01715
.800	4.358	311.26388	-.01723	-.04733	-.06786	-.01742
.800	6.558	311.78347	-.01954	-.05391	-.07393	-.02229
.799	8.692	310.70201	-.04408	-.08097	-.10635	-.04211
.800	10.832	311.36235	-.07106	-.11178	-.14062	-.06569
.799	12.958	310.80042	-.12793	-.17423	-.20989	-.13543
.799	15.098	311.21564	-.18087	-.23468	-.27242	-.19818
.799	17.226	311.08145	-.24024	-.29879	-.34074	-.25807
.799	19.326	310.81293	-.32119	-.39359	-.44124	-.32901
.799	21.400	311.01433	-.41589	-.47992	-.53031	-.39484
GRADIENT		.02987	-.00110	-.00091	-.00064	-.00024

DATE 07 JUL 75 TABULATED SOURCE DATA-LARC 644

LARC 6-FT TPT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

(RF5FD3) (19 MAY 75)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANCAF = 65.000 ELEVTR = .000
BDFLAP = .000 RUDFLR = .000

RUN NO. 108/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.165	354.63881	-.02089	-.02237	-.01385	-.01408
.899	.011	354.68609	-.01388	-.02482	-.01948	-.02240
.900	2.190	355.31157	-.02087	-.03152	-.02757	-.03002
.899	4.408	354.89518	-.01117	-.05310	-.05423	-.01047
.899	6.589	354.96380	-.03083	-.07621	-.08625	-.04198
.899	8.781	354.70745	-.06273	-.10208	-.10912	-.05124
.899	10.952	355.14231	-.10421	-.16790	-.17460	-.10226
.900	13.122	355.64521	-.16585	-.24449	-.25586	-.18390
.900	15.309	355.13320	-.21848	-.30607	-.31508	-.23366
.899	17.459	355.02331	-.30417	-.39143	-.37337	-.32399
.901	19.586	355.71374	-.39670	-.47644	-.46225	-.41232
.899	21.673	355.02331	-.50567	-.57765	-.59419	-.50495
GRADIENT		.05419	-.00172	-.00453	-.00591	-.00816

RUN NO. 107/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.187	385.32408	-.13945	-.15467	-.14961	-.15057
.980	.010	385.06557	-.14713	-.15859	-.16040	-.15989
.981	2.191	385.64842	-.15074	-.15575	-.17312	-.16678
.980	4.417	385.37039	-.15972	-.16323	-.18419	-.17740
.980	6.655	385.12574	-.17718	-.17871	-.20226	-.19460
.980	8.872	385.30893	-.23022	-.22973	-.23313	-.24516
.980	11.072	385.01969	-.28156	-.27774	-.30598	-.29540
.980	13.295	385.26346	-.31523	-.31044	-.34964	-.33773
.981	15.518	385.50764	-.36169	-.35804	-.39311	-.38443
.981	17.715	385.50797	-.40233	-.40563	-.42911	-.42284
.981	19.892	385.58384	-.48143	-.48192	-.50186	-.49626
.980	22.031	385.21709	-.52773	-.54507	-.54644	-.53950
GRADIENT		.03260	-.00293	-.00154	-.00529	-.00397

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

LARC 8-FT TPI 644 LO-100 ORBITER (SHIPS) (BWL1VFB)

(RPSFD3) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7155 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 65.000 ELEVIR = .000
 BDPLAF = .000 RUOFLR = .000

RUN NO. 106/ 0 RM/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.195	440.72250	-2.20958	-.21753	-.21486	-.21060
1.201	.022	440.57141	-.22451	-.23056	-.22795	-.22258
1.201	2.212	440.67214	-.23196	-.23561	-.24066	-.23527
1.201	4.451	440.67214	-.23251	-.22567	-.24448	-.24107
1.201	6.668	440.57141	-.23980	-.23327	-.25431	-.25214
1.199	8.912	440.26492	-.25551	-.25103	-.27200	-.26871
1.200	11.139	440.45896	-.27724	-.27244	-.29205	-.28999
1.200	13.361	440.65287	-.29913	-.29509	-.31591	-.31379
1.200	15.594	440.45717	-.31987	-.32664	-.32491	-.32695
1.200	17.804	440.53840	-.36402	-.38032	-.37288	-.37228
1.199	20.001	440.30772	-.40204	-.41900	-.41085	-.41320
1.200	21.646	440.58113	-.43727	-.44711	-.44529	-.45070
GRADIENT		-.00344	-.00344	-.00133	-.00459	-.00470



LARC 8-FT TPT 644 LO-100 ORBITER (SHITS) (B&LVPB)

REFERENCE DATA

SREF = 175.7376 SQ. IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 10.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

BETA = .000 WINGNO = 1.000
 LAMDAF = 70.000 ELEVTR = .000
 SPFLAP = .000 RUCFLR = .000

RUN NO. 105/ 0 RNVL = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.039	-.00192	-.07177	.01986	-.00198	-.00314	.00123	-.00274	-.07102	.02240	-3.17090
.349	.043	-.00131	.02447	.02201	-.00270	-.00277	-.00177	-.02482	.02445	.02203	1.11023
.349	2.117	.00418	.11055	.02068	-.00323	-.00256	.00020	-.00655	.10971	.02475	4.43227
.349	4.206	.00461	.20105	.01320	-.00330	-.00255	.00008	-.00665	-.19940	.02991	6.66695
.349	6.291	.00567	.29957	.00642	-.00338	-.00273	.00001	-.00788	.29706	.03921	7.37571
.349	8.364	.00597	.39806	-.00300	-.00457	-.00209	-.00015	-.00767	.39426	.05494	7.17682
.349	10.465	.00795	.51011	-.00847	-.00662	-.00237	-.00027	-.01005	.50317	.08433	5.96694
.350	12.554	.00742	.62066	-.00994	-.00693	-.00289	-.00022	-.01123	.60800	.12522	4.85558
.350	14.643	.01031	.71234	-.01332	-.00629	-.00417	-.00062	-.01221	.69262	.16699	4.14772
.350	16.736	.01083	.81081	-.01467	-.00470	-.00921	-.00146	-.00970	.78069	.21943	3.55775
.350	18.766	.01099	.84705	-.00757	-.00278	-.00275	-.00144	-.02147	.80446	.26533	3.03187
.350	20.837	.01462	.92924	-.00826	-.00223	-.00104	.00134	-.02669	.87140	.32282	2.69937
.350	GRADIENT	.00102	.04347	-.00074	-.00022	-.00010	-.00019	-.00065	.04308	.00121	1.57778

RUN NO. 104/ 0 RNVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.101	-.00268	-.07551	.01838	-.00311	-.00296	.00121	-.00279	-.07479	.02114	-3.53814
.799	.060	-.00379	.02882	.02064	-.00477	-.00289	.00094	-.00647	.02880	.02067	1.39345
.800	2.203	.00826	.12698	.01917	-.00617	-.00254	.00066	-.00864	.12615	.02404	5.24793
.798	4.381	.01008	.23957	.01346	-.00716	-.00274	.00047	-.00929	.23784	.03171	7.49939
.799	6.566	.01232	.35983	.00686	-.00920	-.00300	-.00027	-.00805	.35669	.04796	7.43691
.799	8.714	.01141	.44364	.01186	-.00970	-.00125	.00101	-.01245	.43672	.07894	5.53233
.799	10.873	.01272	.54908	.01385	-.00970	-.00185	.00102	-.01351	.53661	.11718	4.57955
.799	13.068	.01631	.67025	.01219	-.01181	-.00259	.00057	-.01453	.65013	.16343	3.97817
.800	15.260	.02096	.80061	.00387	-.01420	-.00195	.00109	-.02021	.77054	.21927	3.51180
.799	17.390	.02616	.83029	.01385	-.00302	.00323	.000327	-.03297	.88825	.26123	3.01751
.799	19.444	.02663	.86651	.02662	-.00152	-.00206	-.00065	-.01814	.80835	.31323	2.58069
.799	21.536	.02647	.91176	.03131	.00127	-.00361	-.00148	-.01506	.83661	.36581	2.29956
.799	GRADIENT	.00198	.04833	-.00075	-.00063	-.00005	-.00012	-.00130	.64796	.00163	1.71175

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWL/VFB)

(RP3004) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANCAF = 70.000 ELEVTB = .000
 EDPLAP = .000 RUDFLR = .000

RUN NO. 103/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.160	-.00558	-.08297	.02496	-.00548	-.00266	.00196	-.00413	-.08197	.02807	-2.92070
.899	.021	.00208	.02327	.02603	-.00876	-.00229	.00129	-.00639	.02526	.02804	.97012
.900	2.209	.00749	.13459	.02669	-.01139	-.00159	.00122	-.00961	.13345	.03206	4.16240
.899	4.433	.00963	.25548	.02093	-.01310	-.00221	.00147	-.01200	.25310	.04061	6.23209
.899	6.634	.01247	.35771	.02004	-.01158	-.00451	.00098	-.01194	.35300	.06123	5.76502
.899	8.813	.01401	.46333	.02193	-.01326	-.00103	.00138	-.01455	.45648	.09296	4.91025
.900	10.979	.01371	.56065	.02601	-.01366	-.00269	.00142	-.01456	.54543	.13231	4.12224
.900	13.162	.01637	.66943	.02812	-.01696	-.00262	.00158	-.01701	.64544	.17981	3.58948
.900	15.379	.02097	.78792	.02740	-.01901	-.00206	.00164	-.02041	.75244	.23538	3.19669
.899	17.599	.02501	.90081	.02591	-.01720	-.00335	.00037	-.01833	.85081	.29707	2.85406
.900	19.715	.02938	.92639	.03953	-.01846	-.00133	.00031	-.02129	.85876	.34972	2.45559
.900	21.819	.03125	.98689	.04633	-.01824	-.00215	-.00097	-.01783	.89897	.40982	2.19358
GRADIENT		.00232	.05120	-.00051	-.00116	.00009	-.00007	-.00122	.05069	.00199	1.59444

RUN NO. 102/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.180	-.00939	-.12479	.06087	.00613	-.00336	.00264	-.00482	-.12238	.06558	-1.86634
.980	.023	-.00112	-.00024	.06332	-.00094	-.00274	.00244	-.00890	-.00026	.06332	-.00418
.980	2.215	.00396	.11408	.06229	-.00666	-.00214	.00241	-.01181	.11159	.06666	1.67403
.981	4.443	.00621	.25076	.05773	-.01371	-.00141	.00248	-.01342	.24553	.07698	3.18952
.981	6.681	.00767	.40439	.05449	-.02444	-.00088	.00268	-.01509	.39531	.10116	3.90761
.980	8.915	.00922	.54632	.05520	-.03346	-.00176	.00302	-.01739	.53117	.13920	3.81598
.980	11.136	.01081	.68896	.05831	-.04315	-.00230	.00312	-.01878	.66473	.19028	3.49339
.981	13.348	.01647	.83282	.06097	-.05340	.00013	.00288	-.02134	.79625	.25159	3.16485
.980	15.547	.02117	.95374	.06302	-.05843	-.00037	.00256	-.02309	.90196	.31634	2.85124
.980	17.774	.02513	1.07044	.06385	-.06134	-.00144	.00275	-.02643	.99985	.38758	2.57986
.980	19.989	.03028	1.18273	.06299	-.06301	-.00004	.00305	-.03156	1.08995	.46949	2.35160
.981	22.152	.02681	1.19511	.05960	-.04466	-.00099	.00443	-.03454	1.08442	.50384	2.14382
GRADIENT		.00235	.05626	-.00048	-.00286	.00029	-.00002	-.00130	.05511	.00170	.76351

(RFS004) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

PARAMETRIC DATA

BETA = .000 WANGNO = 1.000
 LARC4F = 70.000 ELEVTE = .000
 BDFLAF = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ. IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 101/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.176	-.00787	-.11071	.06843	.00632	-.00200	.00188	-.00329	-.10804	.07259	-1.48837
1.200	.043	.00044	.00941	.07127	-.00236	-.00132	.00169	-.00688	.00935	.07128	.13121
1.200	2.223	.00596	.12102	.07084	-.00978	-.00110	.00158	-.00931	.11818	.07548	1.56567
1.200	4.476	.00814	.25263	.06778	-.01883	-.00106	.00165	-.01070	.24657	.08729	2.82466
1.200	6.704	.00914	.38588	.06474	-.02773	-.00056	.00183	-.01196	.37569	.10935	3.43574
1.200	9.943	.01143	.51490	.06273	-.03531	-.00026	.00194	-.01363	.49889	.14202	3.51292
1.200	11.180	.01443	.63810	.06148	-.04148	.00013	.00191	-.01511	.61382	.18532	3.31223
1.200	13.419	.01869	.76140	.06268	-.04733	.00049	.00199	-.01777	.72607	.23766	3.03506
1.199	15.662	.02265	.87756	.06141	-.05175	.00026	.00198	-.01997	.82840	.29604	2.79825
1.201	17.883	.02597	.98564	.06139	-.05447	-.00027	.00218	-.02269	.91917	.36109	2.54555
1.201	20.090	.02783	1.06766	.06252	-.05228	.00061	.00235	-.02456	.98122	.42546	2.30625
1.201	21.220	.02846	1.11635	.06207	-.05261	.00039	.00241	-.02527	1.01819	.46193	2.20422
GRADIENT		.00242	.05429	-.00011	-.00374	.00015	-.00004	-.00111	.05298	.00219	.64918

REFERENCE DATA

SREF = 175.7376 SR.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 105/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.539	166.16524	-.04266	-.06685	-.10521	-.03385
.349	.043	166.25861	-.04408	-.06825	-.10515	-.03287
.349	2.117	165.97756	-.04678	-.07124	-.10726	-.03244
.349	4.206	166.53963	-.04883	-.07532	-.11219	-.03474
.349	6.291	166.16524	-.04895	-.07740	-.11099	-.03529
.349	8.364	166.25885	-.05325	-.08406	-.11575	-.04104
.349	10.465	165.88442	-.06303	-.09721	-.12807	-.04980
.350	12.554	167.19538	-.07503	-.11601	-.15008	-.06138
.349	14.643	166.07187	-.08421	-.13691	-.16576	-.08006
.350	16.736	166.72727	-.10643	-.17795	-.18892	-.12960
.350	18.766	167.38178	-.14395	-.19916	-.18389	-.15250
.350	20.837	166.72680	-.18635	-.23863	-.21581	-.20589
GRADIENT		.04057	-.00099	-.00136	-.00111	-.00011

RUN NO. 104/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.101	310.66611	-.01051	-.04225	-.06229	-.01613
.799	.080	310.56147	-.01439	-.04432	-.06360	-.01794
.800	2.203	311.72903	-.01645	-.04625	-.06265	-.01742
.798	4.381	310.28028	-.01723	-.04794	-.06726	-.01666
.799	6.566	310.85505	-.02213	-.05531	-.07231	-.02411
.799	8.714	310.78791	-.04329	-.07864	-.09912	-.03954
.799	10.873	311.01433	-.06674	-.10274	-.13176	-.05878
.799	13.068	310.81918	-.08947	-.14064	-.16171	-.09608
.800	15.260	311.28899	-.10817	-.16605	-.18233	-.11112
.799	17.380	311.06891	-.19178	-.24221	-.24938	-.18157
.799	19.444	311.30782	-.28670	-.36306	-.39530	-.29848
.799	21.536	310.88007	-.36859	-.44450	-.48418	-.37315
GRADIENT		-.00022	-.00103	-.00088	-.00065	-.00005

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B-MVFB)

REFERENCE DATA
 SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA
 BETA = .000 WITHNO = 1.000
 LAMDAF = 70.000 ELEVTR = .000
 EDPLAP = .000 RUFLR = .000

RUN NO. 103/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.160	355.53552	-.00440	-.01672	-.00688	-.01315
.899	.021	354.85880	-.00643	-.02056	-.01137	-.01610
.900	2.209	355.43783	-.01770	-.02904	-.02240	-.02619
.899	4.433	354.81327	-.01208	-.04997	-.05470	-.00799
.899	6.634	355.09192	-.02630	-.07326	-.08240	-.03724
.899	8.813	354.74884	-.05326	-.10027	-.10189	-.04831
.900	10.979	355.31157	-.10190	-.16468	-.17768	-.09884
.900	13.162	355.51725	-.14110	-.23450	-.22421	-.15700
.900	15.379	355.17443	-.17646	-.25894	-.26906	-.17942
.899	17.599	354.75378	-.24222	-.29360	-.27976	-.26127
.900	19.715	355.26125	-.39449	-.43646	-.41055	-.40992
.900	21.819	355.28860	-.47821	-.55278	-.54778	-.48546
GRADIENT		-.07150	-.00156	-.00493	-.00677	-.00026

RUN NO. 102/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.180	385.49247	-.14077	-.15515	-.15031	-.15209
.980	.023	385.46134	-.14254	-.15278	-.15894	-.15676
.980	2.215	385.46134	-.14546	-.15050	-.16766	-.16298
.981	4.443	385.40109	-.15788	-.16078	-.18132	-.17494
.981	6.681	385.81245	-.18244	-.18290	-.20685	-.19940
.980	8.915	385.49164	-.22718	-.22692	-.24822	-.24067
.980	11.136	385.18681	-.28523	-.28561	-.30578	-.29790
.981	13.348	385.46562	-.33323	-.33555	-.36075	-.35068
.980	15.547	385.01195	-.36724	-.36830	-.40284	-.39350
.980	17.774	385.43104	-.41767	-.41776	-.44195	-.43523
.980	19.989	385.25272	-.45282	-.47252	-.46251	-.46051
.981	22.152	385.55704	-.51848	-.52843	-.53450	-.53194
GRADIENT		-.01244	-.00246	-.00067	-.00461	-.00339

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 6-FT TPT 644 LO-100 ORBITER (S'IFS) (BMAVFB)

(RP5P04) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUZFLR = .000

REFERENCE DATA

SREF = 173.7376 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 19.7156 INCHES
 SCALE = .0188 SCALE

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 101/ 0 RN/L = 2.11

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.176	440.61608	-.20990	-.21749	-.21338	-.20948
1.100	.043	440.81759	-.22627	-.23085	-.22899	-.22379
1.200	2.223	440.76722	-.23119	-.23501	-.23753	-.23341
1.200	4.476	440.61608	-.23193	-.22635	-.24137	-.23904
1.200	6.704	440.56569	-.24031	-.23377	-.25319	-.25174
1.200	8.943	440.66058	-.23281	-.24908	-.26676	-.26511
1.200	11.180	440.66058	-.27010	-.26463	-.28348	-.28197
1.200	13.419	440.63921	-.29627	-.29351	-.30997	-.30931
1.199	15.662	440.38716	-.31054	-.31798	-.32458	-.32335
1.201	17.883	441.01908	-.34301	-.35943	-.34918	-.35025
1.201	20.090	441.01908	-.39174	-.40748	-.39384	-.39647
1.201	21.220	440.96871	-.42196	-.43514	-.42710	-.42837
1.201	GRADIENT	-.00020	-.00038	-.00418	-.00444	

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 100/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.040	-.00191	-.07067	.01885	-.00274	-.00316	.00108	-.00164	-.06996	.02136	-3.27545
.349	.040	.00308	.02174	.02145	-.00313	-.00293	.00068	-.00689	.02172	.02147	1.01183
.350	2.112	.00469	.11532	.01984	-.00301	-.00252	.00008	-.00672	.11451	.02408	4.75596
.350	4.193	.00577	.20803	.01463	-.00261	-.00283	.00014	-.00847	.20441	.02966	6.89233
.350	6.286	.00553	.29919	.00588	-.00225	-.00265	.00015	-.00819	.29675	.03860	7.68851
.350	8.376	.00637	.40348	-.00309	-.00261	-.00239	-.00008	-.00850	.39962	.05571	7.17274
.350	10.461	.00694	.51684	-.00688	-.00399	-.00261	.00020	-.01042	.50950	.08708	5.85089
.350	12.556	.00816	.62083	-.00895	-.00265	-.00129	.00026	-.01247	.60793	.12623	4.81612
.350	14.670	.01035	.73970	-.01398	-.00263	-.00098	.00038	-.01613	.71913	.17380	4.13779
.350	16.784	.01268	.89673	-.01984	-.00682	-.00209	.00131	-.02330	.86426	.23995	3.60178
.349	18.877	.01610	.98812	-.02351	-.00234	-.00618	.00244	-.03291	.94258	.29745	3.16890
.349	20.942	.01283	1.03165	-.02277	-.00700	-.01085	-.00196	-.01115	.34747	.97164	2.79630
GRADIENT		.00119	.04447	-.00069	.00002	.00007	-.00016	-.00098	.04409	.00132	1.64874

RUN NO. 99/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.117	-.00311	-.07659	.01827	-.00383	-.00322	.00136	-.00305	-.07386	.02109	-3.59771
.799	.047	.00313	.02739	.02033	-.00493	-.00276	.00089	-.00578	.02737	.02035	1.34501
.799	2.210	.00767	.13023	.01905	-.00591	-.00282	.00074	-.00852	.12940	.02406	5.37782
.798	4.375	.00939	.23879	.01303	-.00614	-.00291	.00054	-.00906	.23710	.03121	7.59679
.799	6.568	.01254	.36174	.00719	-.00786	-.00312	-.00012	-.00880	.35855	.04852	7.39025
.800	8.744	.01244	.46422	.00912	-.00806	-.00365	-.00022	-.00837	.45744	.07959	5.74727
.800	10.903	.01347	.55289	.01510	-.00564	-.00257	.00034	-.01137	.54006	.11940	4.52299
.799	13.082	.01758	.66462	.01562	-.00629	-.00191	.00053	-.01531	.64364	.16565	3.88670
.800	15.273	.02107	.80007	.01354	-.01130	-.00232	.00046	-.01780	.77210	.22487	3.43360
.799	17.515	.02556	.96292	.00987	-.01418	-.00148	.00059	-.02197	.91531	.29922	3.05903
.799	19.677	.02959	1.03227	.01043	-.00520	-.00755	-.00460	-.00501	.96848	.35741	2.70970
.799	21.694	.00700	1.00308	.02390	-.00660	-.01828	-.00537	.01554	.92323	.39291	2.34972
GRADIENT		.00194	.04848	-.00079	-.00037	.00005	-.00012	-.00096	.04810	.00157	1.73832

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 75.000 ELEVTR = .000
 BDPLAF = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 98/0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.970	-2.179	-.00467	-.08626	.02441	-.00598	-.00305	.00188	-.00438	-.08527	.02767	-3.08102
.970	.019	.00258	.02308	.02606	-.00857	-.00262	.00137	-.00756	.02307	.02607	.88501
.970	2.214	.00737	.13584	.02604	-.01087	-.00192	.00130	-.00984	.13473	.03127	4.30839
.898	4.428	.00963	.25415	.02105	-.01174	-.00216	.00128	-.01125	.25177	.04061	6.19983
.899	6.632	.01140	.35523	.02118	-.00948	-.00359	.00119	-.01205	.35041	.06206	5.64636
.970	8.841	.01197	.48436	.02232	-.01310	-.00476	.00164	-.01424	.47518	.09649	4.92437
.970	11.034	.01480	.56576	.02513	-.00825	-.00217	.00148	-.01548	.55049	.13294	4.14080
.899	13.199	.01722	.66109	.02722	-.01066	-.00243	.00150	-.01726	.63741	.17745	3.59194
.970	15.416	.02065	.78446	.02844	-.01194	-.00246	.00105	-.01788	.74867	.23596	3.17294
.899	17.679	.02671	.93602	.02457	-.01948	-.00166	.00072	-.02086	.90341	.31374	2.87949
.970	19.878	.02793	1.02919	.03182	-.01010	-.00643	-.00315	-.00668	.95705	.37987	2.51943
.899	21.261	.01733	1.03697	.04276	-.00110	-.01043	-.00257	-.00191	.94574	.42746	2.21246
GRADIENT		.00217	.05151	-.00046	-.00089	.00015	-.00008	-.00106	.05100	.00200	1.41975

RUN NO. 97/0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.187	-.00781	-.12545	.05930	.00543	-.00337	.00265	-.00579	-.12309	.06404	-1.92204
.981	.019	-.00089	-.00169	.06186	-.00104	-.00285	.00252	-.00937	-.00171	.06186	-.02765
.970	2.212	.00378	.11038	.06034	-.00600	-.00224	.00241	-.01172	.10797	.06456	1.67248
.970	4.445	.00572	.25478	.05650	-.01311	-.00155	.00252	-.01331	.24963	.07608	3.28136
.970	6.690	.00759	.40297	.05339	-.02256	-.00099	.00263	-.01485	.39400	.09997	3.94124
.979	8.922	.01016	.55219	.05659	-.03114	-.00137	.00278	-.01703	.53673	.14155	3.79185
.980	11.147	.01280	.69469	.05995	-.04039	-.00006	.00270	-.01834	.67000	.19312	3.46937
.980	13.380	.01670	.83293	.06107	-.04730	-.00016	.00278	-.02111	.79615	.25229	3.15572
.981	15.603	.02183	.95045	.06033	-.04938	-.00035	.00251	-.02330	.89920	.31375	2.86593
.980	17.845	.02313	1.06405	.06138	-.04893	-.00358	.00295	-.02599	.99405	.38450	2.58533
.980	20.056	.03026	1.18312	.06224	-.05196	-.00285	.00130	-.02418	1.09003	.46420	2.34821
.980	22.255	.03456	1.23956	.05858	-.03891	-.00229	.00053	-.02420	1.12411	.52329	2.14813
GRADIENT		.00205	.05672	-.00045	-.00274	.00027	-.00002	-.00113	.05560	.00176	.78358

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWI/VFB)

(RPS005) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = 1.000 WINGNO = 1.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUCFLR = .000

PARAMETRIC DATA

RUN NO. 96/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.211	-.00794	-1.1508	.06759	.00574	-.00235	.00181	-.00300	-.11239	.07198	-1.56144
1.199	.026	.00031	.00644	.07068	-.00239	-.00165	.00160	-.00646	.00641	.07068	.09072
1.200	2.230	.00550	.11785	.07019	-.00916	-.00119	.00164	-.00930	.11503	.07472	1.53944
1.200	4.465	.00690	.25176	.06770	-.01754	-.00073	.00184	-.01082	.24573	.08709	2.82160
1.200	6.714	.00863	.38132	.06474	-.02525	-.00033	.00188	-.01187	.37114	.10887	3.40889
1.200	8.952	.01039	.51215	.06304	-.03204	.00000	.00197	-.01320	.49610	.14196	3.49458
1.200	11.202	.01325	.63844	.06245	-.03758	.00012	.00215	-.01544	.61415	.18529	3.31458
1.200	13.462	.01661	.76265	.06262	-.04232	-.00022	.00193	-.01751	.72712	.23844	3.04943
1.200	15.703	.02255	.88577	.06169	-.04662	.00069	.00221	-.02080	.83601	.29913	2.79480
1.199	17.936	.02592	.99722	.06056	-.04982	.00078	.00237	-.02341	.93011	.36472	2.53022
1.199	20.172	.02853	1.10227	.06026	-.05069	.00003	.00257	-.02584	1.01388	.43668	2.32178
1.199	GRADIENT	.00224	.05452	-.00001	-.00345	.00024	.00001	-.00118	.05321	.00222	.65662

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RPSPOS) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B-WFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 75.000 ELEVTR = .000
EDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XREF = 16.8633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 19.7156 INCHES ZREF = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 100/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.040	166.25767	-.04119	-.06490	-.10564	-.03335
.349	.040	166.35127	-.04213	-.06678	-.10702	-.03235
.350	2.112	166.63274	-.04447	-.07145	-.10877	-.03328
.350	4.193	166.72856	-.04781	-.07476	-.11455	-.03471
.350	6.286	166.91396	-.04969	-.07802	-.11867	-.03659
.350	8.376	167.10086	-.05300	-.08461	-.12285	-.04420
.350	10.461	167.00705	-.05975	-.09658	-.13107	-.05427
.350	12.556	166.91396	-.07083	-.11333	-.14553	-.06818
.350	14.673	166.63322	-.07720	-.12421	-.15211	-.08220
.350	16.784	166.63322	-.09645	-.12451	-.11598	-.10713
.349	18.877	166.44604	-.12209	-.15193	-.14256	-.14134
.349	20.942	166.35244	-.16700	-.22336	-.20426	-.19233
GRADIENT		.08126	-.00107	-.00165	-.00143	-.00022

RUN NO. 99/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.117	311.71645	-.00796	-.03884	-.06060	-.01383
.799	.047	311.21564	-.01285	-.04323	-.06324	-.01896
.799	2.210	311.38745	-.01233	-.04346	-.05935	-.01613
.798	4.375	310.22555	-.01801	-.05051	-.07475	-.01897
.799	6.568	311.24699	-.01748	-.05218	-.07569	-.02075
.800	8.744	311.44197	-.03576	-.07390	-.09149	-.04153
.800	10.903	311.44197	-.06692	-.11098	-.13288	-.07155
.799	13.082	311.39372	-.09680	-.12711	-.12647	-.10722
.800	15.273	311.64941	-.13277	-.14083	-.14231	-.13639
.799	17.515	311.30782	-.15479	-.16245	-.16791	-.16167
.799	19.677	311.02686	-.22789	-.26323	-.25044	-.24196
.799	21.694	310.86130	-.35731	-.44504	-.43630	-.39477
GRADIENT		-.19878	-.00117	-.00163	-.00178	-.00058



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (8-M VFB)

(RFP5P05) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES

LREF = 25.5100 INCHES YMRP = .0000 INCHES

BREF = 19.7156 INCHES ZMRP = .0000 INCHES

SCALE = .0100 SCALE

BETA = .000 WINGNO = 1.000

LAMDAF = 75.000 ELEVTR = .000

BDPLAF = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 98/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.179	355.53552	-.00938	-.02008	-.01541	-.01787
.900	.019	355.04638	-.00936	-.02167	-.01497	-.01857
.899	2.214	355.33414	-.01545	-.03040	-.02286	-.02620
.898	4.428	353.87438	-.01369	-.04874	-.06005	-.00373
.899	6.632	354.90427	-.02902	-.06836	-.08696	-.02533
.900	8.841	355.56292	-.05289	-.11484	-.11067	-.07765
.900	11.034	355.41665	-.10706	-.15321	-.18800	-.09701
.899	13.199	354.92244	-.14020	-.22322	-.23293	-.14803
.900	15.416	355.38014	-.17951	-.26821	-.26553	-.19258
.899	17.679	355.00511	-.20116	-.25458	-.28137	-.20539
.900	19.878	355.63148	-.35845	-.38606	-.36915	-.36209
.899	21.961	355.06878	-.49251	-.54011	-.51497	-.50849
GRADIENT		-.21356	-.00084	-.00430	-.00645	-.00159

RUN NO. 97/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.187	385.73985	-.14154	-.15612	-.15274	-.15327
.981	.019	385.41626	-.14267	-.15415	-.15948	-.15689
.980	2.212	385.33967	-.14242	-.14893	-.16651	-.16078
.980	4.445	385.33967	-.15595	-.15948	-.18147	-.17447
.980	6.690	385.24787	-.17549	-.17724	-.20432	-.19582
.979	8.922	385.14034	-.23019	-.23156	-.25561	-.24783
.980	11.147	385.23223	-.28308	-.28471	-.30529	-.29741
.980	13.369	385.23223	-.32804	-.33102	-.35414	-.34449
.981	15.603	385.40140	-.36355	-.36402	-.39789	-.38691
.980	17.845	385.04953	-.40654	-.40898	-.43481	-.42768
.980	20.056	385.29378	-.44194	-.44497	-.48199	-.47207
.980	22.255	385.23223	-.48294	-.48294	-.51690	-.50587
GRADIENT		-.05775	-.00195	-.00023	-.00420	-.00306

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWA/VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 75.000 ELEVTR = .000
 BDFLAF = .000 RUOFFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMPF = 16.8633 INCHES
 LREF = 25.5100 INCHES YMPF = .0000 INCHES
 BREF = 19.7156 INCHES ZMPF = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 96/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.199	-2.211	440.80575	-20845	-21758	-21528	-21048
1.199	.026	440.80575	-22146	-22824	-22582	-22045
1.200	2.230	440.45896	-22881	-23247	-23698	-23140
1.200	4.465	440.84667	-23423	-22755	-24711	-24405
1.200	6.714	440.84667	-24078	-23442	-25619	-25384
1.200	8.952	440.14118	-25561	-25168	-27194	-26900
1.200	11.202	440.81177	-27317	-26930	-28908	-28593
1.200	13.462	440.81177	-29755	-29496	-31251	-31004
1.200	15.703	440.92427	-32217	-33098	-33727	-33420
1.199	17.936	440.90658	-34296	-35253	-35440	-35039
1.199	20.172	440.86379	-36127	-39184	-39410	-38928
	GRADIENT	-.00994	-.00367	-.00154	-.00480	-.00502

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RP5006) (19 MAY 73)
 LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWAJFB)

REFERENCE DATA
 SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 1.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 78.000 ELEVTR = .000
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 95/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.063	-.00152	-.07278	.01926	-.00328	-.00326	.00123	-.00274	-.07203	.02187	-3.29389
.350	.020	.00220	.02165	.02156	-.00312	-.00288	.00079	-.00610	.02165	.02156	1.00381
.350	2.103	.00449	.11447	.01999	-.00253	-.00262	.00046	-.00755	.11366	.02418	4.70148
.350	4.181	.00513	.20067	.01493	-.00168	-.00262	.00020	-.00899	.19905	.02952	6.74340
.350	6.304	.00589	.30385	.00637	-.00070	-.00274	.00020	-.00891	.30132	.03969	7.59172
.350	8.385	.00632	.40764	.00100	-.00069	-.00226	.00012	-.00923	.40343	.05845	6.90218
.349	10.469	.00725	.52452	-.00460	-.00010	-.00217	.00036	-.01153	.51662	.09078	5.69105
.349	12.581	.01017	.63790	-.00653	.00109	-.00131	.00043	-.01599	.62401	.13257	4.70794
.349	14.681	.01144	.76364	-.01061	.00112	-.00185	.00084	-.01950	.74140	.18327	4.04535
.349	16.799	.01460	.89028	-.01405	.00079	-.00253	.00079	-.02404	.85635	.24385	3.51176
.349	18.962	.01779	1.08679	-.02360	-.00317	-.00317	.00140	-.03132	1.03549	.33062	3.13005
.349	21.004	.01897	1.05793	-.01930	-.00726	-.00726	-.00102	-.02791	.99456	.36118	2.75365
GRADIENT		.00107	.04387	-.00070	.00026	.00010	-.00015	-.00086	.04349	.00123	1.62443

RUN NO. 94/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.139	-.00287	-.07686	.01810	-.00422	-.00312	.00134	-.00317	-.07613	.02095	-3.63289
.799	.032	.00277	.03015	.02056	-.00495	-.00278	.00100	-.00596	.03014	.02058	1.46436
.800	2.216	.00812	.13267	.01906	-.00562	-.00267	.00083	-.00920	.13184	.02417	5.45364
.800	4.389	.00946	.24385	.01343	-.00534	-.00200	.00069	-.00968	.24211	.03205	7.55415
.800	6.600	.01276	.37173	.00776	-.00684	-.00330	-.00014	-.00885	.36837	.05043	7.50455
.801	8.762	.01371	.47317	.01014	-.00585	-.00324	.00011	-.01060	.46610	.08211	5.67674
.800	10.929	.01434	.56038	.01598	-.00311	-.00294	.00050	-.01268	.54718	.12194	4.48739
.799	13.107	.01822	.67730	.01789	-.00330	-.00328	.00020	-.01452	.65559	.17102	3.83541
.799	15.325	.02271	.82838	.01479	-.00662	-.00346	.00023	-.01820	.79501	.23320	3.40807
.799	17.624	.02825	1.01177	.00951	-.01262	-.00280	.00059	-.02408	.96141	.31539	3.04834
.793	19.813	.03167	1.13979	.00658	-.01245	-.00364	-.00028	-.02360	1.07009	.39252	2.72820
.799	21.958	.03163	1.16485	.00835	-.00432	-.00604	-.00186	-.01772	1.07723	.44330	2.43001
GRADIENT		.00195	.04891	-.00071	-.00019	.00002	-.00010	-.00105	.04853	.00169	1.72500

TABLATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMA VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LAMDAF = 78.000 ELEVTR = .000
BDFLAF = .000 RUFFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 93/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.900	-2.177	-.00584	-.08362	.02475	-.00651	-.00275	.00205	-.00430	-.08262	.02791	-2.96350
.899	.001	.00242	.02502	.02730	-.00868	-.00216	.00158	-.00776	.02502	.02730	.91644
.901	2.210	.00733	.13697	.02697	-.01031	-.00136	.00135	-.01003	.13582	.03222	4.21363
.900	4.438	.01045	.25221	.02237	-.00986	-.00153	.00082	-.00997	.24972	.04182	5.97107
.899	6.622	.01155	.36072	.02164	-.00940	-.00248	.00151	-.01340	.35582	.06310	5.63935
.899	8.844	.01413	.47724	.02287	-.00883	-.00392	.00064	-.01171	.46805	.09597	4.87680
.899	11.027	.01546	.56065	.02737	-.00428	-.00281	.00109	-.01441	.54506	.13411	4.06435
.900	13.292	.01926	.68382	.02895	-.00380	-.00340	.00256	-.01490	.65884	.18539	3.55385
.900	15.515	.02257	.84822	.02843	-.01230	-.00398	.00124	-.01986	.80971	.25429	3.18418
.899	17.752	.02735	.98315	.02762	-.01587	-.00346	.00101	-.02242	.92792	.32606	2.84584
.900	19.965	.03254	1.07438	.03035	-.00946	-.00466	-.00121	-.01750	.99945	.39537	2.52787
.899	22.140	.02779	1.13144	.03558	-.00330	-.00542	.00059	-.01965	1.03480	.45938	2.25219
GRADIENT		.00242	.08076	-.00034	-.00053	.00020	-.00018	-.00087	.05023	.00212	1.36336

RUN NO. 92/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.980	-2.206	-.00786	-.12406	.05916	.00505	-.00345	.00274	-.00610	-.12170	.06389	-1.90464
.980	.014	-.00061	.00056	.06130	-.00101	-.00279	.00246	-.00930	.00054	.06130	.00888
.981	2.215	.00291	.11540	.06081	-.00557	-.00216	.00254	-.01169	.11296	.06522	1.73195
.981	4.443	.00635	.25416	.05686	-.01175	-.00165	.00256	-.01384	.24899	.07638	3.25975
.980	6.693	.00768	.40621	.05487	-.00022	-.00112	.00270	-.01520	.39705	.10183	3.89970
.980	8.938	.01005	.55162	.05691	-.02722	-.00171	.00294	-.01758	.53608	.14192	3.77736
.980	11.200	.01387	.69967	.06017	-.03571	.00007	.00291	-.01979	.67466	.19493	3.46108
.981	13.445	.01824	.83595	.06314	-.04024	.00013	.00315	-.02348	.79836	.25578	3.12126
.980	15.683	.02054	.94966	.06257	-.03895	-.00075	.00348	-.02633	.89739	.31694	2.83141
.981	17.896	.02614	1.06172	.06347	-.03822	-.00126	.00288	-.02758	.99084	.38666	2.58254
.981	20.138	.02874	1.19113	.06272	-.04139	-.00435	.00242	-.02762	1.09672	.46896	2.33859
.980	22.359	.02715	1.27951	.05961	-.03507	-.00966	.00283	-.02852	1.16065	.54186	2.14198
GRADIENT		.00218	.05642	-.00033	-.00248	.00027	-.00002	-.00116	.05529	.00187	-.77729

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5006) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWI/VFB)

PARAMETRIC DATA

BETA = .000 MINGNO = 1.000
 LAMDAF = 73.000 ELEVTR = .000
 BDFLAF = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 91/0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.199	-.00676	-.11280	.06818	-.00533	-.00223	.00191	-.00399	-.11010	-.07246	-1.51953
1.200	.018	.00050	.00672	.07132	-.00225	-.00167	.00175	-.00715	.00670	.07132	.09388
1.200	2.254	.00565	.12241	.07107	-.00879	-.00136	.00181	-.01003	.11952	.07583	1.57607
1.200	4.474	.00691	.25118	.06972	-.01617	-.00094	.00169	-.01100	.24506	.08811	2.78140
1.200	6.725	.00921	.38455	.06826	-.02347	-.00037	.00200	-.01268	.37415	.11084	3.37565
1.200	8.969	.01082	.51492	.06445	-.02944	.00037	.00210	-.01392	.49657	.14394	3.46368
1.200	11.245	.01521	.64258	.06411	-.03442	.00032	.00201	-.01594	.61774	.18819	3.28255
1.200	13.496	.02007	.76868	.06405	-.03839	.00027	.00195	-.01835	.73250	.24167	3.05098
1.200	15.736	.02441	.88865	.06324	-.04190	.00054	.00201	-.02106	.83818	.30191	2.77628
1.200	17.989	.02869	1.00583	.06218	-.04409	.00097	.00200	-.02350	.93745	.36978	2.53518
1.200	20.236	.03245	1.11176	.06139	-.04375	.00169	.00219	-.02653	1.02190	.44216	2.31117
1.200	GRADIENT	.00207	.05426	.00006	-.00319	.00019	.00000	-.00107	.05294	.00231	.64637

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

(RP5F06) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BCLVFS)

PARAMETRIC DATA

BETA = .000 MINGNO = 1.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 95/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFE2	CFC1	CFC2
.349	-2.063	166.25885	-.04118	-.06538	-.10800	-.02998
.350	.020	167.00753	-.04149	-.06748	-.10897	-.03178
.350	2.103	167.00753	-.04389	-.06987	-.10849	-.03082
.350	4.181	166.63322	-.04687	-.07384	-.11401	-.03232
.350	6.304	166.63322	-.05024	-.07814	-.11930	-.03616
.349	8.385	166.63322	-.05361	-.08484	-.12026	-.04287
.349	10.469	166.53939	-.05653	-.09493	-.11670	-.05681
.349	12.581	166.35244	-.07635	-.09982	-.09783	-.08569
.349	14.681	166.53987	-.10364	-.11454	-.11550	-.11150
.349	16.799	166.44604	-.11871	-.13183	-.13482	-.10885
.349	18.962	166.25885	-.10581	-.15018	-.14316	-.13620
.349	21.004	166.44651	-.16640	-.22850	-.20939	-.19222
GRADIENT		.05402	-.00094	-.00133	-.00284	-.00029

RUN NO. 94/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.139	310.87382	-.01052	-.04223	-.06833	-.01613
.799	.032	310.84879	-.01207	-.04301	-.06405	-.01742
.800	2.216	311.36235	-.01207	-.04322	-.05960	-.01485
.800	4.389	311.36235	-.01413	-.04654	-.06757	-.01459
.800	6.600	311.57608	-.01851	-.05215	-.06702	-.02357
.801	8.762	311.83787	-.03626	-.07281	-.08419	-.04381
.800	10.929	311.49646	-.06562	-.10586	-.11279	-.07437
.799	13.107	310.80042	-.11914	-.12297	-.12666	-.10126
.799	15.325	310.70827	-.13828	-.14326	-.14886	-.14087
.799	17.624	311.22191	-.14554	-.15455	-.16768	-.16094
.799	19.813	311.02686	-.18249	-.19690	-.21283	-.20145
.799	21.958	311.13601	-.28167	-.30924	-.30439	-.29068
GRADIENT		.09097	-.00050	-.00060	-.00010	-.00033



DATE 07 JUL 73 TABULATED SOURCE DATA-LA7C 644 (RP5FD6) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

PARAMETRIC DATA
BETA = .000 MINGNO = 1.000
LAMDAF = 78.000 ELEVTR = .000
BDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ. IN.
LREF = 29.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

RUN NO. 93/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.177	355.39840	-.07619	-.01963	-.01292	-.01585
.899	.001	355.22001	-.01161	-.02189	-.01788	-.01991
.901	2.210	355.62691	-.01950	-.03082	-.02687	-.02977
.900	4.438	355.45783	-.01409	-.05212	-.05189	-.050641
.899	6.622	354.55201	-.02633	-.08905	-.08521	-.04315
.899	8.844	355.05549	-.06627	-.11634	-.12862	-.08270
.899	11.027	354.72157	-.10793	-.16720	-.19534	-.09922
.900	13.292	355.25213	-.14141	-.22660	-.24193	-.15374
.900	15.515	355.38014	-.16573	-.26664	-.27790	-.20292
.899	17.752	354.84970	-.20778	-.32590	-.33766	-.23115
.900	19.965	355.35273	-.31761	-.32651	-.32907	-.32437
.899	22.140	354.96380	-.45509	-.49068	-.47269	-.46654
GRADIENT		.02657	-.00143	-.00483	-.00572	.00085

RUN NO. 92/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.206	385.29419	-.13830	-.15375	-.15013	-.15047
.980	.014	385.01924	-.13703	-.14816	-.15595	-.15213
.981	2.215	385.58417	-.14557	-.15166	-.16984	-.16289
.981	4.443	385.41658	-.15583	-.15897	-.18280	-.17479
.980	6.693	385.24787	-.18338	-.18468	-.21365	-.20349
.980	8.938	385.12574	-.23088	-.23269	-.25756	-.24896
.980	11.200	385.47028	-.28340	-.28361	-.30770	-.29817
.981	13.445	385.56899	-.33048	-.33059	-.35906	-.34881
.980	15.683	385.21709	-.36987	-.37241	-.39822	-.38932
.981	17.896	385.58384	-.41690	-.41994	-.44328	-.43430
.981	20.138	385.80067	-.44548	-.44627	-.48966	-.47105
.980	22.359	385.46176	-.47796	-.49402	-.51380	-.47338
GRADIENT		.04195	-.00276	-.00587	-.00505	-.00378

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (S41VFB)

(RF5F06) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 19.7156 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 78.000 ELEVTR = .000
 SDFLAP = .000 RUDEFLE = .000

RUN NO. 91/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.199	440.45128	-2.2902	-2.1737	-2.1396	-2.20681
1.200	.018	440.57343	-2.2435	-2.3042	-2.2927	-2.22299
1.200	2.254	440.59476	-2.3058	-2.3354	-2.4040	-2.3519
1.200	4.474	440.56569	-2.3372	-2.2654	-2.4681	-2.24358
1.200	6.725	440.61608	-2.4446	-2.3846	-2.6043	-2.25808
1.200	8.969	440.55208	-2.5707	-2.2515	-2.7485	-2.27102
1.200	11.245	440.50168	-2.7783	-2.2757	-2.29576	-2.29080
1.200	13.496	440.60248	-3.0803	-3.0432	-3.2664	-3.2197
1.200	15.738	440.40679	-3.2760	-3.3751	-3.4365	-3.4057
1.200	17.989	440.39319	-3.5424	-3.6777	-3.6352	-3.5877
1.200	20.236	440.34279	-3.8813	-3.8877	-4.0264	-3.9835
	GRADIENT	.01637	-.00361	-.00138	-.00493	-.00324

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5007) (19 MAY 73) LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM2VFB)

REFERENCE DATA

SREF = 171.4770 SQ.IN. XREF = 16.8633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 20.3597 INCHES ZREF = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANKAF = 46.800 ELEVTR = .000
BDELAP = .000 RUFLR = .000

RUN NO. 20/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.034	-.00168	-.05197	.01949	-.00310	-.00350	.00085	-.00108	-.05124	.02132	-2.40379
.350	.035	.00247	.04127	.02161	-.00356	-.00363	.00049	-.00545	.04126	.02164	1.90686
.350	2.105	.00465	.13457	.01972	-.00359	-.00360	.00002	-.00658	.13375	.02465	5.42649
.350	4.215	.00535	.23891	.01341	-.00352	-.00368	-.00011	-.00707	.23728	.03093	7.67139
.350	6.289	.00656	.33739	.00356	-.00343	-.00376	-.00022	-.00831	.33497	.04590	8.27160
.350	8.382	.00718	.44539	-.01143	-.00331	-.00349	-.00024	-.00917	.44229	.05362	8.24861
.350	10.472	.01008	.55733	-.02319	-.00315	-.00453	-.00016	-.00769	.55226	.07849	7.03598
.349	12.542	.00899	.64381	-.01271	-.00592	-.00473	-.00017	-.00983	.63121	.12740	4.95464
.349	14.591	.00842	.70379	-.00220	-.00669	-.00569	-.00010	-.01327	.68164	.17517	3.89126
.349	16.649	.00959	.76288	.00538	-.00774	-.00450	.00065	-.01668	.72945	.22375	3.26006
.348	18.677	.01043	.80506	.01495	-.00912	-.00320	.00103	-.01973	.75787	.27197	2.78663
.351	20.693	.01305	.82516	.02535	-.00963	-.00232	.00060	-.02183	.76297	.31530	2.41985
GRADIENT		.00112	.04641	-.00797	-.00006	-.00002	-.00016	-.00092	.04603	.00153	1.61998

RUN NO. 19/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.790	-2.110	-.00310	-.05873	.01898	-.00483	-.00386	.00119	-.00248	-.05799	.02113	-2.74400
.799	.048	.00307	.04927	.02176	-.00569	-.00369	.00065	-.00495	.04925	.02181	2.25863
.799	2.240	.00944	.16682	.02007	-.00661	-.00392	.00039	-.00866	.16591	.02658	6.24206
.799	4.425	.01049	.28586	.01669	-.00743	-.00370	.00024	-.00890	.28372	.03870	7.33202
.799	6.639	.01137	.39530	.01767	-.00760	-.00274	.00009	-.01019	.39064	.06305	6.19584
.799	8.724	.01237	.47249	.02055	-.00726	-.00370	.00033	-.01075	.46391	.09198	5.04370
.799	10.849	.01356	.55425	.02541	-.00813	-.00357	.00036	-.01184	.53957	.12928	4.17375
.799	12.941	.01503	.61283	.03215	-.00840	-.00344	.00038	-.01313	.59006	.16857	3.50031
.799	15.032	.01684	.66828	.04031	-.00807	-.00366	.00049	-.01510	.63496	.21226	2.99143
.800	17.090	.01840	.69733	.04840	-.00605	-.00435	.00069	-.01528	.65232	.25119	2.59695
.799	19.153	.01922	.73972	.05533	-.00480	-.00389	.00099	-.01566	.68061	.29497	2.30742
.799	21.235	.02382	.78372	.05970	-.00458	-.00317	-.00088	-.01564	.70889	.33950	2.08802
GRADIENT		.00216	.05282	-.00079	-.00040	-.00001	-.00014	-.00105	.05239	.00264	1.56858

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMCVFB)

(RP5007) (19 MAY 75)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 23.9100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAMBDAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 16/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.169	-.00728	-.07430	.02850	-.00714	-.00294	.00254	-.00549	-.07317	.03129	-2.33831
.899	.034	-.00194	.03552	.03039	-.00811	-.00183	.00162	-.00766	.03550	.03041	1.16735
.900	2.243	.00756	.15764	.03044	-.00879	-.00297	.00113	-.00958	.15632	.03659	4.27255
.899	4.465	.01195	.27718	.02844	-.00797	-.00251	.00081	-.01121	.27413	.04993	5.48996
.898	6.664	.01310	.30699	.02872	-.00805	-.00336	.00125	-.01376	.38105	.07343	5.18928
.899	8.859	.01574	.50137	.03227	-.01175	-.00385	.00058	-.01284	.49042	.10910	4.49508
.900	10.984	.01744	.58063	.04072	-.01340	-.00408	-.00043	-.00994	.56223	.15061	3.73302
.898	13.108	.01884	.65489	.04681	-.01656	-.00288	.00024	-.01373	.62722	.19410	3.23137
.900	15.237	.02123	.73402	.05427	-.01912	-.00253	.00091	-.01818	.69395	.24527	2.82931
.900	17.337	.01914	.79317	.06247	-.01883	-.00388	.00132	-.01858	.73881	.29608	2.49534
.899	19.428	.02320	.83722	.06841	-.01848	-.00239	.00230	-.02556	.76679	.34299	2.23560
.899	21.495	.02590	.87788	.07180	-.01801	-.00322	.00001	-.01841	.79052	.38847	2.03496
GRADIENT		.00286	-.00201	-.00014	-.00014	.00010	-.00026	-.00085	.05259	.00281	1.20210

RUN NO. 17/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.182	-.00667	-.12344	.06857	.00625	-.00397	.00226	-.00388	-.12074	.07322	-1.64906
.980	.045	-.00019	.01706	.07118	-.00132	-.00386	.00215	-.00859	.01701	.07119	.23887
.980	2.262	.00673	.15827	.07090	-.00902	-.00375	.00187	-.01166	.15335	.07709	2.01517
.980	4.523	.00855	.32651	.07094	-.01945	-.00320	.00205	-.01354	.31990	.09646	3.31630
.979	6.752	.01121	.48023	.07141	-.02896	-.00212	.00175	-.01397	.46848	.12746	3.67566
.979	8.983	.01319	.61529	.07154	-.03564	-.00257	.00169	-.01496	.59657	.16673	3.57797
.981	11.198	.01747	.73750	.07271	-.04144	-.00327	.00127	-.01596	.70934	.21454	3.30630
.980	13.399	.02402	.86219	.07382	-.04794	-.00345	.00087	-.01854	.82162	.27161	3.02504
.980	15.596	.02873	.98449	.07345	-.05445	-.00361	.00063	-.02167	.92796	.33736	2.75066
.980	17.771	.03055	1.07832	.07710	-.05642	-.00393	.00075	-.02250	1.00334	.40254	2.49254
.979	19.877	.02496	1.13620	.08246	-.05421	-.00289	.00394	-.03211	1.04047	.46386	2.24306
.979	21.992	.01625	1.17555	.08621	-.05142	-.00186	.00484	-.03028	1.05772	.52016	2.03347
GRADIENT		.00262	.06678	.00031	-.00011	.00011	-.00004	-.00143	.06540	.00339	.74632

PARAMETRIC DATA



DATE 07 JUL 73

(RF5007) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWC/VFB)

UNCLASSIFIED SOURCE DATA-LARC 644

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3397 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAMDAF = 46.800 ELEVTR = .000
 SDFLAP = .000 RUDFLR = .000

PARAMETRIC DATA

RUN NO. 16/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.155	-.00670	-.09341	.07555	.00439	-.00304	.00125	-.00188	-.09050	.07901	-1.14545
1.199	.064	.00332	.03369	.07836	-.00418	-.00282	.00118	-.00654	.03361	.07839	.42869
1.199	2.282	.00779	.16649	.07976	-.01346	-.00257	.00135	-.00963	.16318	.08633	1.89019
1.199	4.535	.00991	.30811	.08043	-.02335	-.00217	.00145	-.01115	.30079	.10454	2.87716
1.200	6.762	.01109	.44383	.08033	-.03239	-.00223	.00161	-.01247	.43128	.13203	3.26659
1.199	8.903	.01231	.57286	.07928	-.04020	-.00164	.00188	-.01426	.55342	.16785	3.29715
1.199	11.232	.01437	.69770	.07894	-.04710	-.00212	.00222	-.01680	.66896	.21333	3.13586
1.200	13.454	.01675	.80912	.07800	-.05083	-.00316	.00250	-.01927	.76876	.26411	2.91072
1.199	15.668	.01964	.91561	.07695	-.05291	-.00471	.00263	-.02164	.86081	.32136	2.67863
1.199	17.862	.02397	1.00168	.07810	-.05294	-.00329	.00243	-.02323	.92944	.38157	2.43580
1.199	20.057	.02462	1.08351	.07867	-.05293	-.00349	.00254	-.02425	.99162	.44550	2.22409
1.199	21.501	.02470	1.13697	.07902	-.05360	-.00318	.00293	-.02670	1.03059	.48665	2.11773
1.199	GRADIENT	.05234	.06701	.00072	-.00418	.00013	.00203	-.00139	.05849	.00380	.60379

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LPEF = 25.5100 INCHES
 BRFP = 20.3597 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LANDAF = 46.800 ELEVTR = .000
 EDPLAP = .000 RUBFLR = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.034	167.19681	-.02801	-.05739	-.09301	-.03689
.350	.035	167.38417	-.02894	-.05628	-.09147	-.03695
.350	2.105	167.38417	-.02942	-.05876	-.09004	-.03695
.350	4.215	167.38417	-.03181	-.05923	-.08860	-.03638
.350	6.289	167.38417	-.03373	-.06446	-.09960	-.03933
.350	8.382	167.29061	-.03662	-.07211	-.10731	-.04643
.350	10.472	167.10324	-.04337	-.08363	-.11461	-.05804
.349	12.542	166.44792	-.06087	-.10630	-.13957	-.07937
.349	14.591	166.54175	-.08730	-.15083	-.17314	-.11722
.349	16.649	166.54175	-.11666	-.19195	-.20966	-.14840
.348	18.677	165.60565	-.16570	-.26754	-.30652	-.19312
.351	20.693	168.22605	-.22416	-.34815	-.40790	-.25712
GRADIENT		.02693	-.06057	-.09029	-.09070	.00007

RUN NO. 19/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.110	311.25760	-.01568	-.03068	-.03902	-.02306
.799	.048	310.94721	-.02082	-.02941	-.02899	-.02563
.799	2.240	311.14855	-.02185	-.02915	-.02667	-.02537
.799	4.425	310.88007	-.02521	-.03248	-.02951	-.02897
.799	6.679	310.95347	-.03139	-.04374	-.04263	-.03564
.799	8.724	311.22191	-.03782	-.06777	-.08556	-.04693
.799	10.849	310.88633	-.06310	-.10575	-.13841	-.07522
.799	12.941	311.07518	-.12183	-.16891	-.20730	-.13400
.799	15.032	311.22191	-.20805	-.25787	-.31264	-.21146
.800	17.090	311.35607	-.30373	-.35674	-.41688	-.31170
.799	19.153	311.14855	-.38404	-.43501	-.48737	-.38790
.799	21.235	311.09398	-.43872	-.48320	-.52501	-.42468
GRADIENT		-.04263	-.00136	-.06024	-.00141	-.00000



DATE 07 JUL 73 (RP5FD7) (19 MAY 73)

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (Bx2VFB)

PARAMETRIC DATA
BETA = .000 WINGNO = 2.000
LAMDAF = 46.800 ELEVTR = .500
BDFLAP = .000 RUDFLR = .500

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 18/ 0 RM/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.169	354.83564	-.00351	-.01764	-.00373	-.01766
.899	.034	354.95470	-.00462	-.01539	-.00552	-.01743
.900	2.243	355.36187	-.00286	-.01000	-.00238	-.01180
.899	4.465	354.76701	-.01343	-.01944	-.01451	-.01722
.898	6.664	354.71653	-.01863	-.04862	-.05964	-.02578
.899	8.859	354.99601	-.06016	-.11475	-.08755	-.07752
.900	10.984	355.43042	-.12030	-.18742	-.14982	-.12979
.898	13.108	354.58830	-.17799	-.24108	-.23211	-.18079
.900	15.237	355.18355	-.27022	-.32990	-.34980	-.27428
.899	17.337	355.01471	-.39181	-.44669	-.48727	-.39525
.899	19.428	354.88619	-.47913	-.53278	-.57179	-.48971
.899	21.495	354.76701	-.53509	-.58211	-.61913	-.52725
GRADIENT		.00895	-.00127	-.00000	-.00132	.00031

RUN NO. 17/ 0 RM/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.182	384.97420	-.15729	-.15010	-.16224	-.17089
.980	.045	384.79010	-.15571	-.14667	-.16670	-.17390
.980	2.262	384.92789	-.15866	-.15312	-.17464	-.18264
.980	4.523	384.75983	-.17596	-.17547	-.19711	-.20425
.979	6.762	384.42291	-.20260	-.20111	-.21562	-.22709
.979	8.983	384.60323	-.24111	-.23709	-.26051	-.25985
.981	11.198	385.41658	-.29135	-.28246	-.31895	-.31071
.980	13.399	385.03397	-.33547	-.32566	-.36095	-.35242
.980	15.596	385.00360	-.38632	-.37762	-.41132	-.40186
.980	17.771	385.62934	-.45111	-.45088	-.46414	-.45730
.979	19.877	385.03328	-.54128	-.54211	-.56127	-.56149
.979	21.992	384.75866	-.59370	-.59916	-.60947	-.61314
GRADIENT		-.02269	-.00265	-.00371	-.00505	-.00288

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

REFERENCE DATA

XREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUDPLR = .000

RUN NO. 16/ D RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.199	-2.155	439.95477	-21668	-22283	-22125	-21721
1.199	.064	440.09220	-21799	-21527	-21892	-22415
1.199	2.282	440.09220	-22236	-21491	-22602	-23595
1.199	4.535	440.01899	-23357	-22296	-23648	-24911
1.200	6.762	440.49159	-24962	-23873	-25505	-26220
1.199	8.993	439.96857	-26308	-25391	-26668	-27545
1.199	11.232	440.12745	-28646	-27877	-29093	-29493
1.200	13.454	440.19155	-30388	-31055	-31614	-31502
1.199	15.668	439.97619	-32639	-33490	-34226	-33854
1.199	17.862	440.08463	-37380	-37132	-38069	-38634
1.199	20.057	440.10605	-42119	-42564	-43329	-43412
1.199	21.301	439.91434	-45627	-46448	-47433	-47073
1.199	GRADIENT	.CFB858	-00247	-00001	-00237	-00483

DATE 27 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (842VFB)

(RF5008) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 50/ D RVL = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.348	-2.111	-.00181	-.06029	.01983	-.00340	-.00407	.00120	-.00229	-.05952	.02204	-2.70035
.348	.115	.00208	.04122	.02229	-.00333	-.00380	.00047	-.00484	.04117	.02238	1.84005
.348	2.188	.00462	.13863	.02012	-.00323	-.00395	.00000	-.00656	.13776	.02540	5.42351
.347	4.303	.00659	.23831	.01405	-.00269	-.00388	-.00019	-.00863	.23658	.03189	7.41777
.348	6.414	.00676	.34356	.00509	-.00248	-.00395	-.00019	-.00888	.34107	.04144	8.22965
.348	8.430	.00713	.44415	-.01042	-.00218	-.00388	-.00035	-.00880	.44088	.05481	8.04423
.348	10.501	.01004	.55701	-.02041	-.00362	-.00422	-.00107	-.01014	.55140	.08145	6.77003
.348	12.540	.00845	.68289	-.00997	-.00358	-.00405	-.00091	-.01598	.61416	.13255	4.63348
.347	14.708	.01015	.70659	-.00180	-.00294	-.00396	.00053	-.01706	.68389	.17766	3.84944
.347	16.856	.01131	.76180	.00541	-.00228	-.00296	.00008	-.01714	.72808	.22416	3.24806
.347	18.854	.01156	.81699	.01253	-.00191	-.00427	-.00012	-.01690	.76910	.27587	2.78795
.347	20.693	.00899	.84187	.02106	-.00527	-.00595	.00036	-.01514	.78012	.31719	2.45946
.347	GRADIENT	.00130	.04659	-.00090	.00010	.00002	-.00022	-.00097	.04620	.00152	1.59469

PARAMETRIC DATA

BETA = .000 MINGNO = 2.000
 LAMCAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 49/ D RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-1.921	-.00264	-.05266	.01975	-.00501	-.00406	.00104	-.00224	-.05197	.02151	-2.41624
.800	.075	.00363	.04740	.02217	-.00566	-.00385	.00056	-.00500	.04737	.02223	2.13047
.798	2.221	.00882	.15880	.02037	-.00591	-.00396	.00031	-.00791	.15789	.02651	5.95377
.799	4.468	.01089	.28457	.01709	-.00651	-.00365	.00035	-.00965	.28238	.03921	7.20172
.798	6.638	.01284	.39343	.01847	-.00697	-.00375	.00007	-.01002	.38866	.06382	6.08965
.799	8.753	.01391	.48118	.02078	-.00623	-.00381	.00016	-.01122	.47241	.09376	5.03832
.800	10.898	.01749	.54557	.02628	-.00425	-.00203	.00213	-.02201	.53076	.17995	4.11807
.798	13.035	.01773	.62568	.02994	-.00389	-.00257	.00058	-.01636	.62280	.17030	3.53975
.799	15.055	.02082	.69417	.03474	-.00376	-.00209	.00090	-.01989	.66132	.21386	3.09234
.798	17.192	.02176	.74364	.04273	-.00209	-.00389	.00014	-.01774	.69779	.26063	2.67729
.799	19.180	.03061	.77628	.05099	-.00121	-.00335	-.00016	-.02415	.71644	.30320	2.36297
.799	21.283	.04630	.80174	.05933	-.00042	-.00182	-.00167	-.03068	.72552	.34629	2.09512
.798	GRADIENT	.00214	.05273	-.00047	-.00022	.00005	-.00011	-.00118	.05228	.00272	1.52331

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ.IN. XREF = 16.9633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.3597 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .0000 WINGNO = 2.000
 LANCAF = 55.0000 ELEVTR = .000
 BFLAP = .0000 RUFLR = .000

RUN NO. 48/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.094	-.00552	-.06823	.02826	-.00810	-.00237	.00160	-.00284	-.06715	.03074	-2.18456
.899	.077	.00370	.03747	.03050	-.00832	-.00153	.00085	-.00588	.03743	.03055	1.22510
.898	2.310	.00900	.16138	.02999	-.00861	-.00124	.00062	-.00844	.16004	.03647	4.38830
.898	4.475	.01272	.27445	.02829	-.00704	-.00322	.00030	-.00966	.27140	.04962	5.46955
.899	6.645	.01497	.38671	.03085	-.00790	-.00290	.00071	-.01284	.38055	.07539	5.04785
.898	8.933	.01699	.50563	.03332	-.01061	-.00526	-.00052	-.00923	.49433	.11143	4.43615
.899	11.044	.02079	.67326	.03970	-.00941	-.00123	.00141	-.01971	.55504	.14878	3.73063
.899	13.224	.02376	.87669	.04518	-.01236	-.00150	.00058	-.01644	.64840	.19879	3.26178
.899	15.324	.02155	.74726	.05035	-.01369	-.00351	.00070	-.01737	.70738	.24604	2.87510
.896	17.552	.02522	.81976	.05817	-.01368	-.00328	.00090	-.02115	.76405	.30268	2.52430
.898	19.495	.03235	.85716	.06438	-.01318	-.00056	.00236	-.03223	.78654	.34675	2.26832
.895	21.544	.04505	.88937	.06967	-.01251	-.00211	.00158	-.03845	.80165	.39139	2.04820
GRADIENT	.00274	.05251	-.00002	.00013	-.00010	-.00010	-.00019	-.00105	.05189	.00285	1.19137

RUN NO. 47/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.140	-.00771	-.12149	.06881	.00598	-.00401	.00223	-.00434	-.11884	.07330	-1.62135
.980	.082	.00114	.01546	.07083	-.00120	-.00368	.00175	-.00778	.01536	.07085	2.1672
.980	2.351	.00604	.16308	.07085	-.00905	-.00358	.00172	-.01064	.16903	.07748	2.06548
.980	4.575	.00935	.32670	.07171	-.01929	-.00354	.00192	-.01348	.31993	.09754	3.27996
.978	6.735	.01179	.47274	.07120	-.02781	-.00237	.00215	-.01592	.46113	.12615	3.65543
.980	8.990	.01244	.61646	.07464	-.03556	-.00439	.00224	-.01671	.59722	.17005	3.51213
.981	11.229	.01439	.75206	.07567	-.04273	-.00548	.00237	-.01852	.72552	.22067	3.27601
.979	13.443	.02179	.87657	.07472	-.04844	-.00966	.00193	-.02143	.83518	.27646	3.02102
.981	15.659	.02662	1.01682	.07801	-.05724	-.00648	.00179	-.02398	.95514	.34923	2.74362
.980	17.827	.02994	1.07757	.07545	-.05081	-.00278	.00171	-.02602	1.00274	.40171	2.49620
.981	20.017	.01840	1.14675	.07984	-.04883	-.00098	.00065	-.03101	1.05015	.46755	2.24679
.979	22.044	.01945	1.17354	.08430	-.04605	.00015	.00029	-.04231	1.05611	.51859	2.03649
GRADIENT	.00250	.06657	-.00039	.00037	-.00007	-.00007	-.00004	-.00135	.06518	.00354	-.73859

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5008) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 55.000 ELEVTR = .000
 BCFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 171.4720 SG.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 46/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.105	-.00585	-.09241	.07528	.00439	-.00313	.00150	-.00296	-.08959	.07863	-1.13940
1.200	.095	.00300	.03306	.07813	-.00379	-.00277	.00131	-.00691	.03293	.07819	.42116
1.200	2.312	.00803	.16229	.07925	-.01222	-.00254	.00143	-.01008	.15896	.08574	1.85401
1.200	4.574	.01050	.30504	.07947	-.02144	-.00244	.00151	-.01171	.29774	.10354	2.87566
1.199	6.780	.01205	.43855	.07924	-.02986	-.00229	.00157	-.01283	.42613	.13046	3.26639
1.199	9.031	.01283	.57123	.07885	-.03743	-.00232	.00185	-.01442	.55179	.16754	3.29344
1.199	11.203	.01493	.69116	.07858	-.04379	-.00296	.00220	-.01701	.66272	.21136	3.13546
1.199	13.526	.01851	.81724	.07832	-.04919	-.00362	.00238	-.01977	.77625	.26728	2.90428
1.199	15.687	.02160	.92667	.07735	-.05266	-.00365	.00253	-.02219	.87124	.32503	2.68051
1.199	17.980	.02805	1.02588	.07662	-.05259	-.00426	.00259	-.02506	.95226	.38922	2.44659
1.199	20.166	.03030	1.09945	.07735	-.05012	-.00545	.00140	-.02281	1.00539	.45163	2.22611
1.199	GRADIENT	.00243	.05940	.00061	-.00386	.00010	.00001	-.00132	.05789	.00371	.60527

REFERENCE DATA
 SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 55.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

50/0 RVL = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.111	164.85282	-.02642	-.02851	-.03184	-.02036
.348	.115	165.04058	-.02785	-.03054	-.02693	-.02472
.348	2.188	164.85282	-.02982	-.03056	-.02720	-.02550
.347	4.303	164.75893	-.03178	-.06277	-.03028	-.02858
.348	6.414	165.13399	-.03220	-.06601	-.03933	-.03580
.348	8.430	165.13399	-.03463	-.07179	-.08304	-.04912
.348	10.501	165.04012	-.04242	-.08389	-.11407	-.07807
.348	12.540	164.85282	-.06143	-.11103	-.14382	-.13808
.347	14.708	164.75916	-.08481	-.14443	-.17402	-.19484
.347	16.856	164.57184	-.12144	-.19636	-.22188	-.23424
.347	18.854	164.29061	-.16750	-.26405	-.28316	-.32777
.347	20.693	164.19716	-.23106	-.33983	-.37692	-.02073
	GRADIENT	-.02147	-.07085	-.09068	-.09908	

49/0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.798	-1.921	310.55046	-.01411	-.02851	-.03184	-.02036
.800	.075	311.35607	-.02160	-.03054	-.02693	-.02472
.798	2.221	310.74577	-.02263	-.03056	-.02720	-.02550
.799	4.468	311.08145	-.02572	-.03388	-.03028	-.02858
.798	6.638	310.34259	-.03193	-.04289	-.03933	-.03580
.799	8.753	311.01433	-.03796	-.06690	-.08304	-.04912
.800	10.898	311.42313	-.07977	-.11848	-.11997	-.07807
.798	13.035	310.75202	-.11962	-.16660	-.21241	-.13808
.799	15.055	310.85505	-.18226	-.23571	-.28806	-.19484
.798	17.192	310.59270	-.28228	-.33689	-.39962	-.30763
.799	19.180	310.72702	-.37375	-.42617	-.49219	-.38103
.798	21.283	310.34881	-.46741	-.51876	-.57220	-.43551
	GRADIENT	.04452	-.00167	-.09076	-.09018	-.00119

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&2VFB)

(RP5P08) (19 MAY 75)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 48/ 0 RNL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.094	354.51057	-.00199	-.01060	-.00126	-.01216
.899	.077	354.77609	-.00373	-.01259	-.00485	-.01485
.898	2.310	354.48719	-.00507	-.01215	-.00507	-.01261
.898	4.475	354.32268	-.01164	-.01957	-.01340	-.01419
.899	6.645	354.95470	-.02314	-.04892	-.03007	-.03015
.898	8.933	354.65695	-.05661	-.09812	-.07004	-.06666
.899	11.044	354.66021	-.11695	-.19037	-.12962	-.12205
.899	13.224	354.98198	-.18234	-.26467	-.22692	-.18046
.899	15.324	354.69837	-.25502	-.31850	-.34355	-.27473
.896	17.552	353.85746	-.36686	-.43133	-.46810	-.39999
.898	19.495	354.34983	-.45344	-.51835	-.55171	-.49794
.895	21.544	353.47162	-.53666	-.58743	-.62645	-.54685
	GRADIENT	-.03901	-.00138	-.00118	-.00167	-.00017

RUN NO. 47/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.140	385.14088	-.15397	-.14873	-.16017	-.16702
.980	.082	385.20195	-.15167	-.14459	-.16390	-.17033
.980	2.351	385.14088	-.15543	-.15121	-.17306	-.17946
.980	4.575	385.14088	-.17645	-.17519	-.19634	-.20145
.978	6.735	384.49677	-.19133	-.19307	-.21976	-.21706
.980	8.990	385.91812	-.24383	-.24926	-.26815	-.26440
.981	11.229	385.89211	-.29418	-.28655	-.32610	-.31602
.979	13.443	384.78888	-.32704	-.31834	-.35922	-.34655
.981	15.639	386.72690	-.37577	-.36822	-.40854	-.39686
.980	17.827	385.44572	-.43088	-.43429	-.44603	-.44439
.981	20.017	385.43247	-.52520	-.52900	-.53626	-.53526
.979	22.044	384.72778	-.57836	-.58346	-.58688	-.59179
	GRADIENT	-.00276	-.00317	-.00384	-.00525	-.00501

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB)

(RPSFD6) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 MINGMO = 2.000
 LAMDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 46/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.105	440.42992	-.21691	-.22074	-.22147	-.21748
1.200	.095	440.32910	-.22019	-.21894	-.22039	-.22637
1.200	2.312	440.37951	-.22565	-.21857	-.22965	-.23797
1.200	4.574	440.42992	-.23602	-.22526	-.24128	-.24939
1.199	6.780	440.48799	-.24775	-.23727	-.25482	-.26090
1.199	9.031	440.28006	-.26449	-.25949	-.27426	-.27414
1.199	11.203	440.43137	-.28175	-.27393	-.28568	-.29061
1.199	13.526	440.28006	-.30399	-.31302	-.31680	-.31278
1.199	15.687	440.43137	-.32161	-.33359	-.33711	-.33106
1.199	17.960	440.25106	-.35120	-.35937	-.36504	-.36255
1.199	20.166	440.40993	-.39765	-.39736	-.39578	-.41717
	GRADIENT	.00235	-.00283	-.00060	-.00309	-.00482

DATE 07 JUL 73 TABULATED SOURCE DATA--LARC 644

(RP5009) (19 MAY 75)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGHO = 2.000
 LAMDAF = 60.000 ELEVTR = .000
 BCFLAP = .000 RUCFLR = .000

RUN NO. 45/ D RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.026	-.00088	-.05439	.01985	-.00328	-.00376	.00081	-.00205	-.05366	.02176	-2.46597
.349	.066	.00258	.04164	.02214	-.00320	-.00382	.00036	-.00511	.04161	.02219	1.87555
.349	2.136	.00580	.13414	.02009	-.00285	-.00370	-.00023	-.00722	.13330	.02508	5.31574
.350	4.228	.00639	.23899	.01401	-.00219	-.00390	-.00046	-.00712	.23731	.03159	7.51152
.350	6.316	.00726	.34048	.00354	-.00177	-.00389	-.00033	-.00891	.33803	.04097	8.24965
.350	8.395	.00761	.44293	-.00989	-.00129	-.00384	-.00054	-.00862	.43963	.05488	8.01088
.350	10.501	.01132	.55978	-.01896	-.00271	-.00429	-.00171	-.00924	.62091	.13322	6.64286
.349	12.565	.00965	.63502	-.00504	-.00228	-.00254	.00014	-.01446	.70340	.17715	3.97566
.349	14.642	.01075	.72534	-.00641	-.00167	-.00331	.00024	-.01664	.76073	.22211	3.42509
.349	16.717	.01331	.79247	-.00610	-.00116	-.00085	.00048	-.02155	.76364	.26922	2.83648
.349	18.708	.01433	.80965	-.00706	-.00072	-.00079	.00090	-.02497	.82247	.32717	2.51384
.349	20.778	.01366	.88504	.01412	-.00174	-.00335	.00051	-.02265	.94631	.00155	1.60193
GRADIENT		.00120	.04669	-.00094	.00017	-.00001	-.00021	-.00083			

RUN NO. 44/ D RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.084	-.00239	-.06142	.01922	-.00478	-.00385	.00101	-.00230	-.06068	.02145	-2.82943
.799	.078	.00426	.04789	.02202	-.00518	-.00403	.00053	-.00535	.04786	.02208	2.16744
.800	2.259	.00959	.16268	.02039	-.00559	-.00403	.00021	-.00805	.16175	.02678	6.03934
.798	4.449	.01193	.28336	.01700	-.00593	-.00383	.00018	-.00972	.28119	.03692	7.22394
.798	6.623	.01331	.39150	.01829	-.00566	-.00354	.00012	-.01056	.38678	.06332	6.10842
.799	8.744	.01305	.47115	.02202	-.00490	-.00232	.00052	-.01206	.46233	.09339	4.99033
.799	10.912	.01668	.56924	.02352	-.00432	-.00132	.00094	-.01662	.55449	.13085	4.23752
.799	13.018	.01921	.61745	.02936	-.00100	-.00148	.00070	-.01769	.59497	.16769	3.54798
.799	15.157	.02197	.71427	.03290	-.00208	-.00300	.00040	-.01875	.68078	.21850	3.11507
.799	17.262	.02107	.7137	.03638	.00027	-.00424	.00041	-.01823	.72523	.26555	2.73109
.798	19.352	.02269	.82202	.04674	.00231	-.00431	.00040	-.01972	.76032	.31583	2.40734
.799	21.420	.02598	.84772	.05111	.00543	-.00354	-.00031	-.01974	.77050	.35717	2.15722
GRADIENT		.00222	.05276	-.00038	-.00018	-.00000	-.00013	-.00115	.05232	.00263	1.56143

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMEVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 43/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.147	-.00426	-.57176	.02760	-.00747	-.00250	.00143	-.00298	-.07067	.03027	-2.53488
.900	.062	.00336	.03818	.03023	-.00766	-.00161	.00078	-.00538	.03815	.03027	1.26005
.901	2.247	.00926	.15466	.03062	-.00715	-.00110	.00046	-.00795	.15334	.03667	4.18217
.899	4.490	.01373	.27204	.02946	-.00565	-.00323	.00028	-.01021	.26889	.05067	5.30683
.897	6.701	.01472	.38678	.02926	-.00660	-.00386	.00055	-.01203	.38072	.07419	5.13162
.896	8.887	.01675	.50301	.03222	-.00912	-.00542	.00016	-.01186	.49200	.10954	4.49153
.899	11.067	.02024	.59802	.03663	-.00981	-.00623	-.00011	-.01292	.57986	.15074	3.84672
.899	13.219	.01775	.67767	.04265	-.00858	-.00754	-.00027	-.01089	.64996	.19649	3.30763
.898	15.352	.02343	.76168	.04667	-.01012	-.00393	.00044	-.01782	.72215	.24666	2.92773
.899	17.501	.02323	.83696	.05567	-.00985	-.00512	.00009	-.01641	.78148	.30479	2.56402
.898	19.604	.02459	.89315	.06218	-.00935	-.00410	.00164	-.02390	.82052	.35825	2.29057
.900	21.706	.02685	.94153	.06546	-.00784	-.00314	.00222	-.02801	.85056	.40903	2.07944
GRADIENT		.00271	.05195	.00027	-.00028	-.00008	-.00017	-.00110	.05132	.00306	1.16869

RUN NO. 42/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.165	-.00750	-.12625	.06825	.00658	-.00434	.00192	-.00324	-.12358	.07297	-1.69360
.980	.056	.00141	.01492	.07074	-.00248	-.00405	.00169	-.00771	.01485	.07075	.20992
.980	2.285	.00696	.15574	.07050	-.00780	-.00404	.00164	-.01089	.15280	.07665	1.99352
.980	4.556	.00974	.32122	.07091	-.01759	-.00355	.00187	-.01351	.31457	.09620	3.26981
.980	6.791	.01167	.47551	.07199	-.02637	-.00310	.00209	-.01561	.46367	.12772	3.63045
.980	9.017	.01373	.61303	.07308	-.03333	-.00426	.00174	-.01550	.59400	.16825	3.53046
.981	11.252	.01711	.75812	.07540	-.04244	-.00399	.00178	-.01779	.72883	.22189	3.28471
.979	13.462	.02339	.89964	.07629	-.05112	-.00342	.00144	-.02045	.85717	.28363	3.02216
.981	15.671	.02830	1.02448	.07823	-.05706	-.00342	.00136	-.02335	.96527	.35205	2.74187
.980	17.849	.03253	1.11378	.08062	-.05664	-.00792	.00011	-.02118	1.03546	.41813	2.47641
.980	20.032	.03048	1.15341	.07417	-.04563	-.00471	.00127	-.02485	1.05847	.46421	2.28014
GRADIENT		.00255	.06625	.00034	-.00357	.00011	-.00001	-.00152	.06487	.00339	.74427

TABLATED SOURCE DATA-LARC 644

LARC 8-FT YFT 644 LO-100 ORBITER (SHIPS) (BMCVFB)

(RP5009) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANCAP = 60.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 41/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.122	-.00451	-.09246	.07479	.00481	-.00310	.00130	-.00288	-.08963	.07817	-1.14663
1.201	.081	.00345	.03357	.07760	-.00318	-.00305	.00112	-.00636	.03346	.07765	.43087
1.201	2.322	.00811	.16462	.07869	-.01167	-.00295	.00133	-.00972	.16130	.08329	1.89114
1.201	4.566	.01071	.30769	.07866	-.02079	-.00248	.00138	-.01130	.30066	.10292	2.92135
1.201	6.808	.01235	.44376	.07837	-.02917	-.00230	.00149	-.01264	.43134	.13042	3.30726
1.201	9.050	.01373	.57693	.07828	-.03662	-.00256	.00175	-.01450	.55743	.16806	3.31681
1.200	11.295	.01528	.70261	.07820	-.04301	-.00291	.00211	-.01682	.67368	.21430	3.14361
1.200	13.525	.01894	.82693	.07817	-.04835	-.00320	.00228	-.01960	.78571	.26940	2.91653
1.201	15.765	.02216	.94194	.07728	-.05230	-.00321	.00238	-.02189	.88551	.33029	2.68105
1.201	17.971	.02491	1.04251	.07760	-.05372	-.00373	.00250	-.02404	.96771	.39547	2.44696
1.201	20.174	.02737	1.12045	.07767	-.05525	-.00378	.00256	-.02585	1.02492	.45932	2.23137
1.200	GRADIENT	.00225	.05973	.00057	-.00362	.00009	.00002	-.00128	.05823	.00368	.61239

(RP5P09) (19 MAY 73)

TABLATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (RM2VFB)

DATE 07 JUL 73

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANDAF = 60.000 ELEVTR = .000
BDPLAF = .000 RUJFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

45/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.026	166.16524	-.02575	-.05722	-.09308	-.04727
.349	.066	166.07140	-.02721	-.05965	-.09217	-.04297
.349	2.136	166.53963	-.02859	-.06045	-.09192	-.04094
.350	4.228	166.63322	-.03002	-.06185	-.09523	-.04379
.350	6.316	166.72633	-.03144	-.06516	-.09912	-.04904
.350	8.395	166.91396	-.03429	-.07177	-.10467	-.05760
.350	10.501	166.82014	-.04104	-.08182	-.11240	-.06960
.349	12.565	166.35221	-.06042	-.10884	-.14350	-.09139
.349	14.642	166.07164	-.07596	-.13729	-.16543	-.11366
.349	16.717	165.88395	-.10551	-.17439	-.19601	-.13352
.349	18.708	166.07164	-.16669	-.25711	-.28206	-.18530
.349	20.778	166.07164	-.20868	-.31894	-.34905	-.26561
	GRADIENT	.08977	-.09068	-.09071	-.09030	-.09060

44/ 0 RN/L = 1.68 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.084	311.76456	-.01157	-.02784	-.03565	-.02048
.799	.078	310.86756	-.02083	-.03017	-.02823	-.02511
.800	2.259	311.49018	-.02057	-.02964	-.02590	-.02407
.798	4.449	310.59270	-.02470	-.03402	-.03184	-.02871
.798	6.623	310.82543	-.02985	-.04220	-.03827	-.03435
.799	8.744	310.86756	-.04016	-.06730	-.07148	-.04900
.799	10.912	310.89258	-.06310	-.10543	-.12245	-.06980
.799	13.018	310.92843	-.12317	-.17225	-.21949	-.12630
.799	15.157	311.02060	-.17312	-.22696	-.27861	-.19174
.799	17.262	311.22191	-.25595	-.31353	-.36717	-.28297
.798	19.352	310.82543	-.35708	-.41607	-.48631	-.37811
.799	21.420	310.84879	-.43339	-.49159	-.56096	-.44977
	GRADIENT	-.13276	-.09179	-.09183	-.09163	-.09109

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNCVFB)

(RP5P09) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0186 SCALE

PARAMETRIC DATA

BETA = .000 MINGNO = 2.000
 LANCAF = 60.000 ELEVTR = .000
 BDPLAP = .000 RUDFLR = .000

RUN NO. 43/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.147	354.69837	-.00134	-.00993	-.00104	-.01091
.900	.062	355.13320	-.00308	-.01112	-.00372	-.01270
.900	2.247	355.38014	-.00374	-.01246	-.00372	-.01224
.899	4.490	355.14231	-.00687	-.01874	.00000	-.01135
.897	6.791	354.00633	-.02206	-.04712	-.03783	-.02694
.898	8.887	354.35887	-.05235	-.09020	-.07867	-.06636
.899	11.067	354.95470	-.10330	-.17033	-.12860	-.10630
.899	13.219	354.89518	-.17671	-.24864	-.25311	-.22197
.898	15.352	354.65695	-.24101	-.30626	-.33069	-.27143
.899	17.501	354.89518	-.35739	-.42604	-.46382	-.39726
.898	19.604	354.40946	-.45919	-.52387	-.56443	-.49537
.900	21.706	355.27037	-.52148	-.58332	-.62637	-.55486
GRADIENT		.07117	-.00078	-.00134	.00014	-.00004

RUN NO. 42/ 0 RNL = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.165	385.24787	-.15104	-.14612	-.15787	-.16301
.980	.056	385.43104	-.14998	-.14300	-.16387	-.16954
.980	2.285	385.43104	-.15248	-.14858	-.17114	-.17742
.980	4.556	385.12574	-.17197	-.17155	-.19218	-.19779
.980	6.791	385.29378	-.20244	-.20211	-.22913	-.22969
.980	9.017	385.47692	-.23774	-.23469	-.26375	-.25967
.981	11.252	385.61798	-.29258	-.28544	-.32535	-.31492
.979	13.462	385.17059	-.32552	-.31752	-.35994	-.34901
.981	15.671	385.73625	-.37394	-.36479	-.40451	-.39453
.980	17.849	385.53797	-.43855	-.44133	-.45243	-.45041
.980	20.002	385.53755	-.49585	-.50567	-.50634	-.50585
GRADIENT		-.01661	-.00291	-.00367	-.00493	-.00475

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5F09) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BwVFB)

REFERENCE DATA

SREF = 171.4720 50. IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUBFLR = .000

RUN NO. 41/ 0 RVAL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.122	440.73033	-2.1736	-2.2071	-2.2228	-2.21799
1.201	.081	440.75160	-2.1922	-2.21949	-2.21997	-2.22437
1.201	2.322	440.70124	-2.2504	-2.21859	-2.23014	-2.23760
1.201	4.566	440.83106	-2.3499	-2.2395	-2.24080	-2.24860
1.201	6.808	440.65868	-2.4605	-2.3530	-2.25294	-2.25836
1.199	9.090	440.58847	-2.6234	-2.5200	-2.26884	-2.27278
1.200	11.295	440.53840	-2.8064	-2.7163	-2.28439	-2.28992
1.200	13.525	440.60248	-3.0550	-3.1673	-3.2375	-3.1669
1.201	15.765	440.70905	-3.2152	-3.3318	-3.4283	-3.3373
1.201	17.971	440.80979	-3.5859	-3.6691	-3.7983	-3.7029
1.200	20.174	440.76722	-4.1343	-4.1361	-4.3351	-4.3816
	GRADIENT	.01132	-.00264	-.00040	-.00295	-.00471

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BACVFF)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LMDAF = 65.000 ELEVTR = .000
BSFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

RUN NO. 40/ 0 R/V/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.016	-.00127	-.05562	.01970	-.00374	-.00360	.00112	-.00278	-.05489	.02164	-2.53614
.350	.076	.00157	.04144	.02201	-.00331	-.00383	.00056	-.00449	.04142	.02207	1.87695
.350	2.149	.00442	.13738	.01975	-.00271	-.00366	.00005	-.00640	.13654	.02489	5.48552
.350	4.236	.00645	.23650	.01400	-.00188	-.00381	-.00207	-.00880	.23482	.03143	7.47036
.349	6.326	.00595	.34172	.00329	-.00116	-.00377	-.00017	-.00774	.33927	.04094	8.28784
.349	8.421	.00655	.44867	-.01089	-.00042	-.00365	-.00022	-.00841	.44543	.05493	8.10885
.349	10.516	.00888	.56489	-.01958	-.00195	-.00411	-.00083	-.00933	.55898	.08384	6.66695
.349	12.590	.00803	.65136	-.00594	-.00136	-.00204	.00047	-.01350	.63699	.13619	4.67735
.349	14.691	.01126	.75619	-.00813	-.00073	-.00245	.00058	-.01875	.73352	.18392	3.98035
.349	16.799	.01297	.84653	-.01100	-.00218	-.00180	.00056	-.02133	.81371	.23369	3.48197
.349	18.846	.01569	.92627	-.00156	-.00146	-.00178	.00034	-.02470	.82590	.27950	2.95492
.349	GRADIENT	.01731	.92627	.00261	.00334	.00126	-.00028	-.02489	.86471	.33206	2.60409
		.00125	.04667	-.00093	.00090	-.00002	-.00000	-.00096	.04628	.00154	1.61414

RUN NO. 39/ 0 R/V/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.074	-.00437	-.06092	.01885	-.00901	-.00393	.00117	-.00146	-.06020	.02104	-2.86120
.800	.091	.00365	.04998	.02205	-.00828	-.00373	.00062	-.00525	.04994	.02213	2.25700
.799	2.272	.00780	.16312	.02021	-.00517	-.00382	.00041	-.00753	.16219	.02666	6.08341
.800	4.469	.01026	.28770	.01796	-.00558	-.00372	.00035	-.00916	.28550	.03943	7.24082
.799	6.637	.01220	.39161	.01685	-.00503	-.00333	.00034	-.01063	.38681	.06399	6.04480
.800	8.798	.01296	.48472	.02152	-.00484	-.00318	.00022	-.01076	.47573	.09540	4.98649
.799	10.931	.01523	.58400	.02236	-.00368	-.00345	.00055	-.01388	.56912	.13290	4.28228
.798	13.137	.01949	.70699	.02140	-.00522	-.00202	.00092	-.01881	.68362	.18152	3.76606
.800	15.258	.02454	.80549	.02535	-.00091	-.00175	.00287	-.02596	.73306	.22625	3.24005
.799	17.340	.02804	.88549	.03374	.00279	-.00028	.00095	-.02883	.75883	.27227	2.78706
.798	19.431	.02652	.84822	.04271	.00555	-.00271	.00011	-.02161	.78570	.32245	2.43667
.800	21.463	.02418	.85833	.05146	.00803	-.00415	-.00106	-.01520	.77998	.36196	2.15488
	GRADIENT	.00220	.05314	-.00033	-.00007	.00002	-.00012	-.00116	.05270	.00274	1.56364

LARC 8-FT TFI 644 LO-100 ORBITER (SHIPS) (Bm2VFB)

REFERENCE DATA

SREF = 171.4720 50.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 65.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

RUN NO. 38/ D RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.886	-.00818	-.11315	.02697	-.00745	-.00276	.00192	-.00239	-.11365	.03274	-3.47163
.900	.058	.00226	.03646	.03037	-.00784	-.00118	.00111	-.00399	.03643	.03041	1.19777
.900	2.291	.00867	.15840	.03062	-.00758	-.00097	.00066	-.00839	.15705	.03693	4.25304
.900	4.306	.01207	.27473	.02834	-.00550	-.00270	.00072	-.01089	.27165	.04983	5.45130
.899	6.719	.01407	.38817	.03131	-.00805	-.00411	.00082	-.01265	.38185	.07651	4.99098
.901	8.906	.01758	.50981	.03456	-.01012	-.00354	-.00001	-.01165	.49832	.11307	4.40722
.900	11.097	.02106	.62270	.03714	-.01235	-.00474	-.00004	-.00927	.60391	.15629	3.86394
.899	13.278	.02408	.72424	.04065	-.01454	-.00399	-.00007	-.01400	.69554	.20590	3.37812
.899	15.452	.02263	.81440	.04303	-.01261	-.00244	.00203	-.02373	.77350	.25846	2.99267
.899	17.596	.02764	.87692	.05128	-.00795	-.00161	.00146	-.02503	.82039	.31398	2.61290
.899	19.688	.02807	.92284	.05807	-.00493	-.00178	.00195	-.02757	.84933	.36557	2.32327
.899	21.737	.02627	.94069	.06451	-.00229	-.00301	.00136	-.02415	.84991	.40831	2.08152
GRADIENT		.00278	.05288	.00021	.00704	-.00004	-.00017	-.00115	.05227	.00226	1.23629

RUN NO. 37/ D RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.151	-.00883	-.12143	.06854	.00585	-.00413	.00227	-.00386	-.11877	.07305	-1.62593
.981	.069	.00018	.01719	.07031	-.00080	-.00363	.00193	-.00794	.01710	.07033	.24321
.980	2.320	.00671	.16254	.07017	-.00759	-.00377	.00198	-.01211	.15957	.07669	2.08067
.980	4.384	.00927	.33177	.07154	-.01801	-.00303	.00224	-.01473	.32500	.09782	3.32234
.980	6.815	.01060	.48463	.07234	-.02700	-.00216	.00238	-.01614	.47262	.12933	3.65429
.980	9.036	.01261	.61858	.07259	-.03335	-.00288	.00231	-.01712	.59944	.16924	3.54202
.981	11.262	.01692	.75820	.07511	-.04096	-.00407	.00207	-.01889	.72893	.22174	3.28729
.980	13.478	.01987	.89006	.07630	-.04753	-.00695	.00243	-.02225	.84776	.28164	3.01005
.979	15.696	.02637	1.00793	.07626	-.05095	-.00643	.00165	-.02334	.94971	.34609	2.74416
.980	17.912	.02751	1.14822	.08110	-.05864	-.00430	.00245	-.02750	1.06763	.43030	2.48110
.980	20.081	.03095	1.19779	.07579	-.04814	-.00699	.00092	-.02376	1.09895	.48245	2.27786
.980	22.196	.01321	1.21830	.07988	-.03855	-.00313	.01281	-.06062	1.09784	.53421	2.05509
GRADIENT		.00271	.06703	.00039	.00349	-.00015	-.00000	-.00164	.06564	.00360	.74262



DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RP5010) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B4LQVFB)

PARAMETRIC DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 65.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

RUN NO. 36/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.134	-.00617	-.09320	.07415	.00468	-.00293	.00160	-.00321	-.09038	.07757	-1.16515
1.200	.101	.00217	.03410	.07695	-.00341	-.00285	.00139	-.00677	.03396	.07701	.44101
1.200	2.324	.00775	.16603	.07830	-.01175	-.00275	.00149	-.01015	.16271	.08497	1.91497
1.200	4.577	.00960	.30697	.07824	-.02033	-.00248	.00162	-.01170	.29975	.10248	2.92496
1.200	6.823	.01107	.44288	.07767	-.02821	-.00231	.00175	-.01303	.43052	.12974	3.31840
1.200	9.084	.01238	.57850	.07709	-.03535	-.00236	.00212	-.01524	.55907	.16746	3.33855
1.199	11.316	.01456	.70601	.07706	-.04123	-.00272	.00240	-.01764	.67716	.21410	3.16278
1.200	13.560	.01673	.83075	.07696	-.04621	-.00277	.00243	-.02009	.78955	.26960	2.92864
1.200	15.794	.02273	.94668	.07629	-.04980	-.00300	.00248	-.02259	.89017	.33198	2.68872
1.200	18.019	.02409	1.05190	.07723	-.05146	-.00367	.00260	-.02400	.97642	.39683	2.44816
1.200	20.226	.02643	1.13085	.07679	-.04775	-.00279	.00269	-.02667	1.03457	.46300	2.23448
1.200	GRADIENT	.00236	.00061	.00061	-.01373	.00006	.00001	-.00129	.05811	.00370	.61465

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5F10) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&VFB)

REFERENCE DATA

SREF = 171.4720 SB.IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

BETA = .000
 LAMDAF = 65.000
 BDFLAP = .000

WINGAO = 2.000
 ELEVTR = .000
 RUCFLR = .000

PARAMETRIC DATA

RUN NO. 40/ 0 RVL = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.018	166.63322	-.02761	-.05755	-.09285	-.04812
.350	.076	166.63322	-.02809	-.05946	-.09237	-.04189
.350	2.149	166.63322	-.02954	-.06189	-.09381	-.04285
.350	4.236	166.63322	-.03194	-.06376	-.09765	-.03997
.349	6.328	166.53963	-.03244	-.06666	-.10443	-.04670
.349	8.421	166.35244	-.03440	-.07056	-.10695	-.05347
.349	10.516	166.35244	-.04066	-.08109	-.11561	-.06212
.349	12.590	165.97803	-.05813	-.10668	-.13226	-.08005
.349	14.691	166.07187	-.08271	-.11573	-.11291	-.10357
.349	16.768	166.35244	-.10860	-.14281	-.13871	-.13124
.349	18.799	166.35244	-.15774	-.20645	-.19885	-.18405
.349	20.846	166.44604	-.19810	-.27185	-.27423	-.23240
GRADIENT		.00000	-.00000	-.00000	-.00000	-.00000

RUN NO. 39/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.600	-2.074	311.28272	-.01130	-.02964	-.04262	-.02074
.800	.091	311.55092	-.01902	-.02810	-.03745	-.02331
.799	2.272	311.01433	-.02237	-.03015	-.02623	-.02537
.800	4.469	311.34979	-.02263	-.03215	-.03105	-.02639
.799	6.637	311.21564	-.03087	-.04371	-.04109	-.03486
.800	8.798	311.61795	-.04063	-.06795	-.07186	-.05252
.799	10.951	311.58145	-.05664	-.09745	-.12265	-.07537
.798	13.137	310.61142	-.08198	-.13242	-.16817	-.10379
.800	15.258	311.28272	-.15111	-.20787	-.23297	-.15107
.799	17.340	311.14855	-.23386	-.29057	-.31116	-.24968
.798	19.431	310.67236	-.33790	-.40116	-.46771	-.36210
.800	21.462	311.35607	-.44429	-.50334	-.57422	-.45958
GRADIENT		-.01535	-.00171	-.00048	-.00155	-.00087

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RPSFID) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BACVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XRRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 38/ D RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFB1	CFB2	CFB1	CFB2	CFB1	CFB2
.900	-2.886	355.19267	-.00049	-.01134	-.00126	-.01405				
.900	.058	355.19267	-.00202	-.01000	-.00372	-.01248				
.900	2.291	355.13320	-.00463	-.01246	-.00619	-.01358				
.900	4.506	355.16531	-.00952	-.01874	-.01292	-.01000				
.899	6.719	355.01421	-.02200	-.04206	-.03571	-.02753				
.901	8.906	355.54922	-.05872	-.10916	-.07100	-.07872				
.900	11.097	355.12408	-.09332	-.15994	-.12517	-.10400				
.899	13.278	355.06460	-.13983	-.21400	-.19259	-.15192				
.899	15.452	354.70745	-.21454	-.27165	-.28710	-.23222				
.899	17.596	354.95470	-.33362	-.38269	-.38363	-.35738				
.899	19.688	354.83564	-.43538	-.50507	-.53286	-.47565				
.899	21.737	355.01421	-.52569	-.59024	-.62345	-.56336				
GRADIENT		-.00579	-.00072	-.00096	-.00151	-.00046				

RUN NO. 37/ D RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFB1	CFB2	CFB1	CFB2	CFB1	CFB2
.981	-2.151	385.60274	-.15604	-.15150	-.16328	-.16957				
.981	.069	385.40109	-.14905	-.14187	-.16295	-.16821				
.980	2.320	385.15602	-.15123	-.14774	-.17136	-.17661				
.980	4.584	385.15602	-.17433	-.17378	-.19547	-.19900				
.980	6.815	385.20195	-.20347	-.20169	-.23454	-.22886				
.980	9.036	385.01969	-.24341	-.23847	-.27611	-.26369				
.981	11.262	385.48086	-.29370	-.28449	-.32608	-.31066				
.980	13.478	385.29378	-.33620	-.32896	-.36728	-.35820				
.979	15.696	384.88021	-.38064	-.36854	-.41149	-.39752				
.980	17.912	385.11060	-.44516	-.44315	-.45989	-.45826				
.980	20.081	385.29378	-.48203	-.49587	-.48797	-.49354				
.980	22.196	385.24737	-.57789	-.58344	-.58205	-.58895				
GRADIENT		-.07351	-.00255	-.00325	-.00469	-.00432				

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB)

(RPSFID) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 36/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.134	440.57343	-21714	-22049	-22208	-21832
1.200	.101	440.57343	-21805	-21760	-21953	-22340
1.200	2.324	440.42224	-22388	-21671	-22827	-23483
1.200	4.577	440.55208	-23384	-22352	-23984	-24656
1.200	6.823	440.55208	-24748	-23707	-25474	-25852
1.200	9.084	440.45128	-26005	-24991	-26692	-27014
1.199	11.316	440.46660	-28152	-27286	-28691	-28936
1.200	13.560	440.55208	-30188	-30699	-31523	-31054
1.200	15.794	440.58700	-31806	-32378	-33557	-32829
1.200	18.019	440.56569	-35022	-35699	-36714	-35871
1.200	20.226	440.50936	-40406	-40575	-41817	-41960
	GRADIENT	-.00957	-.00250	-.00037	-.00278	-.00430



LARC 8-FT TPT 644 LO-1ED ORBITER (SHIPS) (B-2VFB)

REFERENCE DATA
 SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 MINGAO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 70.000 ELEVTR = .000
 DREF = 20.3597 INCHES ZMRP = .0000 INCHES BOFLAP = .000 RUCFLR = .000
 SCALE = .0108 SCALE

RUN NO. 35/ 0 RVL = 2.04 GRADIENT INTERVAL :: -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.349	-1.903	-.00134	-.04899	.01967	-.00401	-.00367	.00115	-.00277	-.04791	.02127	-2.25220
.49	.038	.00158	.04359	.02164	-.00314	-.00367	.00065	-.00487	.04358	.02167	2.01128
.349	2.214	.00455	.14150	.01932	-.00218	-.00370	.00004	-.00658	.14065	.02477	5.67793
.349	4.254	.00644	.24228	.01336	-.00101	-.00368	-.00012	-.00861	.24062	.03130	7.68880
.349	6.254	.00661	.34422	.00900	-.00076	-.00369	-.00016	-.00869	.34164	.04046	8.44501
.349	8.365	.00708	.44397	-.00956	.00119	-.00397	-.00046	-.00821	.44359	.05556	7.98350
.349	10.290	.01149	.56182	-.01276	.00043	-.00586	-.00271	-.00541	.55506	.08781	6.32148
.349	12.384	.00733	.65683	-.00538	.00130	-.00420	-.00007	-.01026	.64270	.13561	4.73925
.349	14.662	.00993	.76910	-.00615	.00222	-.00257	.00066	-.01710	.74561	.18872	3.95999
.349	16.768	.01179	.89369	-.01079	.00214	-.00164	.00051	-.01938	.85880	.24750	3.46989
.348	18.853	.01220	.96805	-.01257	.00757	-.01190	-.00204	-.00995	.92018	.30793	3.05777
.349	20.980	.01324	.97823	-.00174	.00326	-.00281	.00041	-.00710	.91401	.34862	2.62177
GRADIENT		.00127	.04700	-.00104	.00048	-.00000	-.00021	-.00493	.04562	.00161	1.61958

RUN NO. 34/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CC	L/D
.798	-2.019	-.00305	-.05620	.01901	-.00545	-.00381	.00104	-.00190	-.05550	.02097	-2.64610
.800	.029	.00320	.04830	.02155	-.00525	-.00363	.00058	-.00475	.04829	.02157	2.23832
.798	2.224	.00674	.16408	.02007	-.00492	-.00383	.00034	-.00795	.16318	.02642	6.17645
.800	4.509	.01036	.29107	.01642	-.00471	-.00349	.00041	-.00946	.28888	.03925	7.36019
.798	6.563	.01180	.39271	.01851	-.00399	-.00325	.00024	-.00994	.38802	.06327	6.13262
.798	8.987	.01249	.50054	.02141	-.00380	-.00361	.00032	-.01082	.49105	.09934	4.94320
.799	10.937	.01414	.58963	.02262	-.00236	-.00266	.00076	-.01390	.57463	.13458	4.28381
.798	13.199	.01786	.72385	.02157	-.00419	-.00312	.00055	-.01608	.69981	.18627	3.75686
.798	15.509	.02309	.83935	.02364	-.00310	-.00286	.00065	-.02068	.80247	.24721	3.24679
.800	17.672	.02535	.88984	.02789	-.00417	-.00286	.00055	-.01981	.83939	.29670	2.82955
.798	19.624	.02437	.91468	.03695	.00906	-.00380	.00050	-.02154	.84915	.34200	2.48290
.798	21.599	.01804	.93682	.04611	.01248	-.00281	-.00044	-.01283	.85407	.38772	2.20280
GRADIENT		.00209	.05318	-.00044	.00012	-.00004	-.00010	-.00118	.05274	.00277	1.54921

(RP5011) (19 MAY 73) LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 70.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

RUN NO. 33/ 0 RVL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.149	-.00539	-.06876	.02720	-.00861	-.00215	.00168	-.00325	-.06770	.02976	-2.27473
.901	.062	.00286	.03820	.03149	-.00766	-.00065	.00111	-.00637	.03816	.03154	1.21015
.900	2.256	.00946	.16159	.02932	-.00779	-.00120	.00072	-.00917	.16031	.03966	4.49541
.899	4.531	.01190	.28238	.02832	-.00520	-.00255	.00062	-.01058	.27926	.05054	5.52589
.900	6.663	.01493	.39589	.03041	-.00613	-.00261	.00086	-.01338	.38969	.07614	5.11825
.898	8.947	.01593	.51812	.03345	-.00869	-.00371	.00071	-.01352	.50661	.11562	4.45875
.900	11.075	.01647	.60883	.03854	-.00874	-.00491	-.00038	-.00949	.59009	.15477	3.81275
.898	13.435	.02100	.73286	.04176	-.01217	-.00362	.00018	-.01498	.70310	.21089	3.33395
.899	15.386	.02242	.84516	-.01462	-.00422	-.00422	.00072	-.01824	.80288	.26778	2.99824
.899	17.659	.02861	.94226	-.04588	-.01033	-.00153	.00142	-.02555	.88406	.32925	2.68503
.898	19.786	.02630	.97347	.05458	-.00207	-.00623	-.00048	-.01649	.89752	.38089	2.35634
.897	21.809	.01974	.99298	.06041	.00270	-.00799	-.00033	-.01270	.89947	.42500	2.11640
GRADIENT		.00263	.05293	.00005	.00046	-.00008	-.00016	-.00109	.05231	.00900	1.19822

RUN NO. 32/ 0 RVL = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.105	-.00743	-.11501	.06753	.00476	-.00374	.00224	-.00456	-.11245	.07171	-1.56825
.980	-.019	.00029	.01331	.06985	-.00382	-.00362	.00190	-.00788	.01333	.06984	.19091
.981	2.309	.00693	.16035	.06955	-.00708	-.00369	.00171	-.01114	.15742	.07595	2.07266
.980	4.536	.00981	.32923	.06997	-.01699	-.00337	.00187	-.01358	.32267	.09579	3.36861
.978	5.839	.01111	.48816	.07057	-.02580	-.00181	.00182	-.01419	.47628	.12820	3.71515
.978	9.011	.01129	.61617	.07204	-.03036	-.00339	.00193	-.01478	.59728	.16766	3.56243
.978	11.261	.01481	.75193	.07331	-.03591	-.00405	.00174	-.01626	.72314	.21874	3.30590
.978	13.471	.01772	.89786	.07562	-.04452	-.00746	.00198	-.01909	.85554	.28270	3.02632
.979	15.729	.02322	1.02379	.07635	-.04797	-.00690	.00170	-.02154	.96476	.35102	2.74842
.979	17.869	.02789	1.13323	.07887	-.05013	-.00234	.00163	-.02441	1.05436	.42279	2.49384
.978	20.221	.03019	1.22647	.07694	-.04540	-.00815	.00072	-.02249	1.12429	.49611	2.26620
GRADIENT		.00262	.06653	.00003	-.00322	.00005	-.00006	-.00136	.06517	.00355	.74969

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BAGVFB)

(RP5011) (19 MAY 75)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.3100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0180 SCALE

BETA = .000 WINGNO = 2.000
 LAMDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

PARAMETRIC DATA

RUN NO. 31/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
1.200	-2.215	-.00321	-.09845	.07328	.00483	-.00305	.00141	-.00294	-.09354	.07703	-1.24041
1.200	.091	.00342	.03341	.07627	-.00313	-.00291	.00121	-.00672	.03329	.57632	.43621
1.201	2.272	.00812	.16190	.07745	-.01093	-.00283	.00137	-.00986	.15870	.08380	1.89374
1.200	4.439	.01038	.29893	.07739	-.01897	-.00228	.00147	-.01151	.29204	.10030	2.91179
1.200	6.986	.01208	.45418	.07684	-.02722	-.00231	.00162	-.01302	.44146	.13151	3.35699
1.200	9.016	.01276	.57616	.07637	-.03312	-.00262	.00183	-.01429	.55707	.16571	3.36172
1.200	11.244	.01444	.70503	.07645	-.03885	-.00232	.00223	-.01687	.67659	.21246	3.18454
1.200	13.556	.01789	.83719	.07640	-.04335	-.00245	.00238	-.01943	.79596	.27051	2.94243
1.200	15.857	.02141	.96130	.07616	-.04715	-.00300	.00253	-.02210	.90391	.33594	2.68072
1.200	19.089	.02449	1.06956	.07701	-.04887	-.00327	.00263	-.02434	.99278	.40530	2.44953
1.200	GRADIENT	.00233	.05962	.02061	-.00358	-.00011	.00001	-.00131	.05616	.00347	.62912

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

(RF5P11) (19 MAY 73)

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (B-2VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN.
 LREF = 25.3100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUCFLR = .000

RUN NO. 35/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.973	166.35174	-.02525	-.05766	-.09057	-.04627
.349	.038	166.35150	-.02814	-.05957	-.09394	-.04147
.349	2.214	166.53916	-.03003	-.06190	-.09480	-.04095
.349	4.254	166.44533	-.03198	-.06576	-.09966	-.04049
.349	6.254	166.53916	-.03244	-.06620	-.10345	-.04622
.349	8.365	166.35174	-.03392	-.07153	-.10933	-.05251
.349	10.290	166.44557	-.04064	-.08250	-.11408	-.06496
.349	12.384	166.35221	-.05512	-.10073	-.12521	-.08132
.349	14.662	166.25838	-.08938	-.10844	-.10843	-.10202
.349	16.768	166.35244	-.11102	-.12849	-.12761	-.12789
.348	18.853	165.60262	-.14055	-.17424	-.17118	-.16848
.349	20.980	165.79057	-.21099	-.24944	-.24436	-.23092
GRADIENT		.02298	-.00107	-.00129	-.00136	-.00086

RUN NO. 34/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.019	310.47079	-.01179	-.02865	-.03983	-.02049
.800	.029	311.32465	-.02109	-.03017	-.03028	-.02101
.798	2.224	310.62390	-.02134	-.02992	-.02848	-.02408
.800	4.509	311.43569	-.02314	-.03424	-.03463	-.02535
.798	6.563	310.55670	-.03037	-.04351	-.04163	-.03437
.793	8.987	310.55670	-.04018	-.06428	-.06791	-.04980
.799	10.937	311.02060	-.05871	-.09135	-.08817	-.06928
.798	13.199	310.33636	-.08075	-.12075	-.12100	-.09950
.798	15.509	310.55046	-.12433	-.18016	-.20398	-.14650
.800	17.672	311.28899	-.19774	-.25983	-.29532	-.22010
.798	19.624	310.40358	-.28631	-.35670	-.40130	-.31432
.798	21.599	310.55046	-.39846	-.47113	-.52738	-.43120
GRADIENT		.10020	-.00155	-.00076	-.00076	-.00081

REFERENCE DATA PARAMETRIC DATA
 XREF = 171.4720 SQ.IN. BETA = .000 WINGNO = 2.000
 YREF = 25.5150 INCHES LAMDAF = 70.000 ELEVTR = .000
 ZREF = 20.3597 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

RUN NO. 33/0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.900	-2.149	355.12408	-.00419	-.01224	-.00372	-.01428
.901	.062	355.75481	-.00179	-.01178	-.00238	-.01403
.900	2.256	355.18355	-.00620	-.01336	-.00596	-.01315
.899	4.531	354.95470	.00000	-.02212	-.01361	-.00866
.900	6.663	355.21090	-.02244	-.04676	-.03004	-.03024
.898	8.947	354.45097	-.05686	-.10345	-.06939	-.07559
.900	11.075	355.43956	-.10249	-.16522	-.11964	-.11628
.898	13.435	354.21244	-.15127	-.22220	-.17427	-.16290
.899	15.386	354.89518	-.19571	-.26597	-.22300	-.22358
.899	17.639	354.83564	-.29107	-.32772	-.32349	-.30307
.898	19.786	354.64788	-.40085	-.46056	-.44980	-.42483
.897	21.809	354.23051	-.48460	-.55550	-.56577	-.51574
GRADIENT		-.04879	.00037	-.00141	-.00150	.00080

RUN NO. 32/0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.980	-2.105	385.69038	-.15640	-.15270	-.16027	-.16909
.980	-.019	385.24831	-.15405	-.14788	-.16063	-.16987
.981	2.309	385.34006	-.15802	-.15307	-.16999	-.17922
.980	4.536	385.26346	-.17150	-.16997	-.18719	-.19556
.978	6.839	384.54285	-.19780	-.19650	-.21681	-.22035
.978	9.011	384.72628	-.23422	-.23080	-.25544	-.25102
.978	11.261	384.71119	-.28133	-.27718	-.30227	-.29505
.978	13.471	384.71119	-.32676	-.32023	-.35115	-.34467
.979	15.729	385.26192	-.36896	-.36918	-.39512	-.39581
.979	17.869	385.06285	-.43691	-.43397	-.45382	-.45129
.978	20.221	384.32925	-.47800	-.48597	-.47802	-.49081
GRADIENT		-.05241	-.00223	-.00259	-.00407	-.00401

(RP9P11) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 70.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDPLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

RUN NO. 31/ 0 RM/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.215	440.47847	-.21701	-.22021	-.22085	-.21730
1.200	.091	440.50755	-.21951	-.21890	-.21862	-.22415
1.201	2.272	440.65868	-.22386	-.21798	-.22570	-.23501
1.200	4.439	440.60831	-.23515	-.22485	-.23805	-.24789
1.200	6.986	440.60831	-.25225	-.24437	-.25586	-.26221
1.200	9.016	440.48033	-.26564	-.25983	-.27105	-.27429
1.200	11.244	440.48033	-.28511	-.28496	-.29213	-.29242
1.200	13.556	440.45128	-.31009	-.31754	-.32398	-.31876
1.200	15.857	440.50755	-.32650	-.33112	-.34217	-.33620
1.200	18.089	440.62382	-.35793	-.36270	-.37320	-.36589
1.200	GRADIENT	.02445	-.00264	-.00054	-.00263	-.00462

(RP5012) (19 MAY 75)

TABLATED SOURCE DATA-LARC 644

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (BMEVFB)

DATE 07 JUL 73

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 15/ 0 RVL = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.051	-.00136	-.05519	.01943	-.00466	-.00361	.00093	-.00186	-.05446	.02139	-2.54565
.350	.042	.00232	.03702	.02161	-.00334	-.00348	.00046	-.00511	.03701	.02164	1.71004
.349	2.139	.00522	.13429	.01973	-.00174	-.00355	-.00008	-.00702	.13346	.02473	5.39750
.348	4.233	.00665	.23964	.01395	.00016	-.00366	-.00023	-.00849	.23796	.03160	7.59056
.348	6.327	.00627	.34453	.00367	.00187	-.00386	-.00033	-.00759	.34203	.04162	8.21850
.349	8.416	.00730	.45381	-.00793	.00367	-.00384	-.00036	-.00897	.45009	.05858	7.69343
.349	10.518	.00895	.57549	-.01390	.00316	-.00462	-.00075	-.00981	.56836	.09139	6.21932
.348	12.606	.00862	.67014	-.00353	.00585	-.00299	.00030	-.01450	.65475	.14281	4.58486
.349	14.712	.01084	.77982	-.00343	.00687	-.00354	.00031	-.01707	.75513	.19473	3.87782
.349	16.850	.01374	.94562	-.01274	.00604	-.00187	.00030	-.02149	.90872	.26192	3.46950
.349	18.948	.01495	1.05472	-.01974	.01095	-.00748	-.00122	-.01737	1.00398	.32382	3.10046
.349	20.974	.01172	1.04975	-.01232	.02135	-.01180	-.00139	-.01208	.98461	.36426	2.70307
		.00129	.04686	-.00087	.00077	-.00001	-.00019	-.00104	.04648	.00161	1.61898

RUN NO. 14/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.102	-.00372	-.06297	.01932	-.00583	-.00408	.00108	-.00158	-.06221	.02162	-2.87769
.798	.071	.00390	.04875	.02206	-.00493	-.00390	.00055	-.00516	.04872	.02213	2.20199
.799	2.269	.00951	.16406	.02048	-.00421	-.00404	.00029	-.00634	.16312	.02696	6.05023
.799	4.475	.01117	.29048	.01704	-.00326	-.00375	.00033	-.00976	.28827	.03965	7.26942
.799	6.642	.01234	.39788	.01921	-.00224	-.00300	.00034	-.01073	.39299	.06510	6.03687
.798	8.793	.01283	.49654	.02187	-.00143	-.00291	.00073	-.01274	.48737	.09752	4.99783
.799	10.986	.01468	.60555	.02326	.00020	-.00332	.00085	-.01469	.59002	.13824	4.26821
.799	13.197	.01897	.73592	.02460	-.00107	-.00402	.00039	-.01623	.71086	.19197	3.70307
.799	15.423	.02380	.88016	.02285	-.00184	-.00326	.00069	-.02136	.84239	.25610	3.28929
.799	17.607	.02736	.98234	.02262	.00211	-.00432	.00030	-.02281	.92948	.31871	2.91638
.799	19.707	.02856	1.01502	.02801	.01302	-.00742	-.00029	-.02706	.94613	.36865	2.56646
.798	21.746	.03012	1.00523	.03896	.02095	-.00258	-.00094	-.02821	.40862	.40862	2.24970
.799		.00229	.05362	-.00039	.00038	.00004	-.00011	-.00126	.05317	.00269	1.56237

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 MINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BSFLAP = .000 RUCFLR = .000

RUN NO. 13/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00.

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.159	-.00544	-.07741	.02774	-.00784	-.00341	.00235	-.00595	-.07631	.05064	-2.49068
.900	.050	.00222	.03488	.03111	-.00697	-.00256	.00178	-.00867	.03485	.03114	1.11893
.899	2.279	.00828	.15642	.03045	-.00639	-.00179	.00143	-.01126	.15708	.03672	4.27741
.899	4.499	.01284	.27433	.02756	-.00325	-.00424	.00061	-.01095	.27132	.04899	5.53785
.899	6.726	.01434	.40547	.03111	-.00290	-.00515	.00145	-.01541	.39904	.07838	5.09078
.900	8.944	.01643	.52208	.03339	-.00590	-.00455	.00017	-.01165	.51054	.11416	4.47234
.899	11.114	.01892	.60895	.03937	-.00383	-.00353	.00020	-.01353	.56994	.15602	3.78127
.899	13.306	.02155	.73112	.04409	-.00688	-.00358	.00063	-.01717	.70135	.21118	3.03820
.900	15.569	.02353	.87687	.04958	-.00926	-.00436	.00074	-.01909	.83380	.27444	3.32103
.899	17.809	.02753	1.00756	.04952	-.00876	-.00431	.00122	-.02401	.94589	.34672	2.73095
.901	19.954	.02990	1.05647	.04983	-.00132	-.00455	.00157	-.02730	.97604	.40737	2.39596
GRADIENT		.00274	.05309	-.00705	.00065	-.00008	-.00025	-.00079	.05248	.00273	1.22686

RUN NO. 12/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00.

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.206	-.00879	-.12783	.06598	.00536	-.00398	.00253	-.00492	-.12520	.07085	-1.76707
.980	.053	.00195	.01498	.06796	-.00095	-.00364	.00201	-.00935	.01491	.06797	.21939
.979	2.287	.00752	.15649	.06805	-.00622	-.00352	.00168	-.01141	.15365	.07424	2.06959
.979	4.566	.01062	.32717	.06800	-.01478	-.00346	.00163	-.01309	.32072	.09383	3.41803
.981	6.815	.01169	.48568	.07087	-.02308	-.00229	.00179	-.01440	.47384	.12800	3.70201
.981	9.065	.01251	.62228	.07167	-.02740	-.00437	.00201	-.01585	.60321	.16882	3.57316
.979	11.311	.01474	.77569	.07557	-.03559	-.00364	.00191	-.01690	.74580	.22623	3.29660
.979	13.560	.02105	.91812	.07559	-.04175	-.00306	.00109	-.01758	.87480	.28875	3.02959
.980	15.783	.02430	1.03315	.07630	-.04150	-.00374	.00104	-.01955	.97344	.35443	2.74648
.980	18.021	.02942	1.15272	.07980	-.04233	-.00303	.00089	-.02240	1.07154	.43231	2.47862
.980	20.240	.03279	1.27204	.08115	-.04337	-.00365	.00094	-.02504	1.16542	.51619	2.25773
GRADIENT		.00283	.06682	.00227	-.00291	-.00007	-.00013	-.00118	.06549	.00334	.77168

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5012) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B-2/VFB)

REFERENCE DATA

MACH = 1.200
 SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 11/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.155	-.00418	-.09787	.07286	.00489	-.00350	.00117	-.00251	-.09906	.07649	-1.24277
1.200	-.075	.00282	.03140	.07589	-.00238	-.00345	.00112	-.00603	.03130	.07593	.41226
1.200	2.311	.00808	.16189	.07689	-.00963	-.00305	.00128	-.00947	.15866	.08336	1.90341
1.200	4.575	.01007	.30477	.07701	-.01733	-.00227	.00140	-.01105	.29765	.10108	2.94484
1.200	6.837	.01072	.44385	.07648	-.02402	-.00248	.00162	-.01232	.43159	.12876	3.33145
1.200	9.115	.01207	.59279	.07622	-.03003	-.00235	.00189	-.01417	.56335	.16758	3.36171
1.200	11.367	.01441	.71482	.07580	-.03472	-.00266	.00212	-.01642	.68386	.21520	3.18708
1.200	13.630	.01876	.84653	.07593	-.03910	-.00276	.00219	-.01914	.80480	.27328	2.94499
1.200	15.903	.02236	.97500	.07584	-.04209	-.00346	.00238	-.02198	.91497	.33956	2.69459
1.200	18.142	.02619	1.08398	.07633	-.04368	-.00439	.00256	-.02501	1.00633	.41005	2.45414
1.200	19.534	.02878	1.13912	.07701	-.04130	-.00047	.00240	-.02596	1.04781	.49346	2.31071
1.200	GRADIENT	.00214	.05968	.00060	-.00327	.00018	.00004	-.00129	.05821	.00363	.62639

DATE 07 JUL 73

TABLULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (B42VFB)

(RP5P12) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 15/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.051	165.72538	-.02616	-.05611	-.08896	-.03613
.350	.042	166.53750	-.02811	-.05712	-.09050	-.03521
.349	2.139	165.97569	-.03012	-.05922	-.09321	-.03387
.348	4.233	165.32034	-.03120	-.06185	-.09937	-.03448
.348	6.327	165.22670	-.03218	-.06526	-.10330	-.03788
.349	8.416	165.78916	-.03595	-.07033	-.10634	-.04258
.349	10.518	165.88278	-.04222	-.08277	-.10870	-.05797
.348	12.606	165.60169	-.06164	-.09878	-.10694	-.07254
.349	14.712	165.69555	-.09934	-.10978	-.10640	-.10576
.349	16.850	165.69555	-.10921	-.12227	-.11896	-.12023
.349	18.949	165.88278	-.11518	-.15286	-.14199	-.14369
.349	20.974	165.88301	-.18282	-.22582	-.21726	-.20774
	GRADIENT	-.22804	-.00082	-.00092	-.00162	-.00030

RUN NO. 14/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.102	311.22191	-.01129	-.02735	-.03568	-.01844
.798	.071	310.61142	-.02005	-.02942	-.03005	-.02410
.799	2.269	310.88007	-.02005	-.02941	-.02901	-.02332
.799	4.475	310.88307	-.02289	-.03504	-.03648	-.02692
.799	6.642	310.81293	-.03011	-.04324	-.04137	-.03412
.798	8.793	310.74577	-.04326	-.06119	-.05631	-.05032
.799	10.986	310.94721	-.06207	-.08907	-.08435	-.07291
.799	13.197	311.08145	-.09941	-.10850	-.10773	-.10499
.799	15.423	311.08145	-.12079	-.13588	-.13320	-.13144
.799	17.607	311.01433	-.16566	-.19428	-.19139	-.18360
.798	19.707	310.74577	-.25116	-.31614	-.32753	-.27244
.799	21.746	310.94721	-.36417	-.44322	-.48769	-.37144
	GRADIENT	-.03426	-.00158	-.00105	-.00007	-.00112



DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RP5P12) (19 MAY 73)

LARC 0-FT TPT 644 LO-100 ORBITTER (SHIPS) (B-WVFB)

REFERENCE DATA
SREF = 171.4720 SQ.IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA
BETA = .000 WINGNO = 2.000
LANCAF = 75.000 ELEVTR = .000
SCFLAP = .000 RUPLFLR = .000

RUN NO. 13/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.159	354.99601	-.00115	-.01202	-.00036	-.01159
.900	.050	355.30244	-.00245	-.01582	-.00328	-.01563
.899	2.279	355.00511	-.00442	-.01247	-.00350	-.01181
.899	4.499	354.80838	-.00530	-.02302	-.02309	-.00979
.899	6.726	355.01421	-.02877	-.04791	-.03480	-.03589
.900	8.944	355.37100	-.05288	-.10636	-.07148	-.07005
.899	11.114	355.06460	-.10530	-.17685	-.11663	-.11823
.899	13.306	354.70745	-.16799	-.19568	-.17586	-.17465
.900	15.569	355.18355	-.17928	-.24427	-.25810	-.18747
.899	17.809	354.95470	-.23923	-.28323	-.30584	-.25713
.901	19.954	355.60860	-.38913	-.41221	-.40589	-.40448
GRADIENT		-.03884	-.00065	-.00133	-.00308	.00042

RUN NO. 12/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.206	385.29378	-.15168	-.14474	-.15768	-.16592
.980	.053	385.29378	-.14939	-.14102	-.16059	-.16778
.979	2.287	385.14054	-.15617	-.15043	-.17319	-.18056
.979	4.566	385.01816	-.17076	-.16844	-.18734	-.19449
.981	6.815	385.78553	-.21627	-.21159	-.23504	-.23670
.981	9.065	385.56899	-.24821	-.24373	-.27068	-.26709
.979	11.311	384.86440	-.29751	-.28980	-.31995	-.31294
.979	13.560	384.91041	-.33353	-.32517	-.35841	-.35112
.980	15.783	385.76658	-.38739	-.38015	-.41733	-.41057
.980	18.021	385.30893	-.44601	-.43816	-.46966	-.46985
.980	20.240	385.24787	-.48996	-.48865	-.50442	-.51946
GRADIENT		-.04347	-.00284	-.00357	-.00451	-.00437

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMEVFB)

(RFP512) (19 MAY 75)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 MINGNO = 2.000
 LAMCAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 11/ D RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.155	440.68776	-.21563	-.21908	-.22021	-.21563
1.200	.073	440.58700	-.21946	-.21673	-.21949	-.22525
1.200	2.311	440.68776	-.22418	-.21691	-.22711	-.23594
1.200	4.575	440.68776	-.23473	-.22468	-.23873	-.24899
1.200	6.837	440.58700	-.24820	-.23932	-.25291	-.26024
1.200	9.115	440.67421	-.26661	-.26141	-.27383	-.27623
1.200	11.367	440.63287	-.28730	-.28540	-.29668	-.29541
1.200	13.630	440.50168	-.30353	-.30802	-.31634	-.31303
1.200	15.903	440.67421	-.32136	-.32844	-.34104	-.33388
1.200	18.142	440.67421	-.35118	-.35645	-.36846	-.35962
1.200	19.534	440.50755	-.39855	-.40152	-.41685	-.40665
1.200	GRADIENT	.00452	-.00277	-.00176	-.00282	-.00494

REFERENCE DATA

SREF = 171.4720 58.1N. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 78.000 ELEVTR = .000
 BCFAPL = .000 RUBFLR = .000

RUN NO. 28/ 0 RVAL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.092	-.00526	-.06567	.02895	-.01010	-.00153	.00206	-.00487	-.06437	.03133	-2.06077
.900	-.126	.00331	.04823	.03089	-.00829	-.00092	.00116	-.00689	.04817	.03100	1.55398
.899	2.341	.00969	.16598	.02926	-.00653	-.00125	.00075	-.00942	.16463	.03601	4.57170
.899	4.602	.01238	.28258	.02890	-.00189	-.00198	.00076	-.01127	.27935	.05148	5.42661
.898	6.765	.01402	.41144	.03083	-.00363	-.00325	.00083	-.01268	.40494	.07908	5.12036
.898	8.951	.01691	.51899	.03373	-.00211	-.00375	.00064	-.01389	.50742	.11406	4.44860
.898	11.152	.01585	.61978	.03730	-.00070	-.00304	.00249	-.02077	.60086	.15646	3.84029
.899	13.477	.02122	.75346	.04379	-.00211	-.00270	.00160	-.02089	.72250	.21819	3.71139
.899	15.654	.02421	.90096	.04183	-.00387	-.00300	.00170	-.02065	.85626	.28338	3.02160
.899	17.957	.02750	1.01955	.04099	-.00126	-.00368	.00143	-.02484	.95724	.35332	2.70929
.898	20.059	.02845	1.09099	.04643	.00742	-.00481	.00097	-.02391	1.00889	.41781	2.41473
.898	22.154	.02811	1.11955	.05262	.01945	-.00527	.00047	-.02195	1.01705	.47091	2.15978
GRADIENT		.00266	.05214	-.00208	.00119	-.00008	-.00019	-.00097	.05150	.00294	1.14137

RUN NO. 27/ 0 RVAL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.117	-.00684	-.11797	.06512	.00389	-.00408	.00221	-.00481	-.11549	.06943	-1.66341
.980	.053	.00122	.01938	.06762	-.00077	-.00374	.00204	-.00901	.01932	.06764	.28598
.980	2.309	.00696	.16443	.06713	-.00521	-.00391	.00156	-.01055	.16159	.07370	2.19239
.980	4.597	.01004	.33330	.06878	-.01347	-.00348	.00193	-.01394	.32672	.09527	3.42920
.980	6.852	.01190	.49076	.07046	-.02037	-.00188	.00210	-.01578	.47885	.12850	3.72636
.979	9.334	.01391	.63833	.07080	-.02305	-.00369	.00220	-.01750	.61840	.17339	3.56655
.982	11.326	.01520	.77182	.07520	-.02967	-.00408	.00236	-.01899	.74202	.22531	3.29338
.978	13.658	.02036	.93012	.07725	-.03531	-.00355	.00228	-.02198	.88558	.29468	3.00521
.979	15.860	.02315	1.03940	.07667	-.03332	-.00389	.00243	-.02446	.97888	.33780	2.75566
.980	18.113	.02743	1.16784	.08015	-.03257	-.00488	.00214	-.02619	1.07840	.43708	2.46727
.979	20.375	.03042	1.27729	.07839	-.03190	-.00402	.00171	-.02666	1.17008	.51819	2.25803
GRADIENT		.00251	.06695	.00047	-.00253	.00007	-.00006	-.00129	.06561	.00376	.76636

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5013) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&VFB)

PARAMETRIC DATA

SREF = 171.4720 90. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 78.000 ELEVTR = .000
 BREF = 20.3997 INCHES ZMRP = .0000 INCHES BCFLAP = .000 RUOFLR = .000
 SCALE = .0188 SCALE

RUN NO. 26/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.208	-.00407	-.10033	.07237	.00373	-.00303	.00127	-.00298	-.09747	.07618	-1.27990
1.200	-.148	.00344	.03682	.07597	-.00324	-.00269	.00124	-.00687	.03662	.07606	.46148
1.201	2.400	.00855	.17044	.07757	-.00971	-.00234	.00130	-.00980	.16704	.08464	1.97346
1.202	4.632	.01045	.30844	.07780	-.01618	-.00196	.00146	-.01148	.30116	.10225	2.94920
1.200	6.843	.01164	.44334	.07715	-.02180	-.00194	.00165	-.01292	.43099	.12043	3.33002
1.200	9.116	.01254	.58156	.07651	-.02682	-.00244	.00193	-.01456	.56203	.16769	3.35204
1.200	11.418	.01471	.71847	.07664	-.03049	-.00282	.00237	-.01757	.68908	.21735	3.17041
1.200	13.670	.01924	.84997	.07663	-.03360	-.00255	.00227	-.01974	.80778	.27533	2.93392
1.199	15.939	.02232	.97559	.07642	-.03542	-.00283	.00256	-.02272	.91709	.34140	2.68631
1.200	18.170	.02624	1.08912	.07644	-.03625	-.00458	.00278	-.02595	1.01097	.41225	2.45233
1.200	19.632	.02866	1.15836	.07586	-.03556	-.00380	.00272	-.02719	1.06554	.46063	2.31324
1.200		.00214	.09971	.00076	-.00291	.00016	.00003	-.00125	.05823	.00379	.62289

GRADIENT

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RF5P13) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM2VFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUOFFL = .000

RUN NO. 30/ 0 RM/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.116	165.22833	-.02297	-.05609	-.08947	-.04221
.348	.056	165.50923	-.02584	-.05792	-.08981	-.03828
.348	2.156	165.50923	-.02777	-.06033	-.09222	-.03311
.348	4.242	165.41537	-.02924	-.06277	-.09953	-.04458
.348	6.353	164.85282	-.03322	-.06635	-.09938	-.05344
.347	8.424	164.29107	-.03478	-.07141	-.10263	-.06042
.347	10.479	164.10394	-.03970	-.08167	-.10274	-.06827
.347	12.714	164.10394	-.07731	-.09138	-.08762	-.08628
.347	14.842	164.29175	-.09967	-.11766	-.10896	-.11485
.347	16.908	164.19808	-.10217	-.12720	-.12023	-.13195
.347	18.997	164.10417	-.10027	-.14668	-.13103	-.14760
.346	21.136	163.72895	-.11126	-.18201	-.15674	-.17183
GRADIENT		.02688	-.00098	-.00106	-.00153	-.00156

RUN NO. 29/ 0 RM/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.116	311.49018	-.01413	-.02734	-.02936	-.02100
.799	.062	311.14855	-.01825	-.02863	-.02783	-.02254
.799	2.225	311.08145	-.01902	-.03042	-.02989	-.02305
.799	4.535	311.14855	-.01354	-.03374	-.03915	-.02408
.799	6.651	311.14855	-.02778	-.04398	-.04918	-.03435
.800	8.820	311.55721	-.04500	-.06260	-.06224	-.05355
.798	11.032	310.74577	-.06931	-.07962	-.07806	-.07651
.799	13.247	310.88007	-.10565	-.11006	-.11228	-.11169
.798	15.531	310.47703	-.12667	-.13479	-.13534	-.13367
.799	17.635	310.88007	-.16185	-.17510	-.17278	-.16949
.798	19.876	310.47703	-.22425	-.25171	-.24800	-.24317
.798	21.868	310.47703	-.33913	-.40811	-.41427	-.37728
GRADIENT		-.04886	-.00076	-.00095	-.00144	-.00144

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB) (RPSP13) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.6633 INCHES
 LREF = 23.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 76.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 26/ 0 RN/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.092	355.21090	.00128	-.00865	.00154	-.01045
.900	.126	355.48983	-.00242	-.01178	-.00249	-.01359
.899	2.341	354.69837	-.00286	-.01091	-.00227	-.00866
.899	4.602	354.77609	-.00242	-.02257	-.01124	-.00821
.898	6.765	354.46909	-.02452	-.04213	-.03247	-.03165
.898	8.950	354.53776	-.04735	-.10140	-.07084	-.05913
.898	11.152	354.46909	-.08534	-.15442	-.15305	-.11839
.899	13.477	354.88609	-.16833	-.19035	-.17497	-.17159
.899	15.654	354.77609	-.18694	-.23057	-.21856	-.20701
.899	17.957	354.94561	-.24037	-.27936	-.28498	-.26652
.898	20.059	354.59736	-.33294	-.37304	-.36336	-.36318
.898	22.154	354.40946	-.45851	-.51292	-.50311	-.48822
	GRADIENT	-.09389	-.00052	-.00184	-.00171	.00052

RUN NO. 27/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.117	385.14088	-.14854	-.14385	-.15381	-.16254
.980	.053	385.11008	-.14684	-.14051	-.15607	-.16479
.980	2.309	385.04900	-.14977	-.14424	-.16190	-.17144
.980	4.597	385.04900	-.16975	-.16760	-.18372	-.19239
.980	6.852	385.29330	-.19842	-.19608	-.21899	-.22239
.979	9.334	384.71331	-.23963	-.23887	-.26975	-.26391
.982	11.326	385.72433	-.30433	-.30024	-.33406	-.32376
.978	13.656	384.96825	-.32030	-.31827	-.34800	-.34241
.979	15.660	385.61213	-.37604	-.37827	-.40713	-.40226
.980	18.113	385.33922	-.44428	-.44089	-.48263	-.45702
.979	20.375	384.85062	-.47431	-.47792	-.50530	-.49752
	GRADIENT	-.01500	-.00300	-.00358	-.00429	-.00432

(RF5P13) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 76.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 26/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFBI	CFB2	CPC1	CPC2
1.200	-2.208	440.53073	-.21433	-.21736	-.21898	-.21463
1.200	.148	440.55208	-.21692	-.21470	-.21539	-.22211
1.201	2.400	440.76499	-.22499	-.21603	-.22727	-.23722
1.202	4.632	440.84983	-.23443	-.22361	-.23852	-.24808
1.200	6.843	440.55977	-.24430	-.23575	-.24873	-.25628
1.200	9.116	440.45117	-.26773	-.25993	-.27250	-.27746
1.200	11.418	440.57343	-.28918	-.27979	-.29137	-.29865
1.200	13.673	440.37184	-.30925	-.31146	-.31904	-.31919
1.199	15.939	440.30905	-.32902	-.33327	-.34388	-.34035
1.200	18.170	440.53073	-.35988	-.35630	-.37014	-.36982
1.200	19.632	440.54437	-.37493	-.37181	-.37972	-.38427
	GRADIENT	.05125	-.00299	-.00287	-.00308	-.00306

REFERENCE DATA
 SREF = 171.4720 88. IN. XPRP = 16.8633 INCHES
 LREF = 25.5107 INCHES YPRP = .0000 INCHES
 BREF = 20.5597 INCHES ZPRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA
 BETA = .000 WINGNO = 2.0000
 LANDAF = 46.800 ELEVTR = .000
 BOFLAP = .000 RUCFLR = 10.000

RUN NO. 25/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.030	-.00354	-.07048	.03472	-.00017	-.00452	.00284	-.00652	-.06921	.03720	-1.86046
.349	.064	.00079	.03080	.03717	-.00066	-.00448	.00223	-.01017	.03076	.03720	.82686
.349	2.132	.00254	.12276	.03552	-.00424	-.00424	.00168	-.01037	.12136	.04007	3.02880
.349	4.228	.00451	.22308	.02932	-.00049	-.00434	.00158	-.01281	.22031	.04569	4.82189
.349	6.311	.00428	.32072	.01908	-.00056	-.00468	.00140	-.01174	.31668	.05422	5.84067
.349	8.392	.00555	.42730	.00482	-.00055	-.00448	.00117	-.01263	.42202	.06713	6.28645
.349	10.496	.00834	.54373	-.00776	-.00224	-.00552	.00002	-.01204	.55605	.09142	5.86346
.349	12.566	.00792	.62890	.00058	-.00316	-.00567	.00040	-.01308	.61371	.13739	4.46696
.349	14.606	.00780	.69297	.00989	-.00386	-.00610	.00146	-.01728	.66907	.18434	3.82409
.349	16.654	.00922	.74991	.01782	-.00488	-.00510	.00200	-.02168	.71334	.23199	3.07493
.349	20.724	.01060	.82851	.03670	-.00703	-.00300	.00202	-.02419	.82750	.32750	2.32644
GRADIENT		.00124	.04667	-.00086	-.00005	.00004	-.00021	-.00092	.04602	.00136	1.06749

RUN NO. 24/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.098	-.00782	-.09098	.03693	.00120	-.00489	.00304	-.00645	-.08957	.04024	-2.22586
.798	.078	-.00018	.02373	.03952	.00005	-.00471	.00249	-.00995	.02368	.03956	.59859
.799	2.241	.00404	.13464	.03738	-.00077	-.00468	.00210	-.01154	.13328	.04282	3.12672
.799	4.441	.00670	.25813	.03379	-.00196	-.00467	.00193	-.01288	.25474	.05367	4.74634
.798	6.600	.00780	.36580	.03332	-.00211	-.00407	.00201	-.01407	.35955	.07514	4.78497
.799	6.791	.00895	.45343	.03696	-.00228	-.00468	.00202	-.01502	.44252	.10552	4.19391
.799	10.871	.00950	.53869	.04592	-.00326	-.00412	.00213	-.01592	.52131	.14178	3.67683
.799	12.959	.01185	.60168	.04725	-.00376	-.00417	.00221	-.01810	.57576	.18097	3.18150
.798	15.073	.01450	.66014	.05316	-.00341	-.00424	.00235	-.02082	.62360	.22300	2.79643
.799	17.128	.01299	.70264	.05977	-.00212	-.00451	.00259	-.02075	.65387	.26405	2.47828
.798	19.197	.01713	.73516	.06622	-.00062	-.00465	.00154	-.01989	.70427	.30427	2.21020
.798	21.266	.02185	.77793	.07245	-.00061	-.00404	.00035	-.01906	.69868	.34966	1.99815
GRADIENT		.00219	.05319	-.00053	-.00047	.00003	-.00017	-.00096	.05246	.00199	1.07605

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM2VFB)

(RP5014) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAYDAP = 46.800 ELEVTR = .000
 BDFLAP = .000 RUOFLR = 10.000

RUN NO. 23/ D RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.141	-.00886	-.10238	.04439	.00078	-.00451	.00342	-.00801	-.10065	.04819	-2.08881
.899	.073	-.00228	.02200	.01632	-.00114	-.00334	.00296	-.01048	.02194	.04635	.47333
.899	2.265	.00439	.13749	.04998	-.00241	-.00208	.00298	-.01496	.13557	.05138	2.6
.898	4.500	.00679	.25757	.04371	-.00129	-.00326	.00257	-.01491	.25335	.06378	3.9
.900	6.733	.00905	.36979	.04578	-.00399	-.00325	.00235	-.01555	.36192	.08863	4.09337
.900	8.877	.01128	.48321	.04728	-.00523	-.00520	.00174	-.01457	.47013	.12128	3.87636
.899	11.010	.01212	.56873	.05336	-.00815	-.00594	.00157	-.01449	.54611	.16062	3.40005
.899	13.123	.01422	.63869	.05923	-.01131	-.00398	.00322	-.02109	.60856	.20269	3.00246
.899	15.264	.01571	.72683	.06697	-.01437	-.00394	.00330	-.02379	.68365	.25598	2.67073
.899	17.368	.01771	.83362	.07414	-.01404	-.00499	.00269	-.02700	.72576	.30467	2.38209
.900	19.455	.02303	.92963	.08181	-.01379	-.00290	.00269	-.02700	.75501	.35346	2.13605
.899	21.547	.02382	.87624	.08845	-.01404	-.00390	.00114	-.02149	.78252	.40408	1.93654
GRADIENT	.00242	.00011	-.00034	.00023	-.00114	-.00114	-.00011	-.00114	.05316	.00235	.91977

RUN NO. 22/ D RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.179	-.01358	-.13201	.08115	.00911	-.00526	.00441	-.00961	-.12883	.08611	-1.49623
.980	.039	-.00687	.01309	.08235	.00046	-.00491	.00422	-.01292	.01300	.08236	.15785
.981	2.287	-.00026	.15830	.08092	-.00820	-.00496	.00423	-.01791	.15495	.08717	1.77750
.981	4.541	.00232	.32577	.07904	-.01964	-.00468	.00427	-.01872	.31849	.10458	3.04531
.980	6.795	.00432	.48527	.07772	-.03019	-.00324	.00425	-.01988	.47267	.13459	3.51198
.981	9.018	.00526	.62186	.07827	-.03712	-.00472	.00440	-.02108	.60190	.17477	3.44393
.981	11.205	.00885	.73878	.07903	-.04225	-.00469	.00452	-.02381	.70953	.22010	3.22571
.979	13.405	.01327	.85977	.07831	-.04773	-.00473	.00450	-.02829	.81819	.27550	2.96982
.981	15.617	.01910	.98346	.08141	-.05428	-.00502	.00463	-.03225	.92551	.34220	2.70458
.981	17.781	.02135	1.06784	.08485	-.05340	-.00462	.00499	-.03383	.99092	.40690	2.43526
.980	19.912	.02107	1.12592	.08897	-.05049	-.00332	.00499	-.03383	1.02712	.46776	2.19584
.981	22.048	.01255	1.18716	.09333	-.05013	-.00395	.00370	-.03133	1.06531	.53214	2.00192
GRADIENT	.00242	.00011	-.00034	.00023	-.00114	-.00114	-.00011	-.00114	.06629	.00269	.68082

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMLVFB)

(RP5014) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.5597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LANDAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUDFLR = 10.000

PARAMETRIC DATA

RUP 21/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.123	-.01098	-.10091	.09458	.00979	-.00388	.00289	-.00590	-.09734	.09825	-.99077
1.200	.099	-.00264	.03008	.09707	.00013	-.00345	.00262	-.00922	.02991	.09712	.30802
1.200	2.332	.00219	.16138	.09831	-.00944	-.00332	.00278	-.01245	.15725	.10479	1.90052
1.200	4.563	.00510	.30389	.09800	-.01967	-.00292	.00276	-.01391	.29513	.12187	2.42166
1.200	6.801	.00688	.44109	.09675	-.02920	-.00289	.00282	-.01511	.42653	.14830	2.87612
1.200	9.041	.00803	.57066	.09433	-.03737	-.00227	.00305	-.01668	.54874	.18283	3.00134
1.200	11.256	.01029	.69380	.09184	-.04420	-.00268	.00323	-.01866	.68253	.22590	2.93803
1.200	13.476	.01293	.80729	.08674	-.04905	-.00368	.00353	-.02136	.76485	.27247	2.80708
1.200	15.696	.01581	.91271	.08447	-.05128	-.00556	.00384	-.02430	.85582	.32825	2.60726
1.200	17.895	.01977	.99748	.08209	-.05025	-.00403	.00363	-.02575	.92246	.38938	2.36904
1.200	20.078	.01950	1.07565	.08629	-.04943	-.00387	.00421	-.02811	.98065	.45031	2.17772
1.200	21.488	.01903	1.13312	.08691	-.04948	-.00396	.00475	-.03012	1.02253	.49594	2.06179
1.200	GRADIENT	.00238	.06035	.00052	-.00439	.00013	-.00001	-.00122	.05852	.00352	.51258

REFERENCE DATA

SREF = 171.4720 50. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3997 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUDEFLR = 10.000

RUN NO. 25/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.030	165.79033	-.08720	-.29654	-.22941	-.17412
.349	.064	166.35221	-.09125	-.28119	-.20074	-.17786
.349	2.132	166.35221	-.09462	-.27593	-.19930	-.17498
.349	4.228	165.97780	-.09676	-.27222	-.19926	-.16719
.349	6.311	166.07164	-.10347	-.28789	-.23578	-.15795
.349	8.392	166.07164	-.11601	-.31331	-.25746	-.17190
.349	10.496	165.97780	-.11753	-.33171	-.25086	-.19270
.349	12.566	165.97780	-.12815	-.34274	-.27256	-.21387
.349	14.608	165.97780	-.13829	-.36330	-.27497	-.24660
.349	16.654	166.07140	-.16331	-.37516	-.27626	-.29120
.349	20.724	165.79057	-.26221	-.50642	-.46307	-.34758
	GRADIENT	.02689	-.00154	.00375	.00441	.00114

RUN NO. 24/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.098	310.95347	-.10382	-.24962	-.17210	-.20700
.798	.078	310.61142	-.10882	-.23706	-.16119	-.19872
.799	2.241	310.88007	-.10642	-.23380	-.15823	-.19343
.799	4.441	310.88007	-.11209	-.22535	-.15694	-.18084
.798	6.600	310.25669	-.12494	-.23577	-.17090	-.17782
.799	8.751	311.22191	-.13002	-.25515	-.19203	-.19016
.799	10.871	310.95972	-.15537	-.26626	-.19757	-.22087
.799	12.959	311.15482	-.20011	-.31857	-.24377	-.26825
.798	15.073	310.74577	-.26379	-.40839	-.34271	-.33336
.799	17.128	310.88007	-.34181	-.46687	-.46409	-.38051
.798	19.197	310.74577	-.40901	-.56931	-.57374	-.44673
.798	21.266	310.74577	-.47014	-.63900	-.62603	-.47655
	GRADIENT	.00222	-.00103	.00349	.00222	.00385



TABLATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&VFB)

(RPSP14)

BETA = .000 WINGNO = 2.000
 LAMDAF = 46.800 ELEVTR = .000
 BDFLAF = .000 RUCFLR = 10.000

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 YREF = 25.5100 INCHES YMRP = .0000 INCHES
 ZREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 23/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.141	354.78517	-.09905	-.24072	-.16453	-.19870
.899	.073	354.90009	-.10150	-.22292	-.15049	-.18313
.899	2.265	385.09192	-.09039	-.20890	-.13689	-.16659
.898	4.500	354.57016	-.10770	-.20269	-.14341	-.15827
.900	6.703	355.19267	-.12128	-.21400	-.15510	-.15889
.900	8.877	355.19267	-.13347	-.27071	-.23600	-.17599
.899	11.010	354.91336	-.19093	-.32589	-.29030	-.24455
.899	13.123	355.22001	-.26500	-.39107	-.38829	-.29404
.899	15.264	355.07371	-.34276	-.47016	-.47433	-.37676
.899	17.368	354.83564	-.44147	-.56383	-.59397	-.46546
.900	19.455	355.29331	-.52618	-.69308	-.68422	-.56358
.899	21.547	355.06460	-.59695	-.75969	-.75025	-.58666
GRADIENT		-.02073	-.00068	.00579	.00347	.00632

RUN NO. 22/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.979	-2.179	384.95707	-.26196	-.33082	-.28651	-.30137
.980	.059	385.37039	-.26424	-.31772	-.28046	-.29614
.981	2.287	385.46212	-.26279	-.31151	-.27858	-.29779
.981	4.541	385.46212	-.27526	-.29973	-.28377	-.30380
.980	6.795	385.37039	-.29648	-.30718	-.29603	-.31935
.981	9.018	385.31326	-.33939	-.34196	-.33369	-.35757
.981	11.205	385.47760	-.36784	-.37063	-.36293	-.38839
.979	13.405	384.98663	-.39509	-.40391	-.39783	-.41455
.981	15.617	385.49278	-.44557	-.44723	-.45238	-.46110
.981	17.781	385.80067	-.52670	-.55962	-.53464	-.52684
.980	19.912	385.44660	-.58131	-.59468	-.58627	-.59101
.981	22.048	385.49247	-.63117	-.64277	-.63295	-.64071
GRADIENT		.07172	-.00172	.00444	.00745	-.00540

(RP5P14) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.3597 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 MINGNO = 2.000
 LAMCAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUCFLR = 10.000

RUN NO. 21/ 0 RNVL = 2.11 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.123	440.56569	-28618	-39833	-37058	-30952
1.200	.099	440.51531	-30384	-36455	-32917	-31461
1.200	2.332	440.51531	-31676	-37142	-33499	-33111
1.200	4.565	440.61608	-32728	-38746	-34767	-34468
1.200	6.801	440.51531	-34423	-41932	-36279	-35904
1.200	9.041	440.49398	-36003	-43718	-37601	-36898
1.200	11.256	440.57343	-36778	-42824	-38248	-37235
1.200	13.476	440.63738	-37498	-42002	-39384	-38188
1.200	15.696	440.55793	-38615	-41577	-40355	-39520
1.200	17.895	440.57343	-42344	-45878	-43661	-43762
1.200	20.078	440.48624	-45892	-49494	-46732	-47063
1.200	21.488	440.62382	-47908	-52435	-48890	-49471
GRADIENT		.00660	-.00611	.00115	.00281	-.00547

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 75

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNCVFB)

(RP5015) (19 MAY 75)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANCAF = 75.000 ELEVTR = .000
 BCFAP = .000 RUFLR = 10.000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8533 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 10/ 0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-1.939	-.00255	-.06563	.03605	-.00086	-.00441	.00261	-.00701	-.06437	.03825	-1.68261
.350	-.023	.00037	.01928	.03779	.00013	-.00420	.00194	-.00839	.01930	.03779	.51072
.349	2.190	.00459	.12351	.03613	.00180	-.00433	.00137	-.01202	.12204	.04082	2.98960
.349	4.269	.00560	.22190	.02979	.00379	-.00422	.00132	-.01330	.21906	.04623	4.75898
.347	6.234	.00603	.31843	.02080	.00829	-.00465	.00124	-.01364	.31429	.05326	5.68782
.348	8.301	.00616	.42641	.00851	.00697	-.00454	.00097	-.01274	.42071	.06998	6.01163
.348	10.529	.00932	.55608	.00151	.00660	-.00558	.00051	-.01552	.54644	.10310	5.30020
.348	12.671	.00762	.65630	.01235	.00377	-.00377	.00187	-.01864	.63761	.15600	4.08712
.348	14.739	.00938	.75630	.01141	.01017	-.00423	.00184	-.02121	.72851	.20345	3.58076
.347	16.832	.01246	.90626	.00384	.00942	-.00464	.00165	-.02518	.86632	.26610	3.25561
.347	18.970	.01338	1.02881	-.00272	.01485	-.01243	-.00070	-.01729	.97382	.33188	2.93428
.347	20.987	.00881	1.04294	.00369	.02323	-.01737	-.00762	-.01089	.97243	.37698	2.57953
		.00138	.04642	-.00099	.00075	.00002	-.00021	-.00108	.04575	.00131	1.04295

RUN NO. 9/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.107	-.00774	-.09337	.03754	.00037	-.00520	.00296	-.00619	-.09193	.04095	-2.24514
.801	.091	.00053	.02273	.04007	.00088	-.00477	.00226	-.00955	.02267	.04010	.56824
.801	2.233	.00654	.13321	.03763	.00177	-.00472	.00176	-.01206	.13163	.04284	3.07264
.799	4.468	.00797	.26032	.03383	.00234	-.00445	.00172	-.01300	.25689	.05401	4.75642
.799	6.970	.00914	.38670	.03591	.00410	-.00397	.00180	-.01421	.37948	.08237	4.59602
.799	8.787	.00949	.47320	.03803	.00398	-.00394	.00210	-.01572	.46184	.10987	4.20330
.798	10.986	.01070	.58363	.03917	.00491	-.00452	.00246	-.01820	.56547	.14968	3.77797
.798	13.161	.01567	.71588	.04040	.00373	-.00476	.00211	-.02067	.68788	.20233	3.39980
.798	15.412	.02166	.86418	.03847	.00276	-.00402	.00210	-.02542	.82288	.26675	3.08484
.798	17.649	.02396	.96839	.03983	.00665	-.00560	.00159	-.02538	.91073	.33156	2.74682
.798	19.723	.02240	1.00362	.04473	.01727	-.00787	.00210	-.02643	.92965	.38080	2.44132
.798	21.765	.02918	1.00064	.05395	.02577	-.00899	.00223	-.03259	.90931	.42114	2.15917
		.00243	.05353	-.00062	.00031	.00011	-.00019	-.00105	.05280	.00192	1.07393

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 75.000 ELEVTR = .000
 BDPLAP = .000 RUDFLR = 10.000

RUN NO. 8 / 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.182	-.00781	-.10708	.04445	.00049	-.00491	.00319	-.00779	-.10531	.04850	-2.17149
.902	.121	-.00921	.02228	.04712	.00010	-.00326	.00280	-.01121	.02218	.04716	-.47037
.899	2.261	.00506	.13613	.04534	.00054	-.00277	.00269	-.01424	.13424	.05068	2.64886
.900	4.471	.00967	.24992	.04482	.00405	-.00457	.00225	-.01550	.24567	.06417	3.82861
.899	6.877	.01178	.38629	.04534	.00045	-.00485	.00190	-.01553	.37808	.09126	4.14269
.899	8.383	.01172	.50027	.04748	.00045	-.00572	.00203	-.01605	.48693	.12416	3.92169
.899	11.064	.01210	.59435	.05283	.00046	-.00478	.00313	-.02082	.57317	.16591	3.45467
.901	13.307	.01615	.72173	.05766	-.00303	-.00413	.00302	-.02318	.68908	.22223	3.10073
.900	14.418	.01944	.78560	.05801	-.00390	-.00440	.00270	-.02414	.74641	.25180	2.96436
.900	15.583	.02018	.86683	.05900	-.01418	-.01531	.00316	-.02661	.81911	.28970	2.82730
.900	17.897	.02425	.99408	.06089	-.00258	-.00574	.00240	-.02649	.92727	.36343	2.55144
.898	19.913	.02541	1.04033	.06473	.00681	-.00598	.00278	-.02911	.95608	.41519	2.30274
.898	22.048	.02597	1.06383	.07327	.01657	-.00374	.00331	-.03189	.95853	.46726	2.05136
GRADIENT		.00261	.05363	-.00002	.00050	.00007	-.00013	-.00118	.05275	.00227	.91406

RUN NO. 7 / 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.191	-.01322	-.13433	.07814	.00811	-.00502	.00456	-.01048	-.13125	.08322	-1.57715
.982	.029	-.00425	.01078	.07987	.00109	-.00472	.00388	.01316	.01074	.07988	.13441
.981	2.333	.00208	.15597	.07646	-.00526	-.00488	.00399	-.01740	.15273	.08274	1.84580
.979	4.567	.00418	.32671	.07482	-.01454	-.00480	.00401	-.01882	.31777	.10060	3.17625
.979	6.807	.00545	.48311	.07565	-.02318	-.00362	.00405	-.01977	.47074	.12438	3.55601
.979	9.053	.00609	.62562	.07700	-.02847	-.00558	.00446	-.02185	.47074	.17448	3.47157
.981	11.199	.00759	.76970	.07893	-.03610	-.00523	.00477	-.02403	.60571	.22691	3.25996
.983	13.527	.01212	.92654	.08276	-.04404	-.00465	.00494	-.02757	.88148	.29719	2.96599
.980	15.742	.01546	1.03935	.07975	-.04334	-.00742	.00498	-.02995	.97873	.35875	2.72815
.982	17.994	.02177	1.15317	.08166	-.04278	-.00374	.00483	-.03347	1.07155	.43369	2.46962
.980	20.296	.02494	1.27306	.07997	-.04293	-.00411	.00458	-.03472	1.16628	.51659	2.25766
GRADIENT		.00259	.06768	-.00059	-.00329	.00102	-.00007	-.00130	.06620	.00244	.70769

SPJF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3997 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LANGAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = 10.000

RUN NO. 6/ 0 RVAL = 2.11 GRADIENT INTERVAL = -3.00/ 5.00

PARAMETRIC DATA

REFERENCE DATA

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
1.200	-2.076	-.00798	-.10276	.09191	.00983	-.00431	.00246	-.00575	-.09936	.09317	-1.04422
1.200	.130	-.00135	.02852	.09417	.00207	-.00427	.00241	-.00805	.02830	.09424	.30035
1.201	2.335	.00344	.15756	.09475	-.00529	-.00367	.00258	-.01229	.15357	.10109	1.51919
1.201	4.617	.00592	.30103	.09419	-.01332	-.00305	.00267	-.01400	.29247	.11812	2.47605
1.200	6.830	.00711	.43634	.09233	-.02013	-.00311	.00281	-.01522	.42227	.14357	2.94126
1.199	9.063	.00822	.57359	.09095	-.02624	-.00310	.00308	-.01692	.55220	.17957	3.07506
1.199	11.326	.01072	.70683	.08881	-.03111	-.00335	.00326	-.01903	.67563	.22589	2.99089
1.200	13.693	.01568	.84640	.08716	-.03606	-.00342	.00316	-.02140	.80171	.28505	2.81251
1.200	15.942	.01978	.96488	.08383	-.03986	-.00415	.00345	-.02489	.90535	.34403	2.63158
1.198	18.066	.02338	1.08009	.08309	-.04181	-.00458	.00356	-.02749	1.00108	.41395	2.41837
1.199	19.336	.02570	1.13291	.08326	-.04053	-.00310	.00346	-.02831	1.04144	.45368	2.29552
	GRADIENT	.00208	.06016	.00038	-.00345	-.00020	.00004	-.00125	.05838	.00341	-.52826

DATE 27 JUL 73

TABLATED SOURCE DATA-LARC 644

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (B42VFB)

(RP5P15) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.3100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANDAF = 75.000 ELEVTR = .000
BDFLAP = .000 RUCFLR = 10.000

RUN NO. 10/ 0 RVL = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-1.939	166.72538	-.08024	-.22989	-.15279	-.17817
.350	-.023	166.53774	-.08417	-.22059	-.14623	-.17884
.349	2.190	166.25673	-.08624	-.22191	-.15129	-.17049
.349	4.269	165.78870	-.08599	-.24077	-.17198	-.14687
.347	6.234	164.66505	-.08947	-.24916	-.19695	-.13379
.348	8.301	165.13422	-.09166	-.24653	-.19979	-.14164
.348	10.529	164.94647	-.09564	-.23088	-.16799	-.16552
.348	12.671	165.04058	-.11113	-.23461	-.16644	-.19495
.348	14.739	165.04058	-.12182	-.25873	-.18778	-.22254
.347	16.832	164.75939	-.12348	-.30120	-.21093	-.25394
.347	18.970	164.57207	-.17086	-.39538	-.25153	-.27656
.347	20.987	164.66597	-.23988	-.45704	-.31360	-.32782
	GRADIENT	-.14867	-.02092	-.00167	-.00305	-.00494

RUN NO. 9/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.793	-2.107	311.15654	-.09924	-.19336	-.13572	-.19156
.801	.091	312.42411	-.10149	-.18706	-.13346	-.18525
.799	2.253	312.14997	-.09874	-.18848	-.13228	-.17516
.799	4.468	311.41254	-.10021	-.18862	-.13357	-.16552
.799	6.970	311.48590	-.11177	-.19293	-.14408	-.16728
.799	8.787	311.48590	-.12412	-.19778	-.15282	-.17805
.798	10.986	310.87537	-.14753	-.21094	-.17187	-.20174
.798	13.161	310.87537	-.17021	-.23808	-.19942	-.23257
.798	15.412	310.94255	-.18101	-.27695	-.22769	-.27106
.798	17.649	310.94255	-.22895	-.34760	-.28690	-.33092
.798	19.723	310.94255	-.32201	-.42620	-.36952	-.40285
.798	21.765	310.94255	-.42151	-.53885	-.48535	-.46835
	GRADIENT	.02241	-.00001	-.00059	-.00035	-.00403

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&VFB)

(RP5P15) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.3100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = 10.000

RUN NO. Q / D RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.182	355.29283	-.09497	-.17983	-.12759	-.18000
.902	.121	356.23366	-.09133	-.16794	-.12124	-.16613
.899	2.261	355.12831	-.08372	-.16557	-.11657	-.15025
.900	4.471	355.75947	-.08854	-.16394	-.11752	-.13943
.899	6.877	355.02740	-.10745	-.17481	-.13444	-.14669
.899	8.883	355.10512	-.13181	-.19069	-.15300	-.16693
.899	11.064	355.10512	-.17830	-.23462	-.19775	-.20986
.901	13.307	355.87827	-.24098	-.28379	-.25467	-.26331
.900	14.418	355.80973	-.26401	-.30620	-.27744	-.28331
.900	15.583	355.49434	-.29693	-.33491	-.30695	-.31097
.900	17.897	355.81887	-.36604	-.42366	-.37326	-.37243
.898	19.913	354.66980	-.45807	-.50766	-.46653	-.47002
.898	22.048	354.99504	-.54638	-.62510	-.58808	-.57354
			GRADIENT	.00122	.00162	.00327

RUN NO. 7 / 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.191	385.24787	-.24144	-.29780	-.25989	-.28894
.982	.029	385.98319	-.25424	-.29391	-.26433	-.29084
.981	2.333	385.55704	-.27718	-.28529	-.25647	-.28364
.979	4.567	384.89553	-.29980	-.28259	-.26409	-.28939
.979	6.807	384.83420	-.29475	-.30550	-.29316	-.31450
.979	9.053	384.88021	-.34011	-.34500	-.33413	-.35314
.981	11.199	385.81278	-.37841	-.37805	-.36738	-.38300
.983	13.527	386.39474	-.43477	-.43114	-.41601	-.45100
.980	15.742	385.67521	-.45410	-.44620	-.44711	-.46610
.982	17.994	386.16630	-.50226	-.49240	-.48630	-.52372
.980	20.296	385.41572	-.51286	-.51075	-.50578	-.54675
			GRADIENT	-.00211	-.00241	-.00340

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 75.000 ELEVTR = .000
 BOFLAP = .000 RUDFLR = 10.000

RUN NO. 6/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.076	440.69553	-28365	-32695	-31670	-29807
1.200	.130	440.68776	-29830	-32813	-31355	-30396
1.201	2.335	440.73905	-30506	-35147	-32304	-32484
1.201	4.617	440.65868	-32072	-38003	-33867	-33700
1.200	6.830	440.63738	-33378	-39729	-34953	-34386
1.199	9.063	440.42379	-34905	-38976	-36079	-35074
1.199	11.326	440.44520	-35764	-38871	-36810	-35893
1.200	13.693	440.53073	-37125	-39572	-38423	-37359
1.200	15.842	440.50936	-37940	-39821	-39164	-38280
1.198	18.505	440.35733	-39798	-42950	-40911	-42199
1.199	19.336	440.59003	-41357	-44407	-42940	-44151
GRADIENT			-00530	-00821	-00349	-00618

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0200 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMDALF = 35.000 ELEVTR = .000
BDPLAP = .000 RUDPLR = .000

RUN NO. 55/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-1.928	-.00019	-.03993	.02111	-.00472	.00013	.00124	-.00489	-.03920	.02244	-1.74717
.349	.138	.00292	.05800	.02306	-.00415	.00046	.00079	-.00738	.05794	.02319	2.49799
.348	2.225	.00647	.15520	.01862	-.00287	.00071	.00051	-.01119	.15445	.02463	6.27079
.348	4.164	.00778	.25906	.01417	-.00282	.00068	.00037	-.01245	.25734	.03295	7.81115
.348	6.356	.00849	.37664	.00243	-.00203	.00104	.00033	-.01336	.37406	.04411	8.48006
.348	6.433	.01013	.49979	-.01284	-.00167	.00172	.00012	-.01484	.49623	.06085	8.15456
.343	10.529	.00854	.61635	-.02297	-.00225	.00235	.00046	-.01827	.61017	.09005	6.77584
.347	12.653	.01123	.69287	-.00330	-.00802	.00091	.00043	-.01796	.67677	.14855	4.55584
.347	14.325	.01195	.74299	.01046	-.00955	.00072	.00039	-.02120	.73012	.24339	2.99978
.347	16.643	.01241	.76924	.02438	-.01099	.00049	.00039	-.01985	.67077	.27333	2.45409
.347	18.505	.03154	.72284	.04630	-.01060	.01690	.00414	-.06405	.59750	.28829	2.07259
.347	20.574	.02031	.66071	.05992	-.00630	.00656	.00260	-.04137	.04848	.00160	1.59791
GRADIENT		.00135	.04880	-.00123	.00034	.00009	-.00014	-.00030			

RUN NO. 54/ 0 RNVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-2.144	-.00225	-.05222	.02063	-.00741	.00039	.00169	-.00535	-.05141	.02237	-2.27792
.800	.100	.00542	.06534	.02283	-.00642	.00052	.00128	-.00935	.06530	.02295	2.84562
.798	4.616	.01625	.19622	.02062	-.00954	.00082	.00093	-.01245	.19520	.02867	6.80081
.798	6.746	.01893	.34037	.01642	-.00557	.00088	.00027	-.01329	.33795	.04376	7.72225
.798	6.794	.01731	.45909	.01846	-.00755	.00110	-.00005	-.01401	.45374	.07226	6.27905
.799	11.065	.01341	.59440	.02401	-.00955	-.00282	.00035	-.01454	.52939	.10620	4.98502
.798	12.999	.01432	.58202	.03558	-.01129	-.00281	.00020	-.01100	.56437	.14663	3.84907
.798	15.054	.01998	.62281	.04668	-.01302	-.00145	.00031	-.01226	.59635	.18557	3.21356
.798	17.058	.02374	.67516	.05432	-.01286	-.00048	.00020	-.01630	.63788	.22781	2.80008
.798	19.990	.04766	.72158	.05929	-.01137	.00063	-.00050	-.01645	.67245	.26835	2.50590
.797	21.233	.04585	.71915	.07069	-.00836	.01452	.01147	-.08538	.65648	.30200	2.17375
GRADIENT		.00273	.04807	-.00066	.00028	.00008	-.00020	-.00119	.68666	.34508	1.98985

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 23.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0180 SCALE

BETA = .000 WINGNO = 3.000
 LANDAF = 35.000 ELEVTR = .000
 BDPLAP = .000 RUFLR = .000

RUN NO. 53/0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.205	-.00420	-.06885	.02960	-.00936	.00074	.00171	-.00439	-.06756	.03223	-2.09933
.899	.135	.00655	.06113	.02974	-.00916	.00071	.00068	-.00711	.06105	.02989	2.04317
.899	2.301	.01314	.20480	.02954	-.01042	.00107	.00047	-.01053	.20347	.03724	5.46404
.897	4.604	.01777	.34218	.03070	-.01006	-.00105	.00139	-.01746	.33666	.05737	5.90349
.898	6.840	.01927	.43436	.03407	-.00749	-.00115	.00031	-.01399	.42721	.08556	4.99327
.896	9.096	.01653	.54130	.04028	-.01350	-.00135	-.00039	-.01240	.52813	.12534	4.21345
.896	11.224	.01833	.62789	.05175	-.02010	-.00163	.00234	-.01283	.60580	.17298	3.50222
.896	13.230	.00843	.68333	.06294	-.02255	-.00853	-.00068	-.00283	.65079	.21766	2.98992
.898	15.297	.01704	.75522	.07048	-.02535	-.00498	-.00198	-.00332	.70987	.26723	2.65645
.897	17.311	.02748	.81218	.07328	-.02502	.00049	-.00008	-.01852	.75350	.31163	2.41821
.896	19.378	.04164	.82170	.08165	-.02170	.01365	.01315	-.06372	.74806	.34966	2.13936
.894	21.622	.04035	.87717	.08290	-.02093	.00899	.00923	-.06695	.78491	.40028	1.96088
	GRADIENT	.00321	.06091	.00002	-.00015	-.00022	-.00005	-.00189	.06023	.00366	1.21378

RUN NO. 52/0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.160	-.00713	-.11508	.07393	.00429	-.00020	.00195	-.00382	-.11221	.07821	-1.43466
.980	.065	.00249	.03371	.07739	-.00180	.00013	.00161	-.00819	.03362	.07743	.43419
.980	2.548	.01090	.21156	.07854	-.01083	.00094	.00122	-.01162	.20785	.08787	2.36544
.980	4.611	.01597	.36865	.07927	-.01960	.00126	.00098	-.01371	.36108	.10865	3.32343
.981	6.867	.01786	.53855	.08380	-.02069	.00119	.00126	-.01606	.52467	.14759	3.55479
.981	9.077	.02264	.69323	.08360	-.04060	.00184	.00074	-.01686	.67136	.19191	3.49823
.977	11.377	.03006	.83395	.08626	-.04885	.00505	-.00011	-.01806	.80141	.24475	3.27389
.981	13.548	.03371	.96785	.08813	-.05941	.00089	.00028	-.02197	.92071	.31060	2.96434
.979	15.750	.03398	1.07856	.08813	-.06460	.00388	.00133	-.02680	1.01414	.37759	2.68583
.981	17.764	.03292	1.14932	.09469	-.06598	-.00061	.00120	-.02580	1.06686	.43702	2.44125
.980	20.019	.02869	1.21358	.09684	-.06633	-.00220	.00118	-.02329	1.10710	.50644	2.16635
	GRADIENT	.00341	.07143	.00075	-.00354	.00023	-.00015	-.00145	.06990	.00443	.71285

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNOVFB) (RP5016) (19 MAY 73)

REFERENCE DATA
 SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 35.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUGFLR = .000
 SCALE = .0168 SCALE

PARAMETRIC DATA

RUN NO. 51/ D RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.084	-.00548	-.08303	.08217	.00196	.00077	.00172	-.00430	-.07999	.08514	-.93951
1.201	.091	.00356	.04241	.08456	-.00586	.00093	.00154	-.00827	.04233	.08460	.50039
1.201	2.393	.01113	.19571	.08608	-.01587	.00135	.00136	-.01154	.19194	.09418	2.03804
1.201	4.573	.01499	.34102	.08674	-.02511	.00166	.00121	-.01293	.33302	.11365	2.93016
1.200	6.885	.01853	.48580	.08719	-.03379	.00160	.00102	-.01408	.47185	.14480	3.25871
1.198	9.123	.02170	.62163	.08724	-.04154	.00137	.00119	-.01624	.59993	.16470	3.24813
1.200	11.412	.02409	.75246	.08652	-.04808	.00127	.00138	-.01866	.72047	.23369	3.08297
1.200	13.670	.02969	.87291	.08335	-.05269	.00344	.00130	-.02149	.82801	.28923	2.86282
1.200	15.806	.03360	.98903	.08473	-.05657	.00211	.00132	-.02388	.92470	.34983	2.64332
1.200	18.043	.03554	1.08149	.08566	-.05824	.00491	.00184	-.02734	1.00177	.41641	2.40573
1.200	19.197	.03724	1.12327	.08626	-.058829	.00274	.00168	-.02775	1.03244	.45082	2.29013
		.00309	.06390	.00068	-.00409	.00014	-.00008	-.00131	.06225	.00427	.58932

(RP5P16) (19 MAY 73)

LARC 8-FT TFI 644 LO-100 ORBITER (SHIPS) (BMSVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUDELFL = .000

RUN NO. 55/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.928	166.25838	-.02574	-.06152	-.06342	-.03765
.349	.138	166.25885	-.02767	-.05864	-.08054	-.03429
.348	2.225	165.69695	-.03114	-.05787	-.06920	-.03536
.348	4.164	165.69718	-.03452	-.06075	-.06244	-.03970
.348	6.356	165.22926	-.03170	-.06477	-.07811	-.03738
.348	8.463	165.32266	-.03168	-.07292	-.09453	-.03398
.348	10.529	164.94793	-.04050	-.08901	-.10493	-.04809
.347	12.653	164.76124	-.06049	-.12100	-.12642	-.07142
.347	14.525	164.47956	-.08788	-.18428	-.16946	-.09776
.347	16.643	164.57345	-.13459	-.24401	-.25886	-.16128
.347	18.505	164.66735	-.31609	-.41116	-.41816	-.29362
.347	20.574	164.57345	-.39031	-.50379	-.52540	-.36125
GRADIENT		-.11070	-.003146	.00016	.00365	-.00034

RUN NO. 54/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.144	310.32391	-.01980	-.02789	-.02774	-.02384
.800	.100	311.62424	-.02005	-.02530	-.02102	-.02228
.800	2.356	311.61795	-.02186	-.02657	-.02154	-.02408
.798	4.616	310.54423	-.02418	-.02865	-.02489	-.02640
.798	6.746	310.54423	-.03167	-.03634	-.03211	-.03464
.798	8.794	310.54423	-.04354	-.05762	-.05969	-.04544
.799	11.065	311.21564	-.08883	-.14068	-.14834	-.09774
.798	12.999	310.33014	-.15799	-.23030	-.23486	-.17441
.798	15.054	310.34881	-.23262	-.31084	-.31661	-.24389
.798	17.058	310.68494	-.30154	-.36408	-.37271	-.29995
.798	19.090	310.67236	-.43625	-.47429	-.47476	-.41773
.797	21.233	310.13463	-.48111	-.51846	-.52459	-.46426
GRADIENT		.02867	-.00266	-.00016	.00035	-.00042

DATE 07 JUL 73

TABLULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B4-SVFB)

(RPSF16) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.3100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMBDAF = 35.000 ELEVTR = .000
BCFLAP = .000 RUFLR = .000

RUN NO. 53/ 0 RVL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.205	354.84473	.00520	-.01494	.00098	-.01631
.899	.135	354.75793	.00237	-.01001	.00009	-.01249
.899	2.301	354.82655	.00128	-.00709	-.00148	-.00799
.897	4.604	354.05145	-.01210	-.02846	-.01364	-.02176
.898	6.840	354.59736	-.03604	-.07961	-.08586	-.05237
.896	9.096	353.48661	-.06926	-.12197	-.12983	-.08145
.896	11.224	353.82150	-.14872	-.22154	-.18265	-.15045
.896	13.230	353.82150	-.24500	-.32843	-.29576	-.26581
.898	15.297	354.41851	-.33687	-.40515	-.39374	-.36366
.897	17.311	353.93200	-.39577	-.47071	-.47412	-.38625
.896	19.378	353.57335	-.49524	-.53086	-.54817	-.47181
.894	21.622	352.91461	-.54659	-.57200	-.59365	-.52180
GRADIENT		-.10264	-.00235	-.00167	-.00201	-.00053

RUN NO. 52/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.160	385.30893	-.17228	-.16619	-.18032	-.19199
.980	.065	385.24787	-.17041	-.16702	-.18408	-.19512
.980	2.548	385.24787	-.17416	-.17446	-.19197	-.20466
.980	4.611	385.03387	-.18520	-.19060	-.20570	-.22563
.981	6.867	386.19693	-.22892	-.22989	-.23035	-.26681
.981	9.077	385.52315	-.26030	-.26890	-.27465	-.29171
.977	11.377	384.22106	-.29296	-.31235	-.30294	-.32332
.981	13.548	385.68866	-.33578	-.36764	-.37226	-.38682
.979	15.750	384.98791	-.39611	-.42530	-.39511	-.42190
.981	17.764	385.49606	-.44766	-.44714	-.46673	-.46888
.980	20.019	385.38465	-.50935	-.50220	-.53852	-.54507
GRADIENT		-.03556	-.00184	-.00351	-.00366	-.00481

TABLATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNAVFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.3100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMCAF = 35.000 ELEVTR = .000
EDFLAP = .000 RUOFLR = .000

RUN NO. 51/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.084	440.53793	-.23591	-.23826	-.23754	-.23813
1.201	.051	440.62959	-.23340	-.23089	-.23576	-.23944
1.201	2.393	440.67996	-.23558	-.23179	-.23939	-.24669
1.201	4.573	440.67996	-.24085	-.24118	-.24884	-.25557
1.200	6.885	440.45128	-.25080	-.25558	-.25750	-.26676
1.198	9.123	440.17125	-.26866	-.28037	-.26825	-.28366
1.200	11.412	440.66646	-.28583	-.29706	-.28231	-.30256
1.200	13.670	440.45717	-.30781	-.32178	-.30552	-.32900
1.200	15.806	440.57343	-.32361	-.35301	-.32294	-.34855
1.200	18.043	440.50936	-.36189	-.38507	-.36298	-.39014
1.200	19.197	440.48033	-.39034	-.40483	-.38921	-.41359
	GRADIENT	.01865	-.00077	-.00044	-.00169	-.00268

(RP5017) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 45.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUCFLR = .000
 SCALE = .0188 SCALE

RUN NO. 85/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-1.991	-.00066	-.04165	.01973	-.00528	.00028	.00126	-.00433	-.04094	.02117	-1.93425
.350	.090	.00240	.06134	.02180	-.00446	.00072	.00092	-.00716	.06130	.02190	2.79955
.350	2.168	.00528	.15920	.01844	-.00308	.00077	.00076	-.01052	.15839	.02445	6.47785
.349	4.410	.00674	.27383	.01061	-.00195	.00114	.00057	-.01181	.27221	.03163	8.60613
.349	6.425	.00768	.38226	-.00007	-.00110	.00125	.00068	-.01363	.37987	.04271	8.89475
.349	8.384	.00899	.49585	-.01382	-.00060	.00226	.00037	-.01421	.49257	.05863	6.40131
.349	10.607	.00942	.61944	-.01794	-.00162	.00223	.00129	-.01875	.61216	.09638	6.35123
.348	12.696	.01037	.68002	.00183	-.00528	.00220	.00089	-.01887	.67275	.15343	4.38471
.348	14.649	.01175	.73708	.01187	-.00749	.00114	.00116	-.02182	.71011	.19789	3.58638
.348	16.796	.01089	.78323	.02099	-.00852	-.00074	.00101	-.02013	.74392	.24585	3.02391
.348	18.792	.00798	.79152	.03360	-.00912	-.00270	.00065	-.01449	.73851	.28679	2.57509
.349	19.794	-.01511	.72876	.05143	-.00731	-.01894	-.00389	-.03866	.66829	.29518	2.26401
GRADIENT	.00117	.04908	-.00146	.00053	.00012	-.00010	-.00121	.04872	.00161	1.65334	

RUN NO. 84/ 0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.796	-2.097	-.00309	-.04651	.01995	-.00766	.00048	.00174	-.00493	-.04575	.02164	-2.11414
.796	.143	.00428	.06662	.02158	-.00612	.00059	.00139	-.00897	.06657	.02175	3.08044
.799	2.416	.01138	.20127	.01915	-.00501	.00088	.00119	-.01345	.20028	.02762	7.25123
.796	4.572	.01561	.33550	.01537	-.00466	.00095	.00052	-.01391	.33321	.04207	7.92086
.797	6.825	.01750	.46919	.01700	-.00685	-.00063	.00013	-.01372	.46385	.07264	6.38528
.797	8.902	.01579	.54865	.02265	-.00865	-.00029	.00065	-.01468	.53854	.10728	5.02012
.798	10.997	.01602	.60396	.03149	-.00967	.00281	.00103	-.01649	.58686	.14612	4.01644
.797	13.128	.01616	.67025	.03894	-.01034	-.00080	.00071	-.01537	.64389	.19014	3.38632
.797	14.723	.01493	.69544	.04661	-.00943	-.00296	-.00054	-.00931	.66076	.22182	2.97888
.796	17.135	.01861	.71977	.05864	-.00723	-.00162	-.00143	-.00860	.67054	.26810	2.50108
.797	19.002	.02198	.77126	.06379	-.00795	-.00163	-.00261	-.00652	.70846	.31144	2.27480
.798	21.234	.03020	.78291	.07143	-.00584	-.00149	-.00202	-.01579	.70388	.38013	2.01035
GRADIENT	.00284	.05746	-.00072	.00245	.00008	-.00017	-.00141	.05701	.00300	1.54371	

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

(RFS017) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 45.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 83/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.099	-.00425	-.06614	.02836	-.00917	.00039	.00169	-.00428	-.06506	.03076	-2.11498
.900	.039	.00511	.04751	.02981	-.00776	.00062	.00077	-.00653	.04749	.02984	1.59168
.900	2.519	.01244	.21091	.02763	-.00938	.00109	.00063	-.01075	.20949	.03687	5.68122
.898	4.652	.01596	.34483	.02909	-.00976	-.00125	.00033	-.01185	.34134	.05697	5.99251
.898	6.807	.01835	.43942	.03307	-.00782	-.00175	-.00028	-.01090	.43241	.08492	5.99176
.900	9.080	.01751	.55807	.04047	-.01376	.00032	-.00046	-.00963	.54469	.12804	4.25423
.898	11.052	.02124	.64590	.04805	-.01812	.00114	-.00036	-.01264	.62471	.17998	3.65361
.899	13.288	.02096	.72087	.05659	-.02005	.00022	.00058	-.01648	.68856	.22077	3.11898
.898	15.362	.01664	.77903	.06699	-.02198	-.00466	-.00118	-.00637	.73345	.27097	2.70678
.899	17.357	.02174	.81133	.07397	-.02133	-.00430	-.00342	-.00342	.75232	.31264	2.40635
.898	19.461	.03029	.85338	.07919	-.02155	-.00126	-.00364	-.00586	.77824	.35897	2.16797
.898	21.537	.03063	.89123	.08176	-.02055	-.00208	-.00579	.00260	.79900	.40322	1.98156
GRADIENT		.00299	.06147	-.00001	-.00015	-.00019	-.00018	-.00119	.06081	.00376	1.25431

RUN NO. 82/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.151	-.00804	-.11466	.07353	.00409	-.00004	.00196	-.00333	-.11182	.07778	-1.43761
.980	.123	.00202	.03784	.07602	-.00184	.00030	.00164	-.00803	.03768	.07610	.49510
.980	2.387	.00930	.19615	.07725	-.00937	.00095	.00151	-.01191	.19277	.08536	2.25835
.979	4.740	.01446	.37635	.07816	-.01907	.00131	.00107	-.01319	.36861	.10899	3.38195
.980	6.871	.01701	.53691	.08067	-.02939	.00162	.00139	-.01611	.52341	.14432	3.62667
.980	9.236	.02214	.70435	.08225	-.03977	.00221	.00083	-.01693	.68202	.19423	3.51143
.981	11.402	.02787	.83999	.08196	-.04796	.00328	.00028	-.01822	.80721	.24641	3.27589
.978	13.687	.03300	.99427	.08337	-.05805	.00453	.00052	-.02261	.94631	.31627	2.99209
.978	15.814	.02984	1.09287	.08340	-.06052	-.00877	.00123	-.02380	1.02878	.37807	2.72113
.979	18.021	.03479	1.18051	.08892	-.06338	.00063	.00108	-.02650	1.09509	.44976	2.43481
.980	20.056	.03087	1.21643	.09332	-.06161	-.00111	.00142	-.02570	1.11066	.50482	2.20011
.979	21.040	.02731	1.21365	.09589	-.05687	-.00588	-.00062	-.01504	1.09831	.52522	2.09115
GRADIENT		.00326	.07114	.00066	-.00336	-.00020	-.00012	-.00146	.06962	.00451	.70649

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB) (RP5017) (19 MAY 73)

REFERENCE DATA
 SREF = 173.1312 SQ. IN. YMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMCAF = 45.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0188 SCALE

RUN NO. 81/ 0 RN/L = 2.11 GRADIENT INTERVAL = -3.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.158	-.00664	-.08628	.08079	.00238	.00073	.00180	-.00399	-.08318	.08399	-.99037
1.201	.153	.00349	.05187	.08264	-.00585	.00094	.00156	-.00833	.05165	.08278	.62394
1.201	2.363	.01102	.19602	.08399	-.01472	.00149	.00139	-.01160	.19239	.09200	2.09131
1.201	4.613	.01439	.34604	.08512	-.02387	.00162	.00126	-.01283	.33808	.11268	3.00034
1.199	6.904	.01814	.49355	.08575	-.03237	.00164	.00100	-.01378	.47967	.14445	3.32063
1.198	9.263	.02053	.63650	.08728	-.04080	.00142	.00120	-.01594	.61415	.18860	3.25637
1.200	11.358	.02352	.76077	.08691	-.04712	.00165	.00137	-.01833	.72875	.23503	3.10068
1.199	12.477	.02657	.82308	.08673	-.04996	.00269	.00135	-.01993	.78491	.26251	2.99703
1.199	13.654	.02872	.88798	.08641	-.05267	.00286	.00134	-.02114	.84249	.29359	2.86966
1.199	15.967	.03335	1.01602	.08619	-.05765	.00284	.00140	-.02409	.95311	.36236	2.63027
1.198	18.096	.03603	1.12458	.08656	-.06131	.00129	.00156	-.02644	1.04207	.43159	2.41449
	GRADIENT	.00314	.06397	.00064	-.00389	.00014	-.00008	-.00132	.06235	.00422	-.59697

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

(RP5F17) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9596 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGAO = 3.000
 LAMDAF = 45.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 85/ 0 RVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.991	166.35291	-.02284	-.05960	-.08245	-.03477
.350	.090	167.00800	-.02757	-.05699	-.07926	-.03369
.350	2.168	166.72656	-.03194	-.05660	-.06979	-.03422
.349	4.410	166.35221	-.03393	-.05960	-.06849	-.03861
.349	6.425	165.97780	-.03158	-.06404	-.08263	-.03560
.349	8.384	165.88418	-.03257	-.07369	-.09233	-.03775
.349	10.607	165.88418	-.04078	-.09001	-.10584	-.04546
.348	12.696	165.60332	-.06361	-.12478	-.13310	-.07303
.348	14.649	165.50970	-.094.3	-.16721	-.17333	-.10204
.348	16.796	165.60356	-.14060	-.23926	-.24770	-.16037
.348	18.792	165.69741	-.22425	-.33383	-.33938	-.26548
.349	19.794	165.79127	-.38664	-.48210	-.46187	-.43636
GRADIENT		-.01484	-.03176	-.07001	-.00240	-.07058

RUN NO. 84/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.097	310.42713	-.01878	-.02637	-.02363	-.02309
.798	.143	310.34123	-.02266	-.02817	-.02338	-.02567
.799	2.416	310.89710	-.02214	-.02687	-.02208	-.02463
.796	4.572	309.46079	-.02293	-.02819	-.02261	-.02568
.797	6.825	310.10355	-.03170	-.03639	-.03163	-.03442
.797	8.902	309.52810	-.04676	-.05779	-.05883	-.04943
.798	10.997	310.28028	-.07668	-.11828	-.13332	-.08181
.797	13.128	309.67510	-.13557	-.19563	-.21861	-.14153
.797	14.723	309.65028	-.22130	-.29032	-.30759	-.24968
.798	17.135	310.05998	-.33121	-.39426	-.40819	-.35375
.797	19.002	309.61400	-.38734	-.43416	-.44883	-.38854
.798	21.234	310.06620	-.47604	-.50986	-.53034	-.46017
GRADIENT		-.10322	-.09054	-.07019	-.07020	-.07030

TABLULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNCVFB) (RPPSP17) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 23.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAYCAF = 45.000 ELEVTR = .000
 EDFLAP = .000 RUCFLR = .000

RUN NO. 83/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.099	354.51964	.00609	-.01047	.00301	-.01318
.900	.039	355.48983	.00520	-.00775	.00210	-.01157
.900	2.519	355.15618	.00041	-.00888	-.00171	-.00888
.898	4.652	354.72560	-.01072	-.01720	-.00979	-.01610
.898	6.807	354.65695	-.03605	-.07155	-.08046	-.04922
.900	9.080	355.49897	-.08018	-.10679	-.11248	-.07878
.898	11.052	354.75281	-.13573	-.20828	-.15515	-.13278
.899	13.288	354.73975	-.21960	-.28732	-.26012	-.22829
.898	15.362	354.52870	-.33712	-.39511	-.39535	-.35690
.899	17.357	354.95470	-.43793	-.48934	-.50790	-.44112
.898	19.461	354.46909	-.49712	-.54214	-.55603	-.47846
.898	21.537	354.53776	-.55199	-.59371	-.60245	-.52953
GRADIENT		.01095	-.00242	-.00093	-.00185	-.00025

RUN NO. 82/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.151	385.43176	-.17579	-.17094	-.18425	-.19550
.980	.123	385.33967	-.16737	-.16527	-.18208	-.19230
.980	2.387	385.27862	-.17592	-.17623	-.19664	-.20808
.979	4.740	385.06413	-.19543	-.19727	-.21634	-.23418
.980	6.871	385.20195	-.23146	-.22975	-.25502	-.26385
.980	9.236	385.84191	-.26496	-.27107	-.28200	-.29572
.981	11.402	386.28827	-.31101	-.31929	-.32631	-.33703
.978	13.687	385.16851	-.35045	-.36676	-.36387	-.37537
.978	15.814	384.55875	-.39248	-.41516	-.43292	-.41957
.979	18.021	384.88021	-.45521	-.46442	-.47806	-.48642
.980	20.056	385.14136	-.51859	-.52890	-.52520	-.53428
.979	21.040	384.63575	-.56218	-.57234	-.57427	-.58555
GRADIENT		-.05087	-.00296	-.00394	-.00485	-.00577

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAWDAF = 45.000 ELEVTR = .000
BSFLAP = .000 RUCFLR = .000

RUN NO. 81/ 0 RNL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.158	440.62959	-.23604	-.23968	-.23785	-.23827
1.201	.153	440.75160	-.23243	-.22851	-.23371	-.24029
1.201	2.363	440.70124	-.23680	-.23339	-.24207	-.24900
1.201	4.613	440.62959	-.24332	-.24474	-.25476	-.25930
1.199	6.904	440.51701	-.25399	-.26149	-.26378	-.27302
1.198	9.263	440.30159	-.27070	-.28225	-.27101	-.28678
1.200	11.358	440.45896	-.29122	-.30625	-.29078	-.30759
1.199	12.477	440.28632	-.30142	-.32037	-.30078	-.31921
1.199	13.654	440.26492	-.30921	-.33372	-.31074	-.33095
1.199	15.967	440.33050	-.33232	-.36210	-.33001	-.35182
1.198	18.096	440.29508	-.36203	-.38183	-.35766	-.37742
	GRADIENT	-.00208	-.00116	-.00087	-.00253	-.00318

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

(RPS018) (19 MAY 75)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.6633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 80/ 0 RVL = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.030	-.00106	-.04794	.02086	-.00497	.00040	.00104	-.02285	-.04018	.02230	-1.80171
.349	.062	.00397	.06220	.02326	-.00387	.00021	.00076	-.00869	.06217	.02333	2.66519
.349	2.143	.00593	.15989	.01766	-.00165	.00063	.00064	-.01092	.15912	.02363	6.73347
.350	4.238	.00746	.26395	.01037	-.00202	.00097	.00055	-.01271	.26246	.02984	8.79519
.350	6.344	.00876	.38230	-.00152	.00128	.00127	.00058	-.01468	.38012	.04073	9.33231
.349	8.448	.00988	.50278	-.01998	.00203	.00198	.00024	-.01491	.49967	.05806	8.60616
.349	10.549	.00920	.62165	-.01324	.00144	.00197	.00089	-.01717	.61394	.09883	6.21216
.349	12.609	.01125	.69205	.00176	-.00231	-.00045	.00025	-.01709	.67497	.13279	4.41770
.349	14.641	.01178	.74430	.02886	-.00317	-.00176	.00036	-.01847	.71789	.19671	3.64946
.350	16.680	.01050	.79417	.01644	-.00511	-.00233	.00032	-.01741	.75604	.24370	3.10238
.350	18.691	.00974	.81894	.02544	-.00527	-.00196	.00066	-.01704	.76759	.26654	2.67886
.349	20.736	.01307	.83490	.03586	-.00444	.00109	.00094	-.02338	.76813	.32914	2.33376
GRADIENT		.00132	.04847	-.00177	.00082	.00011	-.00007	-.00152	.04812	.00110	1.71680

RUN NO. 79/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.097	-.00298	-.04716	.02064	-.00747	.00018	.00173	-.00900	-.04637	.02235	-2.07474
.800	.097	.00460	.06680	.02152	-.00553	.00042	.00132	-.00892	.06677	.02163	3.08661
.799	2.300	.01116	.19389	.01902	-.00404	.00087	.00101	-.01256	.19297	.02679	7.20331
.800	4.535	.01680	.33818	.01574	-.00338	.00073	.00043	-.01431	.33587	.04243	7.91646
.798	6.719	.01820	.45855	.01675	-.00506	-.00045	.00018	-.01441	.45344	.07029	6.45130
.799	8.858	.01781	.54968	.02272	-.00666	.00020	.00072	-.01642	.53983	.10710	5.03869
.799	10.991	.01756	.61971	.02941	-.00663	.00028	.00066	-.01609	.60273	.14702	4.09957
.799	13.067	.01769	.67434	.03677	-.00686	-.00047	.00048	-.01553	.64856	.18828	3.44460
.799	15.142	.01867	.71498	.04865	-.00526	-.00187	-.00052	-.01225	.67745	.23372	2.89855
.799	17.188	.01588	.73285	.05808	-.00212	-.00282	-.00102	-.00812	.68296	.27205	2.51039
.799	19.236	.02913	.76565	.06454	-.00126	.00043	-.00164	-.01612	.70164	.31319	2.24030
.799	21.334	.04009	.81087	.06849	-.00049	.00248	-.00354	-.01729	.73039	.35879	2.03572
GRADIENT		.00298	.05807	-.00078	.00059	.00009	-.00019	-.00143	.05761	.00297	1.54061

(RP5018) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.1100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0108 SCALE

BETA = .000 WINGNO = 3.000
 LANDAF = 55.000 ELEVTR = .000
 BDPLAF = .000 RUCFLR = .000

RUN NO. 78/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.899	-2.163	-.00487	-.06982	.02876	-.00871	-.00007	.00182	-.00440	-.06869	.03138	-2.18895
.900	.076	-.00620	.05666	.02822	-.00763	.00061	.00077	-.00723	.05662	.02829	2.00112
.900	2.340	.01393	.20074	.02907	-.00787	.00121	.00030	-.01036	.19938	.03724	5.35353
.900	4.872	.01738	.34649	.02892	-.00866	-.00072	.00037	-.01293	.34305	.05663	6.05803
.899	6.796	.01927	.45095	.03293	-.00833	-.00118	.00052	-.01483	.44388	.08607	5.15731
.899	8.964	.01868	.55474	.04019	-.01201	.00002	-.00047	-.01040	.54170	.12613	4.29475
.899	11.121	.02276	.65735	.04715	-.01540	.00155	-.00045	-.01326	.63591	.17306	3.67449
.899	13.257	.02225	.72952	.05517	-.01655	.00028	.00023	-.01594	.69756	.22102	3.15610
.899	15.365	.02119	.78565	.06634	-.01729	-.00242	-.00103	-.01905	.77346	.27215	2.71914
.899	17.456	.02434	.83412	.07414	-.01523	-.00292	-.00209	-.00796	.82094	.32094	2.40897
.899	19.536	.03274	.86613	.07750	-.01341	.00055	-.00191	-.01688	.82258	.36268	2.17920
.899	21.636	.04105	.81637	.07928	-.01223	.00186	-.00240	-.01884	.41156	.41156	1.99867
.899	GRADIENT	.00330	.06175	.00006	-.00000	-.00006	-.00021	-.00127	.06109	.00376	1.24463

RUN NO. 77/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.979	-2.180	-.00741	-.11484	.07435	.00417	-.00008	.00239	-.00422	-.11192	.07887	-1.41912
.979	.077	.00152	.03763	.07681	-.00125	.00007	.00163	-.00769	.03758	.07686	.48894
.980	2.357	.01017	.19698	.07775	-.00825	.00095	.00149	-.01231	.19362	.08578	2.25714
.981	4.856	.01519	.37449	.07783	-.01788	.00147	.00125	-.01438	.36694	.10797	3.39866
.979	6.908	.01746	.54033	.08004	-.02773	.00148	.00138	-.01633	.52678	.14445	3.64675
.980	9.154	.02208	.69244	.08023	-.03615	.00223	.00101	-.01765	.67086	.18936	3.53270
.981	11.399	.02867	.84812	.08241	-.04806	.00289	.00044	-.01940	.81510	.24840	3.28138
.979	13.612	.03279	.99101	.08308	-.05475	.00232	.00073	-.02333	.94362	.31398	3.00534
.979	15.836	.03563	1.11224	.08451	-.05889	.00138	.00120	-.02730	1.04697	.38482	2.72070
.981	18.014	.03436	1.19921	.08781	-.05960	-.00055	.00185	-.02942	1.11332	.45424	2.45095
.981	20.119	.03243	1.24359	.09207	-.05765	-.00174	.00049	-.02280	1.13604	.51422	2.20925
.981	GRADIENT	.00335	.07142	.00047	-.00321	.00074	-.00012	-.00154	.06990	.00423	.71153

(RP3018) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BLSVFB)

PARAMETRIC DATA

SREF = 173.1312 50. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LANCAP = 55.000 ELEVTR = .000
 BDFLAP = .000 RUCFLR = .000

RUN NO. 76/ D RVAL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.154	-.00569	-.08527	.07959	.00264	.00082	.00173	-.00422	-.08222	.08274	-.99370
1.199	.081	.00463	.04734	.08180	-.00478	.00098	.00145	-.00849	.04722	.08187	-.57681
1.199	2.565	.01122	.19805	.08290	-.01360	.00138	.00132	-.01139	.19446	.09100	2.13693
1.199	4.634	.01589	.34977	.08326	-.02224	.00136	.00120	-.01339	.34190	.11124	3.07350
1.199	6.912	.01880	.49442	.08359	-.03012	.00170	.00111	-.01461	.48077	.14248	3.37421
1.199	9.160	.02161	.63219	.08344	-.03728	.00161	.00124	-.01670	.61084	.18302	3.53754
1.199	11.430	.02485	.77001	.08391	-.04425	.00209	.00141	-.01921	.73811	.23483	3.14318
1.199	13.665	.02975	.89585	.08368	-.04960	.00235	.00141	-.02198	.85072	.29296	2.90393
1.199	15.916	.03360	1.01674	.08347	-.05396	.00204	.00146	-.02448	.95487	.35908	2.65918
1.199	18.132	.03728	1.12193	.08376	-.05579	.00177	.00150	-.02689	1.04016	.42875	2.42599
1.199	GRADIENT	.00315	.06429	.00053	-.00369	.00009	-.00008	-.00134	.06269	.00419	1.60749

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BWSVFB)

(RFSF18) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

MACH = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUPFLR = .000

RUN NO. 80/ 0 R/V/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.030	166.07070	-.02432	-.05969	-.08259	-.05627
.349	.062	166.35268	-.02766	-.05672	-.08102	-.03430
.349	2.143	166.44580	-.03150	-.05765	-.06943	-.09428
.350	4.238	166.72656	-.03242	-.05995	-.07220	-.03614
.350	6.344	166.82038	-.03144	-.06421	-.08512	-.09565
.349	8.448	166.16501	-.03300	-.07404	-.09411	-.08818
.349	10.549	166.35268	-.04261	-.09168	-.10605	-.04967
.349	12.609	166.44651	-.06475	-.12678	-.13101	-.07893
.349	14.641	166.35268	-.09563	-.16781	-.16477	-.11836
.350	16.680	166.63369	-.14071	-.23494	-.23226	-.17379
.350	18.691	166.63369	-.20376	-.31285	-.32645	-.24332
.349	20.736	166.35291	-.28363	-.38712	-.41075	-.27495
GRADIENT		.09869	-.00135	-.02208	-.02205	-.02202

RUN NO. 79/ 0 R/V/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.097	311.28899	-.01800	-.02582	-.02309	-.02281
.800	.097	311.49018	-.02109	-.02633	-.02309	-.02332
.799	2.300	310.86756	-.02238	-.02712	-.02362	-.02462
.800	4.535	311.36235	-.02315	-.02787	-.02361	-.02512
.798	6.719	310.60518	-.03271	-.03687	-.03445	-.03542
.799	8.858	311.09398	-.04558	-.05271	-.05012	-.04747
.799	10.991	311.02686	-.06982	-.11418	-.12685	-.07856
.799	13.067	310.86130	-.12635	-.18547	-.20059	-.13798
.799	15.142	310.95972	-.23513	-.30120	-.32902	-.25228
.799	17.188	311.07518	-.35209	-.40808	-.43961	-.36600
.799	19.236	311.29527	-.41393	-.46236	-.49384	-.39655
.799	21.334	311.31409	-.46671	-.51426	-.53486	-.43862
GRADIENT		-.01800	-.00076	-.00031	-.00029	-.00037

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB) (RP5P18) (19 MAY 73)

REFERENCE DATA

SREF = 173.1512 50. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 55.000 ELEVTR = .000
 BCFLAP = .000 RUDFLR = .000

RUN NO. 78/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.163	354.86790	.00694	-.01180	.00188	-.01362
.900	.076	355.61322	.00213	-.01089	-.00149	-.01405
.900	2.340	355.12408	.00323	-.00955	.00053	-.00889
.900	4.672	355.13320	-.00846	-.01383	-.00888	-.01384
.899	6.796	355.03241	-.02969	-.04680	-.04587	-.03612
.899	8.964	354.94561	-.07714	-.09932	-.09687	-.07688
.899	11.122	355.15142	-.13535	-.20737	-.15205	-.13196
.899	13.257	355.09192	-.21148	-.26910	-.24476	-.21344
.899	15.365	355.02331	-.33778	-.39030	-.40405	-.33862
.899	17.456	354.89318	-.45698	-.50334	-.51995	-.44997
.899	19.536	354.83564	-.52622	-.56785	-.59654	-.51580
.899	21.636	354.95470	-.55925	-.59639	-.61958	-.53567
GRADIENT		.01334	-.00200	-.00048	-.00134	.00020

RUN NO. 77/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.979	-2.180	384.82036	-.17805	-.17400	-.18756	-.19737
.979	.077	384.68307	-.17038	-.16742	-.18469	-.19451
.980	2.357	385.35437	-.17706	-.17820	-.19758	-.20880
.981	4.656	385.64319	-.19879	-.19958	-.22093	-.23313
.979	6.978	385.04840	-.22349	-.22411	-.24687	-.25634
.980	9.154	384.92789	-.26270	-.26847	-.27958	-.29251
.981	11.399	385.55699	-.31383	-.32872	-.32293	-.33740
.979	13.612	385.01242	-.34617	-.36231	-.35752	-.36675
.979	15.836	385.04840	-.39822	-.42126	-.41470	-.41592
.981	18.008	385.69416	-.45817	-.47580	-.47266	-.47832
.981	20.119	385.57228	-.53814	-.54513	-.55460	-.56071
GRADIENT		.13823	-.00304	-.00385	-.00497	-.00535

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMCAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 76/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.199	-2.154	440.17787	-23431	-23905	-23541	-23673
1.199	.081	440.14884	-23144	-22770	-23473	-23877
1.199	2.365	440.04801	-23564	-23169	-23965	-24714
1.199	4.634	440.07703	-23960	-24106	-24923	-25472
1.199	6.912	440.09843	-25058	-26010	-26093	-26837
1.199	9.160	440.09843	-26479	-28110	-27135	-28344
1.199	11.430	439.94589	-28701	-30897	-28695	-30378
1.199	13.665	440.07703	-30666	-33916	-30766	-32680
1.199	15.916	439.98996	-32923	-35616	-32292	-34621
1.199	18.132	440.07703	-36843	-38169	-35660	-37928
1.199	GRADIENT	-.01781	-.00089	-.00045	-.00235	-.00276

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

PARAMETRIC DATA

BETA = .000
 LAMDAF = 65.000
 BDFLAP = .000

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0180 SCALE

RUN NO. 75/0 RVL = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.348	-2.042	.00037	-.04375	.02064	-.00508	.00026	.00116	-.00533	-.04298	.02238	-1.92030
.349	.051	.00419	.05917	.02326	-.00341	.00031	.00069	-.00871	.05915	.02331	2.33765
.349	2.143	.00569	.15803	.01907	-.00103	.00069	.00062	-.01053	.15720	.02497	6.29686
.349	4.245	.00832	.26843	.01126	.00116	.00095	.00041	-.01330	.26686	.03110	8.58113
.349	6.348	.00865	.38257	.00048	.00270	.00116	.00044	-.01394	.38018	.04278	8.88702
.350	8.467	.01036	.50474	-.01341	.00404	.00180	.00020	-.01540	.50121	.06106	8.20863
.350	10.567	.00753	.62306	-.00876	.00308	.00314	.00204	-.01914	.61410	.10564	5.81306
.349	12.628	.01229	.70281	-.00156	.00406	-.00100	-.00035	-.01608	.68615	.15212	4.51055
.349	14.687	.01551	.75327	.00629	.00624	.00921	.00267	-.02511	.72706	.19707	3.68937
.350	16.762	.02005	.83979	.00726	.00601	.01073	.00030	-.03037	.80201	.24914	3.21927
.349	18.807	.02220	.89033	.01235	.00687	.00763	-.00146	-.02656	.83881	.29871	2.80807
.349	20.809	.02796	.91261	.02080	.00789	.01028	-.00252	-.03114	.84569	.34365	2.46388
GRADIENT		.00121	.04942	-.00157	.00101	.00012	-.00011	-.00123	.04904	.00133	1.68274

RUN NO. 74/0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.098	-.00142	-.04700	.02058	-.00757	.00036	.00161	-.00563	-.04621	.02228	-2.07376
.800	.103	.00700	.06441	.02158	-.00529	.00050	.00128	-.01055	.06437	.02170	2.96666
.800	2.314	.01215	.19372	.01960	-.00336	.00091	.00101	-.01325	.19277	.02740	7.03506
.799	4.557	.01723	.34134	.01603	-.00238	.00083	.00040	-.01452	.33899	.04309	7.86634
.800	6.778	.01870	.46883	.01784	-.00330	-.00029	.00016	-.01465	.46344	.07305	6.34414
.800	8.901	.01765	.56573	.02249	-.00394	-.00024	.00052	-.01544	.55544	.10976	5.06070
.798	11.032	.02058	.65414	.02469	-.00194	.00286	.00107	-.02007	.63728	.14963	4.25903
.800	13.185	.02219	.71084	.03159	.00067	.00313	.00098	-.02109	.68489	.19290	3.55045
.800	15.290	.02444	.77649	.04010	.00157	.00315	.00123	-.02397	.73843	.24345	3.03316
.800	17.334	.02569	.80966	.05007	.00315	.00053	-.00005	-.01979	.75787	.28929	2.61977
.800	19.424	.02899	.84821	.05980	.00654	.00102	.00000	-.02284	.78005	.33847	2.30464
.800	21.478	.02984	.86515	.06334	.00960	.00011	-.00212	-.01501	.78189	.37570	2.08113
GRADIENT		.00275	.05839	-.00071	.00079	.00008	-.00018	-.00132	.05792	.00308	1.52644

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA F = .000 WINGNO = 3.000
LWDAF = 65.000 ELEVTR = .000
BDFLAP = .000 RUSFLR = .000

PARAMETRIC DATA

RUN NO. 73/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.156	-.00312	-.06321	.02753	-.00956	.00036	.00148	-.00413	-.06213	.02989	-2.07866
.900	.065	.00708	.05610	.02770	-.00762	.00064	.00070	-.00752	.05607	.02776	2.01943
.902	2.346	.01421	.20375	.02790	-.00786	.00107	.00034	-.01068	.20244	.03622	5.58983
.899	4.616	.01807	.35497	.02742	-.00885	-.00005	.00032	-.01317	.35161	.05590	6.28983
.900	6.822	.01930	.46254	.03175	-.00782	-.00055	.00009	-.01304	.45549	.08647	5.26784
.900	8.976	.01843	.55842	.03789	-.00955	-.00050	-.00028	-.01101	.54567	.12455	4.38104
.900	11.190	.02348	.68794	.04396	-.01357	-.00010	.00081	-.01900	.66633	.17653	3.77251
.900	13.356	.02922	.77340	.05187	-.01382	-.00107	-.00045	-.01368	.74050	.22913	3.23177
.900	15.503	.03134	.85834	.06174	-.01384	-.00224	.00082	-.01783	.81061	.28891	2.80575
.901	17.620	.03139	.90150	.06831	-.00815	-.00085	-.00197	-.01321	.83853	.33799	2.48094
.899	19.719	.03117	.92804	.07337	-.00371	-.00102	-.00116	-.01680	.84886	.38220	2.22099
.901	21.812	.03222	.98319	.07626	-.00267	-.00139	-.00276	-.01111	.86438	.43608	2.02800
GRADIENT		.00313	.06207	-.00001	.00008	-.00004	-.00017	-.00134	.06142	.00384	1.26767

RUN NO. 72/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.170	-.00669	-.11321	.07383	.00379	-.00007	.00199	-.00424	-.11033	.07807	-1.01331
.981	.100	.00378	.03951	.07644	-.00101	.00007	.00148	-.00843	.03637	.07650	.50156
.980	2.361	.01052	.19708	.07715	-.00758	.00072	.00137	-.01205	.19374	.08521	2.27367
.980	4.651	.01497	.37335	.07863	-.01665	.00157	.00125	-.01422	.36574	.10865	3.36621
.980	6.911	.01795	.54093	.08020	-.02398	.00118	.00109	-.01542	.52735	.14471	3.64415
.980	9.156	.02206	.69446	.08098	-.03348	.00173	.00070	-.01639	.67269	.19057	3.52986
.981	11.406	.02797	.84068	.08121	-.04116	.00212	.00011	-.01761	.80802	.24586	3.28648
.981	13.641	.03187	.98907	.08616	-.05034	.00193	.00029	-.02190	.94086	.31699	2.96808
.981	15.877	.03190	1.11512	.08651	-.05416	.00286	.00187	-.02770	1.04892	.36828	2.70147
.981	18.072	.03406	1.22674	.09028	-.05675	-.00354	.00156	-.02802	1.13821	.46639	2.44048
.981	20.229	.03579	1.29768	.09115	-.05322	-.00190	.00133	-.02843	1.18612	.53422	2.22027
GRADIENT		.00316	.07122	.00066	-.00299	.00025	-.00010	-.00148	.06969	.00443	.70877

LARC 8-FT TPT 644 LO-100 ORBITER (SHIFS) (BWSVFB)

(RP5019) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 58. IN. XMRP = 16.8633 INCHES
 LRFP = 2".5100 INCHES YMRP = .0000 INCHES
 BRFP = 23.9058 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMPDF = 65.000 ELEVTR = .000
 BDPLAF = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 71/ 0 RVAL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MAI	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.154	-.00490	-.08600	.07886	.00288	.00048	.00165	-.00428	-.08297	.08204	-1.01140
1.200	.089	.00511	.04823	.08061	-.00395	.00093	.00142	-.00862	.04811	.08068	.59625
1.200	2.375	.01201	.20184	.08204	-.01231	.00150	.00126	-.01159	.19827	.09034	2.19483
1.200	4.654	.01569	.33351	.08236	-.02079	.00183	.00109	-.01284	.34566	.11077	3.12057
1.200	6.947	.01875	.50363	.08233	-.02842	.00166	.00096	-.01394	.48995	.14284	3.42996
1.200	9.211	.02152	.64621	.08301	-.03502	.00172	.00095	-.01541	.62459	.18538	3.56926
1.200	11.479	.02474	.78475	.08343	-.04123	.00131	.00129	-.01864	.75245	.23793	3.16232
1.200	13.762	.02929	.91732	.08406	-.04638	.00123	.00140	-.02171	.87099	.29986	2.90462
1.201	15.990	.03272	1.03058	.08370	-.04891	.00137	.00147	-.02401	.96765	.36436	2.65375
1.200	18.191	.03517	1.13875	.08484	-.05086	.00174	.00178	-.02687	1.05535	.43610	2.41995
	GRADIENT	.00302	.06483	.00052	-.00350	.00020	-.00008	-.00126	.06324	.00423	.61604

TABULATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMDAF = 65.000 ELEVTR = .000
BDFLAP = .000 RUDFLR = .000

RUN NO. 75/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.042	165.50830	-.02391	-.06084	-.08090	-.03542
.349	.051	166.16524	-.02914	-.05822	-.07963	-.03365
.349	2.143	166.44604	-.03150	-.05908	-.07133	-.03524
.349	4.245	166.53987	-.03197	-.06096	-.07177	-.03618
.349	6.348	166.53963	-.03149	-.06527	-.08091	-.03378
.350	8.467	166.72704	-.03194	-.07284	-.09042	-.03519
.350	10.567	166.72704	-.04252	-.07431	-.10291	-.05100
.349	12.628	166.53963	-.06134	-.12122	-.12081	-.07745
.349	14.687	166.53987	-.10083	-.17958	-.17803	-.08800
.350	16.762	166.63369	-.13398	-.22822	-.22599	-.12296
.349	18.807	166.44604	-.17797	-.27728	-.31717	-.18887
.349	20.879	166.44627	-.26276	-.36389	-.39463	-.23927
	GRADIENT	.16105	-.00127	-.00006	.00170	-.00018

RUN NO. 74/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.098	311.96158	-.01593	-.02426	-.02075	-.02048
.800	.105	311.86308	-.02082	-.02631	-.02153	-.02331
.800	2.314	311.44197	-.02186	-.02684	-.02128	-.02358
.799	4.557	311.30782	-.02263	-.02837	-.02308	-.02312
.800	6.778	311.72903	-.02982	-.03449	-.03103	-.03254
.800	8.901	311.74790	-.04500	-.05032	-.04747	-.04791
.798	11.052	310.83167	-.05901	-.05901	-.10011	-.06394
.798	13.185	310.42713	-.11514	-.16722	-.19336	-.11421
.800	15.290	311.56980	-.19584	-.25639	-.29448	-.18592
.800	17.354	311.69756	-.31078	-.37357	-.41666	-.30788
.800	19.424	311.64312	-.41581	-.47458	-.52593	-.40075
.800	21.478	311.56980	-.47948	-.53604	-.58850	-.45598
	GRADIENT	-.10742	-.00095	-.00058	-.00030	-.00064

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB) (RP5P19) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 ZREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 73/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.156	354.43285	.00436	-.01069	.00188	-.01296
.900	.065	355.38927	.00281	-.01022	-.00014	-.01158
.900	2.346	355.56752	-.00198	-.01246	-.00551	-.01203
.899	4.616	354.76701	-.01004	-.01652	-.01226	-.01430
.900	6.822	355.51725	-.02897	-.04158	-.03747	-.03113
.900	8.976	354.96868	-.07329	-.10200	-.08602	-.08025
.900	11.190	355.39840	-.11879	-.21101	-.12873	-.11478
.900	13.356	355.57666	-.19563	-.25616	-.24960	-.19158
.900	15.503	355.67264	-.29929	-.35372	-.36909	-.28859
.901	17.620	356.04720	-.41542	-.47191	-.47981	-.40992
.899	19.719	354.56615	-.51530	-.57203	-.59382	-.49478
.901	21.812	355.63605	-.56450	-.61757	-.64653	-.53420
GRADIENT		.05144	-.00213	-.00088	-.00212	-.00020

RUN NO. 72/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.170	384.89711	-.17600	-.17278	-.18447	-.19512
.981	.100	385.61453	-.17173	-.16958	-.18580	-.19601
.980	2.361	385.27862	-.17592	-.17662	-.19685	-.20829
.980	4.651	385.43104	-.19978	-.19990	-.22358	-.23081
.980	6.911	385.01873	-.22694	-.22564	-.25051	-.25604
.980	9.166	384.97379	-.25645	-.26633	-.27291	-.28731
.981	11.406	385.26385	-.30173	-.31626	-.31396	-.32536
.981	13.641	385.55350	-.36767	-.36604	-.39371	-.38193
.981	15.877	385.61453	-.40901	-.41846	-.44330	-.42644
.981	18.072	385.72139	-.45531	-.46567	-.48931	-.45972
.981	20.229	385.84653	-.50538	-.50559	-.50734	-.51355
GRADIENT		.05571	-.00333	-.00384	-.00565	-.00526

(REF5F19) (19 MAY 73)
 LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (9%,OVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9796 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 65.000 ELEVTR = .000
 EDPLAP = .000 RUDFLR = .000

RUN NO. 71/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.154	440.58113	-.23427	-.23934	-.23627	-.23705
1.200	.089	440.53073	-.23082	-.22633	-.23446	-.23869
1.200	2.375	440.63153	-.23590	-.23373	-.24117	-.24757
1.200	4.654	440.37951	-.24248	-.24515	-.25247	-.25776
1.200	6.947	440.53073	-.25157	-.26249	-.26300	-.27062
1.200	9.211	440.63153	-.26721	-.28561	-.26716	-.28148
1.200	11.479	440.55793	-.28969	-.31265	-.28980	-.30570
1.200	13.762	440.73232	-.31195	-.34667	-.31311	-.33259
1.201	15.990	440.75942	-.33386	-.37024	-.32845	-.35079
1.200	18.191	440.66058	-.37471	-.40105	-.36615	-.38515
	GRADIENT	-.02222	-.00131	-.00110	-.00244	-.00313

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 70.000 ELEVTR = .000
 BSFLAP = .000 RUOFLR = .000

RUN NO. 70/ 0 RNL = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.351	-2.048	-.00053	-.04832	.02109	-.00553	-.00004	.00119	-.00421	-.04753	.02280	-2.08435
.350	.059	.00375	.05589	.02350	-.00318	.00034	.00067	-.00799	.05587	.02355	2.37209
.350	2.154	.00721	.15640	.01884	-.00042	.00066	.00037	-.01159	.15558	.02470	6.29830
.350	4.278	.00846	.26704	.01173	.00212	.00100	.00038	-.01332	.26542	.03161	8.39539
.351	6.361	.00965	.39066	.00016	.00416	.00120	.00030	-.01470	.38823	.04344	8.93688
.350	8.488	.01080	.50945	-.01172	.00555	.00211	.00038	-.01546	.50560	.06360	7.94930
.351	10.580	.00928	.62589	-.01106	.00575	.00251	.00150	-.01932	.61728	.10404	5.93303
.350	12.653	.01319	.71357	.00120	.00581	-.00014	-.00004	-.01862	.69598	.15748	4.41958
.350	14.763	.01467	.81562	-.00164	.00957	-.00136	-.00058	-.01863	.78912	.20625	3.82870
.350	16.791	.01441	.84796	.00610	.01266	-.00312	-.00063	-.01822	.81005	.25080	3.22979
.350	18.851	.01412	.89390	.01375	.01243	-.00093	.00023	-.02163	.84151	.30184	2.78793
.350	20.876	.01596	.94469	.01768	.01211	-.00054	.00040	-.02534	.87638	.35316	2.48152
GRADIENT		.00144	.04967	-.00156	.00122	.00016	-.00013	-.00147	.04929	.00131	1.67765

RUN NO. 69/ 0 RNL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.093	-.00283	-.04979	.02088	-.00781	.00030	.00165	-.00477	-.04900	.02269	-2.15946
.799	.096	.00597	.06426	.02179	-.00497	.00060	.00131	-.00993	.06423	.02190	2.93324
.800	2.334	.01151	.19122	.01928	-.00252	.00088	.00092	-.01240	.19028	.02705	7.03369
.799	4.556	.01739	.33726	.01585	-.00110	.00096	.00043	-.01479	.33493	.04259	7.86338
.799	6.749	.01931	.46053	.01735	-.00209	-.00048	.00038	-.01483	.45530	.07135	6.38079
.799	8.945	.01919	.57285	.02267	-.00301	.00043	.00044	-.01630	.56236	.11147	5.04502
.799	11.103	.02039	.66428	.02584	-.00084	.00054	.00032	-.01685	.64687	.15327	4.22035
.799	13.229	.02199	.74710	.03125	-.00143	-.00053	-.00026	-.01661	.72012	.20138	3.57591
.799	15.352	.02564	.82149	.04033	.00229	-.00014	-.00019	-.01904	.78053	.25611	3.04762
.798	17.505	.02904	.88361	.04657	.00644	-.00151	-.00162	-.01599	.82869	.31019	2.67154
.798	19.597	.02956	.92853	.05206	.00993	-.00189	-.00263	-.01246	.85729	.36047	2.37822
.798	21.622	.02703	.95242	.05884	.01308	-.00295	-.00296	-.00939	.86372	.40565	2.12823
GRADIENT		.00298	.05807	-.00003	.00102	.00010	-.00018	-.00147	.05761	.00293	1.53902

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT 7FT 644 LO-100 ORBITER (SHIPS) (BWA2VF)

(RF5020) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAWCAF = 70.000 ELEVTR = .000
EDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 68/0 RNL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.151	-.00320	-.06331	.02714	-.01036	.00048	.00161	-.00462	-.06225	.02950	-2.11008
.899	.086	.00634	.05405	.02892	-.00689	.00056	.00080	-.00746	.05401	.02900	1.86256
.899	2.360	.01382	.20126	.02872	-.00633	.00106	.00036	-.01054	.19991	.03699	5.40454
.899	4.634	.01821	.35365	.02797	-.00707	-.00073	.00029	-.01317	.35023	.05646	6.20363
.899	6.831	.01957	.46875	.03093	-.00780	-.00093	-.00036	-.01163	.46174	.08646	5.34829
.899	9.004	.01943	.56644	.04005	-.00896	-.00099	-.00014	-.01228	.55319	.12821	4.31477
.899	11.239	.02652	.69460	.04536	-.01197	.00405	.00040	-.01935	.67244	.17987	3.75843
.898	13.421	.02626	.81057	.04781	-.01359	.00083	.00129	-.02302	.77734	.23465	3.31281
.898	15.575	.02791	.88255	.05819	-.01173	-.00095	-.00050	-.01689	.83452	.29301	2.84811
.898	17.740	.03123	.96122	.06634	-.00828	-.00004	.00070	-.02438	.89530	.35607	2.51436
.897	19.885	.03724	.99346	.07040	-.00233	-.00321	-.00459	-.00681	.91050	.40363	2.25579
.897	21.917	.03218	1.02715	.07246	.00251	-.00020	-.00376	-.00703	.92587	.45061	2.05470
GRADIENT		.00317	.06160	.00010	.00046	-.00014	-.00019	-.00127	.06114	.00393	1.25770

RUN NO. 67/0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.177	-.00650	-.11485	.07190	.00324	-.00014	.00212	-.00492	-.11204	.07622	-1.47004
.980	.088	.00360	.03710	.07645	-.00087	.00020	.00155	-.00864	.03698	.07650	.48343
.979	2.388	.01086	.19783	.07712	-.00685	.00072	.00154	-.01297	.19444	.08529	2.27964
.980	4.662	.01586	.37617	.07859	-.01583	.00140	.00141	-.01545	.36854	.10730	3.38418
.979	6.952	.01852	.54241	.07995	-.02471	.00138	.00148	-.01740	.52875	.14501	3.64622
.980	9.214	.02260	.70134	.08258	-.03294	.00199	.00168	-.01660	.67907	.19362	3.50357
.980	11.449	.02806	.84758	.08278	-.04003	.00206	.00029	-.01841	.81428	.24037	3.26533
.979	13.684	.03307	.99949	.08548	-.04818	.00250	.00049	-.02253	.95090	.31950	2.97624
.979	15.912	.03428	1.12489	.08539	-.05119	.00126	.00189	-.02936	1.06837	.39052	2.71017
.980	18.152	.03770	1.24275	.08867	-.05379	-.00384	.00138	-.02960	1.15328	.47142	2.44641
.979	19.929	.03963	1.31701	.09142	-.05335	-.00101	.00093	-.02928	1.20698	.53486	2.25663
GRADIENT		.00326	.07160	.00091	-.00277	.00023	-.00079	-.00157	.07009	.00468	.71694

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 25.3100 INCHES YMRP = .0000 INCHES LAMDAF = 70.000 ZLEVTR = .000
 BREF = 20.9996 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUDFLR = .000
 SCALE = .0:00 SCALE

RUN NO. 66/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.148	-.00553	-.08822	.07823	.00302	.00083	.00180	-.00460	-.08523	.06148	-1.04602
1.200	.097	.00513	.04671	.08032	-.00378	.00092	.00151	-.00900	.04657	.08540	.57927
1.200	2.388	.01229	.19684	.08079	-.01159	.00144	.00127	-.01178	.19330	.08892	2.17394
1.200	4.668	.01637	.35134	.08090	-.01954	.00161	.00115	-.01342	.34359	.10923	3.14566
1.199	6.967	.01988	.50279	.08136	-.02673	.00164	.00094	-.01448	.48920	.14175	3.45122
1.198	9.251	.02337	.64837	.08183	-.03224	.00183	.00084	-.01597	.62678	.18501	3.36788
1.201	11.541	.02673	.79150	.08263	-.03900	.00158	.00122	-.01905	.75897	.23931	3.17150
1.199	13.781	.03074	.92491	.08567	-.04452	.00119	.00116	-.02150	.87788	.30353	2.89225
1.199	16.033	.03513	1.04470	.08526	-.04699	.00101	.00124	-.02440	.97985	.37028	2.64620
1.200	18.266	.03803	1.15298	.08643	-.04896	.00171	.00166	-.02799	1.06779	.44346	2.40786
GRADIENT		.00320	.06460	.00037	-.00332	.00013	-.00010	-.00128	.06303	.00404	.67798

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

LARC 8-FT. TPT 644 LO-100 ORBITER (SHIPS) (BMS(VFB))

(RPSF2D) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 23.3170 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGAO = 3.000
 LANCAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 70/ 0 RV/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.351	-2.048	167.66339	-.02269	-.05963	-.07730	-.03406
.350	.059	167.38274	-.02702	-.05782	-.07886	-.03459
.350	2.154	166.63416	-.03195	-.05758	-.07055	-.03473
.350	4.278	167.38298	-.03183	-.06067	-.07360	-.03411
.351	6.361	167.57032	-.02844	-.06584	-.08547	-.03217
.350	8.488	167.38274	-.03183	-.07542	-.09273	-.03697
.351	10.580	167.57032	-.04137	-.09150	-.10554	-.04743
.350	12.653	166.72798	-.05935	-.11870	-.12046	-.07113
.350	14.763	166.91538	-.08091	-.14958	-.13712	-.10409
.350	16.791	167.19595	-.12970	-.20650	-.19197	-.15936
.350	18.851	167.47653	-.18647	-.26893	-.27055	-.21776
.350	20.876	167.10252	-.24063	-.33959	-.36651	-.25508
	GRADIENT	-.07506	-.0153	-.07314	-.07092	-.07001

RUN NO. 69/ 0 RV/L = 1.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.093	311.34350	-.01646	-.02454	-.02039	-.02128
.799	.096	310.54737	-.02058	-.02635	-.02117	-.02360
.800	2.334	311.03128	-.02394	-.02891	-.02350	-.02566
.799	4.556	310.80042	-.02316	-.02640	-.02323	-.02539
.799	6.749	310.83070	-.03039	-.03532	-.03148	-.03363
.799	8.945	310.90964	-.04406	-.04992	-.04616	-.04776
.799	11.103	310.56147	-.05880	-.07073	-.07033	-.06812
.799	13.229	310.63487	-.11249	-.17045	-.17507	-.12907
.799	15.352	310.80042	-.18700	-.26442	-.27109	-.19771
.798	17.505	310.43961	-.27141	-.34064	-.37405	-.28332
.798	19.597	310.58021	-.35960	-.43743	-.46954	-.38637
.798	21.622	310.51304	-.44619	-.51344	-.56093	-.45979
	GRADIENT	-.05575	-.00106	-.00064	-.00049	-.00065

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMOVFB) (RPSP2D) (19 MAY 73)

REFERENCE DATA

SPEF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LPEF = 25.5100 INCHES YMRP = .0000 INCHES
 GREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUOFFL = .000

RUN NO. 68/ 0 RVL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.151	353.92498	.00677	-.00710	.00493	-.00958
.899	.086	354.90919	.00630	-.00686	.00378	-.00979
.899	2.360	355.05549	.00546	-.00866	.00199	-.00686
.899	4.634	354.30071	-.00779	-.01361	-.00855	-.01138
.899	6.831	354.49752	-.02679	-.03248	-.02978	-.02828
.899	9.004	354.75378	-.07808	-.03555	-.08664	-.08300
.898	11.239	354.44191	-.11299	-.19293	-.12739	-.11463
.898	13.421	354.39657	-.16143	-.22486	-.21597	-.16380
.898	15.575	354.28646	-.28484	-.33306	-.35233	-.28925
.898	17.740	354.21779	-.39061	-.44195	-.45436	-.38924
.897	19.855	353.91956	-.47750	-.53976	-.55836	-.46949
.897	21.917	353.90150	-.54300	-.60663	-.63510	-.52845
	GRADIENT	.05565	-.00206	-.00094	-.00187	-.00011

RUN NO. 67/ 0 RVL = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.177	385.15730	-.16879	-.16459	-.17696	-.18937
.980	.088	385.15694	-.17580	-.17382	-.18874	-.19864
.980	2.388	385.03484	-.18124	-.18108	-.20083	-.21133
.980	4.662	385.14178	-.20435	-.20259	-.22806	-.23435
.979	6.952	384.57600	-.22334	-.22104	-.24727	-.25041
.980	9.214	385.26301	-.26703	-.27146	-.28026	-.29224
.980	11.449	385.20678	-.31576	-.31674	-.31892	-.32874
.979	13.684	384.94195	-.36836	-.36413	-.38914	-.37953
.979	15.912	384.77440	-.40479	-.40932	-.43552	-.42414
.980	18.152	385.18726	-.45015	-.45416	-.48494	-.45791
.979	19.929	384.60623	-.49643	-.49972	-.52892	-.51111
	GRADIENT	-.00742	-.00491	-.00551	-.00725	-.00647

TABLATED SOURCE DATA-LARC 644

DATE 07 JUN 73

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BUAVFD)

(RP5F2D) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5107 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 66/ 0 R/V/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CPC2
1.200	-2.148	440.23429	-.23198	-.23924	-.23481	-.23640
1.200	.097	440.27695	-.23152	-.22648	-.23471	-.23939
1.200	2.388	439.87381	-.23502	-.23376	-.24021	-.24634
1.200	4.668	439.88148	-.24149	-.24616	-.25104	-.25715
1.199	6.967	440.06320	-.25132	-.26388	-.26176	-.27056
1.198	9.251	440.02784	-.27009	-.28742	-.27105	-.28564
1.201	11.541	440.41249	-.29141	-.31327	-.29288	-.30868
1.199	13.781	440.10605	-.31244	-.34576	-.31297	-.33147
1.199	16.033	440.07076	-.33341	-.37020	-.32627	-.34873
1.200	18.266	440.24199	-.36959	-.40052	-.36404	-.38825
	GRADIENT	-.06338	-.00141	-.00124	-.00239	-.00305

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (B03VFB) (RP5021) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XREF = 16.8633 INCHES
 LREF = 29.9100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 75.000 ELEVTR = .000
 EDPLAP = .000 RUFLR = .000

RUN NO. 65/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.348	-2.027	-.00090	-.04746	.02089	-.00579	-.00015	.00130	-.00345	-.04669	.02256	-2.06967
.349	.086	.00265	.06275	.02339	-.00262	.00027	.00096	-.00772	.06871	.02348	2.67041
.348	2.168	.00580	.15892	.01840	.00067	.00050	.00058	-.01058	.15811	.02440	6.47946
.348	4.260	.00764	.26845	.01132	.00370	.00093	.00053	-.01296	.26687	.03123	8.54546
.348	6.359	.00826	.38595	.00558	.00635	.00121	.00051	-.01379	.38352	.04332	8.85277
.348	8.482	.01002	.51086	-.01148	.00852	.00157	.00030	-.01543	.56696	.06400	7.92169
.348	10.595	.00853	.63966	-.02124	.00922	.00292	.00192	-.02015	.63059	.10568	5.97091
.348	12.668	.01234	.72448	.00148	.00955	.00083	.00027	-.01884	.70652	.16033	4.40678
.348	14.773	.01489	.84494	.00020	.01061	.00040	.00005	-.02182	.81696	.21565	3.76832
.348	16.886	.01623	.96005	-.00365	.01529	-.00144	-.00053	-.02158	.91972	.27336	3.34000
.348	18.969	.01710	1.02618	-.00415	.02071	-.00485	-.00130	-.01991	.97180	.32964	2.94809
.348	21.023	.01674	1.08561	-.00359	.02585	-.00646	-.00172	-.01850	1.01463	.38611	2.62785
GRADIENT		.00137	.04985	-.00161	.00152	.00017	-.00013	-.00140	.04947	.00128	1.70300

RUN NO. 64/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.799	-2.098	-.00318	-.04692	.02082	-.00782	.00021	.00179	-.00510	-.04612	.02252	-2.04784
.799	.108	.00505	.06335	.02138	-.00445	.00046	.00131	-.00823	.06331	.02149	2.94529
.800	2.321	.01134	.19147	.01906	-.00135	.00077	.00100	-.01261	.19054	.02680	7.10995
.800	4.549	.01669	.34020	.01573	.00077	.00100	.00039	-.01409	.33787	.04274	7.90568
.800	6.769	.01843	.46413	.01751	.00020	-.00042	.00024	-.01481	.45883	.07209	6.36476
.798	8.952	.01773	.57328	.02206	.00022	-.00019	.00052	-.01555	.56286	.11101	5.07055
.799	11.077	.02035	.65260	.03006	.00116	.00229	.00097	-.01948	.63467	.15488	4.09791
.798	13.266	.02508	.77134	.03225	.00171	.00195	.00016	-.01993	.74355	.20841	3.96674
.799	15.448	.02723	.87082	.03669	.00509	.00002	-.00027	-.01995	.82958	.26733	3.10322
.799	17.595	.03056	.94125	.04454	.00915	-.00040	.00001	-.02393	.88396	.32635	2.70862
.798	19.721	.03406	1.00781	.04857	.01504	-.00158	-.00244	-.01685	.93231	.38580	2.41655
.798	21.821	.03150	1.04128	.04998	.02325	-.00338	-.00349	-.01577	.94809	.43345	2.18730
GRADIENT		.00297	.05812	-.00079	.00130	.00012	-.00020	-.00137	.05765	.00298	1.53153

(RP5021) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIFS) (BMSVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANCAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LRCP = 25.5100 INCHES YMRP = .0000 INCHES
 BRCP = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = 1.0188 SCALE

RUN NO. 63/ 0 RNL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.890	-2.166	-.00550	-.06951	.02882	-.00933	.00015	.00204	-.00492	-.06837	.03143	-2.17540
.890	.985	.00563	.03286	.02858	-.00679	.00040	.00099	-.00780	.05281	.02866	1.84309
.898	2.363	.01338	.20699	.02754	-.00587	.00094	.00072	-.01187	.20568	.03605	5.70559
.898	4.629	.01768	.34525	.02877	-.00407	-.00041	.00046	-.01351	.34164	.05604	6.10904
.898	6.851	.01916	.46732	.03354	-.00578	-.00230	-.00062	-.01005	.45999	.08905	5.16551
.899	9.022	.01923	.56740	.04147	-.00640	-.00101	-.00001	-.01266	.55388	.12993	4.26289
.900	11.220	.02142	.67813	.04805	-.00743	-.00119	-.00050	-.01218	.65573	.17957	3.65160
.899	13.409	.02449	.79161	.05807	-.01041	.00057	.00051	-.01856	.75656	.24007	3.15143
.899	15.660	.03344	.92165	.05473	-.00837	.00300	.00215	-.03163	.87266	.30148	2.89463
.890	17.874	.04007	1.01253	.06343	-.00319	.00085	-.00208	-.01877	.94420	.37113	2.54410
.899	19.988	.03740	1.05723	.06813	-.00419	-.00358	-.00355	-.01120	.97026	.42541	2.28076
.899	22.083	.03322	1.09567	.06746	.01141	-.00195	-.00216	-.01443	.98993	.47444	2.08654
.899	GRADIENT	.00342	.06171	-.00012	.00074	-.00005	-.00022	-.00132	.06105	.01359	1.26560

RUN NO. 62/ 0 RNL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.184	-.00680	-.11898	.07104	.00349	-.00006	.00208	-.00455	-.11618	.07552	-1.53848
.981	.095	.00352	.03661	.07358	.00024	.00009	.00170	-.00320	.03649	.07364	.49554
.981	2.379	.01100	.19867	.07393	-.00550	.00078	.00164	-.01346	.19543	.08211	2.38010
.980	4.680	.01582	.37759	.07517	-.01365	.00152	.00140	-.01539	.37020	.10373	3.50147
.980	6.960	.01862	.54915	.07918	-.02276	.00157	.00137	-.01700	.53551	.14514	3.68950
.981	9.225	.02190	.70173	.08025	-.02877	.00186	.00117	-.01820	.67979	.19170	3.54608
.982	11.504	.02693	.86058	.08289	-.03589	.00217	.00067	-.01932	.82676	.25285	3.26980
.980	13.751	.03069	1.01056	.08578	-.04179	.00176	.00105	-.02337	.96121	.32353	2.97101
.980	16.007	.03412	1.14299	.08784	-.04453	.00167	.00181	-.02890	1.07445	.39962	2.68869
.981	18.224	.03885	1.25811	.08952	-.04526	-.00256	.00120	-.02955	1.16701	.47848	2.43900
.981	19.582	.04295	1.30418	.08805	-.04256	.00326	.00043	-.02920	1.19923	.52007	2.30592
.981	GRADIENT	.00329	.07221	.00056	-.00250	.00024	-.00009	-.00161	.07074	.00434	.74312

(RP5021) (19 MAY 73) LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

REFERENCE DATA
 SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 23.5100 INCHES YMRP = .0000 INCHES LANDAF = 75.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDPLAF = .000 RUDFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 61/ 0 SN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.164	-0.00583	-0.06586	.07744	.00286	.00078	.00183	-.00455	-.08288	.08062	-1.02797
1.200	.107	.00372	.04949	.07967	-.00326	.00105	.00153	-.00832	.04934	.07976	.61857
1.201	2.400	.01113	.19868	.08109	-.01073	.00140	.00146	-.01196	.19331	.08935	2.18591
1.200	4.693	.01502	.35177	.08077	-.01793	.00139	.00134	-.01351	.34398	.10928	3.14765
1.200	6.979	.01840	.50318	.08113	-.02424	.00139	.00127	-.01504	.48960	.14167	3.45597
1.199	9.266	.02216	.64632	.08147	-.02930	.00178	.00120	-.01682	.62496	.18450	3.38728
1.199	11.579	.02656	.79653	.08256	-.03429	.00174	.00128	-.01961	.76375	.24075	3.17236
1.199	13.896	.03186	.93361	.08369	-.03869	.00124	.00126	-.02250	.88640	.30483	2.90785
1.200	16.096	.03619	1.05523	.08372	-.04112	.00127	.00146	-.02591	.99065	.37300	2.65591
1.200	17.763	.03866	1.13884	.08448	-.04151	.00239	.00177	-.02873	1.05877	.42788	2.47445
	GRADIENT	.00306	.06396	.00050	-.00305	.00010	-.00217	-.00133	.06240	.00418	.61631

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 CRIBITER (SHIPS) (BWSVFB)

(RP5P21) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9006 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

BETA = .000 WINGNO = 3.000
 LANDAF = 75.000 ULEVTR = .000
 EFLAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO. 65/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.027	165.32057	-.02296	-.05994	-.08296	-.05643
.349	.186	165.78870	-.02533	-.05738	-.08225	-.03345
.348	2.168	165.22670	-.02880	-.05852	-.07767	-.03258
.348	4.260	165.32011	-.02927	-.06187	-.08005	-.03111
.348	6.359	165.50783	-.03021	-.06661	-.08916	-.03060
.348	8.482	165.50783	-.03069	-.07335	-.09690	-.03157
.348	10.595	165.50783	-.04087	-.09019	-.10658	-.04653
.348	12.668	165.50760	-.05783	-.11762	-.11287	-.07067
.348	14.773	165.22670	-.07442	-.14047	-.12711	-.09352
.348	16.886	165.32057	-.09815	-.16352	-.14641	-.12392
.348	18.969	165.41397	-.14124	-.20195	-.18215	-.16491
.348	21.023	165.22670	-.19770	-.26725	-.24100	-.22168
GRADIENT		-.02665	-.00107	-.00033	-.00064	-.00080

RUN NO. 64/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.008	311.08771	-.01800	-.02608	-.02413	-.02256
.799	.108	311.22191	-.01877	-.02531	-.02207	-.02205
.800	2.321	311.35637	-.02238	-.02838	-.02515	-.02513
.800	4.562	311.28899	-.02212	-.02838	-.02464	-.02487
.800	6.769	311.28899	-.02933	-.03554	-.03210	-.03283
.798	8.952	310.53176	-.04227	-.05072	-.04709	-.04727
.799	11.077	311.02160	-.06363	-.09317	-.08335	-.07317
.798	13.268	310.23178	-.09943	-.15344	-.16328	-.11196
.799	15.448	310.81918	-.16583	-.22749	-.23848	-.18350
.799	17.585	310.94721	-.23526	-.31629	-.33986	-.26515
.798	19.721	310.47703	-.32173	-.40164	-.42726	-.35225
.798	21.821	310.67860	-.39562	-.47702	-.50509	-.43769
GRADIENT		.03317	-.00072	-.00045	-.00021	-.00045

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B43VFB) (RPSP21) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LFTF = 25.5170 INCHES YMEF = .0000 INCHES
 BREF = 20.0096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 15.000 ELEVTR = .000
 EDPLAF = .000 RUFLR = .000

RUN NO. 63/ 0 RVL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.970	-2.166	355.25213	.01019	-.00910	.00434	-.00911
.970	.085	355.43956	.00648	-.00686	.00210	-.00911
.898	2.363	354.49244	.00498	-.00440	.00301	-.00126
.899	4.629	354.95470	-.00157	-.00388	-.00395	-.00485
.898	6.851	354.50151	-.02792	-.03450	-.03058	-.03009
.899	9.022	354.89518	-.07534	-.09394	-.08673	-.07915
.970	11.220	355.25213	-.12358	-.17478	-.14841	-.13283
.899	13.409	355.09192	-.20177	-.25000	-.21793	-.21007
.899	15.660	354.89880	-.25139	-.30358	-.31601	-.27303
.970	17.874	355.73204	-.36913	-.43157	-.44985	-.39636
.899	19.988	354.92244	-.45108	-.51715	-.54473	-.46053
.899	22.083	354.85381	-.49862	-.57000	-.60464	-.50903
	GRADIENT	-.08132	-.00162	.00214	-.00106	.00091

RUN NO. 62/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.184	385.58749	-.17423	-.16813	-.18332	-.19332
.981	.095	385.52315	-.10779	-.16302	-.18108	-.19068
.981	2.379	385.52315	-.16970	-.16942	-.18752	-.19959
.980	4.680	385.06467	-.19050	-.19028	-.21268	-.22056
.980	6.960	385.29378	-.22897	-.22497	-.25129	-.25597
.981	9.225	385.70935	-.27088	-.26991	-.29772	-.29461
.982	11.504	385.78541	-.32183	-.32630	-.33820	-.33977
.980	13.751	385.26301	-.37673	-.37173	-.40050	-.38558
.980	16.007	385.43104	-.41803	-.42019	-.44942	-.42196
.981	18.224	385.85231	-.45509	-.45927	-.49595	-.46862
.981	19.582	385.52315	-.47277	-.48220	-.51155	-.48932
	GRADIENT	-.06866	-.00227	-.00319	-.00414	-.00397

DATE 07 JUL 73

TABLATED SOURCE DATA-LARC 644

(RP5F21) (19 MAY 73)

LARC 8-FT TET 644 LO-10E ORBITER (SHIPS) (RNOVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 75.000 ELEVTR = .000
 SDFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.3100 INCHES YMRP = .0000 INCHES
 BREF = 20.9596 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 61/0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFE1	CFB2	CFC1	CFC2
1.200	-2.164	440.66058	-22967	-23604	-23314	-23356
1.200	.107	440.16255	-22848	-22437	-23268	-23637
1.201	2.400	440.96871	-23350	-23171	-23915	-24372
1.200	4.693	440.81759	-23788	-24203	-24715	-25334
1.200	6.979	440.52303	-25057	-26059	-26164	-26890
1.199	9.266	440.49562	-26669	-28275	-27447	-28568
1.199	11.579	440.34435	-28620	-30702	-28777	-30205
1.199	13.856	440.48799	-31229	-34413	-31273	-33040
1.200	16.096	440.54437	-32833	-36296	-32258	-34421
1.200	17.763	440.59319	-35315	-38671	-34608	-36567
	GRADIENT	.05603	-1.00130	-1.00111	-1.00212	-1.00292

REFERENCE DATA
 SREF = 173.1312 SQ. IN. XMRP = 16.6633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 23.3100 INCHES YMRP = .0000 INCHES LAMCAF = 78.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 60/ 0 RVL = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.349	-2.159	-.00045	-.04531	.02006	-.00686	.00031	.00102	-.00363	-.04456	.02168	-2.09535
.349	.040	.00391	.05974	.02270	-.00379	.00045	.00074	-.00892	.05973	.02274	2.62674
.349	2.138	.00678	.0016	.01890	-.00015	.00073	.00049	-.01148	.15934	.02486	6.40820
.349	4.234	.00787	.27167	.01114	.00350	.00100	.00054	-.01325	.27011	.03117	8.66629
.349	6.356	.00862	.39081	.00032	.00663	.00122	.00048	-.01408	.38837	.04358	8.91074
.349	8.458	.00962	.51243	-.01113	.00911	.00161	.00003	-.01365	.50849	.06436	7.90076
.349	10.577	.00803	.63486	-.00907	.01034	.00284	.00024	-.02037	.62574	.10761	5.81501
.349	12.664	.01302	.74732	.00333	.01095	.00228	.00017	-.02198	.72841	.16708	4.35964
.349	14.812	.01370	.86545	-.00068	.01423	.00155	-.00017	-.02540	.85620	.22570	3.79347
.349	16.929	.01887	1.02790	-.00785	.01800	-.00134	-.00051	-.02540	.97895	.28977	3.37838
.349	19.039	.01983	1.12626	-.01271	.02378	-.00548	-.00149	-.02304	1.06880	.35538	3.02746
.349	21.098	.01861	1.16863	-.01014	.03153	-.00704	-.00179	-.02034	1.08394	.41120	2.66033
GRADIENT		.00133	.05012	-.00146	.00166	.00011	-.00008	-.00152	.04975	.00146	1.71369

RUN NO. 59/ 0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.800	-2.142	-.00260	-.05133	.02028	-.00891	.00023	.00165	-.00494	-.05054	.02219	-2.27785
.799	.059	.00542	.06140	.02192	-.00551	.00059	.00118	-.00897	.06138	.02199	2.79171
.800	2.293	.01108	.19456	.01995	-.00193	.00098	.00096	-.01223	.19361	.02771	6.98608
.800	4.537	.01662	.33731	.01612	.00065	.00099	.00038	-.01399	.33498	.04275	7.83517
.799	6.732	.01807	.46594	.01747	.00052	-.00053	.00079	-.01392	.46066	.07213	6.38627
.799	8.916	.01849	.57369	.02295	.00064	-.00040	.00021	-.01484	.56321	.11159	5.04721
.799	11.070	.02032	.66244	.02915	.00243	.00288	.00088	-.01982	.64452	.15580	4.13677
.799	13.264	.02488	.77436	.03445	.00308	.00253	-.00015	-.01843	.74579	.21120	3.53125
.799	15.440	.02760	.88284	.03761	.00331	.00132	-.00047	-.01940	.84096	.27129	3.09949
.799	17.601	.02698	.96253	.04123	.00314	-.00114	-.00034	-.01968	.90492	.33065	2.73681
.799	19.766	.03074	1.04227	.04663	.00177	-.00133	-.00040	-.02265	.96509	.39636	2.43439
.799	21.877	.03210	1.07910	.04552	.02703	.00156	-.00004	-.02360	.98443	.44432	2.21559
.800		.00284	.05834	-.00065	.00145	.00012	-.00018	-.00136	.05788	.00303	1.54886

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BMSVFB)

(RP5022) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 MINGAO = 3.000
LAMCAF = 78.000 ELEVTR = .000
BCFLAP = .000 RUFPLR = .000

REFERENCE DATA

MACH = 173.1312 SQ. IN. XREF = 16.8633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 20.9096 INCHES ZREF = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 58/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.210	-.00462	-.07264	.02816	-.01055	.00010	.00195	-.00513	-.07150	.03094	-2.31075
.900	.043	.00558	.05624	.02873	-.00808	.00052	.00094	-.00757	.05622	.02878	1.93370
.901	2.340	.01305	.05582	.02913	-.00620	.00120	.00047	-.01048	.20446	.03751	5.45051
.898	4.614	.01825	.05410	.02766	-.00572	.00150	.00051	-.01407	.39073	.05599	6.26387
.900	6.823	.01988	.05401	.03297	-.00514	.00169	-.00028	-.01189	.46316	.08861	5.22678
.900	8.995	.01676	.05888	.04115	-.00363	.00151	-.00130	-.00564	.54557	.12803	4.26140
.899	11.241	.02055	.07612	.04527	-.00471	.00157	-.00107	-.01056	.65442	.17586	3.72119
.900	13.441	.02461	.08131	.05434	-.00666	.00220	.00204	-.02499	.76674	.23911	3.20662
.899	15.638	.02071	.09145	.05566	-.00365	.00095	.00114	-.02489	.86521	.30732	2.88095
.901	17.878	.02758	1.02201	.06192	.00083	-.00131	-.00005	-.01867	.95365	.37268	2.55891
.900	20.090	.03099	1.08813	.06833	.00758	-.00175	.00058	-.02391	.43725	.43725	2.28417
.899	22.181	.03113	1.13770	.06558	.01466	-.00049	.00107	-.02641	1.02875	.49024	2.09845
GRADIENT		.00335	-.00005	-.00005	.00072	-.00018	-.00021	-.00131	.06223	.00369	1.28495

RUN NO. 57/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.211	-.00654	-.11434	.07030	.00254	-.00026	.00204	-.00455	-.11155	.07466	-1.49398
.980	.079	.00230	.04053	.07306	-.00032	.00027	.00174	-.00165	.04043	.07311	.55294
.980	2.348	.01073	.19916	.07393	-.001574	.00086	.00144	-.01244	.19597	.08203	2.38896
.979	4.659	.01459	.37705	.07660	-.01358	.00141	.00134	-.01441	.36958	.10697	3.45493
.980	6.959	.01838	.55010	.07989	-.02168	.00148	.00142	-.01705	.53637	.14595	3.67491
.981	9.215	.02192	.69987	.08036	-.02657	.00200	.00099	-.01749	.67797	.19140	3.54222
.980	11.476	.02760	.85638	.08174	-.03270	.00221	-.00011	-.01646	.82300	.25049	3.28549
.979	13.744	.03230	1.01323	.08677	-.03891	.00176	.00005	-.02123	.96362	.32501	2.96489
.980	15.993	.03594	1.15932	.08703	-.03969	.00145	.00093	-.02599	1.07125	.39756	2.69458
.981	18.214	.03526	1.24191	.08705	-.03715	-.00001	.00165	-.02921	1.15243	.47087	2.44758
.981	19.618	.03878	1.31192	.08834	-.03675	.00287	.00140	-.03031	1.20501	.52366	2.30305
GRADIENT		.00314	-.07137	.00005	-.00235	.00024	-.00010	-.00146	.06989	.00463	.72890

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (8L3VFB)

(RP5022) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAWDAF = 78.000 ELEVTR = .000
BDCLAP = 1 .000 RUDFLR = .000

REFERENCE DATA

SREF = 173.1312 SQ. IN. XREF = 16.8633 INCHES
LREF = 25.9100 INCHES YREF = .0000 INCHES
BREF = 20.9096 INCHES ZREF = .0000 INCHES
SCALE = .0188 SCAL:

RUN NO. 56/ 0 RVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.193	-.00605	-.03108	.07652	.00184	.00092	.00168	-.00361	-.08809	.07995	-1.10162
1.200	.081	.00354	.05043	.08011	-.00441	.00125	.00144	-.00785	.05031	.08018	.62750
1.201	2.364	.01105	.19766	.08176	-.01117	.00160	.00127	-.01109	.19412	.08985	2.16085
1.201	4.646	.01510	.34873	.08215	-.01796	.00150	.00125	-.01317	.04093	.11013	3.09578
1.201	6.942	.01796	.49784	.08149	-.02354	.00155	.00118	-.01442	.48435	.14107	3.43348
1.200	9.240	.02292	.64829	.08212	-.02839	.00187	.00104	-.01654	.62666	.18224	3.38299
1.200	11.557	.02643	.79343	.08225	-.03249	.00149	.00117	-.01907	.76086	.23954	3.17640
1.200	13.828	.03116	.93350	.08369	-.03609	.00126	.00126	-.02210	.88644	.30438	2.91226
1.200	16.120	.03504	1.05953	.08457	-.03785	.00130	.00143	-.02516	.99439	.37543	2.64865
1.200	17.619	.03667	1.14713	.08508	-.03859	.00144	.00179	-.02771	1.06090	.42619	2.48926
1.200	GRADIENT	.00311	.06433	.07031	-.00290	.00009	-.00216	-.00137	.86276	.00440	.61950

(RF5P22) (19 MAY 73)

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (B/M/VFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 23.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGMO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 60/ 0 R/VL = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	0 (PSF)	CFB1	CFB2	CFB1	CFB2	CFC1	CFC2
.349	-2.059	166.35221	-.02136	-.05863	-.08058	-.03383		
.349	.040	166.25838	-.02523	-.05723	-.08158	-.03240		
.349	2.138	166.53963	-.02808	-.06000	-.07857	-.03140		
.349	4.234	166.53963	-.02808	-.06144	-.08434	-.03140		
.349	6.356	166.53963	-.02808	-.06527	-.09011	-.02948		
.349	8.458	166.53939	-.03097	-.07292	-.09539	-.03427		
.349	10.577	166.25861	-.04115	-.09124	-.10759	-.05067		
.349	12.664	165.88418	-.05622	-.11304	-.10348	-.07554		
.349	14.812	165.88418	-.07024	-.12649	-.11121	-.09413		
.349	16.929	165.97803	-.08421	-.13649	-.12079	-.11333		
.349	19.029	166.25885	-.11012	-.17268	-.15238	-.13862		
.349	21.098	166.25885	-.16704	-.23256	-.20536	-.19293		
GRADIENT		.04021	-.00110	-.02253	-.02039	-.02040		

RUN NO. 59/ 0 R/VL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	0 (PSF)	CFB1	CFB2	CFB1	CFB2	CFC1	CFC2
.800	-2.142	311.36235	-.01669	-.02505	-.02260	-.02179		
.799	.059	311.13601	-.02133	-.02788	-.02492	-.02565		
.800	2.293	311.28899	-.02056	-.02710	-.02260	-.02359		
.800	4.537	311.35007	-.02210	-.02966	-.02543	-.02564		
.799	6.752	310.80042	-.02933	-.03557	-.03266	-.03388		
.799	8.916	310.88633	-.04171	-.05042	-.04682	-.04801		
.799	11.070	311.08771	-.06489	-.09111	-.08412	-.07599		
.799	13.264	311.22818	-.10481	-.15326	-.16025	-.12012		
.799	15.440	310.99554	-.15980	-.22456	-.23040	-.18496		
.799	17.601	310.98927	-.23820	-.31011	-.33418	-.25485		
.799	19.766	311.24072	-.31839	-.38791	-.42499	-.31934		
.800	21.877	311.28899	-.37297	-.45054	-.49619	-.39221		
GRADIENT		.01617	-.02069	-.02259	-.02428	-.02042		

LARC 9-FT TPT 644 LO-100 ORBITER(SHIPS) (BMSVFB)

(RFP22) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAF = .000 RUOFFL = .000

RUN NO. 58/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.210	355.02331	.00910	-.01113	.00098	-.01092
.900	.043	355.25213	.00674	-.00708	.00120	-.00979
.910	2.340	355.47609	.00626	-.00574	.00277	-.00417
.938	4.604	354.64788	-.00136	-.00956	-.00395	-.00530
.950	6.823	355.26125	-.02469	-.03219	-.02783	-.02846
.970	8.995	355.44400	-.06461	-.12091	-.11275	-.08038
.899	11.211	354.68929	-.10747	-.16787	-.14662	-.12042
.920	13.441	355.39840	-.18756	-.25046	-.22880	-.19573
.899	15.658	355.31593	-.26008	-.32202	-.32982	-.28033
.901	17.878	356.05637	-.37238	-.42134	-.46048	-.37199
.920	20.050	355.70918	-.45931	-.52632	-.54490	-.46805
.899	22.181	354.83564	-.49185	-.56352	-.60468	-.50140
	GRADIENT	-.03964	-.00137	.00027	.00058	.00099

RUN NO. 57/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.211	385.32408	-.17397	-.16768	-.18351	-.19392
.980	.079	384.91274	-.16520	-.16186	-.18018	-.19019
.990	2.348	385.04900	-.16503	-.16458	-.18498	-.19851
.979	4.659	385.00304	-.19001	-.18919	-.21306	-.22217
.980	6.959	385.27195	-.22832	-.22393	-.25234	-.25990
.981	9.215	385.40109	-.25398	-.25437	-.27379	-.28359
.980	11.476	385.55270	-.30699	-.31425	-.32485	-.32915
.979	13.744	384.86574	-.36716	-.36472	-.39475	-.38126
.980	15.993	385.47649	-.41210	-.41535	-.44789	-.41939
.981	18.214	385.34006	-.45711	-.45364	-.49991	-.46652
.981	19.618	385.73625	-.48887	-.48168	-.53137	-.49153
	GRADIENT	-.03615	-.00210	-.00295	-.00409	-.00407

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFE)

(RF5F22) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.193	440.24010	-.23109	-.23458	-.23423	-.23591
1.200	.081	440.71098	-.22765	-.22248	-.23315	-.23627
1.201	2.364	440.34085	-.23145	-.23023	-.23713	-.24297
1.201	4.646	440.99550	-.23885	-.24498	-.24887	-.25540
1.201	6.942	440.69339	-.24798	-.25966	-.25999	-.26723
1.200	9.248	440.81947	-.26375	-.28218	-.27265	-.28421
1.200	11.557	440.63921	-.28730	-.30775	-.28981	-.30388
1.200	13.828	440.66825	-.31127	-.34421	-.31556	-.33248
1.200	16.120	440.35048	-.32811	-.36927	-.32401	-.34491
1.200	17.619	440.50936	-.35182	-.38485	-.35205	-.36654
	GRADIENT	.08314	+.00119	-.00171	-.00210	-.00286