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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(NASA-CR-147621) SUBSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-0 OF THE SPACE SHUTTLE ORBITER TESTED IN THE NASA/ARC 12-FOOT PRESSURE TUNNEL (LA66)

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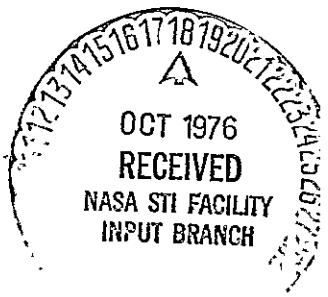
SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

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SPACE DIVISION CHRYSLER CORPORATION

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SUBSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-0 OF THE SPACE SHUTTLE ORBITER TESTED IN THE NASA/ARC 12-FOOT PRESSURE TUNNEL (LA66)

by

J. M. Underwood, Johnson Space Center
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Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 12PT 135-1
NASA Series Number: LA66
Model Number: 44-0
Test Dates: 20 through 24 October 1975
Occupancy Hours: 80

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SUBSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-0 OF THE SPACE SHUTTLE ORBITER TESTED IN THE NASA/ARC 12-FOOT PRESSURE TUNNEL (LA66)

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ABSTRACT

The investigation was conducted in the NASA/Ames Research Center 12-foot Pressure Tunnel from Oct. 20 to 24, 1975. The model was a Langley-built 0.015-scale SSV Orbiter model with remote independently operated left and right elevon surfaces. The objective of the test was to generate a detailed aerodynamic data base for the current Shuttle Orbiter Configuration. Special attention was directed to definition of non-linear aerodynamic characteristics by taking data at small increments in angle of attack, angle of sideslip, and elevon position.

Six-component aerodynamic force and moment and elevon position data were recorded over an angle of attack range from -4° to 24° at angles of sideslip of 0° and $\pm 4^\circ$. Additional tests were made over an angle of sideslip range from -6° to 6° at selected angles of attack.

The test Mach numbers were 0.22 and 0.29 and the Reynolds number was varied from 2.0 to 8.5 x 10^6 per foot.

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TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	5
INTRODUCTION	9
CONFIGURATIONS INVESTIGATED	11
TEST CONDITIONS	13
TEST FACILITY DESCRIPTION	14
DATA REDUCTION	15
TABLES	
I. TEST CONDITIONS	16
II. DATA SET/RUN NUMBER COLLATION SUM	17
III. MODEL DIMENSIONAL DATA	18
FIGURES	
MODEL	27
DATA	35
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis systems.	27
2.	Model sketches.	
	a. SSV Orbiter Configuration	28
	b. Slotted Elevon-E_{43} (6 inch gap)	29
	c. Position of Transition Grit Used In Investigation	30
3.	Model photographs.	
	a. Orbiter Configuration, Front, 3/4 View	31
	b. Orbiter Configuration, Rear, 3/4 View	32
	c. Model Installation Photograph, Rear, 3/4 View	33
	d. Model Installation Photograph, Front, 3/4 View	34

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	VARYING CONDITIONS	PLOTTED COEFFICIENT SCHEDULE	PAGES
4	EFFECTS OF REYNOLDS NUMBER, ELEVON = 0, BETA = 0	A	A	1-6
5	EFFECTS OF REYNOLDS NUMBER AT SIDESLIP	B	A	7-12
6	EFFECTS OF ELEVON DEFLECTION, BETA = 0, RN/L = 8.5	C	A	13-18
7(A)	EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA = 6	A	B	19-20
7(B)	EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA = 12	A	B	21-22
7(C)	EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA = 18	A	B	23-24
8	LATERAL STABILITY DERIVITIVES FROM PITCH RUNS AT BETA = 4 AND -4	A	C	25-26
9	LATERAL STABILITY DERIVITIVES FROM YAW RUNS (AT ZERO SIDESLIP)	A	C	27-28
10	EFFECTS OF MACH NUMBER ON LATERAL CHARACTERISTICS, ALPHA = 18	D	B	29-30
11	COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 6 DEG	E	B	31-32
12	CONPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 12/13 DEG	F	B	33-34
13	COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 18/19 DEG	F	B	35-36

INDEX OF DATA FIGURES (Concluded)

FIGURE NUMBER	TITLE	VARYING CONDITIONS	PLOTTED COEFFICIENT SCHEDULE	PAGES
14	COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 6 DEG	E	B	37-38
15	COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 13 DEG	E	B	39-40
16	COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA = 18 DEG	E	B	41-42

VARYING CONDITIONS:

A) RN/FT

B) RN/FT, BETA

C) ELEVON

D) MACH, RN/FT

E) TUNNEL, RN/FT

F) TUNNEL, ALPHA, RN/FT

PLOTTED COEFFICIENT SCHEDULE:

A) C_L, C_D, C_A, L/D, C_m vs. α

C_m vs. C_N

C_Y, C_n, C_ℓ vs. α

B) C_n, C_ℓ, C_Y vs. β

C) C_{n_β}, C_{ℓ_β}, C_{Y_β} vs. α

NOMENCLATURE
General

SYMBOL	MNEMONIC	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
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 RN/FT	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
	Reference & C.G. Definitions	
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	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

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

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NOMENCLATURE (Continued)
Additions to Nomenclature

SYMBOL	MNEMONIC	DEFINITION
δ_a	AILRON	aileron, total aileron deflection angle, degrees, (left aileron- right aileron)/2
δ_e	ELEVON	elevon, surface deflection angle, positive deflection trailing edge down, (left aileron + right aileron)/2
C_A	CA	axial-force coefficient unadjusted for base or sting cavity pressures
CA_{S_C}	CAC	sting cavity axial-force coefficient
$\bar{c}_e$		elevon mean aerodynamic chord, in.
S_e		elevon planform area, ft.
δ_{SB}	SPDBRK	speed brake deflection angle, degrees
δ_r	RUDDER	rudder deflection angle, degrees
δ_{BF}	BDFLAP	bodyflap deflection angle, degrees
X_{cp}/ℓ_B	XCP/L	normal force center of pressure, percent reference length
δ_{e_L}	ELVN-L	left elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_{e_R}	ELVN-R	right elevon surface deflection angle, positive deflection trailing edge down, degrees
A_{sc}		sting cavity area, m^2, ft^2
ℓ_B		body length, m, ft.
C_{Y_β}	DCY/DB	derivative of side force coefficient with respect to beta, 1/deg.
C_{n_β}	DCYNDB	derivative of yawing moment coefficient with respect to beta, 1/deg.

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DEFINITION
C_{P_b}	CPBASE	base pressure coefficient
$C_{P_{cav}}$	CPCAV	pressure coefficient for sting cavity area
C_{ℓ_β}	DCBLDB	derivative of rolling moment coefficient with respect to beta, 1/deg.
$\Delta\beta$	DBETA	incremental angle of sideslip, difference between two or more test runs, degrees
	GRITNO	parameter to denote testing with grit GRIT = 1 (grit on), GRIT = 0 (grit off)

INTRODUCTION

The NASA is continuing experimental and analytical development of an aerodynamically sound and effective Space Shuttle vehicle. Extensive wind tunnel support has been devoted to this vehicle, especially the Orbiter Configuration, which is at present fixed in basic design. Several areas of concern have recently been noted from analysis of experimental data obtained in the numerous tests in various facilities, which are: the existence of regions of nonlinear aerodynamic characteristics significant enough to cause concern to control designers and, in some cases, disagreement between data obtained in the various facilities across the country.

Therefore, the Langley Research Center, in cooperation with Johnson Space Center and Rockwell International, has undertaken an experimental program to determine in detail the aerodynamic characteristics of a model of the Space Shuttle Orbiter. Attention will be given to conditions which have in past investigations shown regions of nonlinearity, since detailed definitions in these regions are particularly important in the development of longitudinal and lateral control characteristics to be used in the vehicle control logic. In addition, in order to minimize the effects of configuration differences which may contribute to uncertainties, a single model will be tested in the following facilities:

Langley Research Center

8 Ft. Transonic Pressure Tunnel (LA62)	(DMS-DR-2264)
Low Turbulence Pressure Tunnel (LA61B)	(DMS-DR-2300)
Unitary Plan Wind Tunnel No.1 (LA63A)	(DMS-DR-2270)
Unitary Plan Wind Tunnel No.2 (LA63B)	(DMS-DR-2279)

Ames Research Center

12 Ft. Transonic Pressure Tunnel (LA66)	(DMS-DR-2281)

Calspan

8 Ft. Variable Density Transonic Tunnel (LA70)	(DMS-DR-2269)

LTV, Inc.

4 x 4 Ft. Supersonic Wind Tunnel (LA67)	(DMS-DR-2266)

The model was designed with remotely controlled elevons so that pitch and roll control effectiveness could be defined in small control increments over a wide range of control settings. A large data base of aerodynamic characteristics will be determined in continuous flow lower Reynolds number facilities. Non-linearities or other possible problem areas that appear in these low Reynolds number tests will be investigated in facilities which are capable of higher Reynolds numbers. At the conclusion of the overall program aerodynamic data will be avaiable in the Mach range from 0.22 to 4.6 on a single model and in a wide range of Reynolds numbers to give a high degree of confidence in the data, and extrapolation to full scale conditions.

Purpose of this report is to present additional subsonic aerodynamic characteristics obtained in the Ames 12-Foot pressure tunnel at Mach numbers of 0.22 and 0.29 over an angle of attack range from -4° to 24°. Tests were conducted over a sideslip range of -6° to 6° at selected angles of attack.

These tests were also used to validate the lateral-directional data taken in the Langley Low Turbulence Tunnel. The Langley data (DMS-DR-2300) was taken with a new test apparatus that sideslipped the model by changing the model roll and pitch angles. Since the Low Turbulence Pressure tunnel test section is 3 feet wide by 7.5 feet high, the tunnel boundaries were different with respect to the model for each angle of sideslip and thus it was desirable to check to see if the standard wind tunnel corrections were applicable.

CONFIGURATIONS INVESTIGATED

The test model was a 0.015-scale model of the Space Shuttle Orbiter (Figures 2 and 3). The model was constructed at the Langley Research Center using the nose section forward of full-scale fuselage station 672.8, the vertical tail and OMS pods from an existing Rockwell model 44-0. The remainder of the model, the wings, elevons, and body were constructed from Rockwell-furnished line details. The elevon hinge line gap was sealed for this test. The left and right elevon surfaces were driven independently by internally mounted electric motors. The elevon position was determined by high resolution potentiometers mounted on the pivot axis of the elevons, thus giving the true position of the elevon under load at all times. The accuracy of the elevon position is the read-out accuracy of the potentiometer, which was determined to be within 0.2 degree.

The model configuration is summarized as follows:

Orbiter-140A/B/C = B_{26} C_9 E_{43} F_8 M_{16} N_{28} R_5 V_8 W

Component	Definition
B_{26}	Fuselage per Rockwell Lines VL70-000140A and VL70-000140B (Model SS-A00147)
C_9	Canopy per Rockwell Lines VL70-000140A and VL70-000143B (Model drawing SS-A00147)
E_{43}	Slotted version (6-inch) of E_{26} elevons per Rockwell VL70-000145 (Model drawing SS-A00147)
F_8	Body flap per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
M_{16}	OMS/RCS pods Rockwell Lines VL70-0084010 (Model drawing SS-A00147
N_{28}	OMS engine nozzle per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
R_5	Rudder per Rockwell Lines VL70-000146A (Model drawing SS-A00148)

CONFIGURATIONS INVESTIGATED (Concluded)

Component	Definition
V_8	Vertical tail per Rockwell Lines VL70-000146A (Model drawing SS-A00148)
W	Wing per Rockwell V70-30-906-01 (Basic Control drawing)

A complete description of model dimensional data is given in Table III.

TEST PROCEDURES

The tunnel conditions existing during the test are summarized in Table I, and the configurations tested are shown in Table II. 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 -4° to 24° for angles of sideslip of 0° and ±4°. Sideslip angles were varied from -6° to 6° at angles of attack of 6°, 12°, and 18°. Angles of attack and sideslip have been corrected for the effects of sting deflection under load.

TEST FACILITY DESCRIPTION

Ames 12-foot Pressure Wind Tunnel is a closed circuit, continuous flow, single return, variable-density, low-turbulence tunnel that operates at subsonic speeds up to slightly less than Mach 1.0.

Airflow is produced by a two-stage, axial-flow, variable-speed fan powered by electric motors which deliver 12,000 hp. Airspeed in the test section is controlled by variation of the rotational speed of the fan.

The test section is 11.3 feet in diameter and is 18 feet long. The combination of eight fine-mesh screens in the settling chamber and the contraction ratio of 25 to 1 provides an exceptionally low turbulence airstream. A special mounting drive system is available for high angle of attack. External and internal strain-gage balances are available.

Data are recorded on a Beckman 210 medium speed recorder and processed through a centrally located Honeywell H-800 computer system.

DATA REDUCTION

The LaRC UT 27-55 six component strain gage balance was used to measure model forces and moments. All final data were presented along a set of body and stability axes (Figure 1) through the nominal center of gravity located at F. S. 1076.7 and FRL 375.0. Drag data presented represent gross drag in that no corrections to free-stream conditions in the base regions have been made. Model data were converted to standard NASA coefficients using the following constants:

Reference Area	SREF = 0.605 ft.^{2}
Reference Length	LREF = 7.122 in.
Reference Span	BREF = 14.05 in.
Total base area excluding sting cavity	A_b = 0.0615 ft.^{2}
Sting cavity area	A_{sc} = 0.03409 ft.^{2}

TABLE I

TEST : LA-66 | DATE : 10-24-75

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. Feet)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.29	2×10^6	138	110
↓	4×10^6	280	↓
↓	5×10^6	350	↓
↓	6×10^6	420	↓
↓	7×10^6	490	↓
↓	8.5×10^6	560	↓
0.22	2.7×10^6	138	↓
↓	5.3×10^6	277	↓
↓	6.4×10^6	336	↓

BALANCE UTILIZED: LaRC UT 27-55

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	600 lb.	±3 lb.	
SF	300 lb.	±1.50 lb.	
AF	55 lb.	±0.275 lb.	
PM	800 in.-lb.	±4.00 in.-lb.	
RM	400 in.-lb.	±2.00 in.-lb.	
YM	600 in.-lb.	±3.00 in.-lb.	

COMMENTS:

TABLE II.

TEST: LA66 . ARC 135-1-12 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 10-25-75

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_{SB}	δ_e	δ_a	M	NO. OF RUNS	RN/L per foot x 10^{-6} 2.0	2.7	4.0	5.0	6.0	7.0	8.5				TEST RUN NUMBERS
RNJ001	BASELINE	A	-4	25	0	0	0.29	3					14	13	12				
02		A	0					6	8		7	6	5	4	1				
03		A	4					3					11	10	9				
04		6	B					3					15	17	16				
05		12	B					3					20	19	18				
06		18	B					3					25	23	21				
07		18	B	25	0	0	0.22	3		26		24		22					
08		A	0	25	5	0	0.29	1							2				
09		A	0	25	-5	0	0.29	1							3				

(R)	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY	RN/L	ALPHA	10	
	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY	RN/L	BETA	10	
(A)	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA	RN/L	ALPHA	10	
	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA	RN/L	BETA	10	

TYPE OF DATA α OR β SCHEDULES

COEFFICIENT SCHEDULES

A) α = -3 to 24 by 1° increments

B) β = -6 to 6 by 1° increments

IDVAR (1) IDVAR (2) NDV

TABLE III.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY B_{26}

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Fuselage

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

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

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

DIMENSIONS	FULL SCALE	MODEL SCALE
* Length (OML: Fwd Sta. X_o=235)-In.	1293.3	19.400
* Length(IML: Fwd Sta. X_o=238)-In.	1290.3	19.355
* Max Width (@ X = 1528.3) - In.	264.0	3.960
Max Depth (@ X_o= 1464) - In.	250.0	3.750
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional	340.88	0.077
Planform		
Wetted		
Base		

TABLE III–Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C_9

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

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147 , RELEASE 12

DRAWING NUMBER : VL70-000143A/B

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (X_o = 434.643 to 587)	143.357	2.150
Max Width (@ X_o = 513.127)	152.412	2.286
Max Depth (@ X_o = 485.0)	25.000	0.375
Fineness Ratio		
Area		
Max. Cross–Sectional		
Planform		
Wetted		
Base		

TABLE III-Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT SLOTTED ELEVON (6-inch GAP) - E_{43}

GENERAL DESCRIPTION Configuration 140A/B Orbiter elevon.

NOTE: E_{43} is a slotted version of E_{26}. Data are for one side.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00148

DRAWING NUMBER VL70-000200, VL70-006089, VL006092

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft^2	210.0	0.0473
Span (equivalent) - In.	349.2	5.238
Inb'd equivalent chord - In.	118.004	1.770
Outb'd equivalent chord/ total surface chord	55.192	0.828
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	-10.056	-10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)	1587.25	0.00536
Mean Aerodynamic Chord ($\bar{c}$), in.	90.7	1.3605

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE III-Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP -F_8

GENERAL DESCRIPTION Configuration 140A/B Orbiter Body Flap.
Hingeline located at X_o = 1528.3, Z_o = 284.3

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL-000140A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (X_0 = 1520 To X_o = 1613)	93.000	1.395
Max Width (In.)	262.00	3.930
Max Depth (X_o = 1520) - In.	23.000	0.345
Fineness Ratio		
Area - Ft^2		
Max. Cross-Sectional		
Planform	150.525	0.0339
Wetted		
Base	41.84722	0.00941

TABLE III-Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS Pod (M_{16})

GENERAL DESCRIPTION: Configuration 140D Orbiter OMS Pod

MODEL SCALE: 0.015 MODEL DRAWING NO: SS-A00147

DRAWING NUMBER: VL70-000140D, VL70-008410

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X_o=1310.5) - In.	258.5	3.878
Max Width (@ X_o = 1511) - In.	136.8	2.052
Max Depth (@ X_o = 1511) - In.	74.7	1.121
Fineness Ratio	2.484	2.484
Area - $Ft.^2$		
Max. Cross-Sectional	58.864	0.0132
Planform		
Wetted		
Base		

TABLE III - MODEL DIMENSIONAL DATA-Continued

MODEL COMPONENT: OMS NOZZLES - N28

GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS Nozzles

MODEL SCALE: 0.015 MODEL DRAWING: SS-000147 RELEASE 5 (Contour)

DRAWING NUMBER: VL70-000145, (location)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NUMBER		
Length- In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft^2		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Nozzle		
X_o	1518.0	22.770
Y_o	-88.0	-1.320
Z_o	490.2	7.380
Right Nozzle		
X	1518.0	22.770
Y	+88.0	+1.320
Z	492.0	7.380
Null Position - Deg.		
Left Nozzle		
Pitch	$15^o49'$	$15^o49'$
Yaw	$12^o17'$	$12^o17'$
Right Nozzle		
Pitch	$15^o49'$	$15^o49'$
Yaw	$12^o17'$	$12^o17'$

TABLE III—Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT RUDDER - R_5

GENERAL DESCRIPTION 2A, 3, 3A, and 140A/B Configurations

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00148

DRAWING NUMBER VL70-000146A, VL70-000095, V170-000139

DIMENSIONS	FULL SCALE	MODEL SCALE
*Area Ft^2	100.15	0.0225
Span (equivalent) - In.	201.0	3.015
Inb'd equivalent chord - In.	91.585	1.3738
Outb'd equivalent chord - In.	50.833	0.7625
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line)	610.92	0.002
Mean Aerodynamic Chord, - In.	73.2	1.098

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE III (Continued)

MODEL DIMENSIONAL DATA - Continued

MODEL COMPONENT VERTICAL - V8

GENERAL DESCRIPTION Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015 DRAWING NUMBER: SS-A00148, RELEASE 6

DRAWING NUMBER VL70-000146A

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2	413.253	0.093
Planform		
Span (Theo) - In.	315.720	4.736
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
*Trailing Edge	26.2	26.2
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.028
Tip (Theo) WP	108.470	1.627
MAC	199.808	2.997
Fus. Sta. of .25 MAC	1463.50	21.953
W.P. of .25 MAC	635.522	9.533
B.L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.920	14.920
Leading Edge Radius	2.00	0.030
Void Area	13.17	0.030
Blanketed Area	0.00	0.00

TABLE III (Concluded)

MODEL COMPONENT: WING-W

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W_{114} except airfoil thickness.

Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015 MODEL DRAWING: SS-AC0148

DRAWING NUMBER: VL70-000140A -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2		
Planform	2690.00	0.605
Wetted		
Span (equivalent) (Theo) In.	936.68	14.050
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.000	+3.000
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.056	-10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Wing Sta. 0.0) (Theo) B.P.0.0.	689.24	10.339
Tip, (equivalent) (Theo) B.P.	137.85	2.068
MAC	474.81	7.122
Fus. Sta. of .25 MAC	1136.83	17.052
W.P. of .25 MAC	290.58	4.359
B.L. of .25 MAC	182.13	2.732
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area Ft^2	1751.50	0.394
Span, (equivalent) (Theo) In. BP103	720.68	10.810
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	8.431
Tip 1.00 $\frac{b}{2}$	137.85	2.068
MAC	392.83	5.892
Fus. Sta. of .25 MAC	1185.98	17.790
W.P. of .25 MAC	294.30	4.415
B.L. of .25 MAC	251.77	3.777

Notes:

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

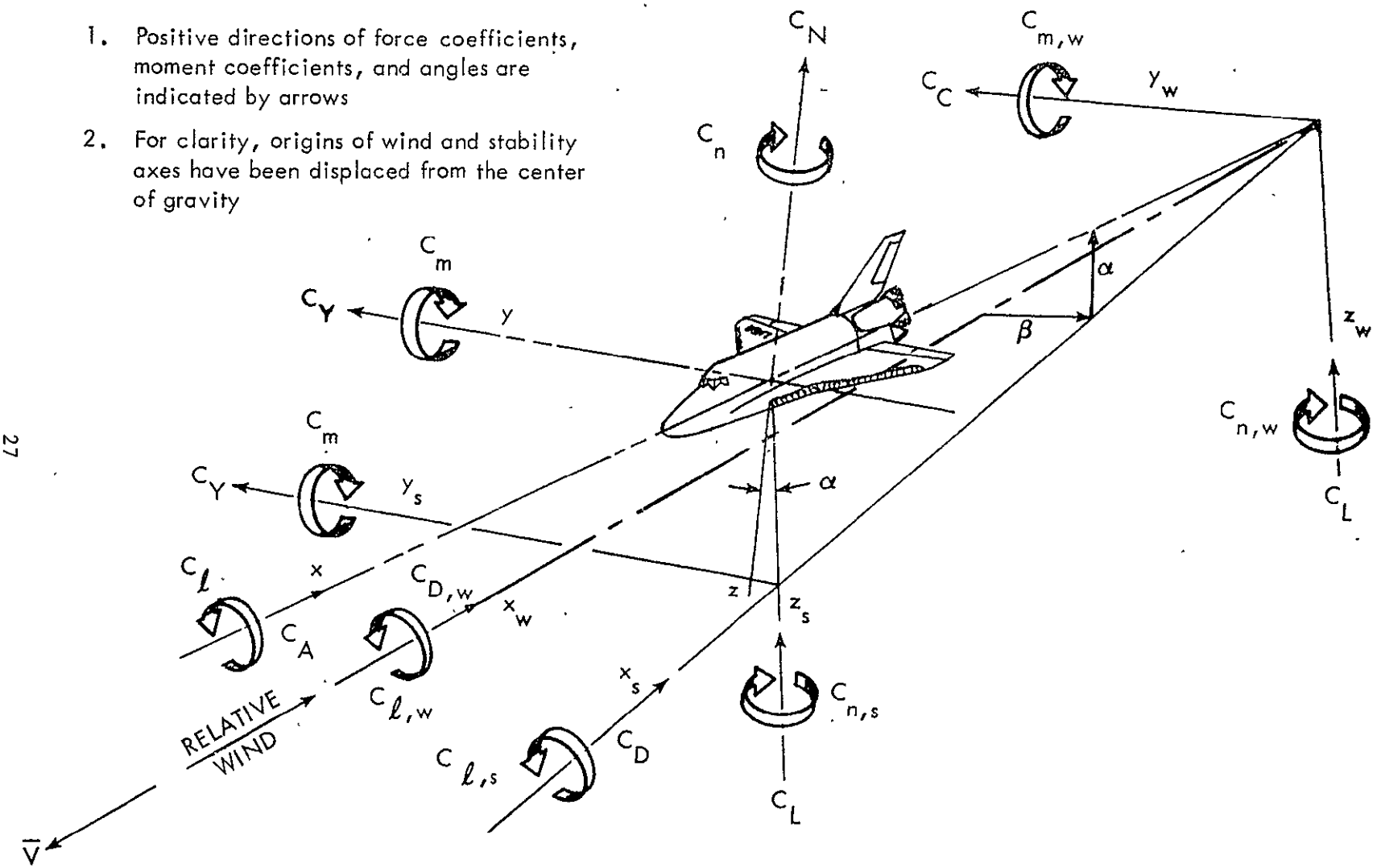
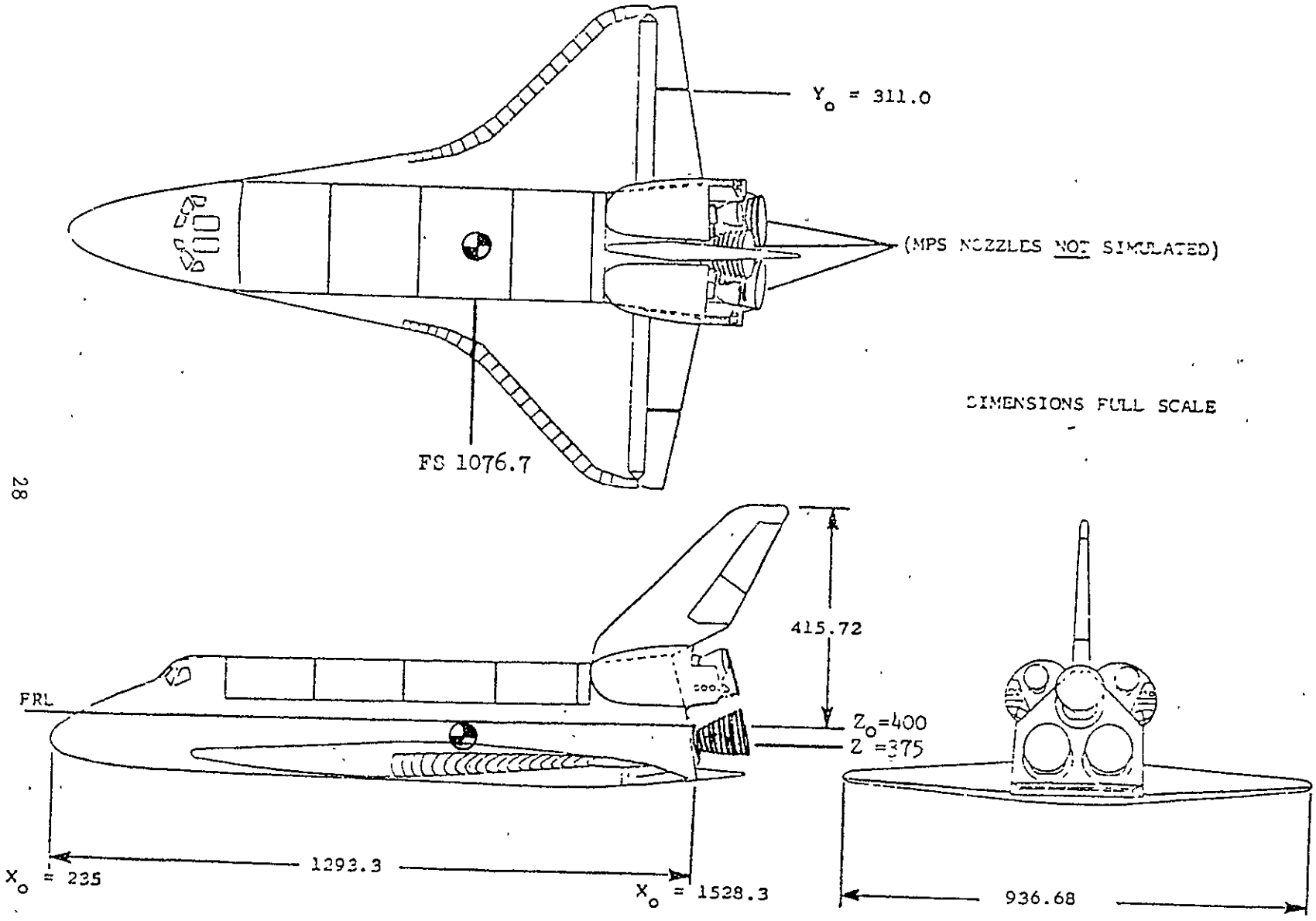
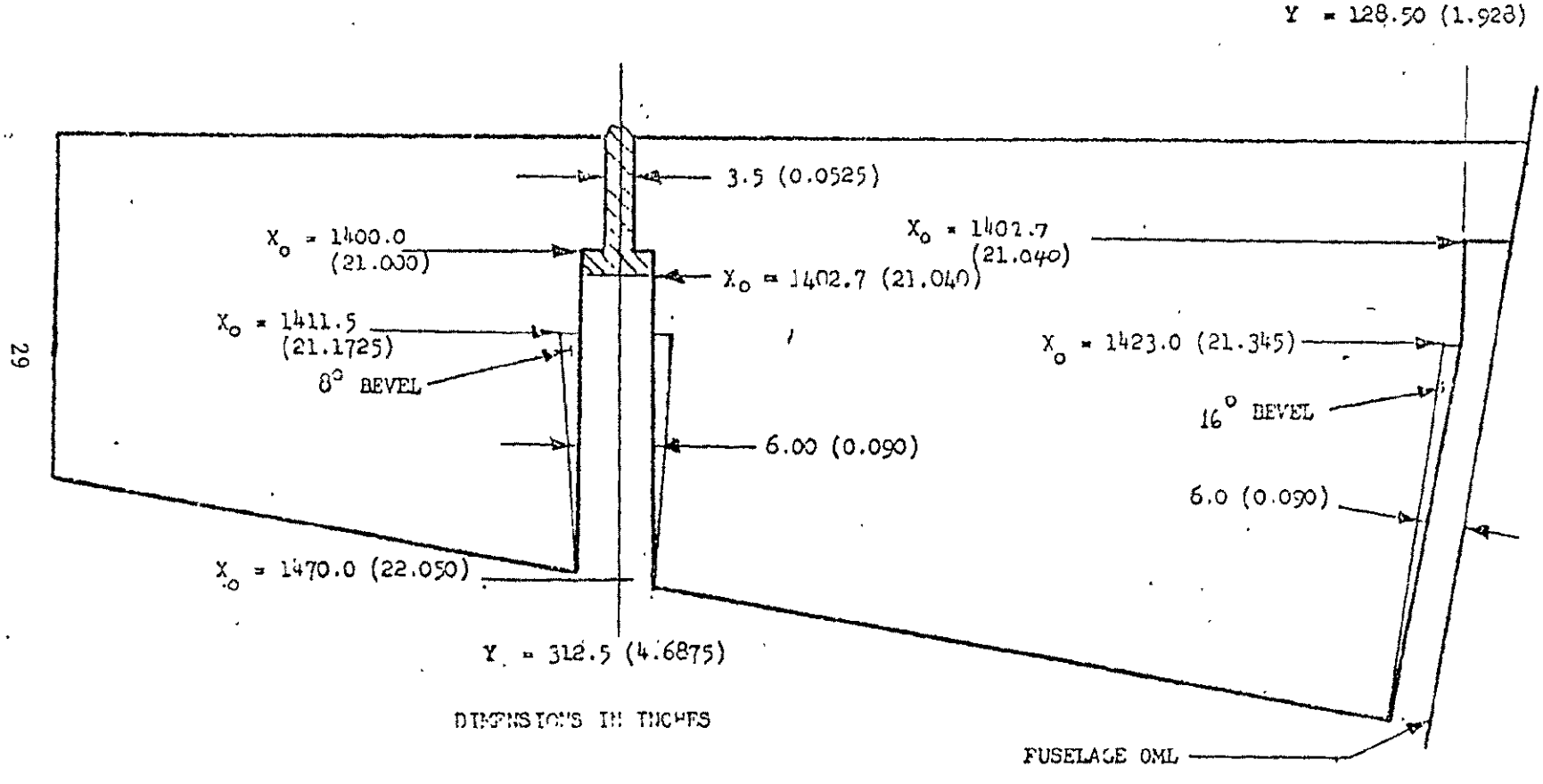


Figure 1. Axis systems.



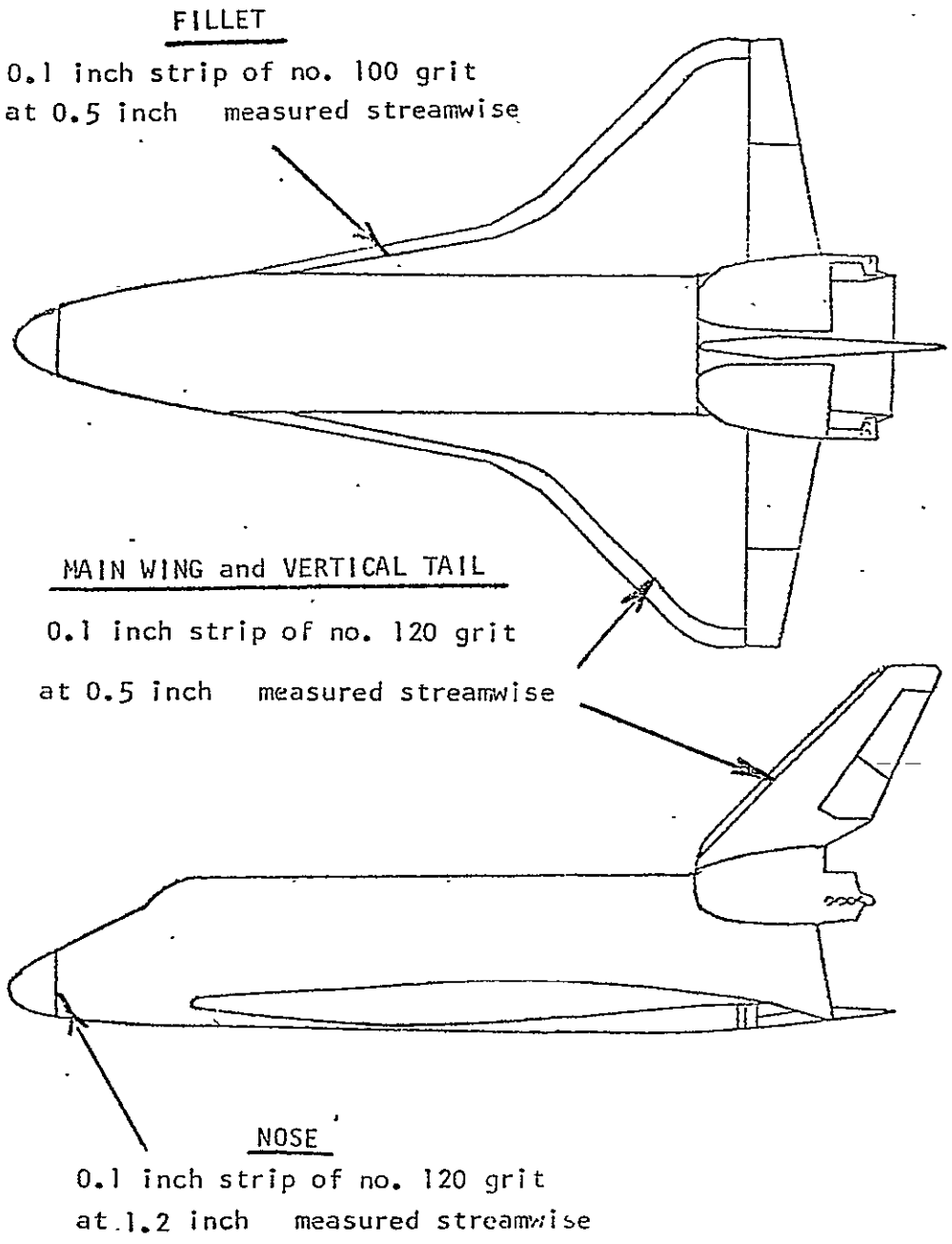
a. SSV Orbiter Configuration

Figure 2. - Model sketches.

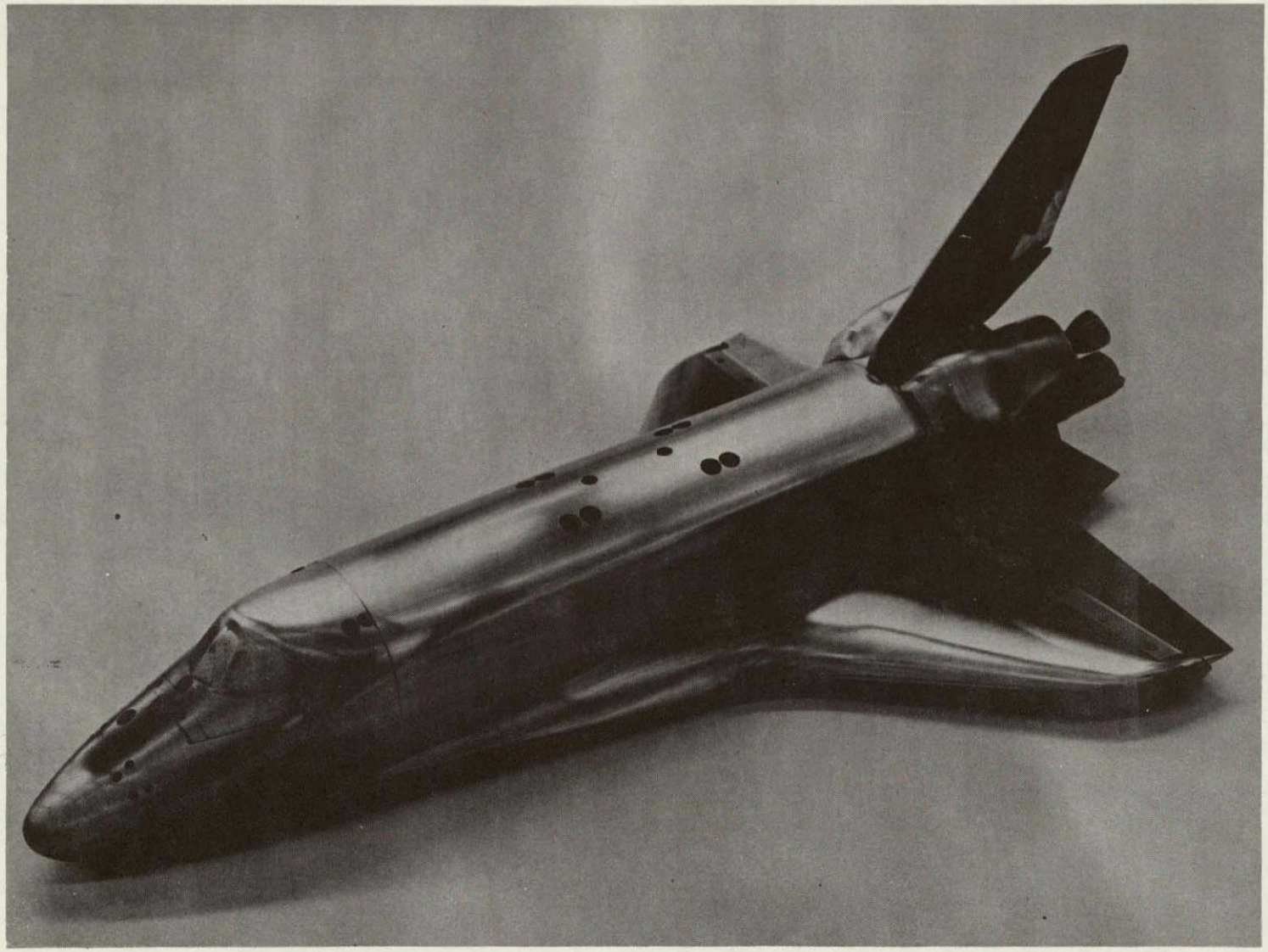


b. Slotted Elevon E_{43} (6-inch gap)

Figure 2. - Continued.



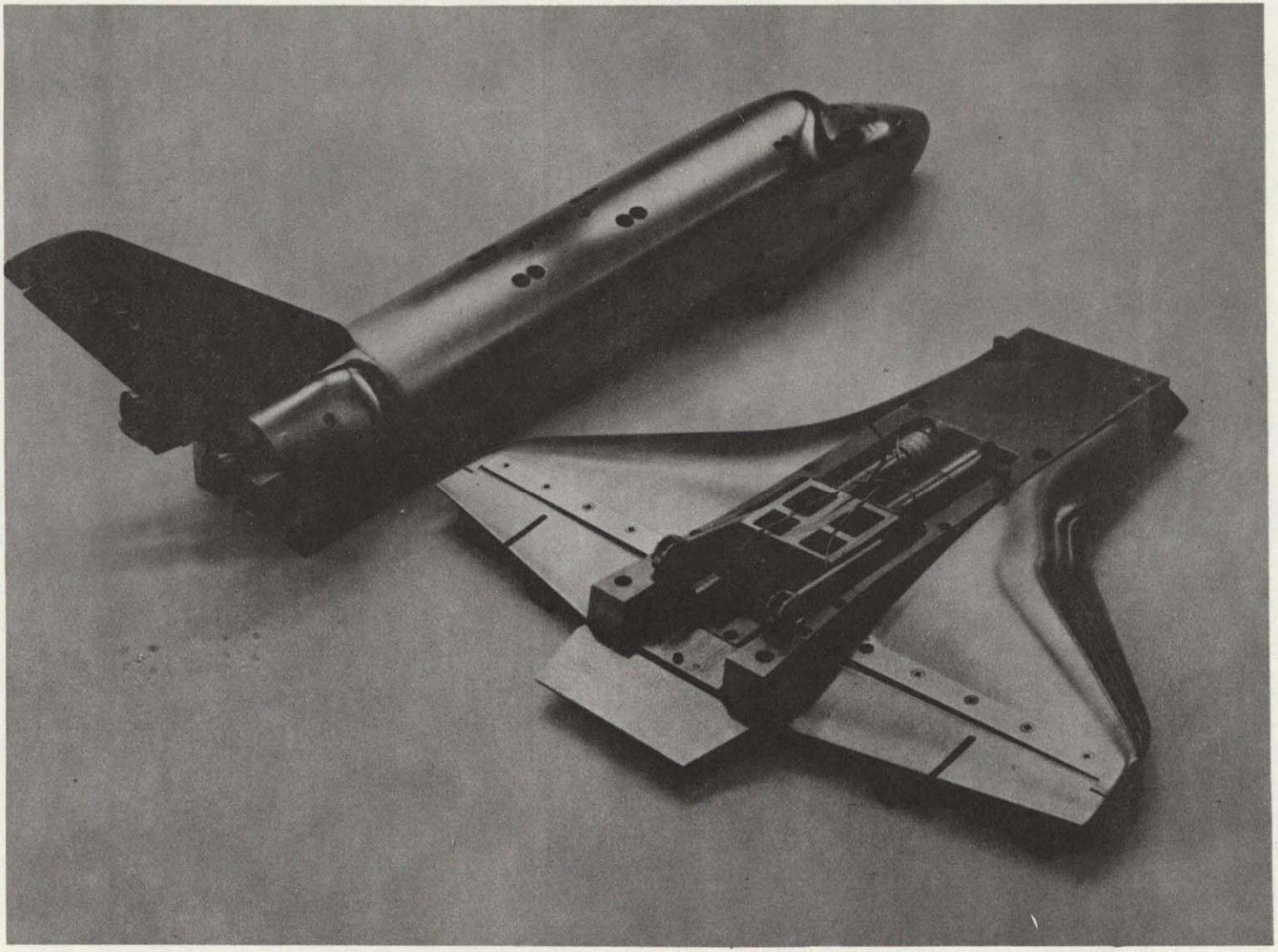
c. Position of Transition Grit Used In Investigation
Figure 2. Concluded.



a. Orbiter Configuration, Front, 3/4 View

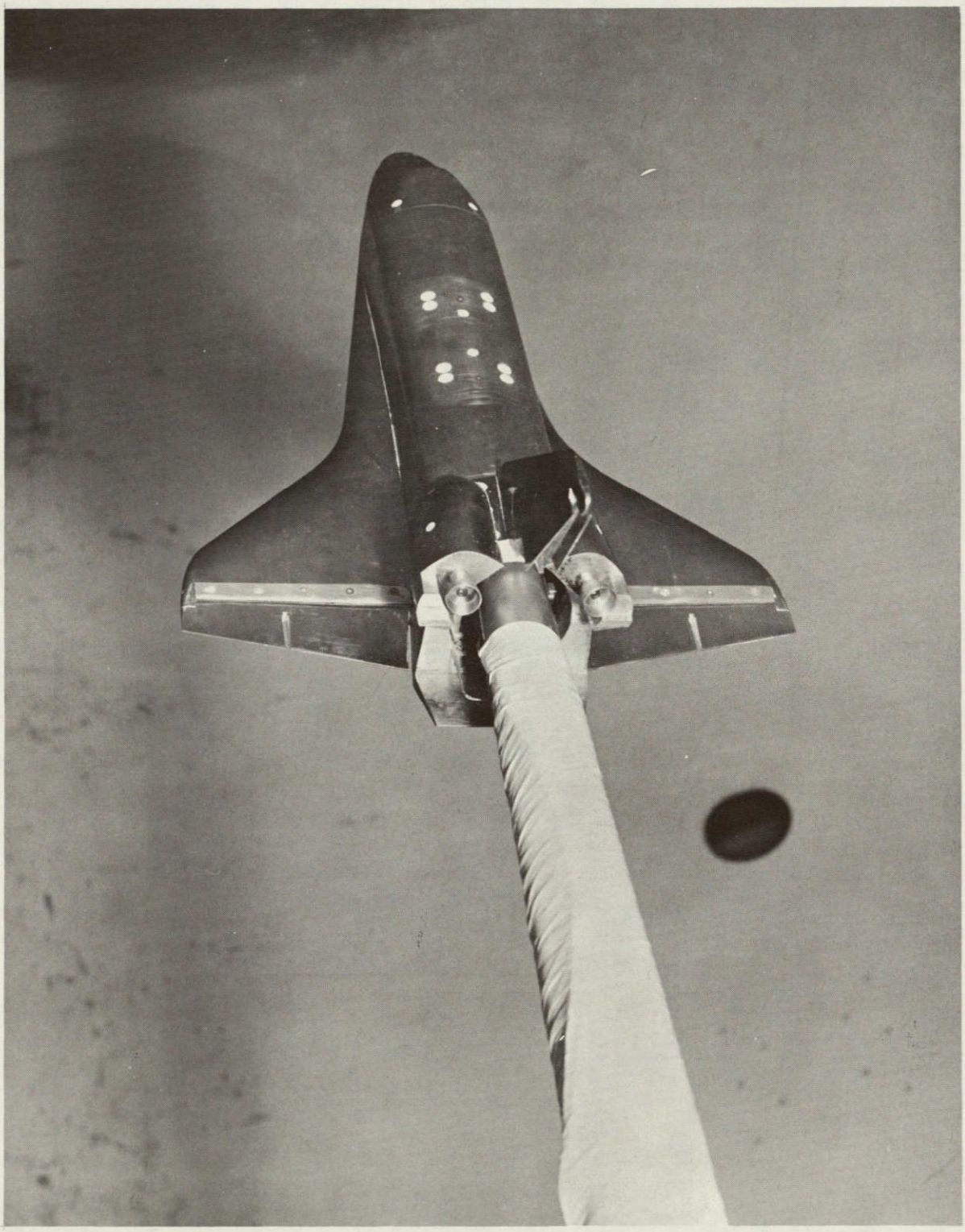
Figure 3. Model Photographs

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR



b. Orbiter Configuration, Rear, 3/4 View

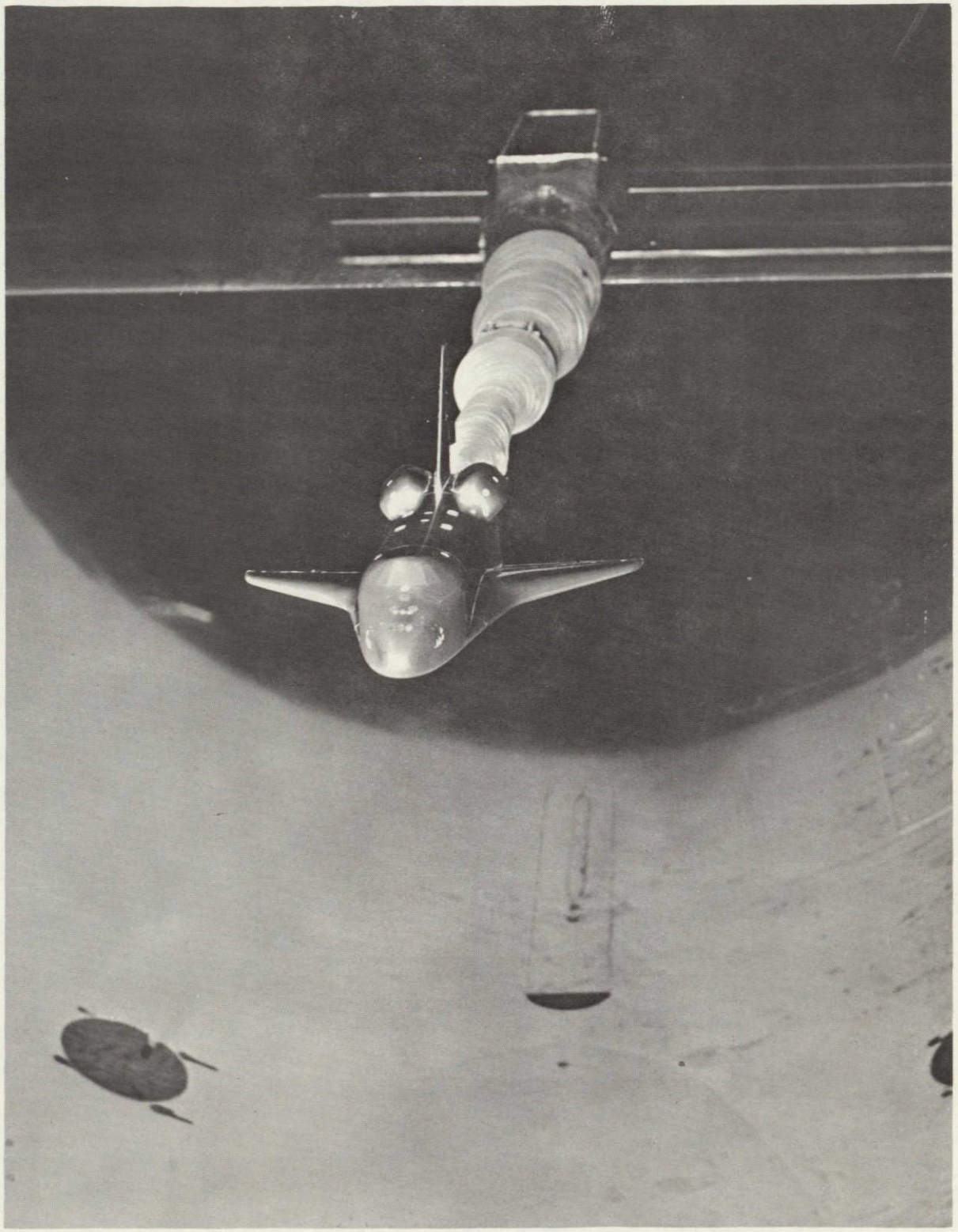
Figure 3. Concluded.



c. Model Installation Photograph, Rear, 3/4 View

Figure 3. Continued.

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR



d. Model Installation Photograph, Front, 3/4 View

Figure 3. Concluded.

DATA FIGURES

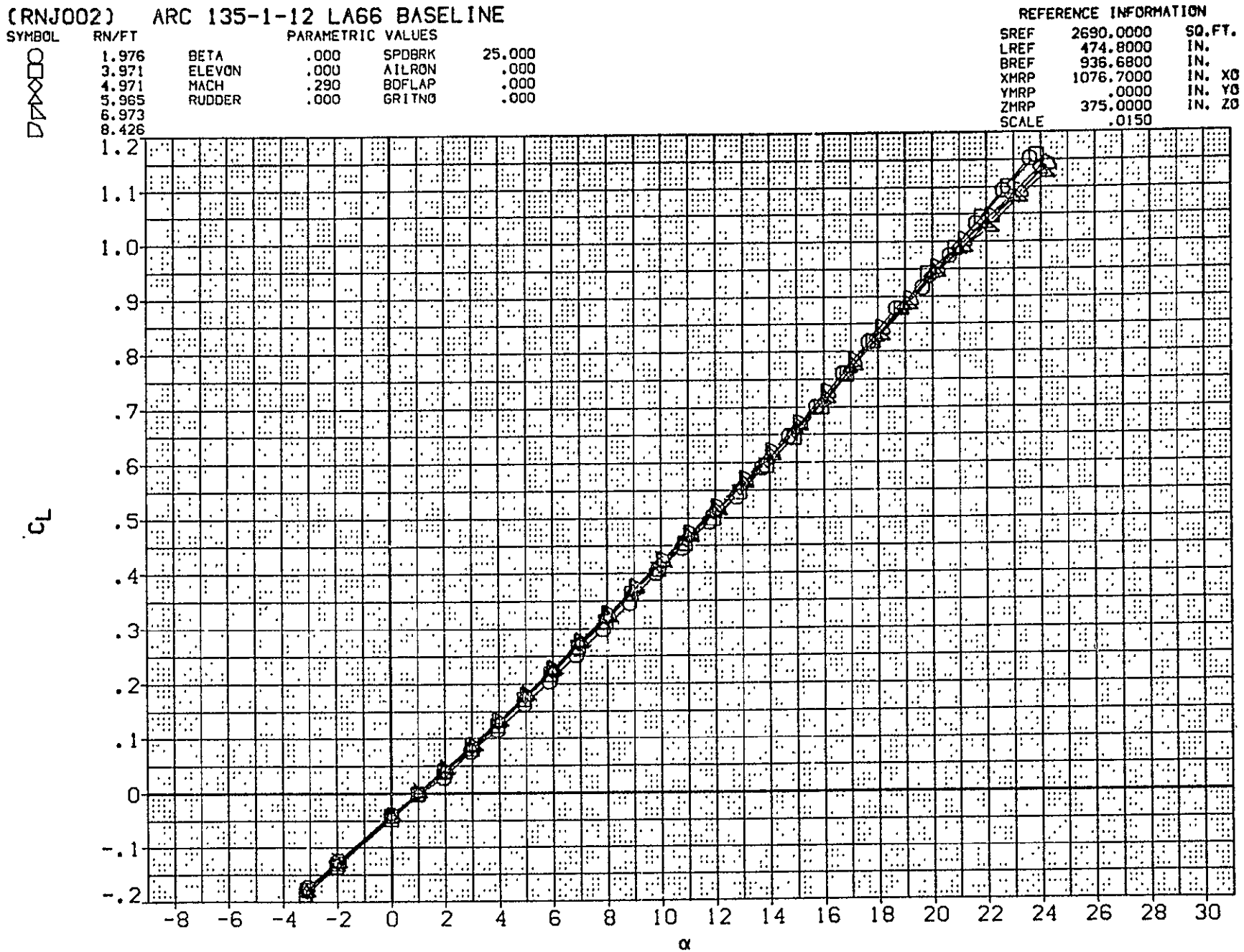


FIGURE 4. EFFECTS OF REYNOLDS NUMBER. ELEVON=0. BETA=0

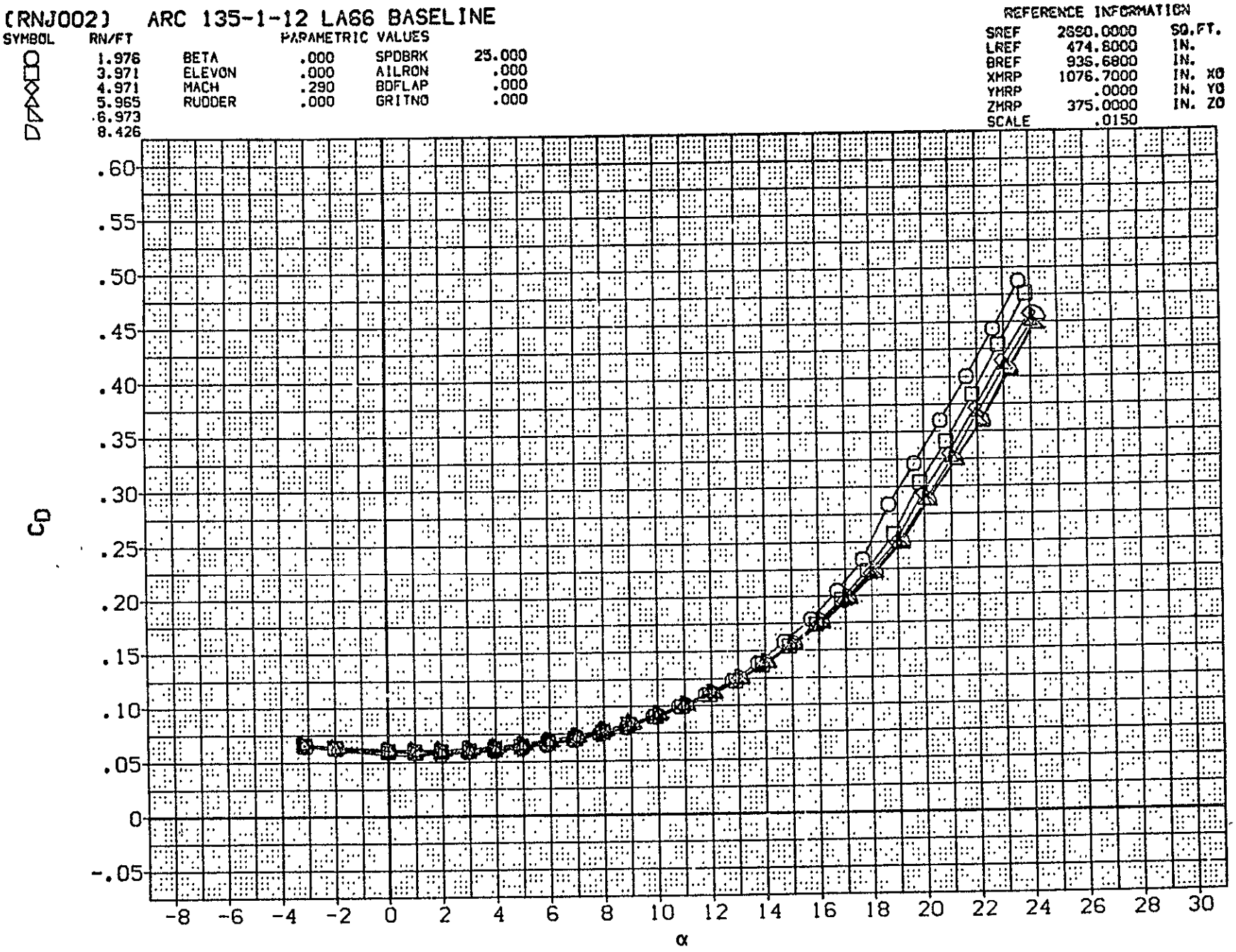


FIGURE 4. EFFECTS OF REYNOLDS NUMBER, ELEVON=0, BETA=0

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

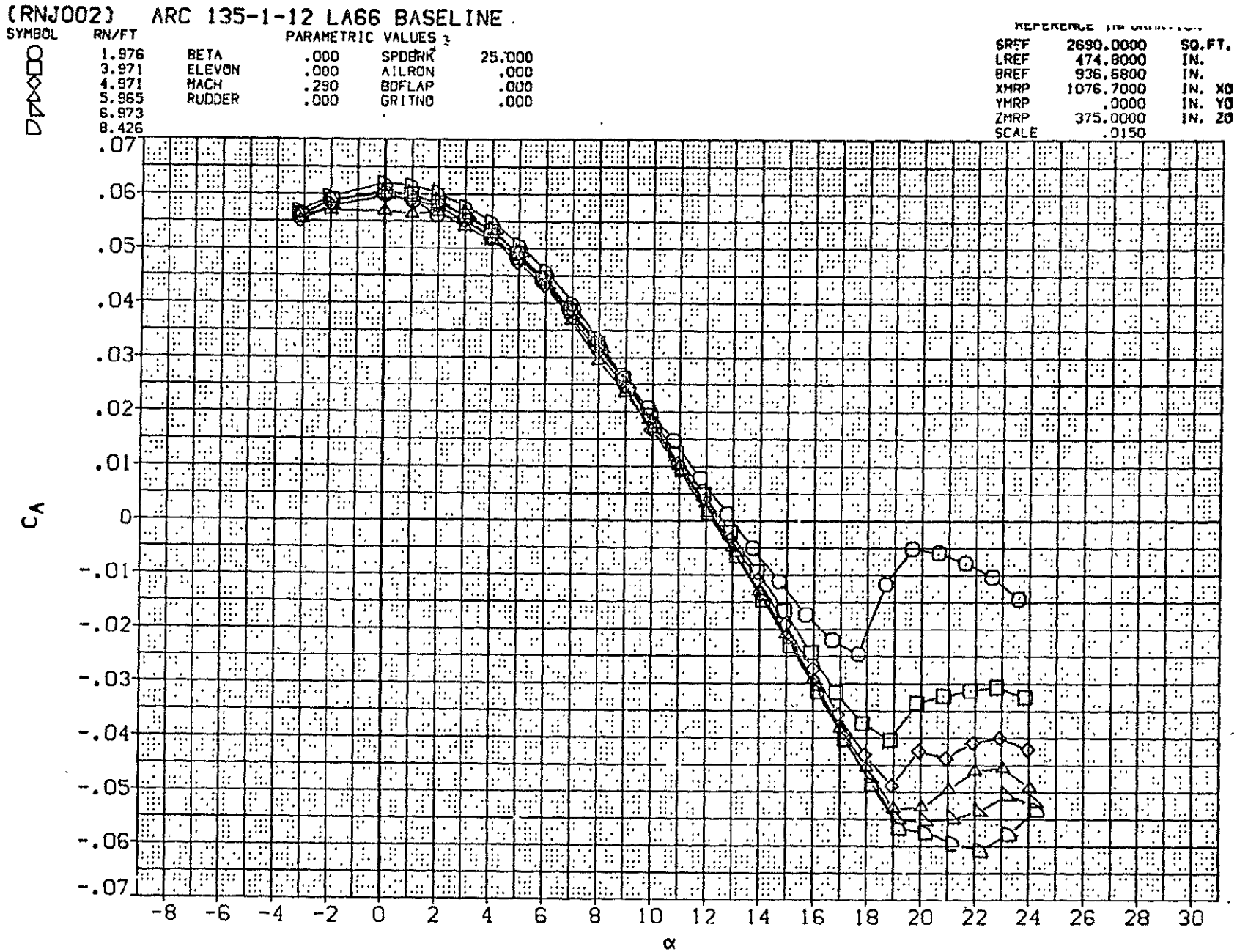


FIGURE 4. EFFECTS OF REYNOLDS NUMBER, ELEVON=0, BETA=0

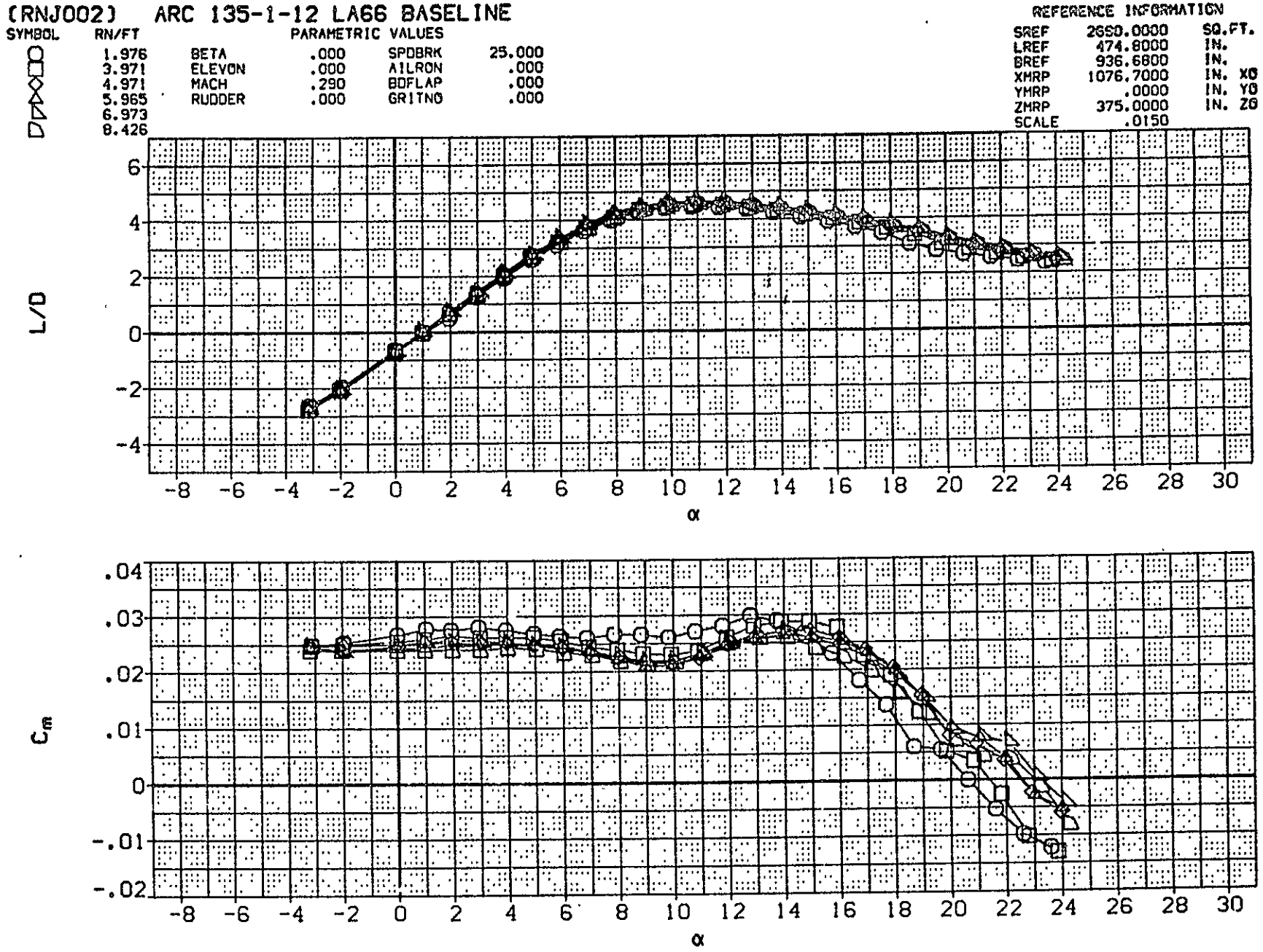


FIGURE 4. EFFECTS OF REYNOLDS NUMBER, ELEVON=0, BETA=0

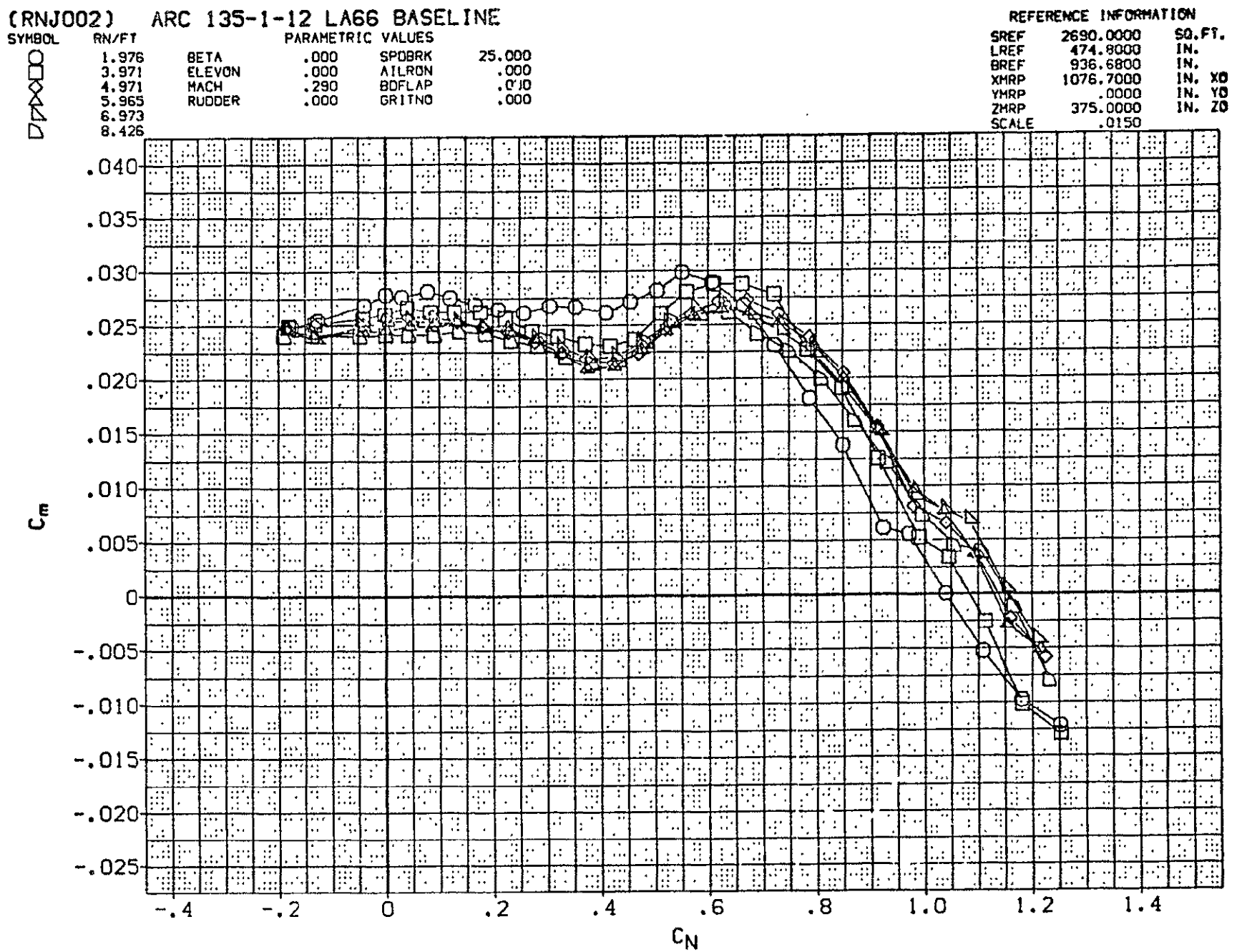


FIGURE 4. EFFECTS OF REYNOLDS NUMBER. ELEVON=0. BETA=0

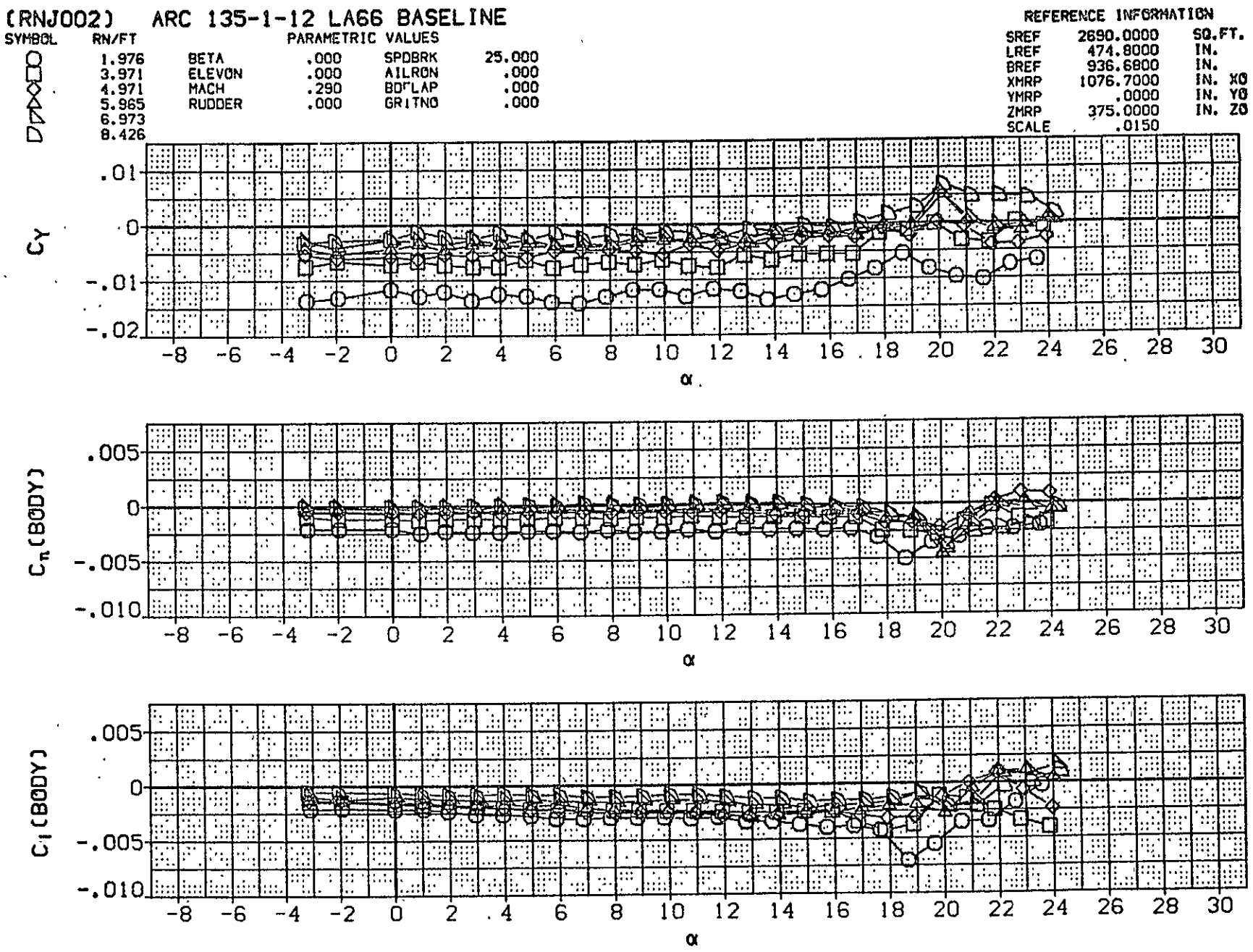


FIGURE 4. EFFECTS OF REYNOLDS NUMBER, ELEVON=0, BETA=0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RNJA03)	○	ARC 135-1-12 LA66 BASELINE
(RNJB03)	□	ARC 135-1-12 LA66 BASELINE
(RNJC03)	◇	ARC 135-1-12 LA66 BASELINE
(RNJA01)	△	ARC 135-1-12 LA66 BASELINE
(RNJB01)	▽	ARC 135-1-12 LA66 BASELINE
(RNJC01)	⬠	ARC 135-1-12 LA66 BASELINE

RN/FT	BETA	AILRON	ELEVON
5.989	4.000	.000	.000
6.928	4.000	.000	.000
8.448	4.000	.000	.000
5.984	-4.000	.000	.000
6.912	-4.000	.000	.000
8.477	-4.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

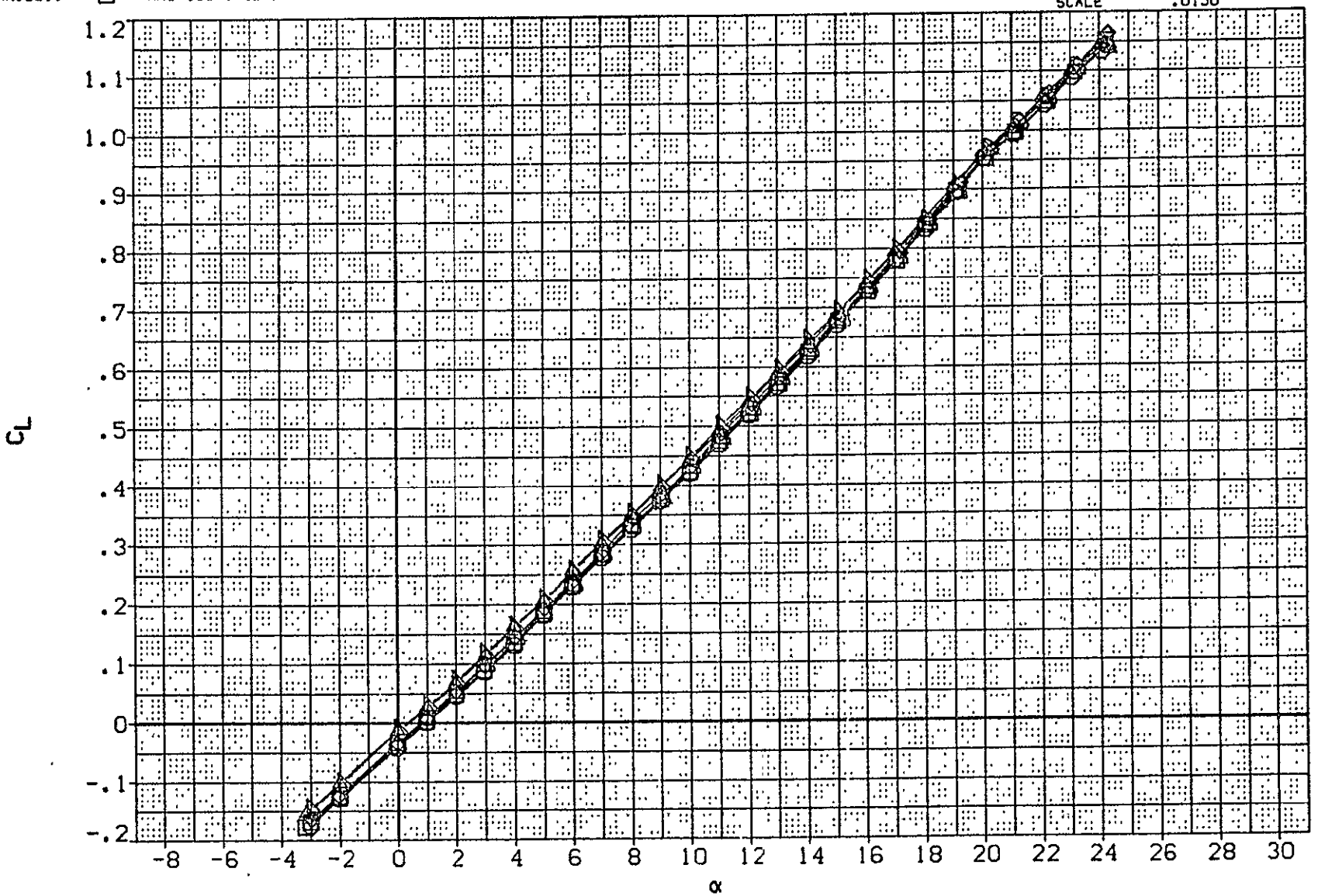


FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	BETA	AILRON	ELEVON
(RNJA03)	□	ARC 135-1-12 LA66 BASELINE	5.989	4.000	.000	.000
(RNJB03)	◇	ARC 135-1-12 LA66 BASELINE	6.928	4.000	.000	.000
(RNJC03)	△	ARC 135-1-12 LA66 BASELINE	8.448	4.000	.000	.000
(RNJA01)	▽	ARC 135-1-12 LA66 BASELINE	5.984	-4.000	.000	.000
(RNJB01)	◁	ARC 135-1-12 LA66 BASELINE	6.912	-4.000	.000	.000
(RNJC01)	▷	ARC 135-1-12 LA66 BASELINE	8.477	-4.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XB
YMRP	.0000	IN. YB
ZMRP	375.0000	IN. ZB
SCALE	.0150	

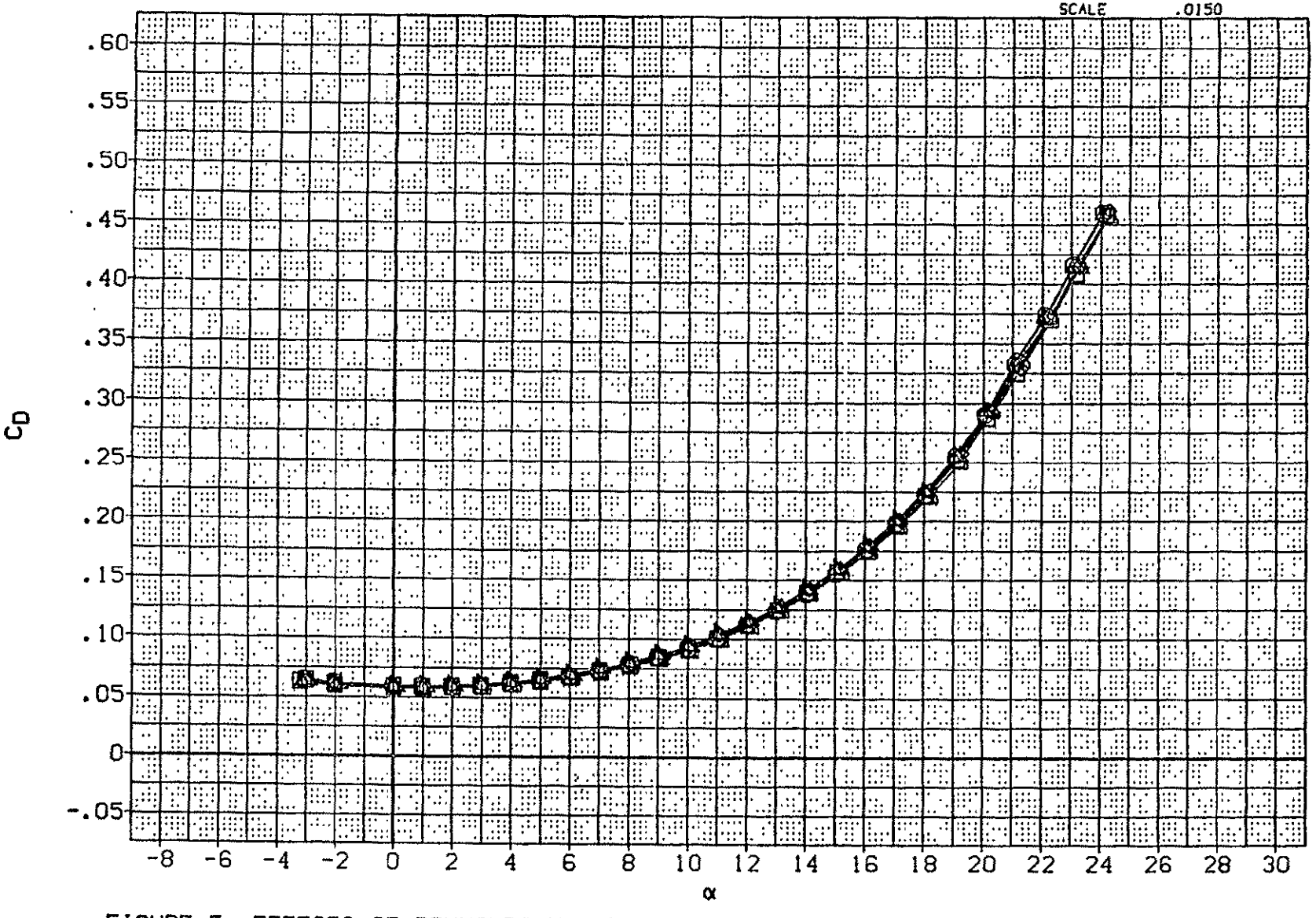


FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	BETA	AILRON	ELEVON
(RNJA03)	□	ARC 135-1-12 LA66 BASELINE	5.989	4.000	.000	.000
(RNJB03)	◇	ARC 135-1-12 LA66 BASELINE	6.928	4.000	.000	.000
(RNJC03)	△	ARC 135-1-12 LA66 BASELINE	8.448	4.000	.000	.000
(RNJA01)	○	ARC 135-1-12 LA66 BASELINE	5.984	-4.000	.000	.000
(RNJB01)	◇	ARC 135-1-12 LA66 BASELINE	6.912	-4.000	.000	.000
(RNJC01)	△	ARC 135-1-12 LA66 BASELINE	8.477	-4.000	.000	.000

REFERENCE INFORMATION		
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BREF	936.6800	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

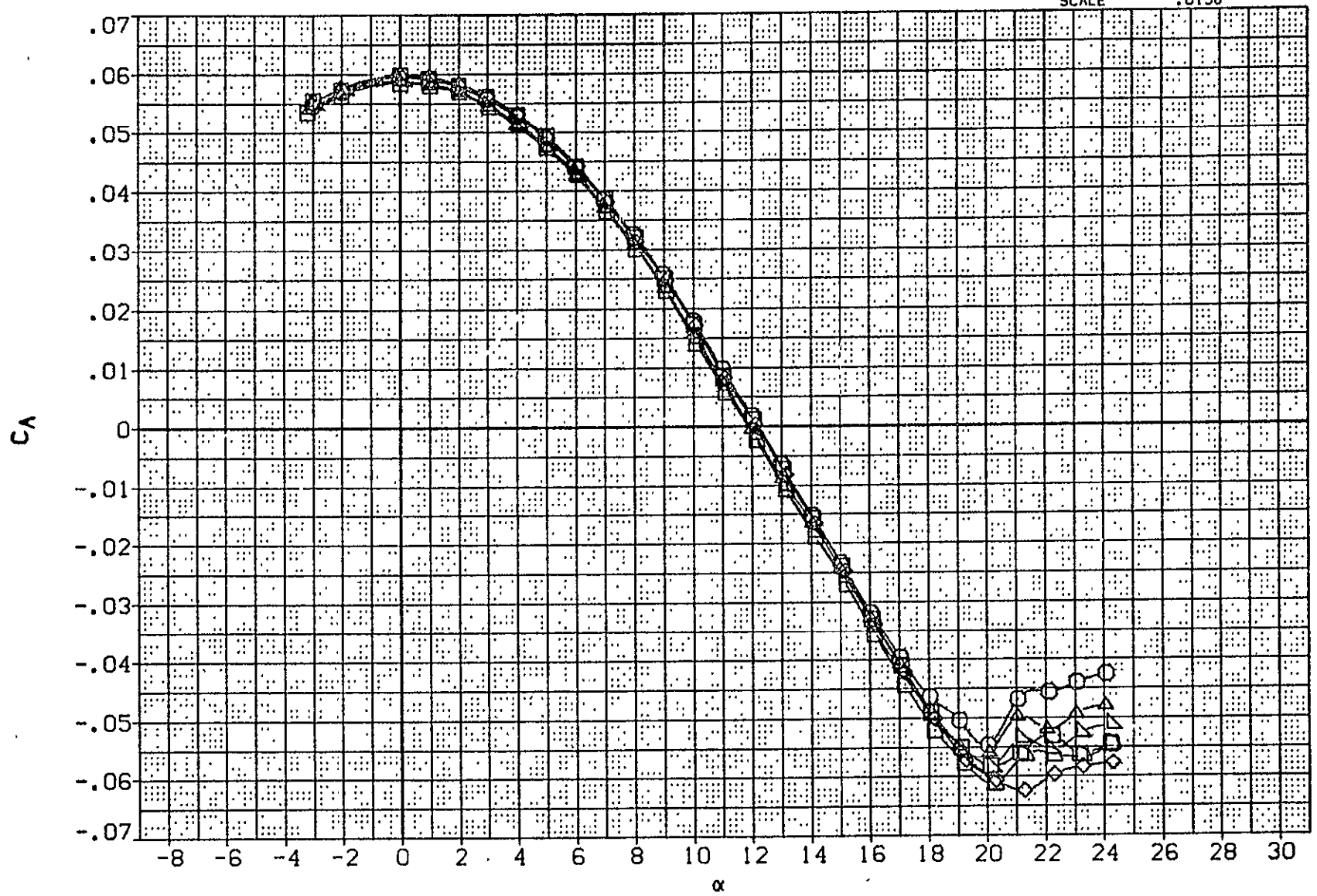

FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	BETA	AILRON	ELEVON
(RNJA03)	□	ARC 135-1-12 LA66 BASELINE	5.989	4.000	.000	.000
(RNJB03)	◇	ARC 135-1-12 LA66 BASELINE	6.928	4.000	.000	.000
(RNJC03)	△	ARC 135-1-12 LA66 BASELINE	8.448	4.000	.000	.000
(RNJA01)	□	ARC 135-1-12 LA66 BASELINE	5.984	-4.000	.000	.000
(RNJB01)	◇	ARC 135-1-12 LA66 BASELINE	6.912	-4.000	.000	.000
(RNJC01)	△	ARC 135-1-12 LA66 BASELINE	8.477	-4.000	.000	.000

REFERENCE INFORMATION		
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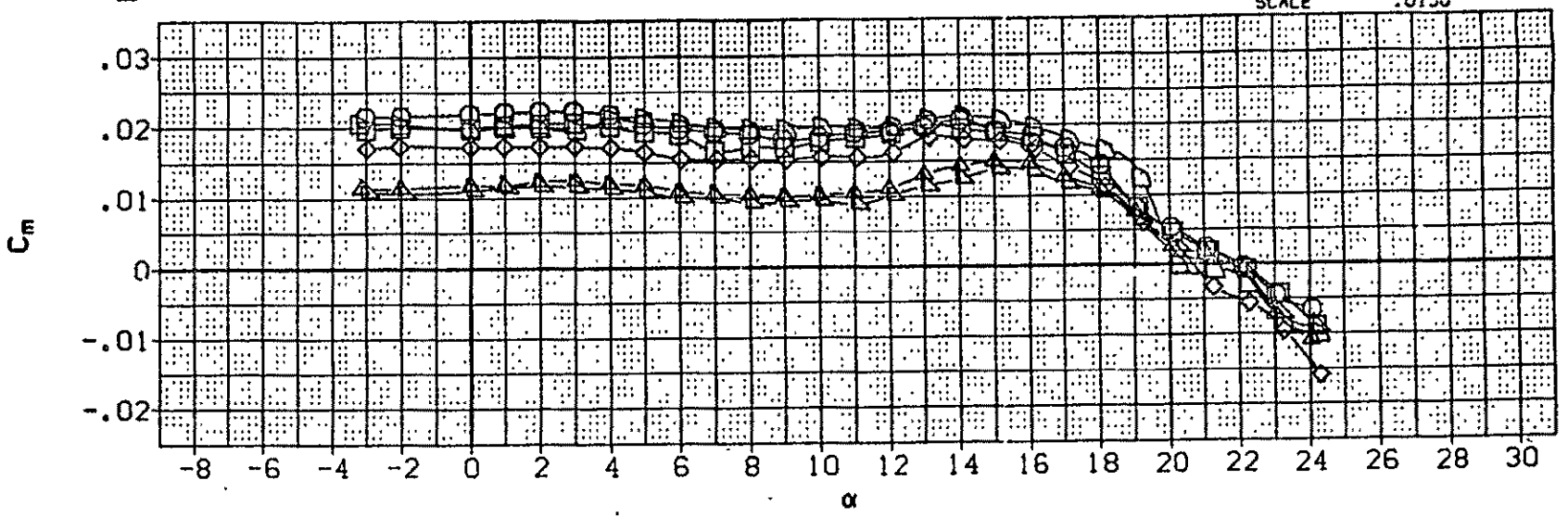
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	



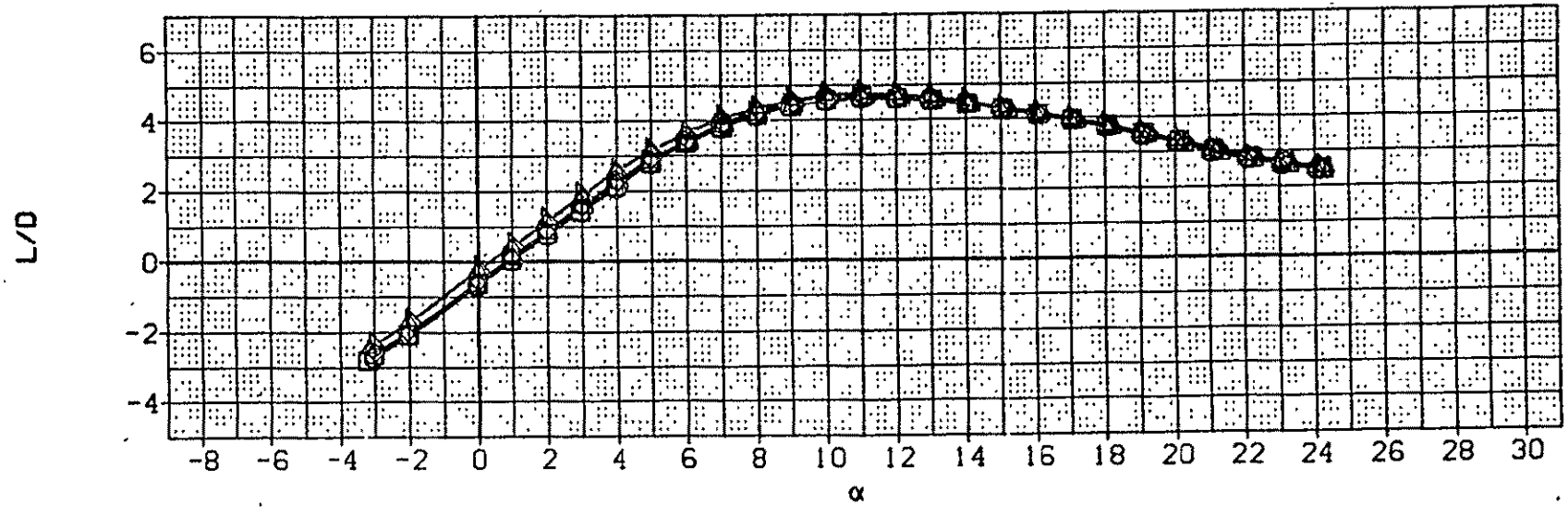


FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RNJA03)	○	ARC 135-1-12 LA66 BASELINE
(RNJB03)	□	ARC 135-1-12 LA66 BASELINE
(RNJC03)	◇	ARC 135-1-12 LA66 BASELINE
(RNJA01)	△	ARC 135-1-12 LA66 BASELINE
(RNJB01)	▷	ARC 135-1-12 LA66 BASELINE
(RNJC01)	D	ARC 135-1-12 LA66 BASELINE

RN/FT	BETA	AILRON	ELEVON
5.989	4.000	.000	.000
6.928	4.000	.000	.000
8.448	4.000	.000	.000
5.984	-4.000	.000	.000
6.912	-4.000	.000	.000
8.477	-4.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

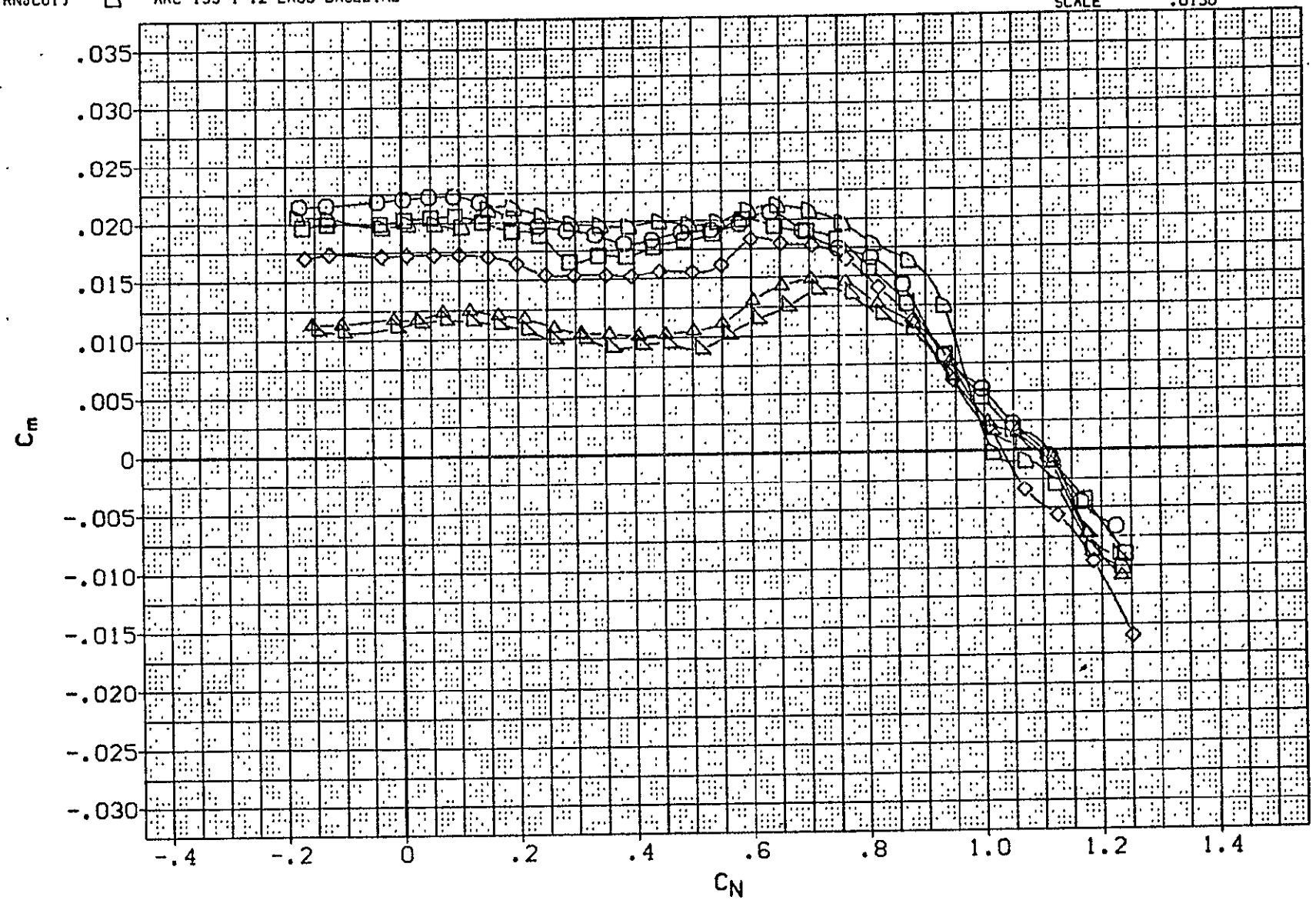

FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RNJA03)	○	ARC 135-1-12 LA66 BASELINE
(RNJB03)	□	ARC 135-1-12 LA66 BASELINE
(RNJC03)	◇	ARC 135-1-12 LA66 BASELINE
(RNJA01)	△	ARC 135-1-12 LA66 BASELINE
(RNJB01)	▽	ARC 135-1-12 LA66 BASELINE
(RNJC01)	▷	ARC 135-1-12 LA66 BASELINE

RN/FT	BETA	AILRON	ELEVON
5.989	4.000	.000	.000
6.928	4.000	.000	.000
8.448	4.000	.000	.000
5.984	-4.000	.000	.000
6.912	-4.000	.000	.000
8.477	-4.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
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BREF	936.6800	IN.
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YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0150	

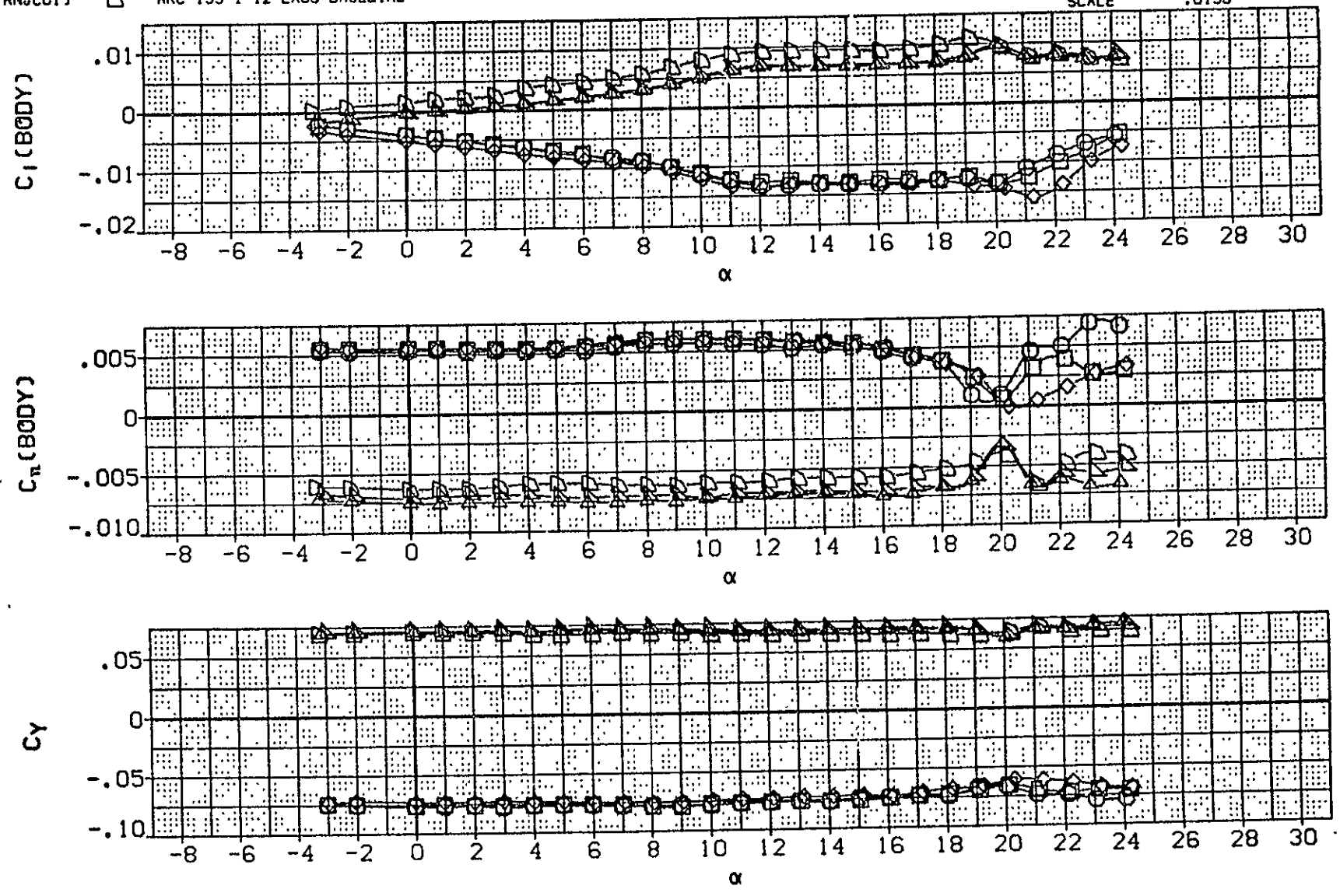


FIGURE 5. EFFECTS OF REYNOLDS NUMBER AT SIDESLIP

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE

ELEVON	AILRON	MACH
5.000	.000	.290
.000	.000	.290
-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

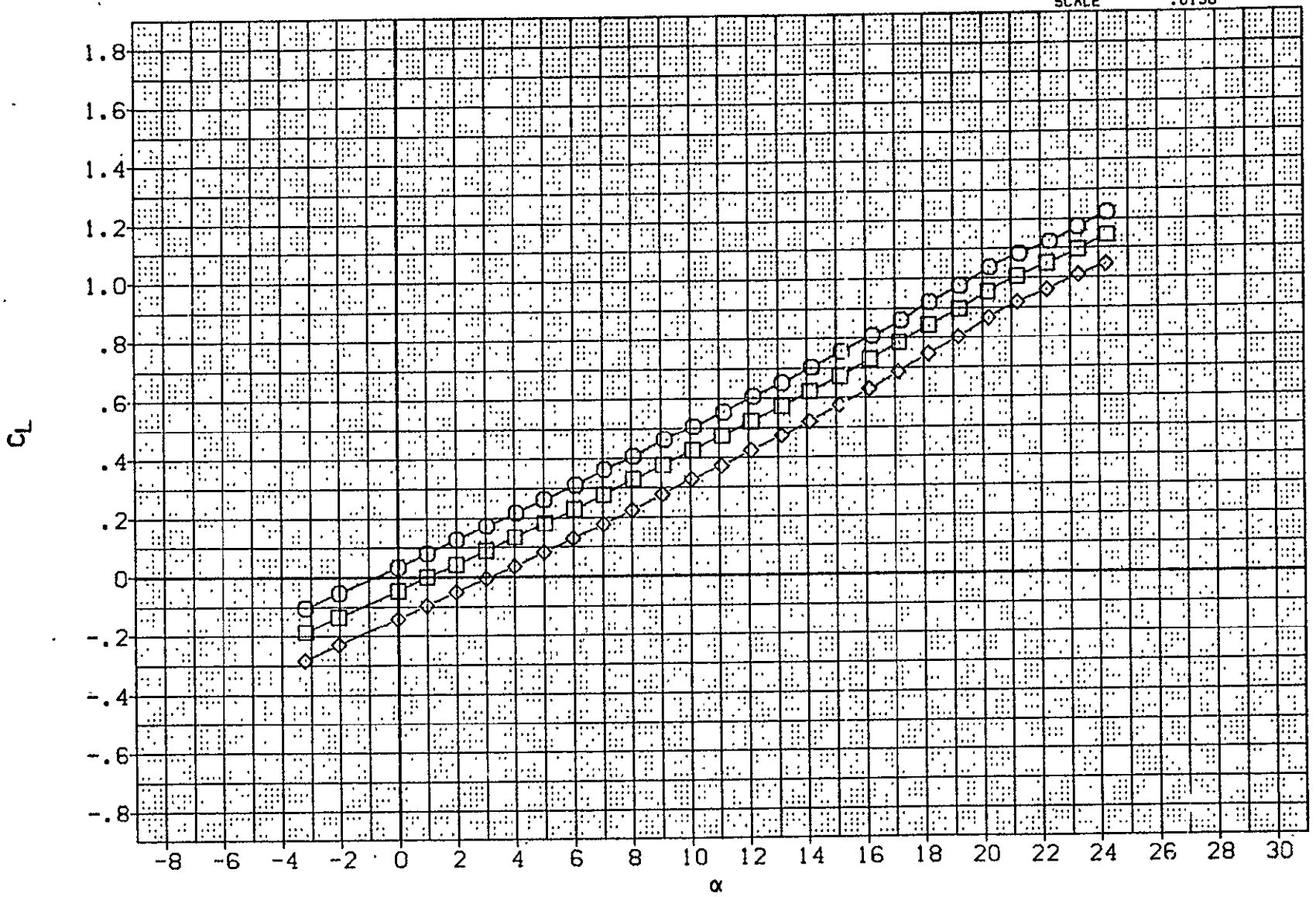


FIGURE 6. EFFECTS OF ELEVON DEFLECTION, BETA=0, RN/L=8.5

(A)RN/FT = 8.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	MACH
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE	5.000	.000	.290
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE	.000	.000	.290
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE	-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

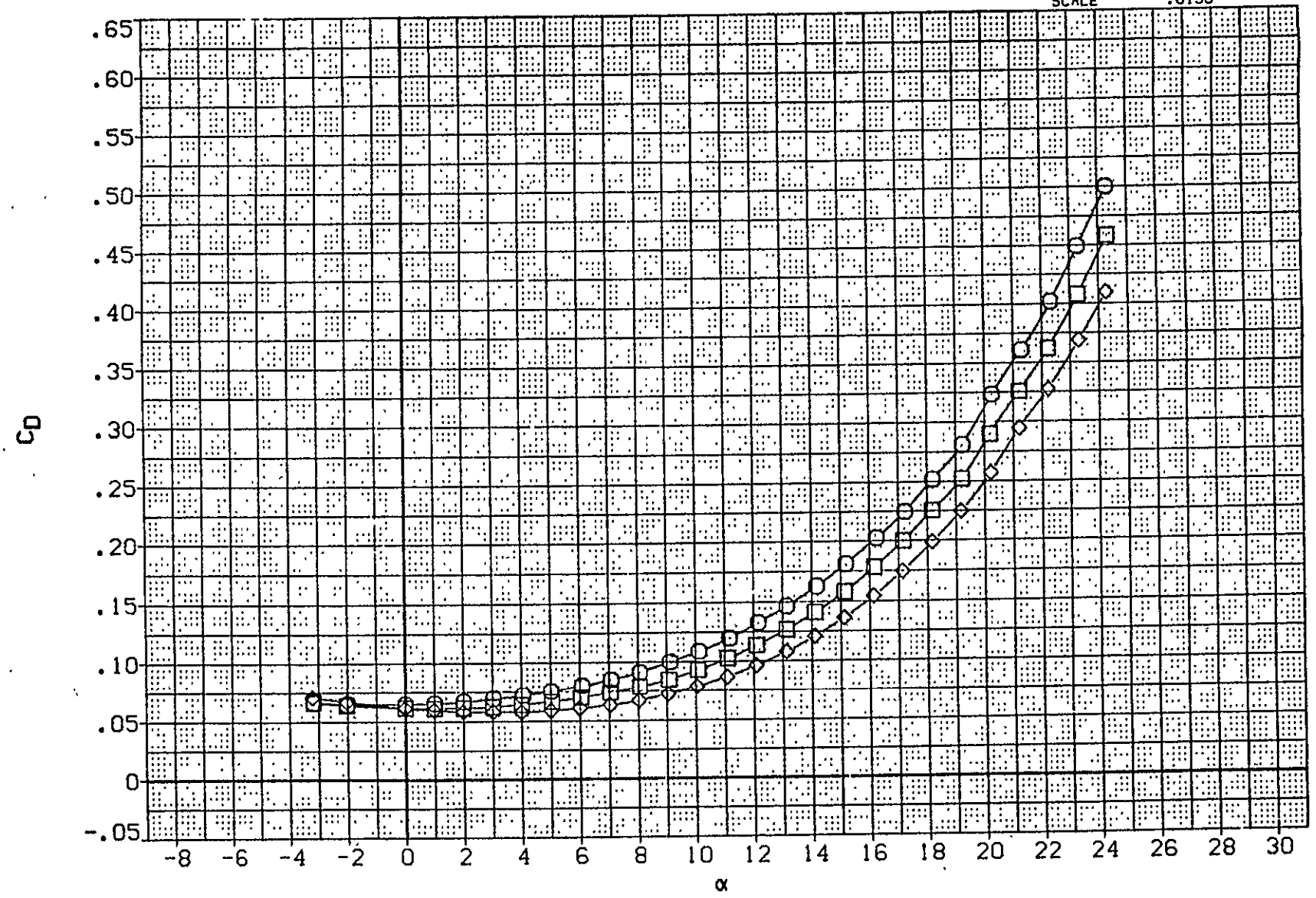


FIGURE 6. EFFECTS OF ELEVON DEFLECTION, BETA=0, RN/L=8.5

(A)RN/FT = 8.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	MACH
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE	5.000	.000	.290
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE	.000	.000	.290
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE	-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

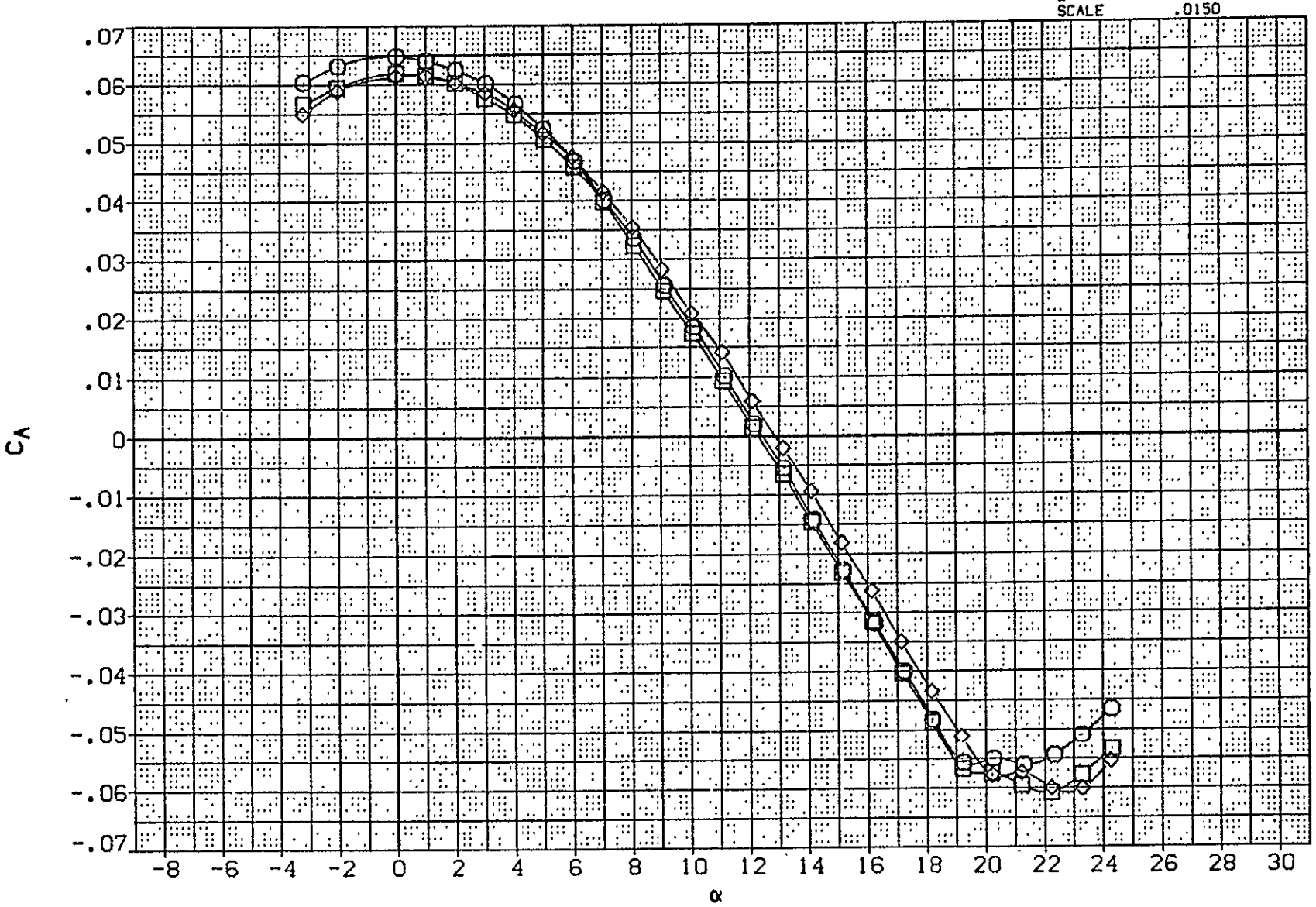


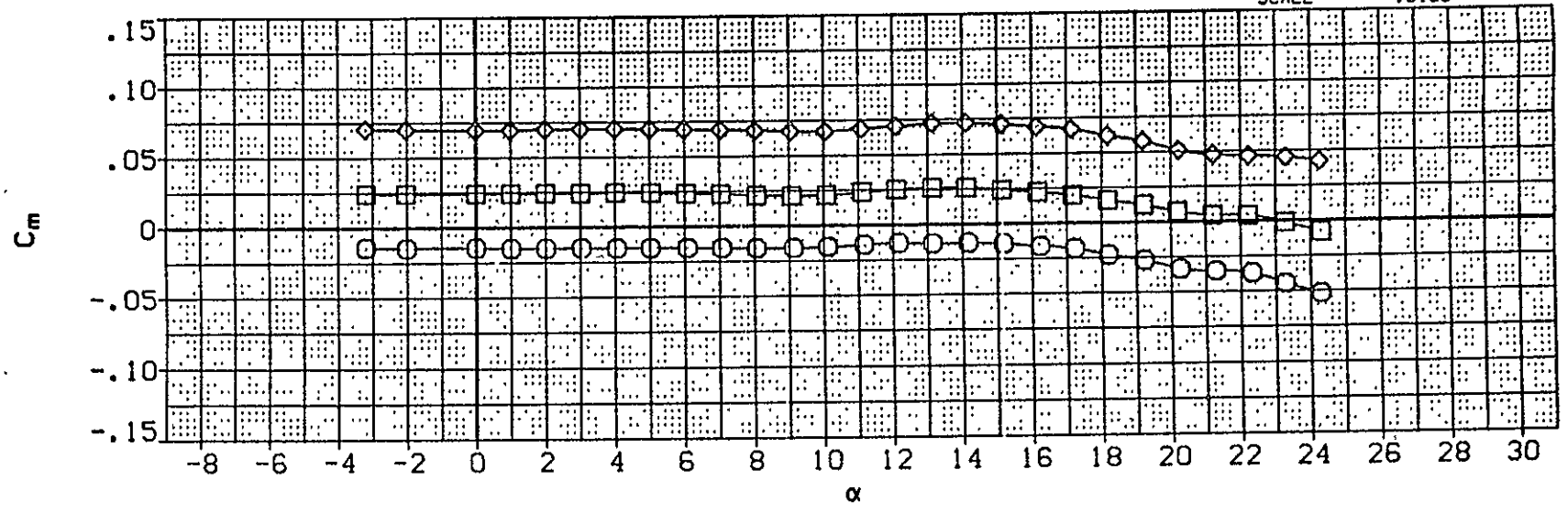
FIGURE 6. EFFECTS OF ELEVON DEFLECTION, BETA=0, RN/L=8.5

(A)RN/FT = 8.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	MACH
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE	5.000	.000	.290
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE	.000	.000	.290
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE	-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	



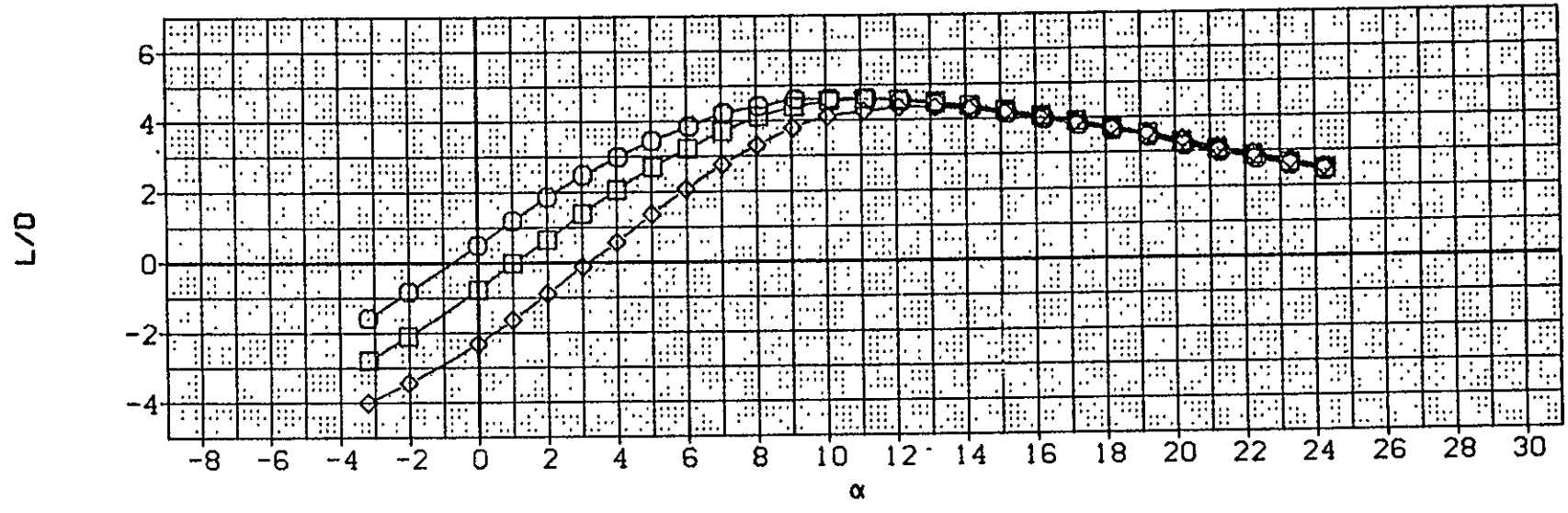


FIGURE 6. EFFECTS OF ELEVON DEFLECTION. BETA=0. RN/L=8.5

(A)RN/FT = 8.50

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	MACH
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE	5.000	.000	.290
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE	.000	.000	.290
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE	-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

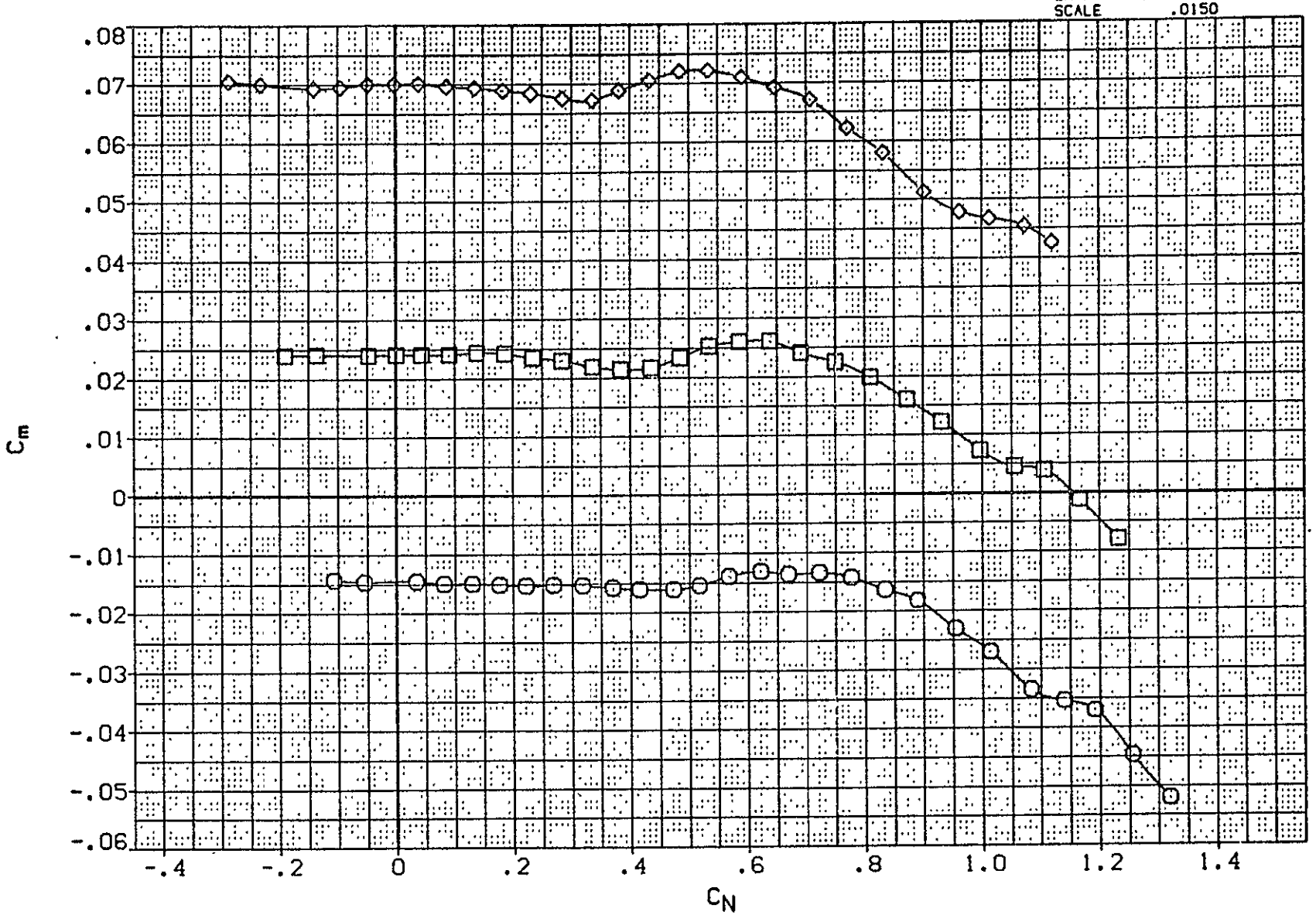


FIGURE 6. EFFECTS OF ELEVON DEFLECTION, BETA=0, RN/L=8.5

(A)RN/FT = 8.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	MACH
(RNJ008)	○	ARC 135-1-12 LA66 BASELINE	5.000	.000	.290
(RNJ002)	□	ARC 135-1-12 LA66 BASELINE	.000	.000	.290
(RNJ009)	◇	ARC 135-1-12 LA66 BASELINE	-5.000	.000	.290

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0150	

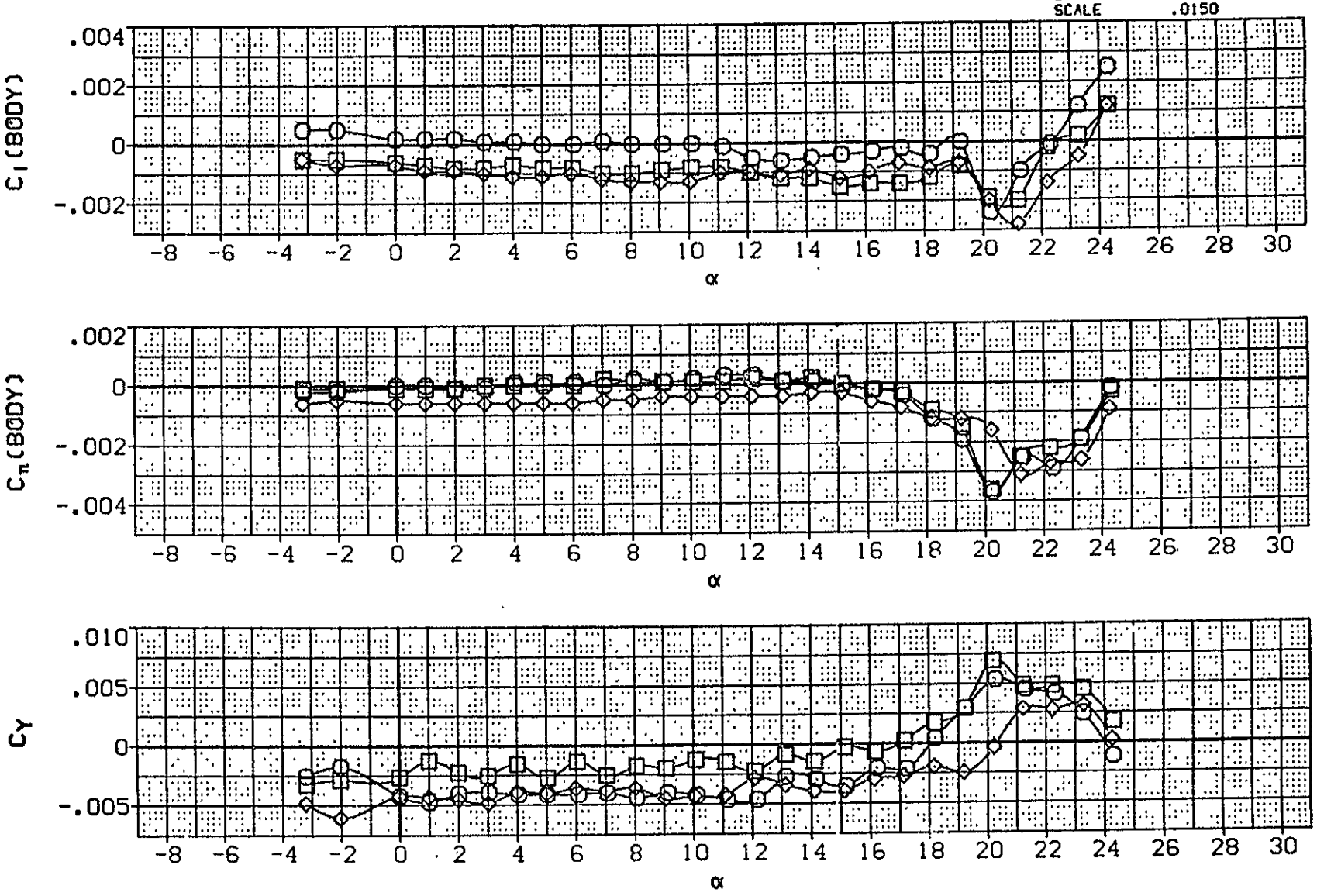


FIGURE 6. EFFECTS OF ELEVON DEFLECTION, BETA=0, RN/L=8.5

(A)RN/FT = 8.50

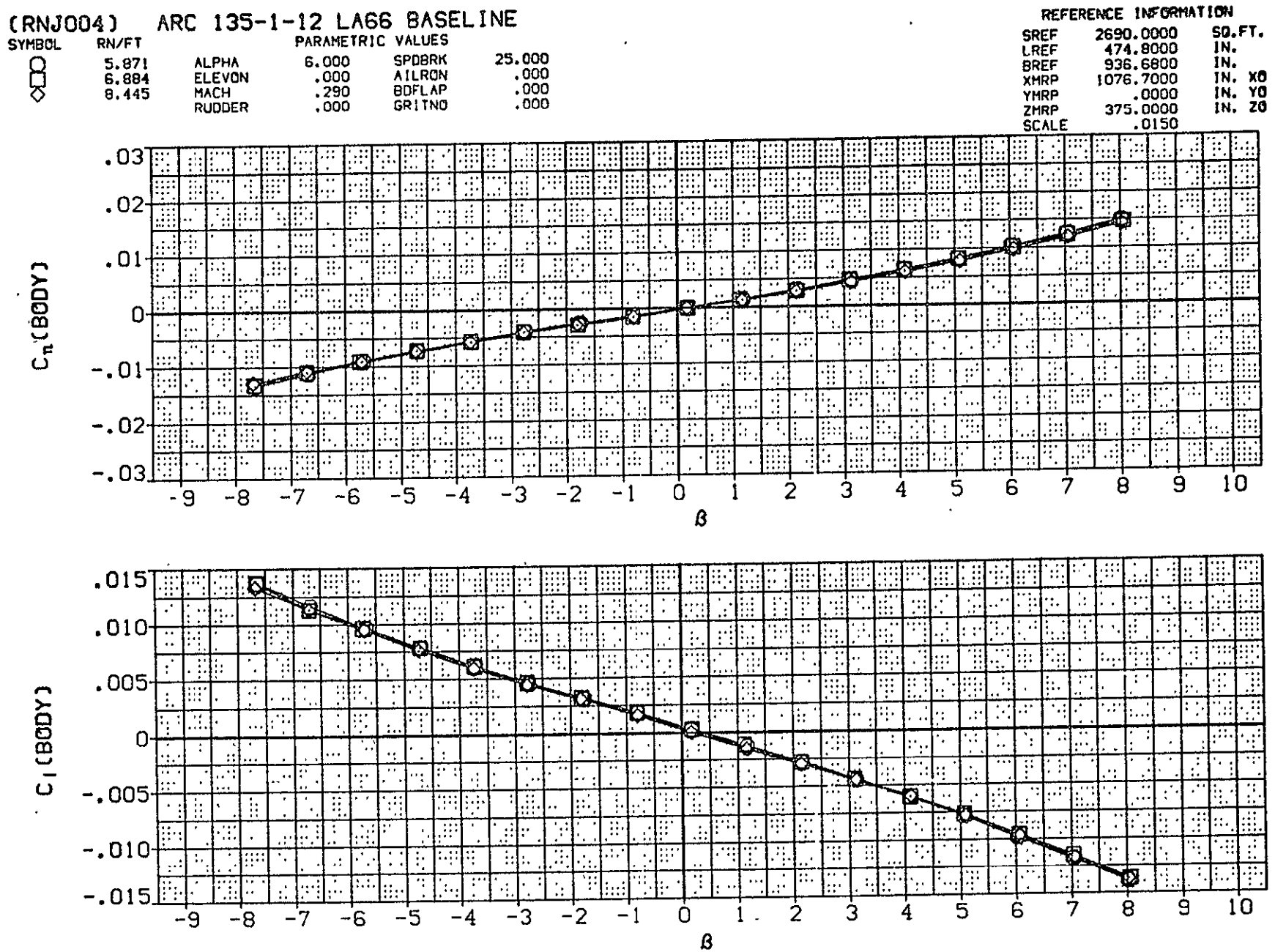


FIGURE 7(A). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA=6

(RNJ004) ARC 135-1-12 LA66 BASELINE

SYMBOL	RN/FT
○	5.871
□	6.884
◇	8.445

PARAMETRIC VALUES

ALPHA	6.000	SPDBRK	25.000
ELEVON	.000	AILRON	.000
MACH	.290	BDFLAP	.000
RUDDER	.000	GRITNO	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XG
YMRP	.0000	IN. YG
ZMRP	375.0000	IN. ZG
SCALE	.0150	

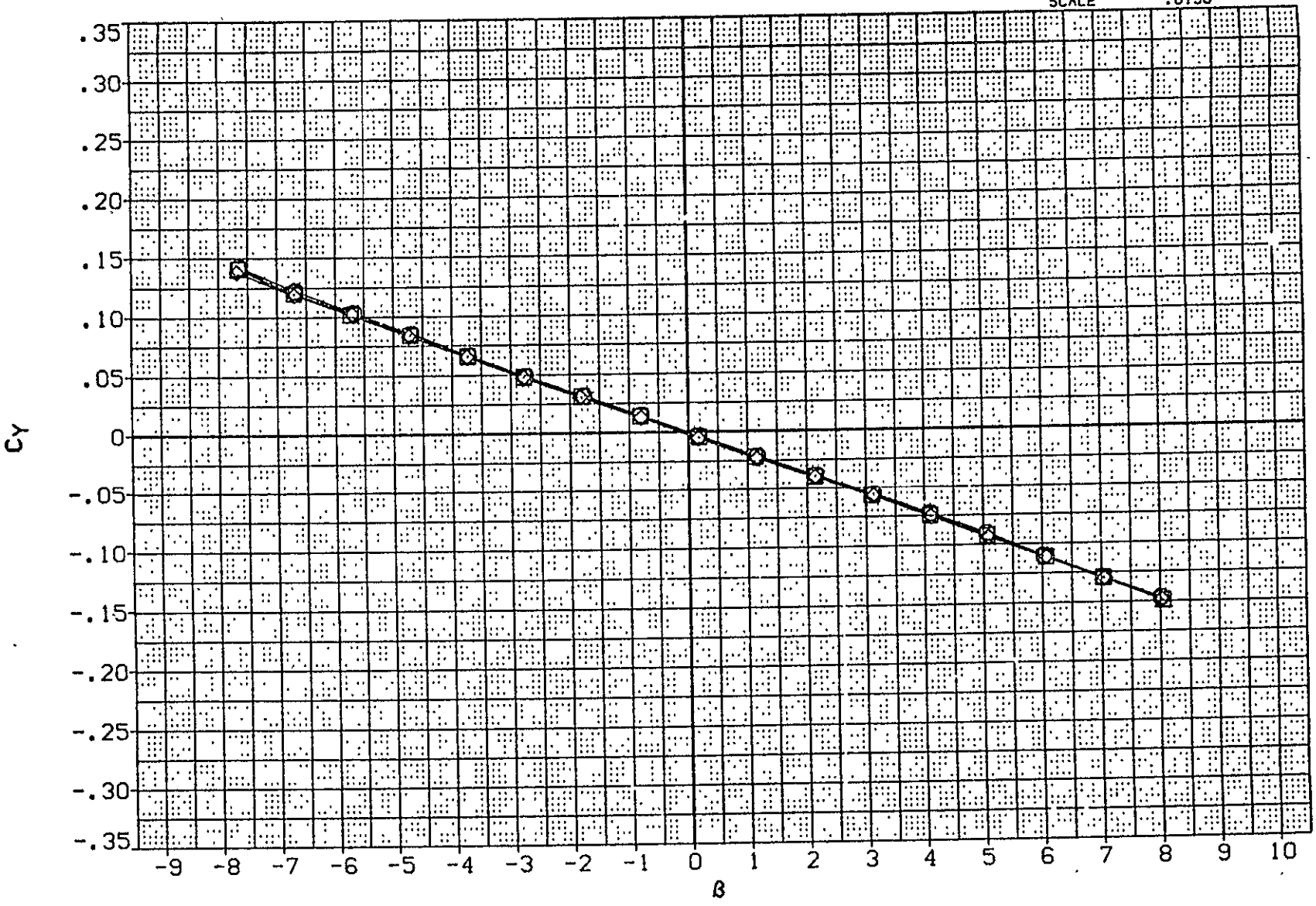


FIGURE 7(A). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA=6

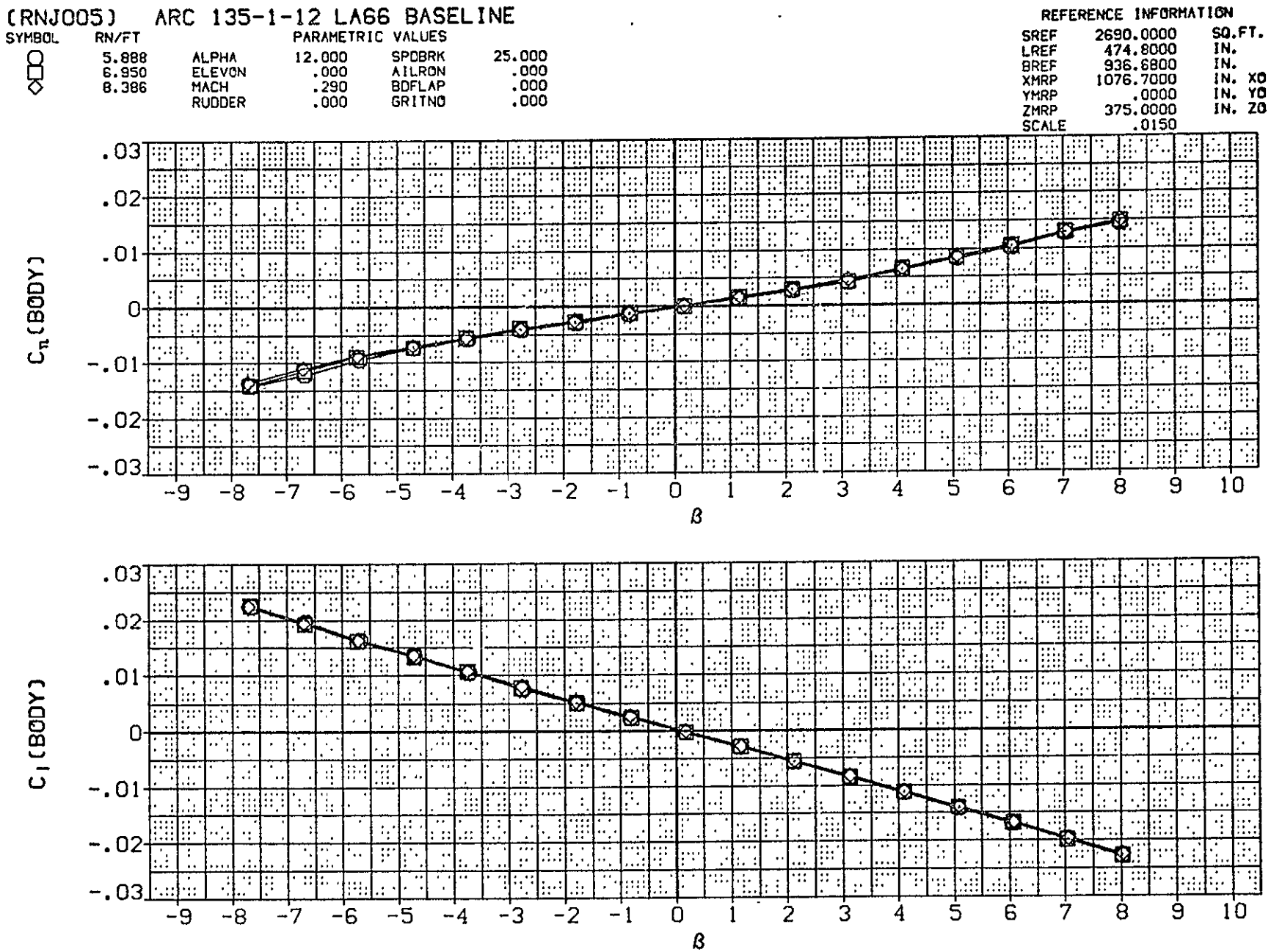


FIGURE 7(B). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA=12

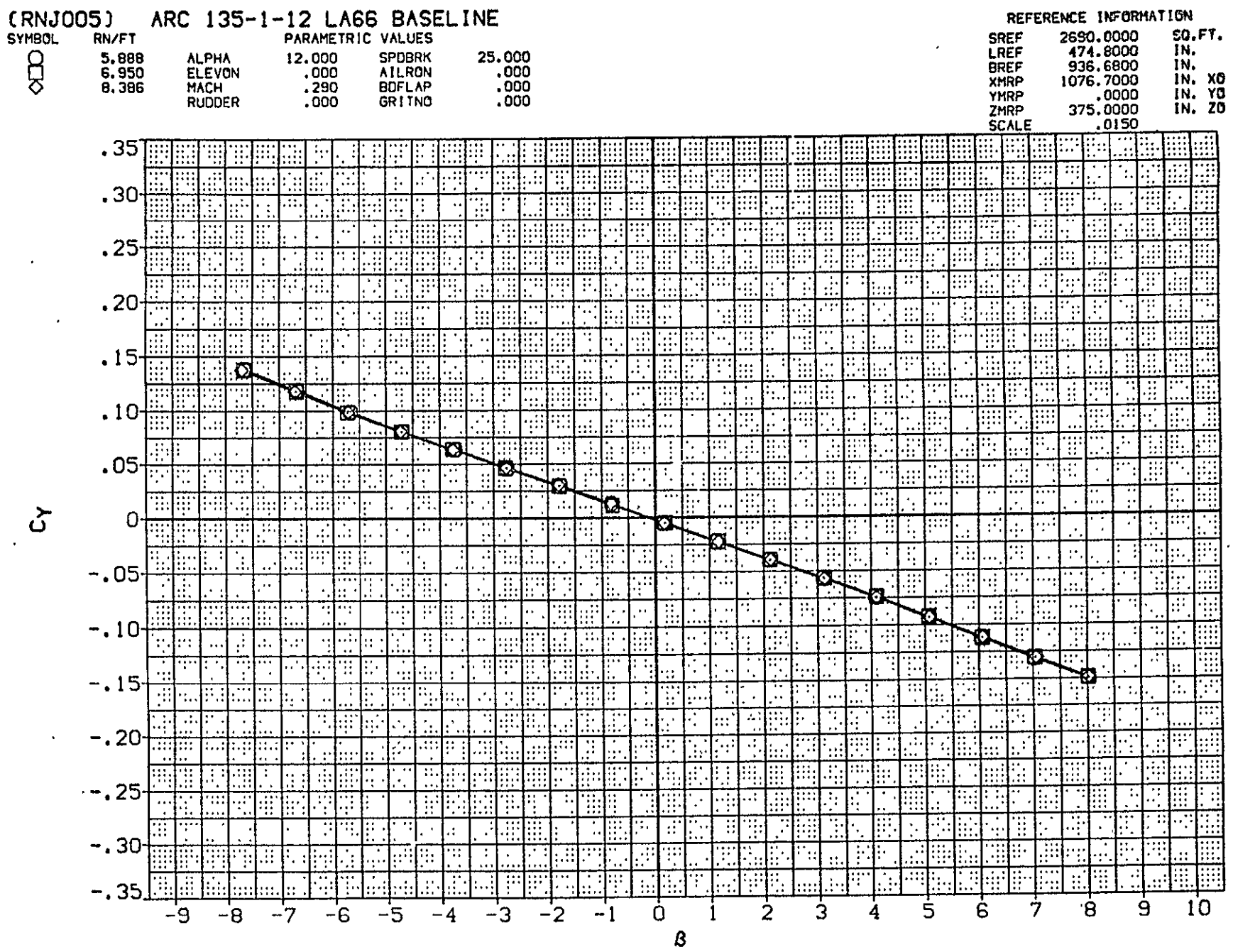


FIGURE 7(B). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA=12

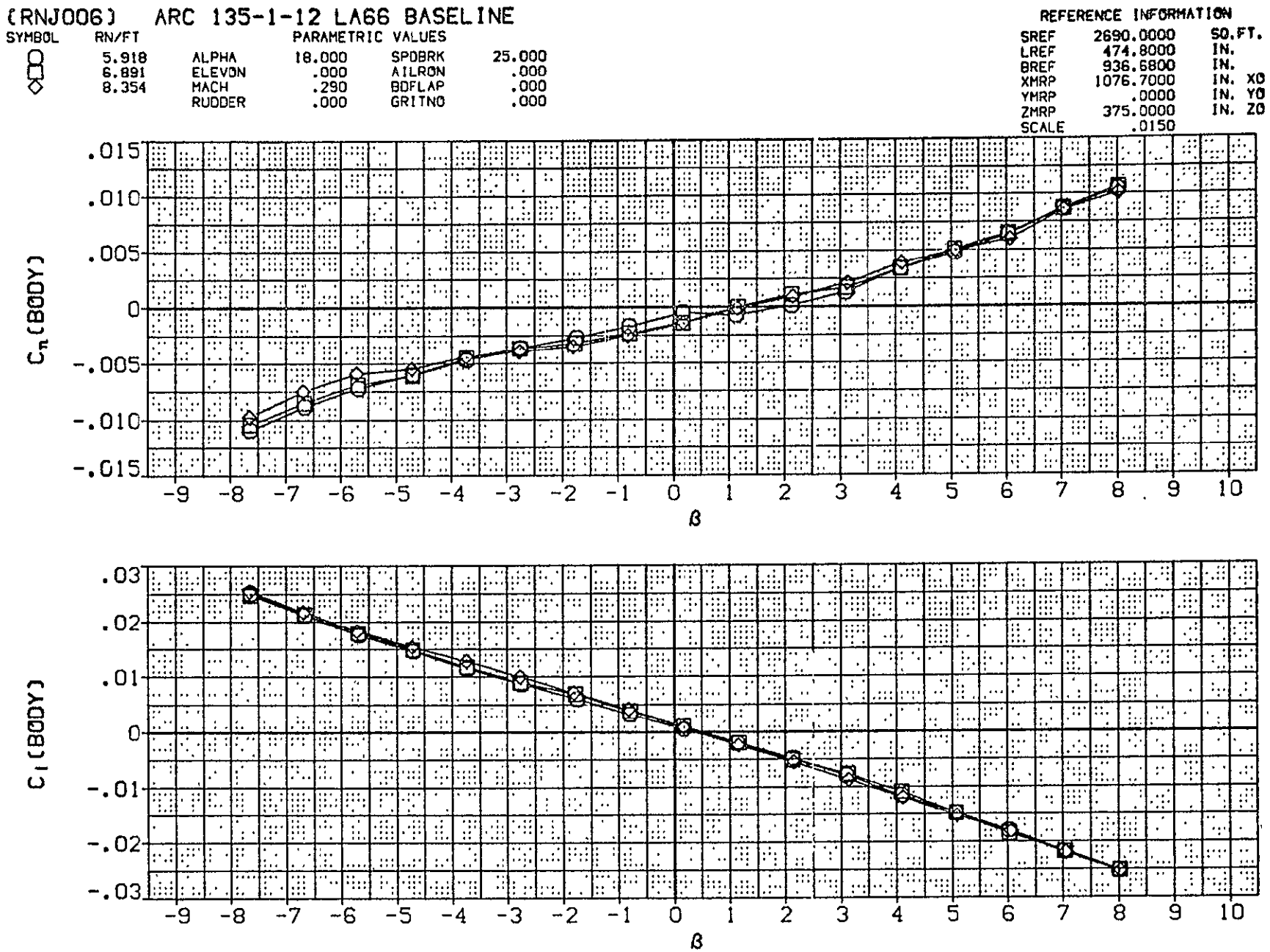


FIGURE 7(C). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS, ALPHA=18

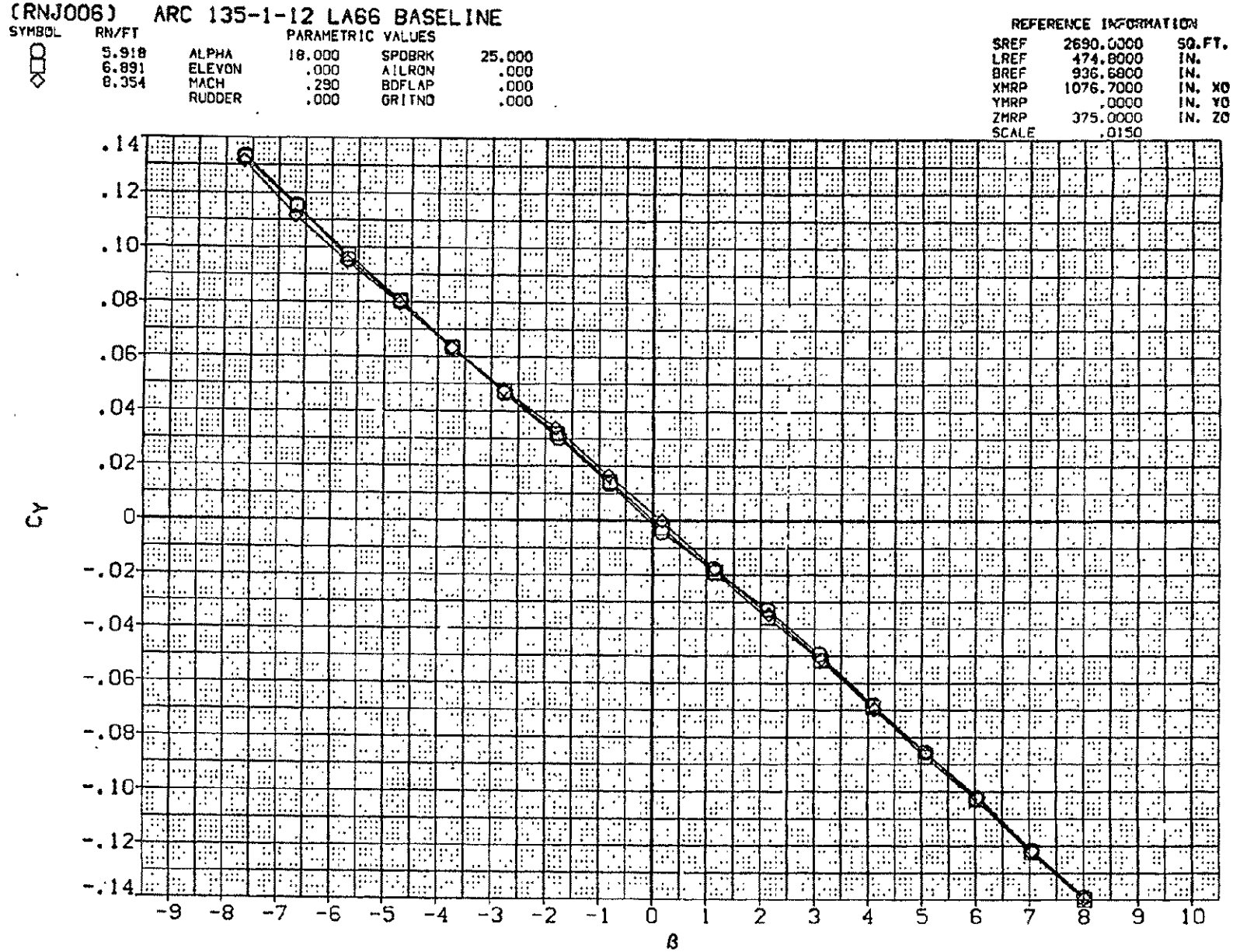


FIGURE 7(C). EFFECTS OF REYNOLDS NUMBER ON LATERAL CHARACTERISTICS. ALPHA=18

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

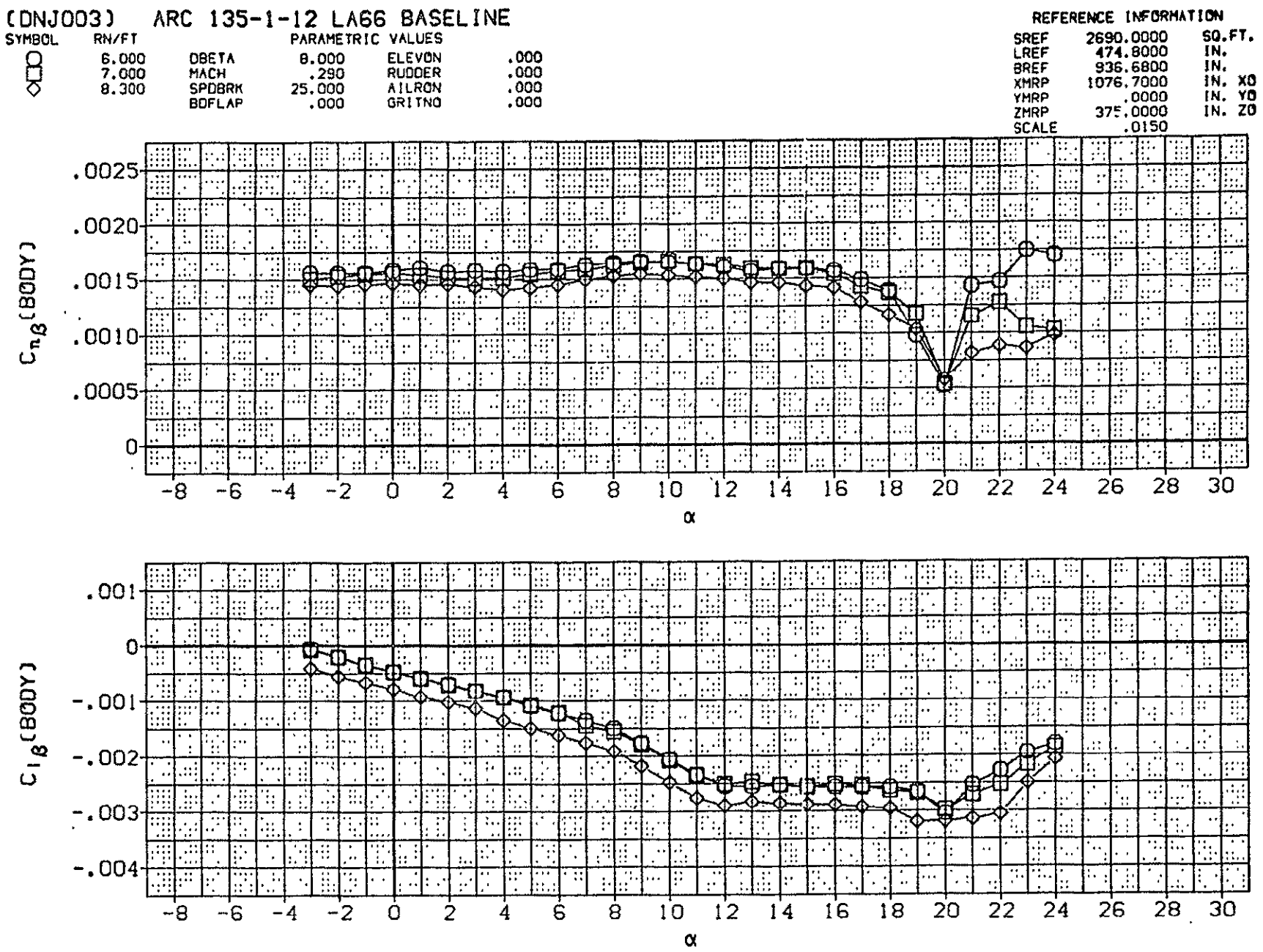


FIGURE 8. LATERAL STABILITY DERIVITIVES FROM PITCH RUNS AT BETA=4 AND -4

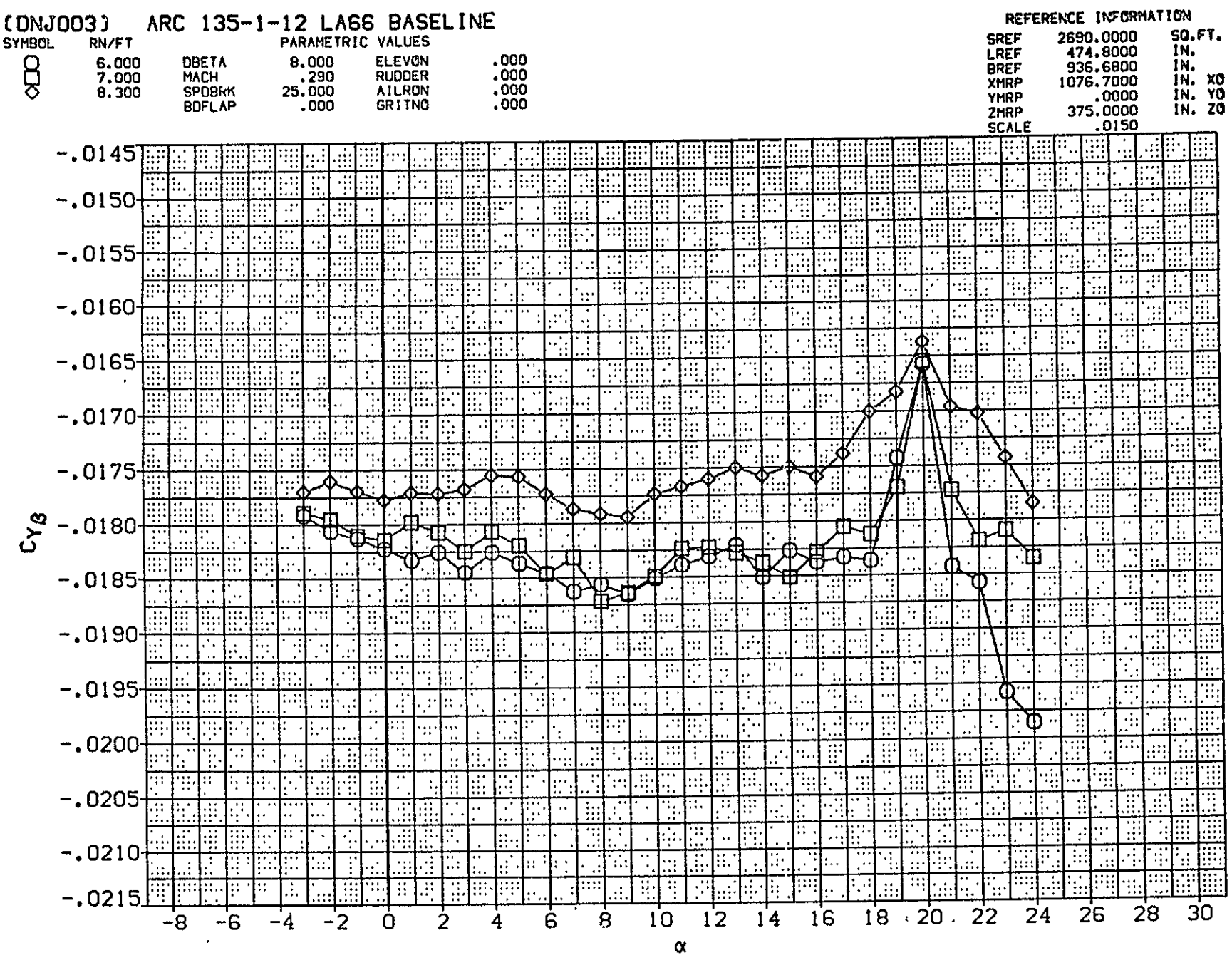
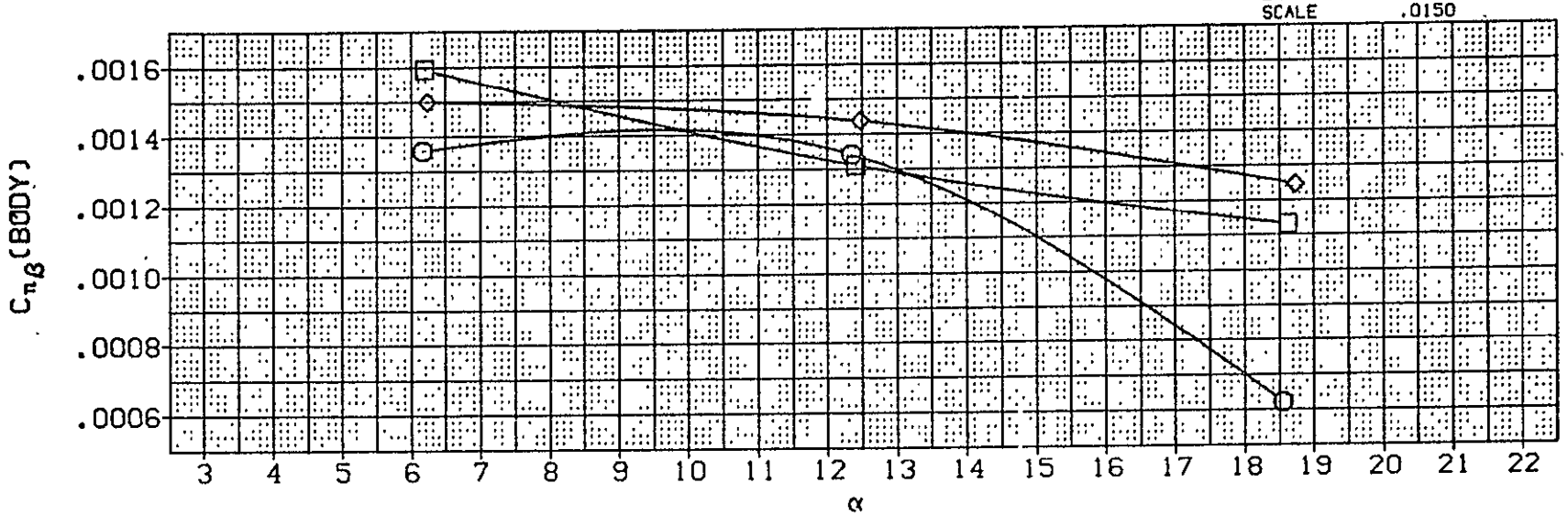


FIGURE 8. LATERAL STABILITY DERIVITIVES FROM PITCH RUNS AT BETA=4 AND -4

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	AILRON	ELEVON	RUDDER
(PNJ004)	○	ARC 135-1-12 LA66 BASELINE	6.000	.000	.000	.000
(PNJ005)	□	ARC 135-1-12 LA66 BASELINE	7.000	.000	.000	.000
(PNJ006)	◇	ARC 135-1-12 LA66 BASELINE	8.300	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0150	



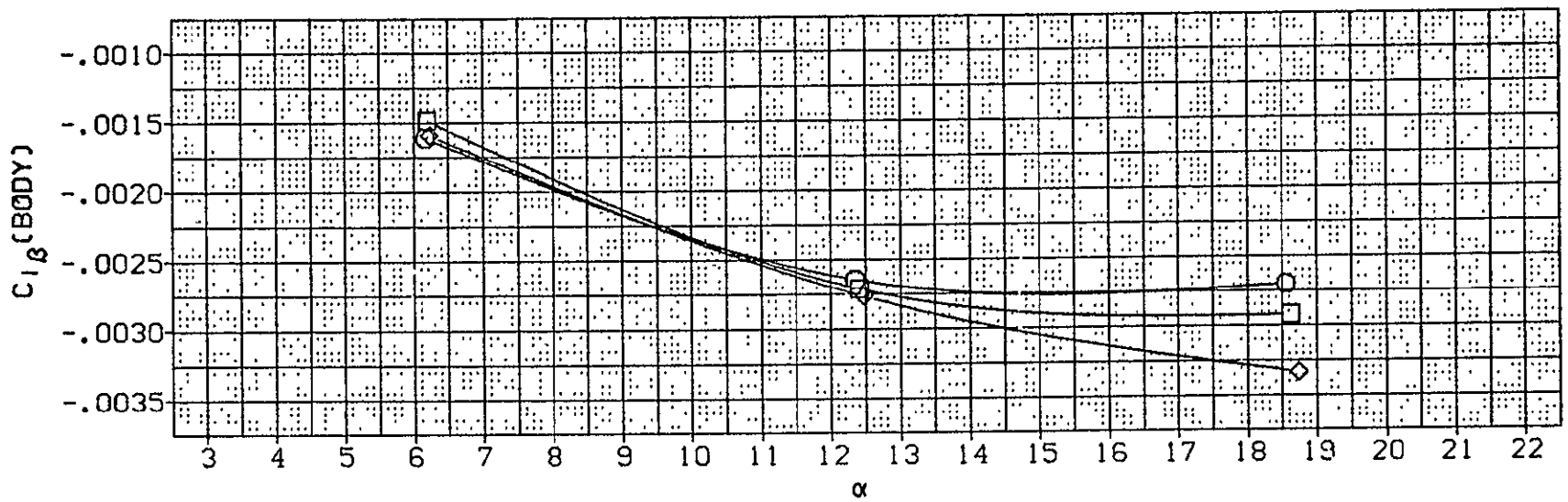


FIGURE 9. LATERAL STABILITY DERIVITIVES FROM YAW RUNS (AT ZERO SIDESLIP)

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	AILRON	ELEVON	RUDDER
(PNJ004)	○	ARC 135-1-12 LA66 BASELINE	6.000	.000	.000	.000
(PNJ005)	□	ARC 135-1-12 LA66 BASELINE	7.000	.000	.000	.000
(PNJ006)	◇	ARC 135-1-12 LA66 BASELINE	8.300	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XØ
YMRP	.0000	IN. YØ
ZMRP	375.0000	IN. ZØ
SCALE	.0150	

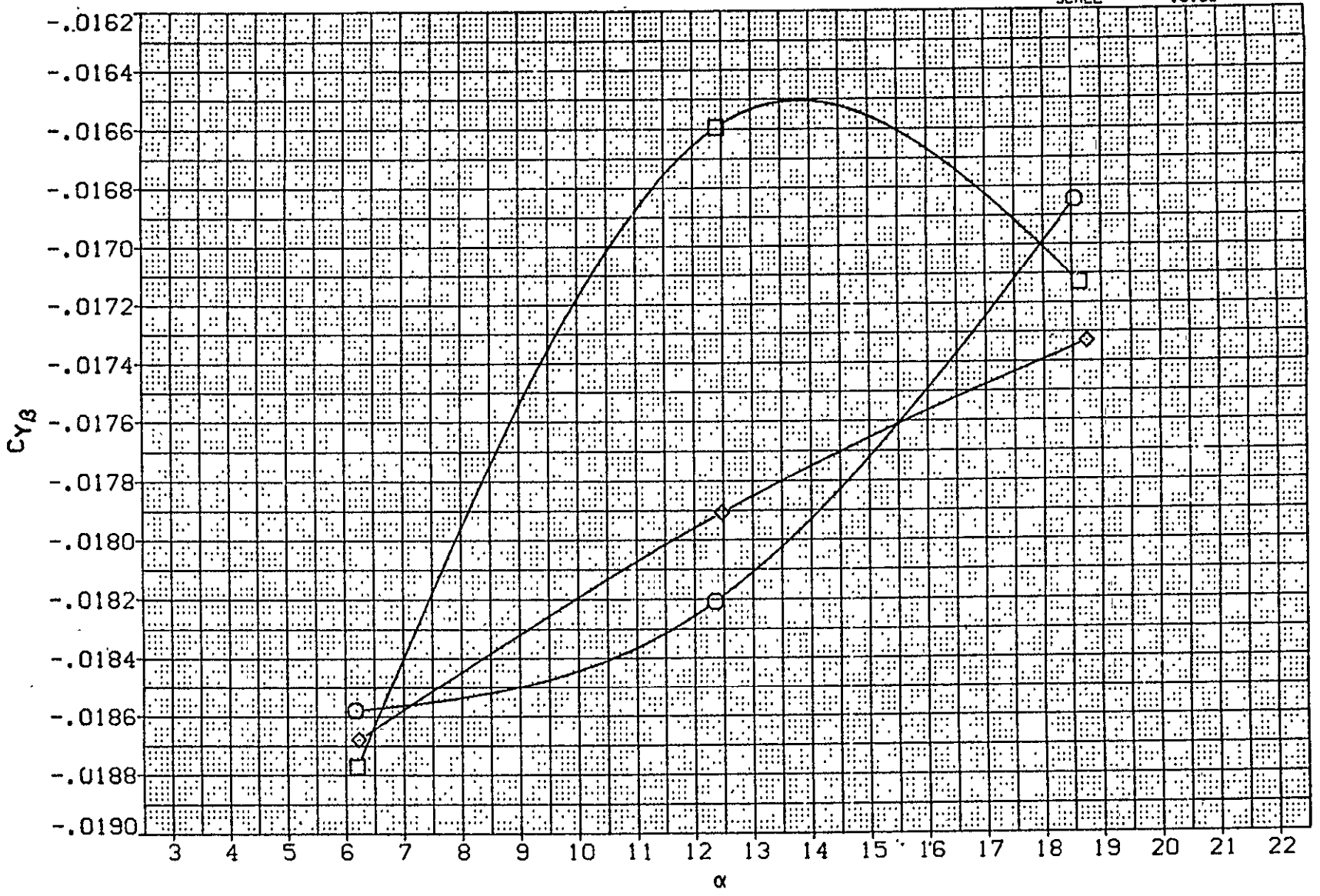


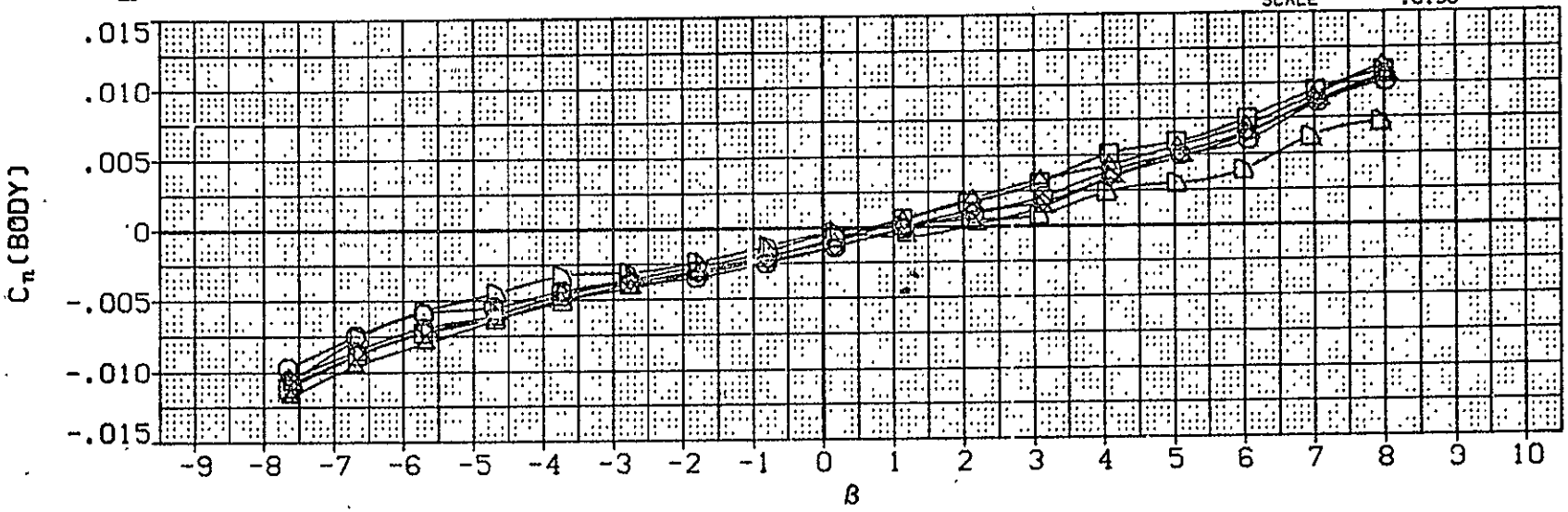
FIGURE 9. LATERAL STABILITY DERIVITIVES FROM YAW RUNS (AT ZERO SIDESLIP)

(A)MACH = .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/FT	ELEVON	AILRON	MACH
(RNJC06)	○	ARC 135-1-12 LA66 BASELINE	8.354	.000	.000	.290
(RNJC07)	□	ARC 135-1-12 LA66 BASELINE	6.431	.000	.000	.220
(RNJB06)	◇	ARC 135-1-12 LA66 BASELINE	6.891	.000	.000	.290
(RNJB07)	▽	ARC 135-1-12 LA66 BASELINE	5.295	.000	.000	.220
(RNJA06)	△	ARC 135-1-12 LA66 BASELINE	5.918	.000	.000	.290
(RNJA07)	◁	ARC 135-1-12 LA66 BASELINE	2.732	.000	.000	.220

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	- .0150	



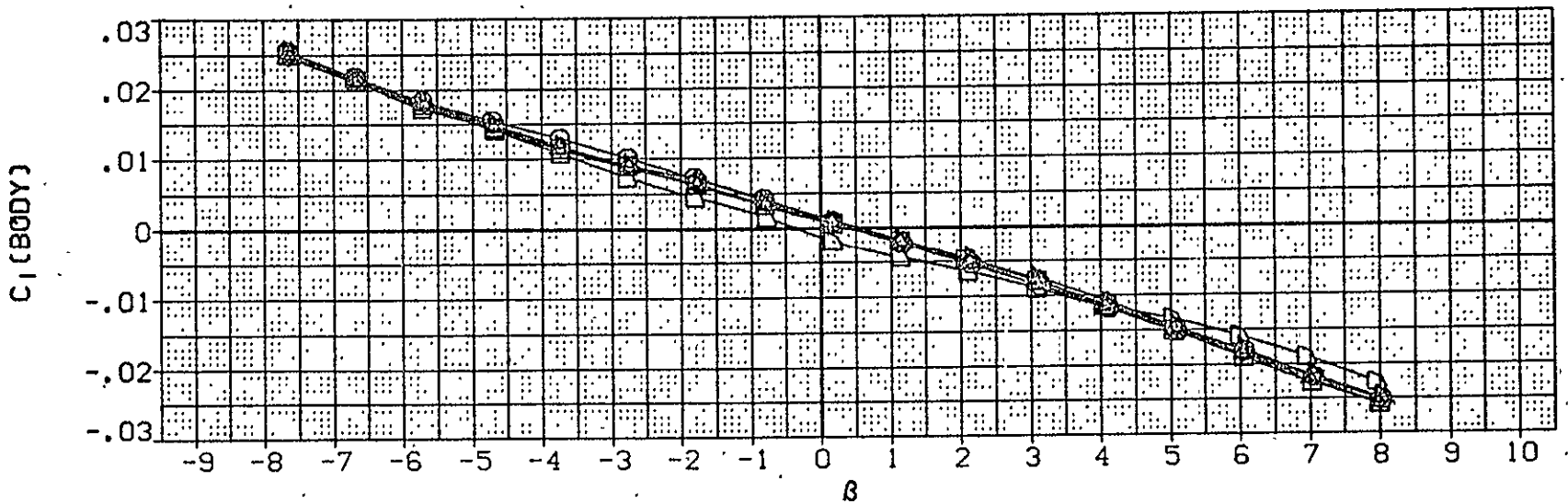


FIGURE 10. EFFECTS OF MACH NUMBER ON LATERAL CHARACTERISTICS, ALPHA=18

(A)ALPHA = 18.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RNJC06)	○	ARC 135-1-12 LA66 BASELINE
(RNJC07)	□	ARC 135-1-12 LA66 BASELINE
(RNJB06)	◇	ARC 135-1-12 LA66 BASELINE
(RNJB07)	△	ARC 135-1-12 LA66 BASELINE
(RNJA06)	▽	ARC 135-1-12 LA66 BASELINE
(RNJA07)	▷	ARC 135-1-12 LA66 BASELINE

RN/FT	ELEVON	AILRON	MACH
8.354	.000	.000	.290
6.431	.000	.000	.220
6.891	.000	.000	.290
5.295	.000	.000	.220
5.918	.000	.000	.290
2.732	.000	.000	.220

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XB
YMRP	.0000	IN. YB
ZMRP	375.0000	IN. ZB
SCALE	.0150	

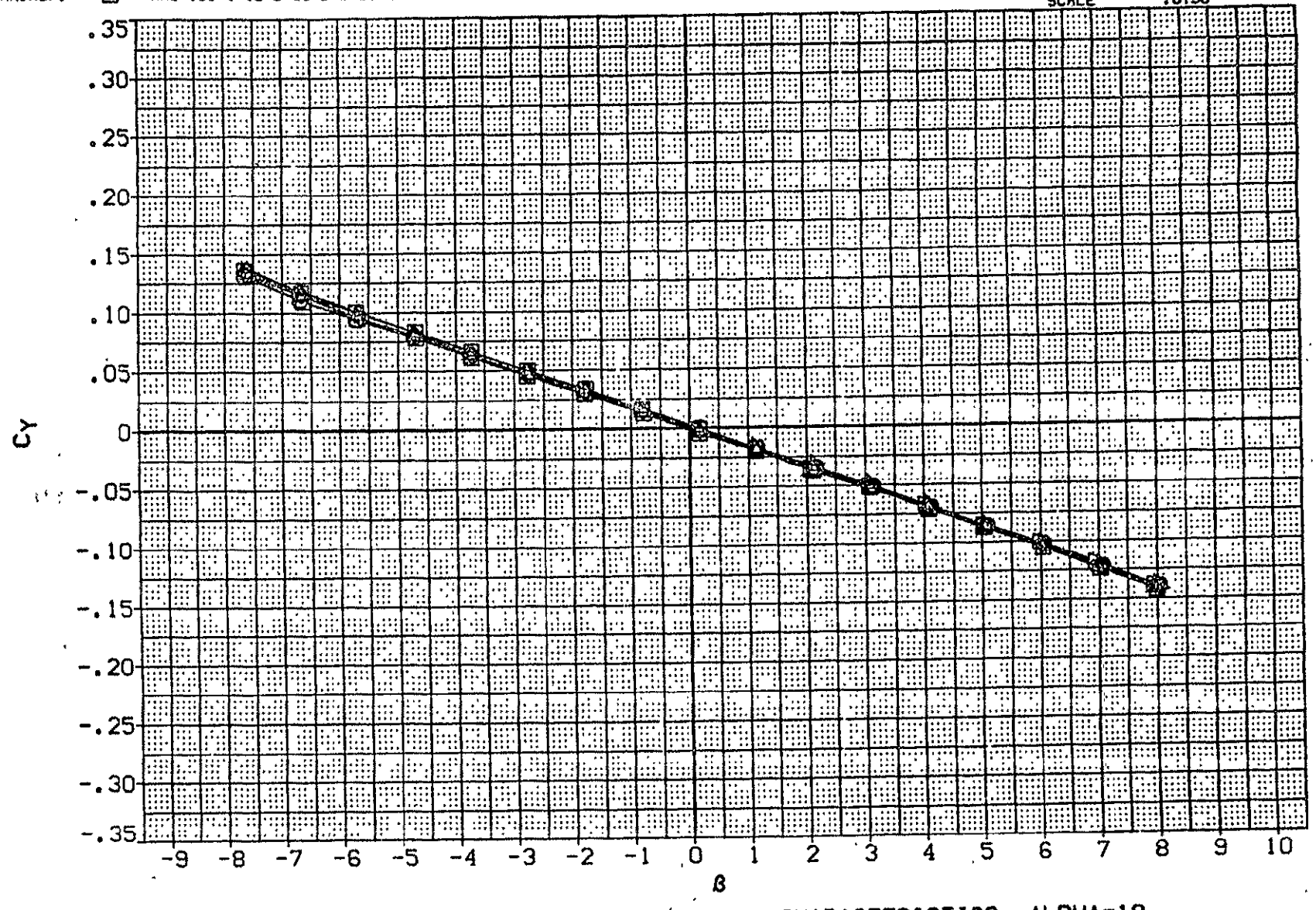


FIGURE 10. EFFECTS OF MACH NUMBER ON LATERAL CHARACTERISTICS, ALPHA=18

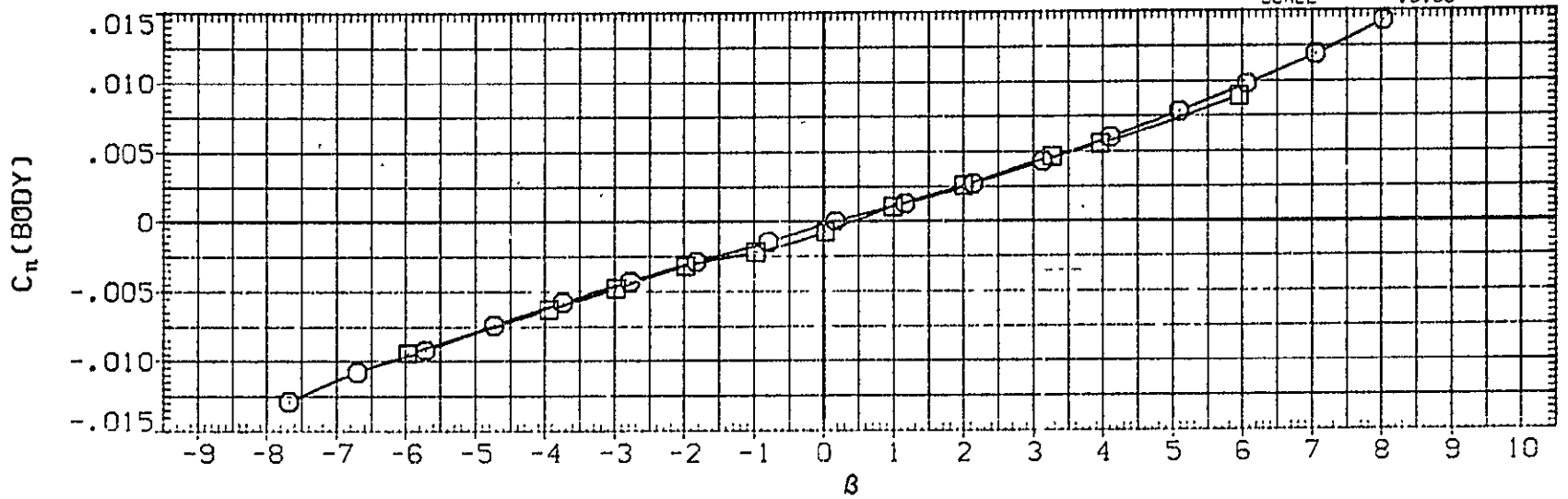
(A)ALPHA = 18.00

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SFDBRK
(NNJ004)	○	ARC 135-1-12 LA66 BASELINE	6.000	8.445	25.000
(RJT046)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	6.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XC
YMRP	.0000	IN. YC
ZMRP	375.0000	IN. ZC
SCALE	.0150	



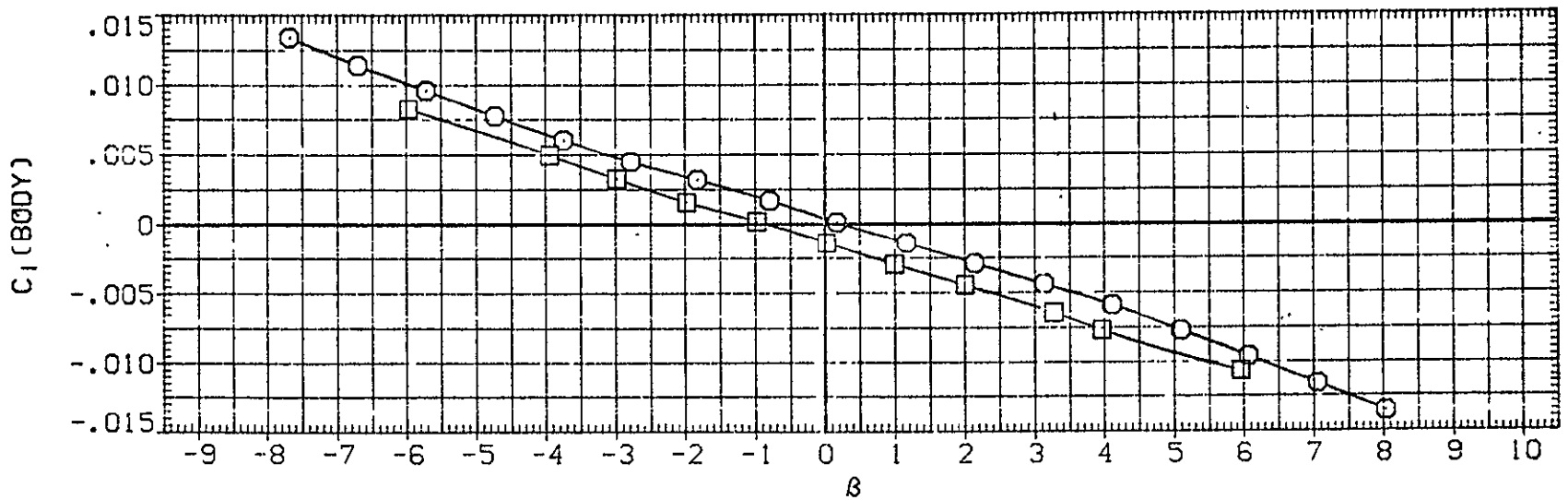


FIGURE 11. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=6 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPOBRK
(NNJOD4)	○	ARC 135-1-12 LA66 BASELINE	6.000	8.445	25.000
(RJTO46)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	6.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

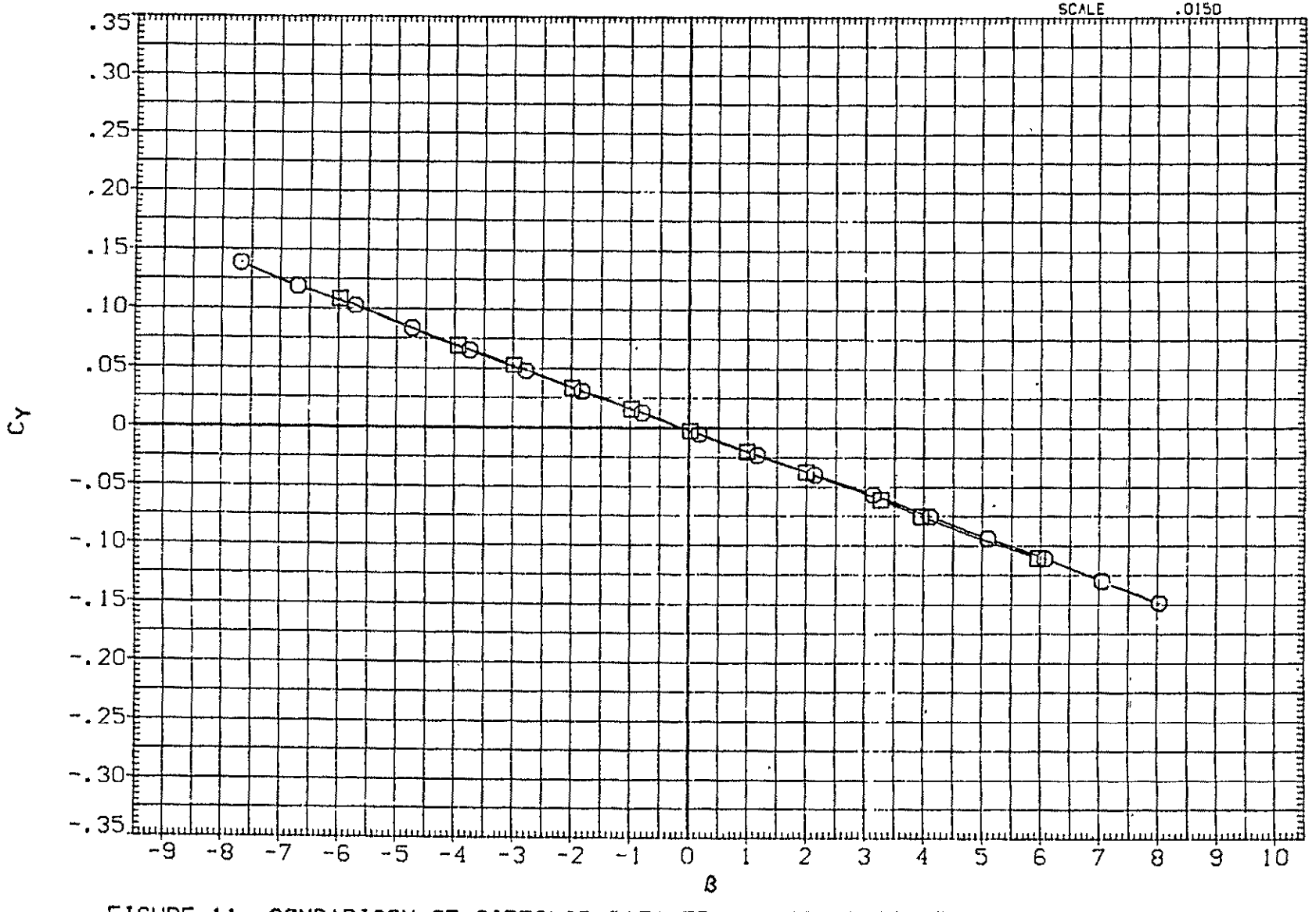


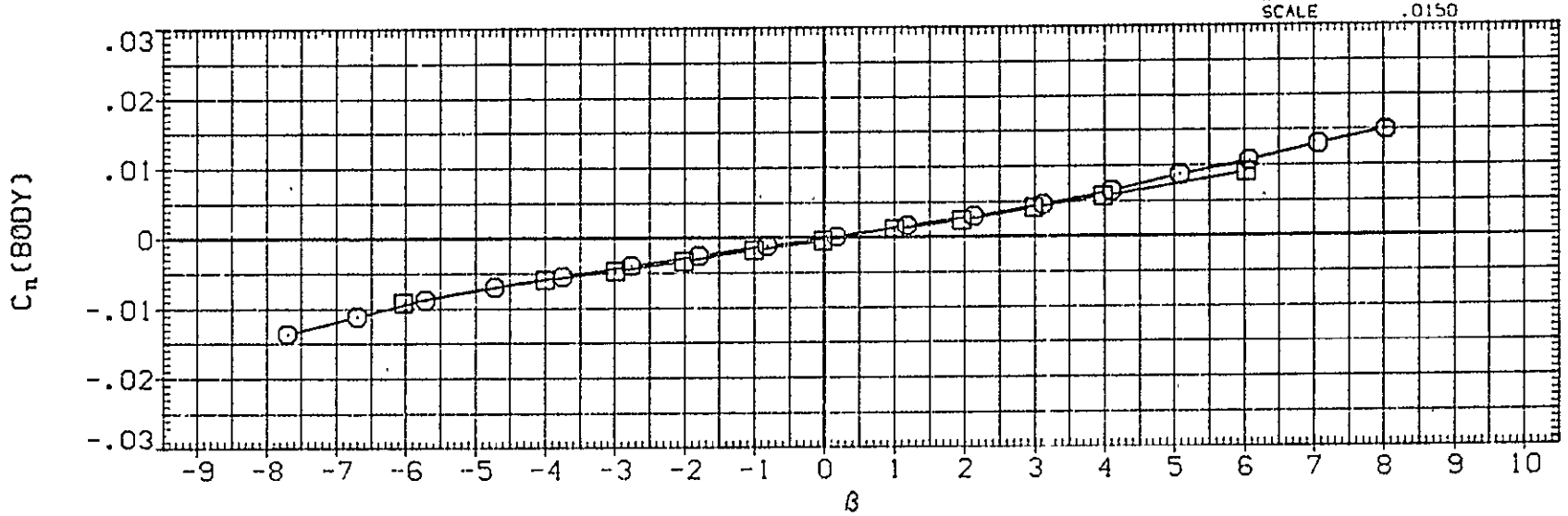
FIGURE 11. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=6 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPDBRK
(NNJ005)	○	ARC 135-1-12 LA66 BASELINE	12.000	8.386	25.000
(RJT047)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	13.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	



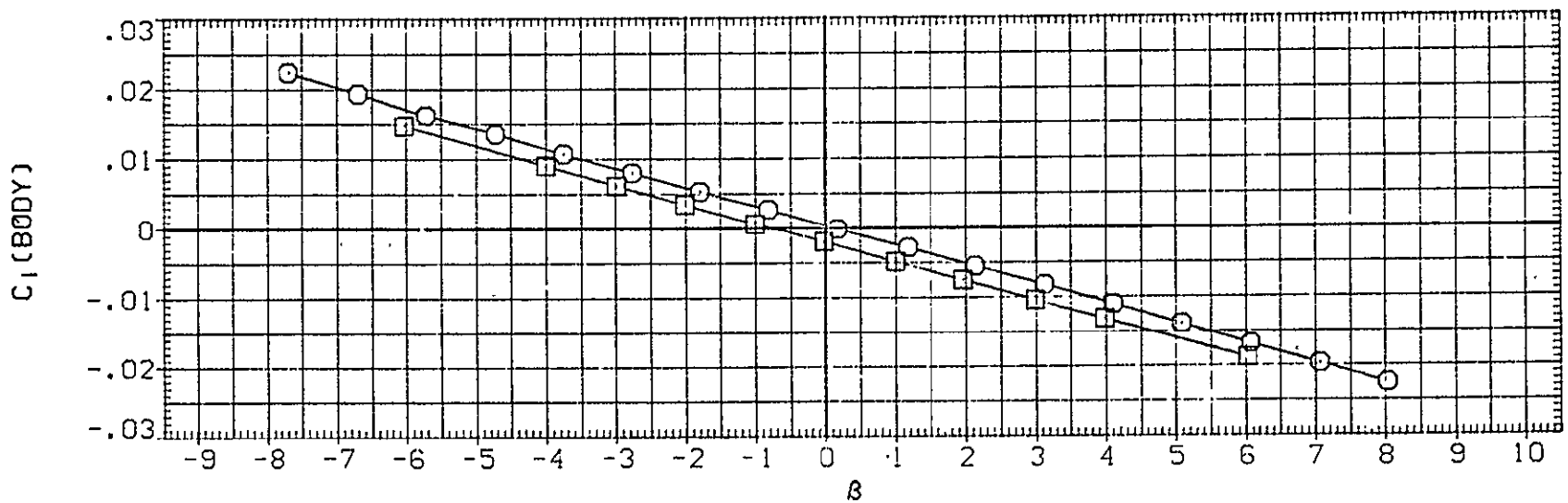


FIGURE 12. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66). ALPHA=12/13 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPOBRK
(NNJ005)	○	ARC 135-1-12 LA66 BASELINE	12.000	8.386	25.000
(RJT047)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	13.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

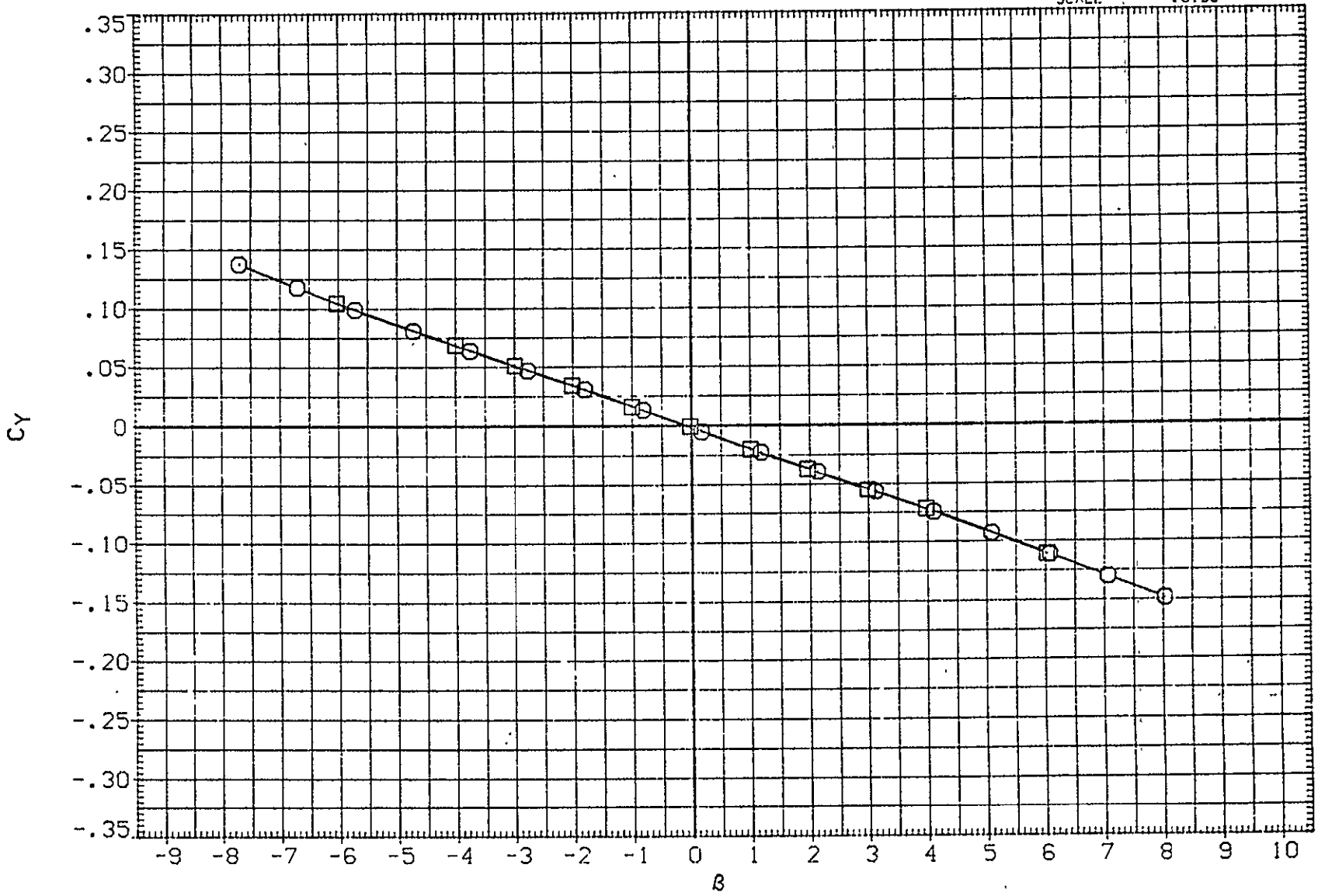


FIGURE 12. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=12/13 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPOBRK
(NNJ006)	○	ARC 135-1-12 LA66 BASELINE	18.000	8.354	25.000
(RJT050)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	19.000	10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

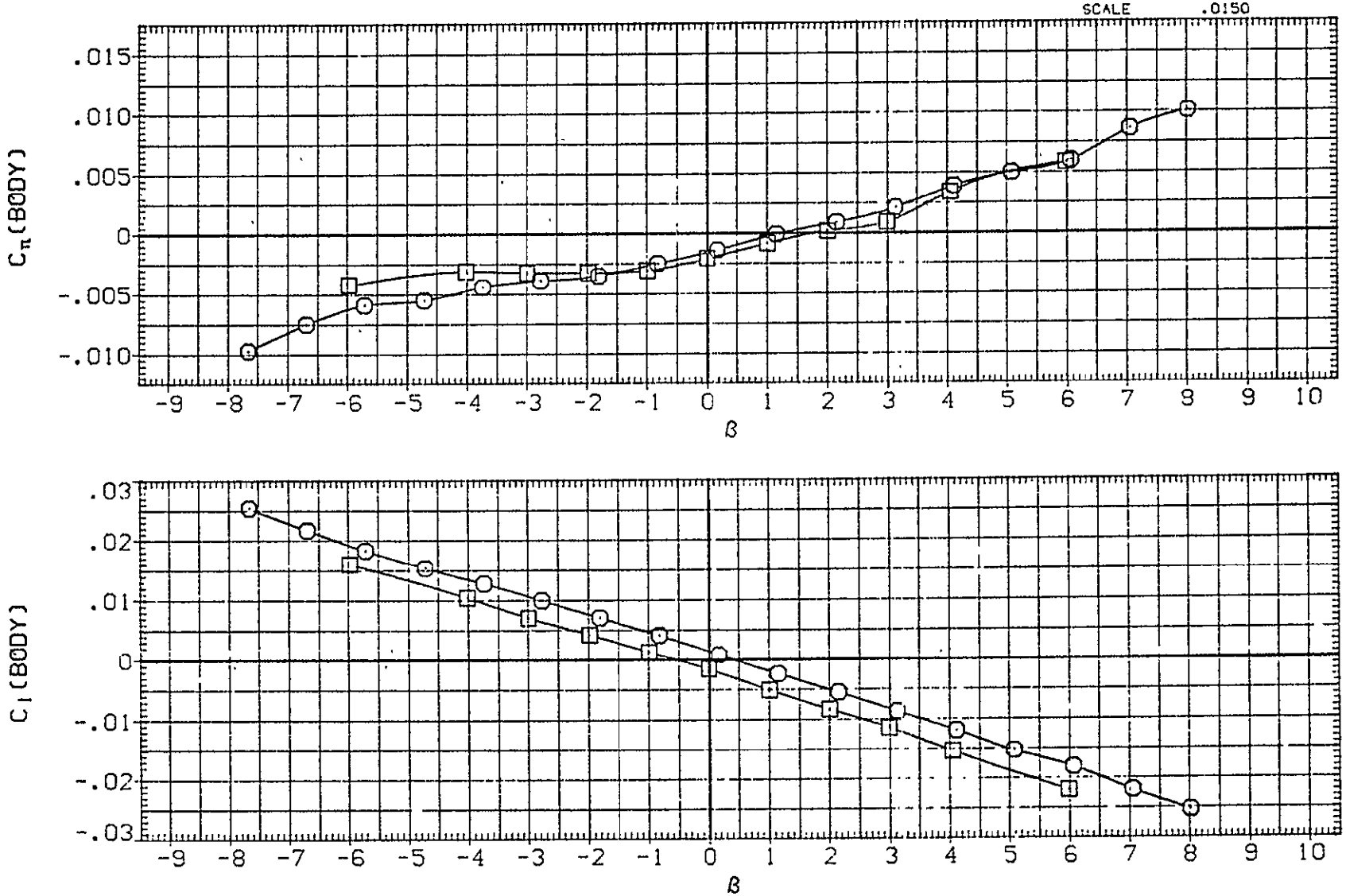


FIGURE 13. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=18/19 DEG

(A)MACH = .23 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPDBRK
(NNJ006)	○	ARC 135-1-12 LA66 BASELINE	18.000	8.354	25.000
(RJT050)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	19.000	10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

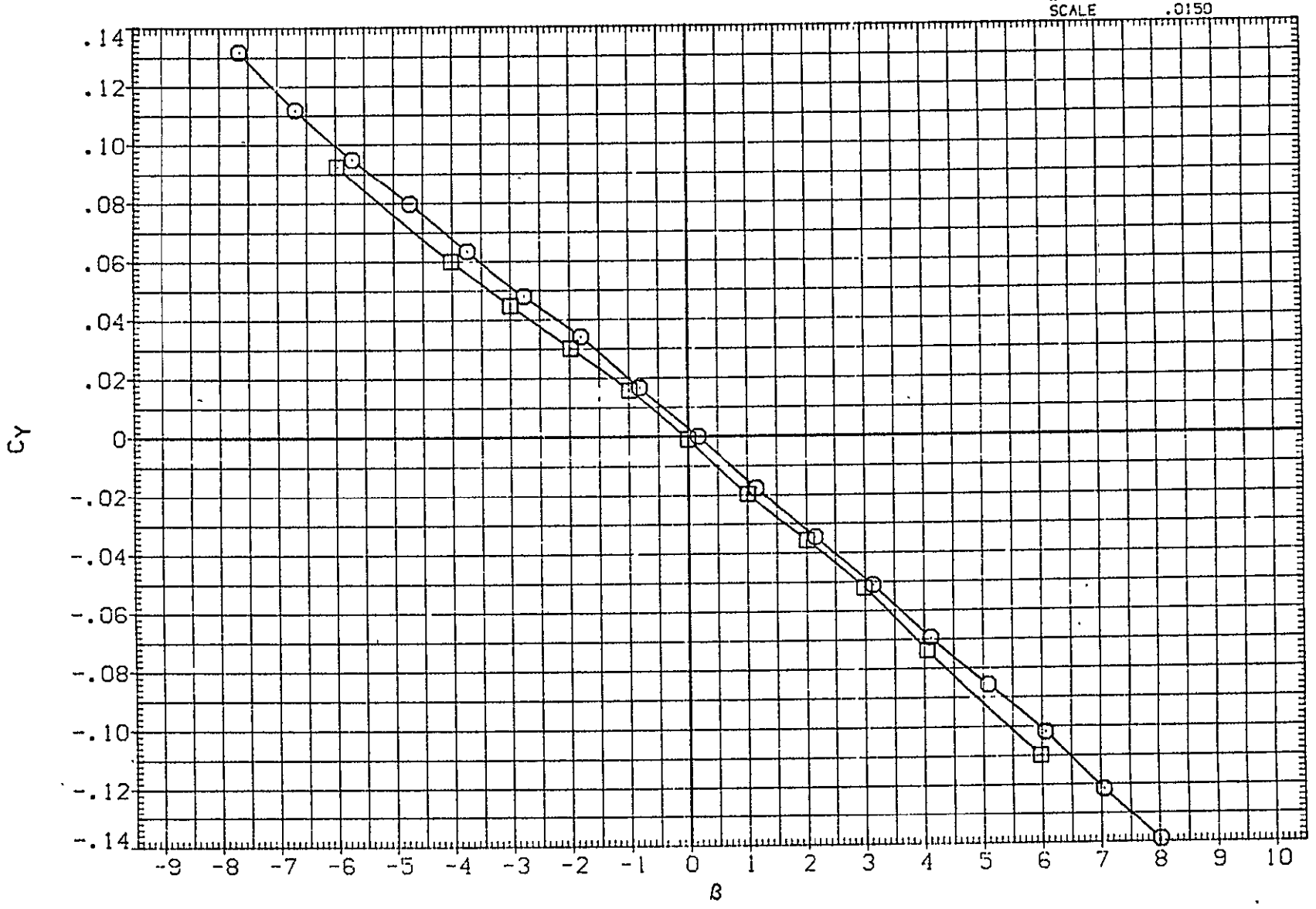


FIGURE 13. COMPARISON OF SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=18/19 DEG

(A)MACH = .23 (B) .29

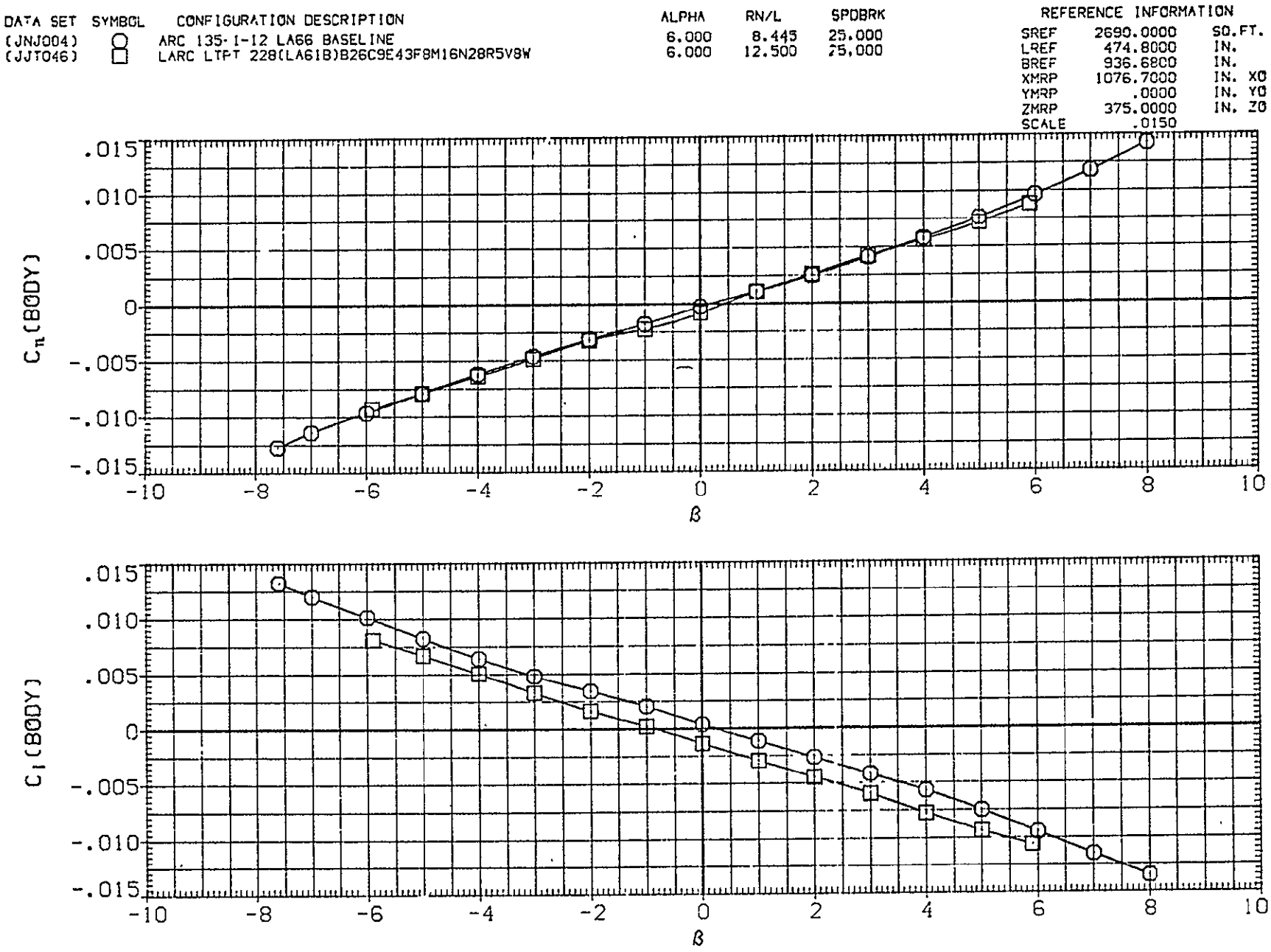


FIGURE 14. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66). ALPHA=6 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPDBRK
(JNJ004)	○	ARC 135-1-12 LA66 BASELINE	6.000	8.445	25.000
(JJT046)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	6.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

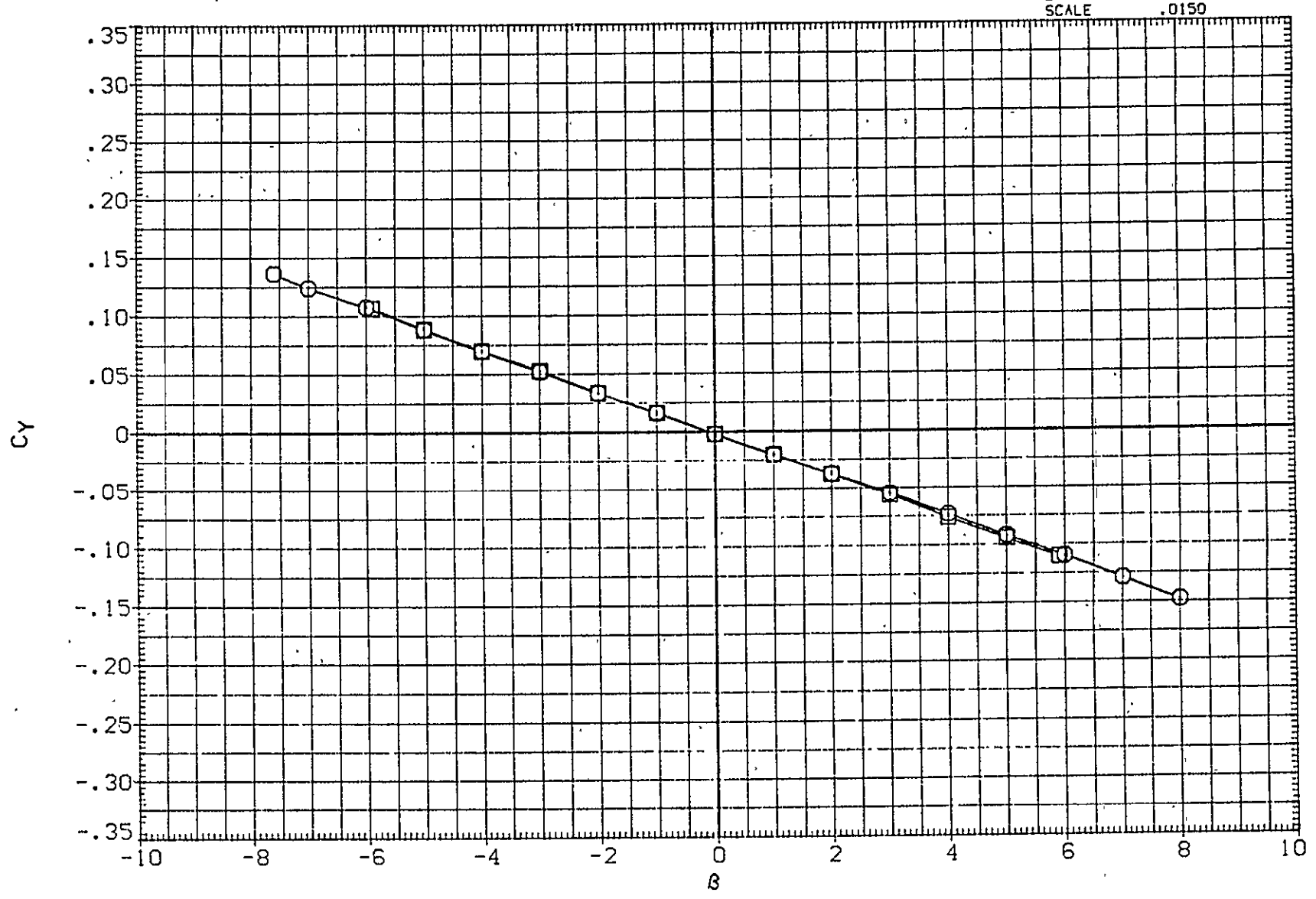


FIGURE 14. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=6 DEG

(A)MACH = .20 (B) .29

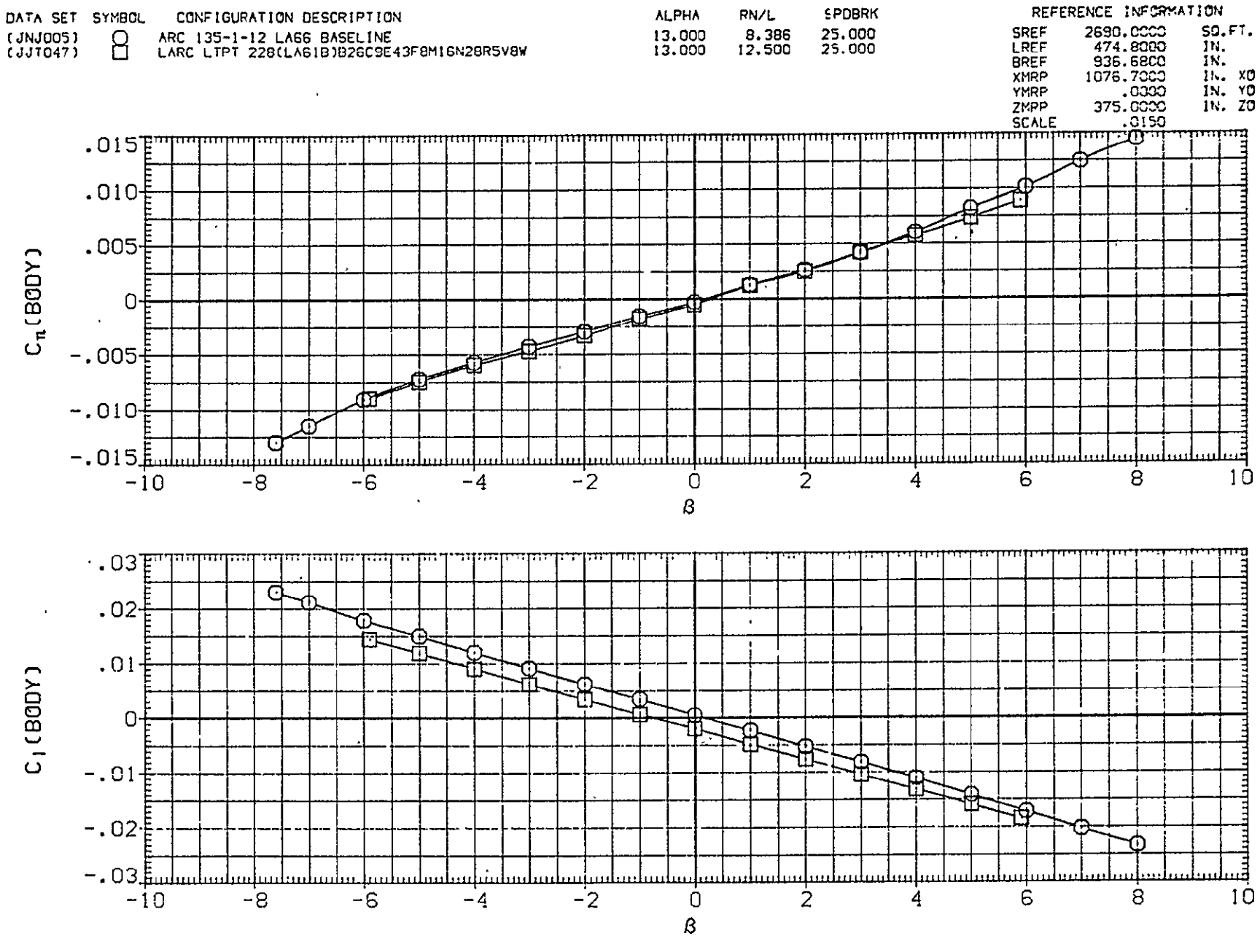


FIGURE 15. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66). ALPHA=13 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPDBRK
(JNJ005)	○	ARC 135-1-12 LA66 BASELINE	13.000	8.386	25.000
(JJT047)	□	LARC LTPT 228(LA61B)P26C9E43F8M16N28R5V8W	13.000	12.500	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

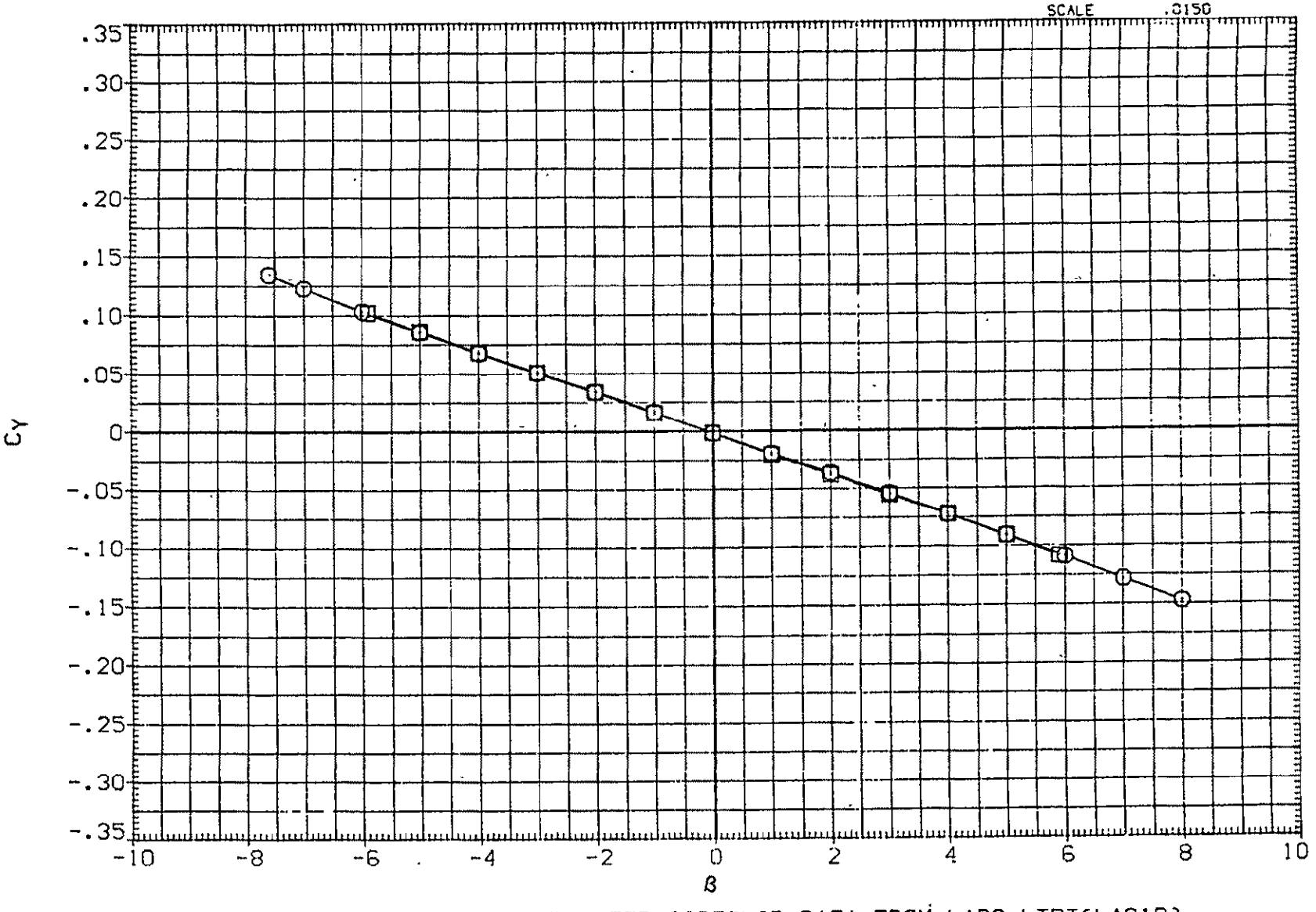


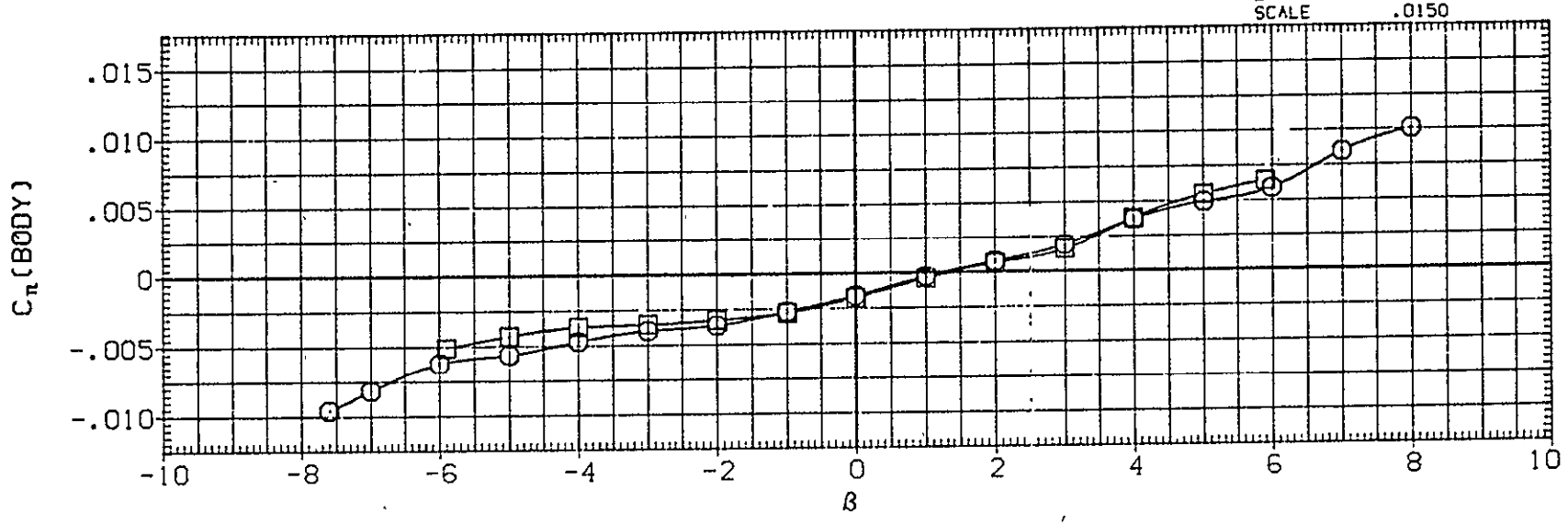
FIGURE 15. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=13 DEG

(A)MACH = .20 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPOBRK
(JNJ006)	○	ARC 135-1-12 LA66 BASELINE	18.000	8.354	25.000
(JJT050)	□	LAPC LTPT 228(LA61B)B26C9E43F8MI6N28R5V8W	18.000	10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	



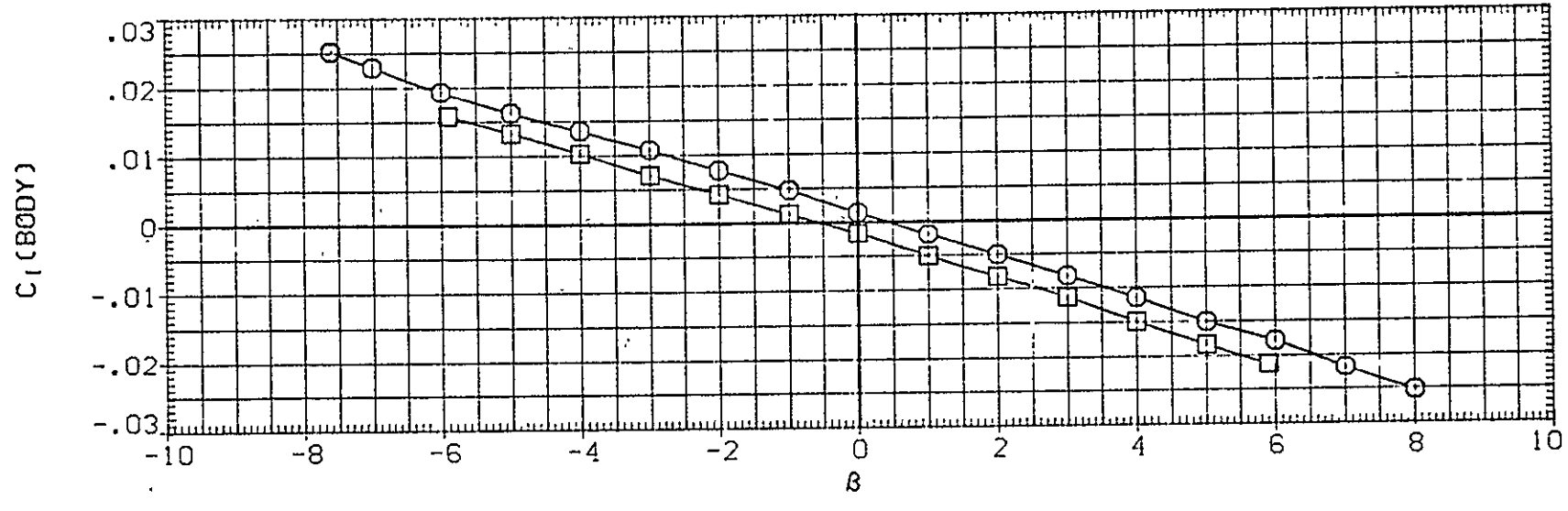


FIGURE 16. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66), ALPHA=18 DEG

(A)MACH = .23 (B) .29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	SPDBRK
(JNJ006)	○	ARC 135-1-12 LA66 BASELINE	18.000	8.354	25.000
(JJT050)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	18.000	10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

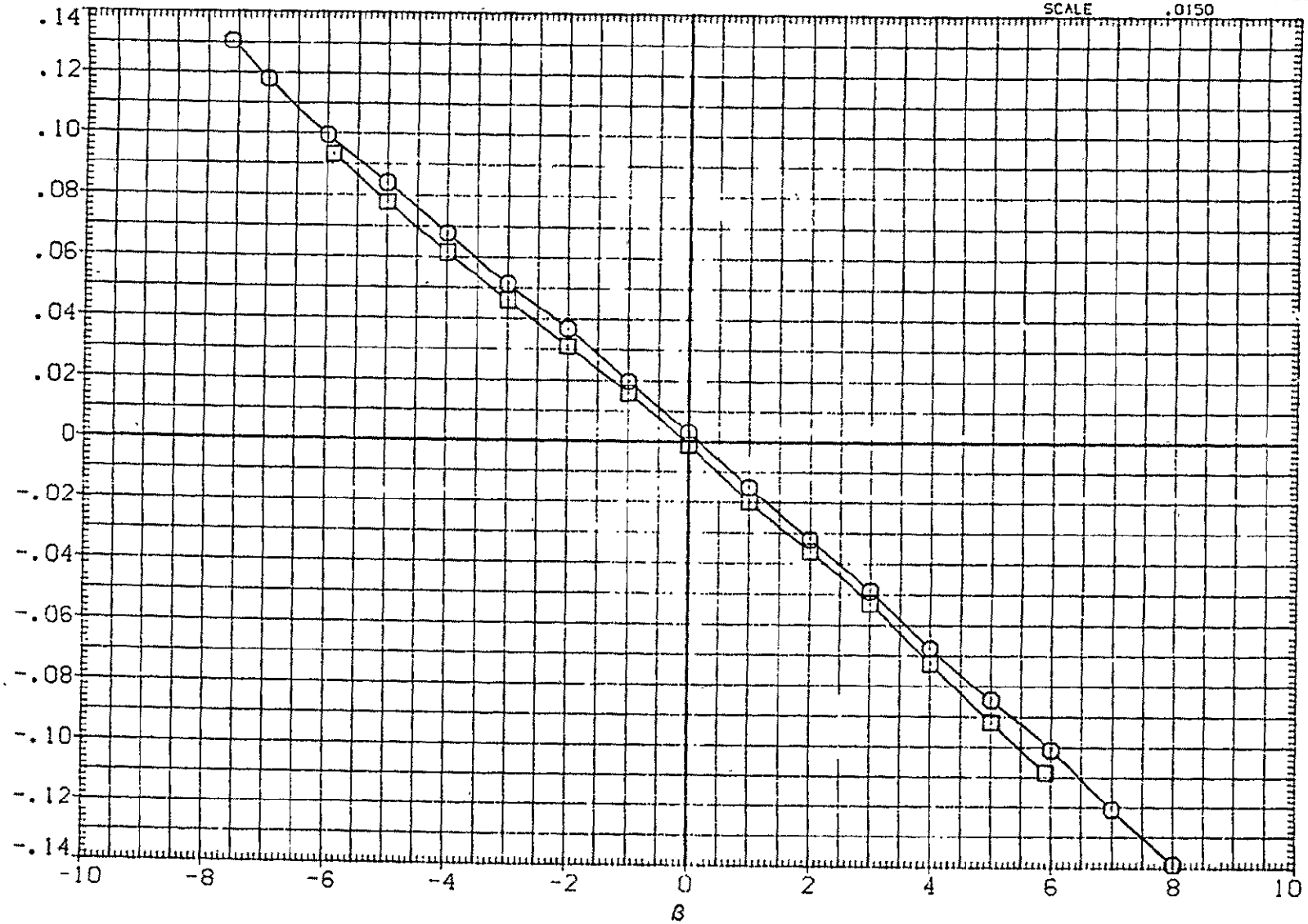


FIGURE 16. COMPARISON OF INTERPOLATED SIDESLIP DATA FROM LARC LTPT(LA61B) AND ARC 12FTTPT(LA66). ALPHA=18 DEG

(A)MACH = .23 (B) .29

APPENDIX

TABULATED SOURCE DATA

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

ARC 135-1-12 LA66 BASELINE (RNJ001) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 147 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.984	-3.150	1.65000	-.15520	.05420	.01140	-.15200	.06260	-2.42630	-.00190	-.00720	.07040
5.962	-2.010	1.65000	-.10360	.05680	.01140	-.10160	.06040	-1.68110	-.00120	-.00730	.07090
5.943	.000	1.66000	-.01330	.05900	.01180	-.01330	.05900	-.22490	-.00030	-.00750	.07160
5.944	.990	1.65000	.02660	.05810	.01180	.02560	.05850	.43670	.00000	-.00760	.07160
5.932	1.980	1.67000	.07060	.05700	.01240	.06860	.05940	1.15560	.00030	-.00750	.07190
5.930	3.010	1.67000	.11780	.05450	.01250	.11470	.06060	1.89210	.00080	-.00750	.07160
5.937	3.980	1.66000	.16710	.05130	.01210	.16320	.06280	2.59970	.00110	-.00750	.07070
5.931	5.000	1.66000	.21170	.04730	.01180	.20680	.06560	3.15380	.00160	-.00750	.07170
5.915	6.000	1.67000	.26310	.04260	.01100	.25720	.06990	3.67830	.00200	-.00760	.07180
5.916	6.990	1.65000	.31000	.03710	.01050	.30320	.07460	4.06420	.00260	-.00760	.07240
5.922	8.000	1.62000	.35750	.03090	.01040	.34950	.08030	4.35340	.00310	-.00750	.07100
5.914	9.000	1.63000	.40670	.02350	.01020	.39800	.08680	4.58330	.00400	-.00760	.07160
5.923	10.010	1.60000	.45390	.01580	.01030	.44420	.09450	4.70280	.00500	-.00740	.06950
5.921	11.000	1.59000	.50170	.00780	.01060	.49100	.10340	4.74980	.00610	-.00740	.06970
5.922	11.990	1.53000	.55080	-.00040	.01120	.53880	.11400	4.72600	.00680	-.00720	.06880
5.907	13.010	1.50000	.60310	-.00880	.01310	.58960	.12720	4.63620	.00680	-.00710	.06810
5.914	14.030	1.41000	.65330	-.01650	.01430	.63780	.14230	4.48080	.00670	-.00710	.06900
5.912	15.030	1.28000	.70350	-.02430	.01490	.68530	.15950	4.29530	.00670	-.00720	.06890
5.908	16.020	1.16000	.76190	-.03260	.01460	.74130	.17890	4.14420	.00680	-.00740	.06970
5.898	17.020	1.01000	.81850	-.04070	.01270	.79460	.20070	3.95950	.00690	-.00730	.06990
5.884	18.030	.88000	.88030	-.04840	.01100	.85210	.22640	3.76290	.00700	-.00670	.06810
5.894	19.020	.76000	.94100	-.05470	.00770	.90740	.25490	3.55950	.00770	-.00620	.06650
5.893	20.070	.72000	1.00580	-.05580	.00250	.96390	.29280	3.29200	.00980	-.00310	.06050
5.882	21.040	.74000	1.05560	-.04970	.00170	1.00310	.33250	3.01640	.00790	-.00660	.06760
5.860	22.040	.67000	1.11800	-.05190	-.00070	1.05570	.37150	2.84180	.00790	-.00620	.06680
5.879	23.030	.61000	1.17480	-.04920	-.00720	1.10040	.41430	2.65600	.00730	-.00680	.06970
5.875	24.050	.61000	1.23390	-.04790	-.01080	1.14630	.45920	2.49640	.00740	-.00650	.07110
	GRADIENT	.00183	.04488	-.00082	.00010	.04388	.00032	.69570	.00041	-.00003	.00010

ARC 135-1-12 LA66 BASELINE (RNJ001) (24.NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 13/ 0 RN/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.912	-3.010	1.63000	-.14880	.05480	.01090	-.14570	.06260	-2.32890	-.00190	-.00670	.07080
6.895	-1.940	1.62000	-.10330	.05720	.01070	-.10130	.06070	-1.66920	-.00130	-.00690	.07110
6.904	.020	1.63000	-.01160	.05880	.01110	-.01160	.05880	-.19710	-.00040	-.00710	.07100
6.879	1.020	1.61000	.02990	.05850	.01150	.02880	.05900	.48860	.00000	-.00700	.07100
6.876	2.000	1.63000	.07330	.05710	.01170	.07130	.05960	1.19680	.00040	-.00690	.07060
6.885	2.990	1.62000	.11970	.05460	.01160	.11670	.06080	1.92090	.00070	-.00690	.07190
6.895	4.000	1.63000	.16630	.05160	.01130	.16230	.06300	2.57470	.00110	-.00690	.07040
6.897	5.000	1.65000	.21370	.04760	.01080	.20870	.06610	3.15950	.00160	-.00710	.07160
6.894	6.020	1.66000	.26150	.04290	.01000	.25550	.07000	3.64840	.00210	-.00720	.07300
6.889	7.020	1.67000	.31330	.03700	.01000	.30640	.07500	4.08290	.00270	-.00710	.07150
6.887	8.020	1.68000	.35970	.03080	.00920	.35180	.08070	4.36110	.00330	-.00710	.07240
6.877	9.030	1.66000	.40930	.02340	.00940	.40060	.08730	4.58610	.00410	-.00710	.07050
6.880	10.030	1.62000	.45770	.01490	.00950	.44810	.09440	4.74890	.00540	-.00730	.07130
6.872	11.050	1.62000	.51130	.00690	.00900	.50050	.10470	4.77950	.00630	-.00700	.06920
6.872	12.060	1.58000	.55940	-.00150	.01020	.54730	.11540	4.74230	.00700	-.00700	.06920
6.867	13.070	1.53000	.60960	-.01010	.01150	.59600	.12800	4.65740	.00680	-.00690	.06910
6.869	14.050	1.34000	.66080	-.01820	.01250	.64550	.14270	4.52230	.00680	-.00690	.06940
6.860	15.070	1.29000	.71150	-.02590	.01390	.69380	.16000	4.33650	.00690	-.00700	.06950
6.850	16.090	1.17000	.76870	-.03450	.01350	.74820	.17990	4.15910	.00690	-.00700	.06870
6.852	17.090	.83000	.82230	-.04210	.01170	.79840	.20140	3.96460	.00690	-.00670	.06790
6.848	18.070	.66000	.87460	-.04940	.01040	.84680	.22440	3.77330	.00730	-.00670	.06910
6.843	19.110	.70000	.94160	-.05600	.00640	.90810	.25530	3.55550	.00810	-.00590	.06620
6.879	20.140	.60000	1.00980	-.05660	.00170	.95820	.29270	3.30800	.00920	-.00340	.06140
6.872	21.110	.62000	1.05040	-.05350	.00050	1.00850	.33200	3.03740	.00730	-.00650	.06750
6.873	22.140	.52000	1.11280	-.05540	-.00110	1.05160	.36810	2.85670	.00800	-.00570	.06610
6.828	23.160	.34000	1.17150	-.05260	-.00720	1.10050	.41370	2.66030	.00720	-.00570	.06760
6.823	24.220	.23000	1.22510	-.05120	-.00910	1.13930	.45500	2.49700	.00780	-.00530	.06820
	GRADIENT	.00171	.04518	-.00087	.00005	.04417	.00037	.69855	.00042	-.00002	.00004

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

ARC 135-1-12 LA66 BASELINE (RNJ001) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 12/ 0 RN/L = 8.43 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.477	-3.200	-.06000	-.17980	.05360	.02060	-.17650	.06350	-2.77740	.00030	-.00600	.07060
8.468	-2.020	-.07000	-.12660	.05640	.02050	-.12450	.06080	-2.04680	.00090	-.00610	.07090
8.442	-.010	-.04000	-.03290	.05860	.01970	-.03290	.05860	-.56090	.00150	-.00630	.07150
8.436	1.010	-.02000	.01170	.05820	.02000	.01060	.05840	.18220	.00200	-.00630	.07080
8.420	2.020	-.04000	.05720	.05710	.02000	.05520	.05910	.93420	.00230	-.00630	.07080
8.419	3.060	.04000	.10430	.05460	.01970	.10120	.06010	1.68410	.00260	-.00610	.07020
8.415	4.080	-.01000	.15000	.05150	.02120	.14600	.06200	2.35490	.00380	-.00590	.06880
8.416	5.020	-.07000	.19420	.04750	.02130	.18930	.06440	2.94120	.00430	-.00590	.06820
8.403	6.080	-.06000	.24250	.04280	.02060	.23660	.06820	3.46890	.00470	-.00590	.06860
8.405	7.070	-.06000	.29350	.03660	.01990	.28670	.07240	3.95920	.00530	-.00610	.06960
8.409	8.060	-.07000	.34230	.03010	.01970	.33460	.07790	4.29820	.00590	-.00610	.06850
8.396	9.080	-.07000	.39090	.02310	.01960	.38230	.08450	4.52310	.00700	-.00620	.06880
8.399	10.100	-.10000	.44340	.01420	.02000	.43400	.09180	4.72830	.00810	-.00600	.06750
8.392	11.120	-.08000	.49440	.00590	.01970	.48400	.10120	4.78250	.00900	-.00600	.06760
8.389	12.160	-.02000	.54360	-.00320	.01990	.53190	.11230	4.73430	.00940	-.00590	.06670
8.371	13.160	-.05000	.59550	-.01050	.02090	.58230	.12540	4.64440	.00950	-.00570	.06630
8.377	14.150	-.09000	.64640	-.01870	.02130	.63130	.13990	4.51360	.00950	-.00570	.06610
8.366	15.210	-.02000	.70030	-.02690	.02080	.68290	.15770	4.33000	.00940	-.00570	.06550
8.365	16.160	.03000	.75070	-.03550	.01970	.73570	.17650	4.17310	.00920	-.00570	.06470
8.347	17.190	.00000	.81120	-.04420	.01790	.78800	.19750	3.98970	.00950	-.00540	.06500
8.361	18.200	.01000	.87190	-.05200	.01640	.84460	.22290	3.78860	.01010	-.00510	.06370
8.377	19.210	-.08000	.93060	-.05760	.01250	.89770	.25180	3.56580	.01110	-.00460	.06320
8.332	20.280	.00000	1.01520	-.06100	-.00010	.97350	.29460	3.30430	.00960	-.00410	.06550
8.343	21.310	.03000	1.06960	-.05610	-.00080	1.01680	.33540	3.02310	.00780	-.00360	.06940
8.329	22.270	.15000	1.12110	-.05520	-.00290	1.05880	.37290	2.83920	.00820	-.00480	.06800
8.303	23.290	.06000	1.18040	-.05620	-.00850	1.11100	.41710	2.66350	.00750	-.00400	.06540
8.336	24.300	-.11000	1.23540	-.05410	-.01000	1.14820	.45900	2.50130	.00730	-.00410	.06500
	GRADIENT	.01086	.04533	-.00024	-.00000	.04432	-.00023	.71576	.00043	.00000	-.00019

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 8/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
1.976	-3.100	-.06000	-.17610	.05600	.02490	-.17280	.06550	-2.63910	-.00210	-.00210	-.01370
1.972	-1.940	-.08000	-.12640	.05900	.02550	-.12430	.06320	-1.96600	-.00200	-.00210	-.01320
1.968	.000	-.13000	-.03890	.06010	.02690	-.03890	.06010	-.64650	-.00210	-.00210	-.01170
1.966	1.040	-.10000	.00010	.05880	.02790	-.00100	.05880	-.01620	-.00210	-.00250	-.01290
1.963	1.940	-.05000	.03030	.05620	.02770	.02840	.05710	.49700	-.00230	-.00230	-.01210
1.971	2.940	-.02000	.07860	.05530	.02820	.07560	.05920	1.27730	-.00260	-.00240	-.01370
1.971	3.930	-.05000	.12020	.05240	.02760	.11630	.06050	1.92200	-.00260	-.00240	-.01260
1.968	4.950	-.03000	.16760	.04850	.02700	.16270	.06280	2.58990	-.00270	-.00230	-.01290
1.969	5.870	-.03000	.20990	.04430	.02650	.20430	.06550	3.12000	-.00300	-.00230	-.01400
1.968	6.860	-.01000	.25780	.03910	.02620	.25130	.06960	3.61210	-.00300	-.00240	-.01420
1.969	7.840	.00000	.30550	.03340	.02680	.29800	.07470	3.98730	-.00290	-.00220	-.01300
1.966	8.830	.01000	.35410	.02670	.02670	.34580	.08070	4.28310	-.00290	-.00240	-.01180
1.968	9.820	-.01000	.40960	.02080	.02620	.40010	.09040	4.42710	-.00290	-.00240	-.01180
1.966	10.780	.00000	.45570	.01470	.02720	.44490	.09970	4.46320	-.00300	-.00220	-.01300
1.965	11.770	.01000	.50460	.00790	.02820	.49240	.11070	4.44850	-.00290	-.00240	-.01170
1.963	12.770	-.01000	.55200	.00130	.02930	.53810	.12330	4.36500	-.00330	-.00210	-.01210
1.963	13.730	.00000	.60720	-.00500	.02900	.59100	.13920	4.24450	-.00330	-.00220	-.01370
1.963	14.710	-.03000	.66600	-.01120	.02680	.64700	.15830	4.08780	-.00360	-.00220	-.01280
1.961	15.710	-.02000	.72280	-.01730	.02310	.70050	.17900	3.91300	-.00390	-.00230	-.01200
1.962	16.690	-.04000	.78780	-.02200	.01820	.76090	.20510	3.70940	-.00380	-.00220	-.01010
1.963	17.660	-.01000	.84940	-.02450	.01380	.81680	.23440	3.48460	-.00420	-.00300	-.00820
1.959	18.660	-.01000	.92270	-.01170	.00620	.87800	.28410	3.09010	-.00700	-.00500	-.00550
1.964	19.630	.00000	.97130	-.00510	.00560	.91650	.32150	2.85110	-.00550	-.00350	-.00820
1.959	20.620	-.03000	1.03920	-.00580	.00010	.97460	.36050	2.70360	-.00350	-.00300	-.00970
1.959	21.610	-.01000	1.10760	-.00770	-.00520	1.03260	.40070	2.57730	-.00340	-.00230	-.01020
1.958	22.600	-.02000	1.18060	-.01030	-.00970	1.09390	.44410	2.46290	-.00170	-.00230	-.00750
1.954	23.590	-.04000	1.25170	-.01440	-.01210	1.15280	.48770	2.36360	-.00020	-.00200	-.00670
	GRADIENT	.00675	.04217	-.00098	.00033	.04115	-.00046	.65259	-.00009	-.00004	.00005

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 7/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
3.971	-3.130	-.04000	-.18160	.05620	.02500	-.17830	.06610	-2.69820	-.00140	-.00100	-.00750
3.965	-1.980	-.03000	-.13150	.05090	.02520	-.12940	.06350	-2.03900	-.00140	-.00120	-.00660
3.968	.000	-.03000	-.04110	.06060	.02570	-.04110	.06060	-.67730	-.00160	-.00120	-.00720
3.961	.970	-.03000	-.00080	.06000	.02610	-.00180	.06000	-.03040	-.00170	-.00130	-.00660
3.965	1.970	-.03000	.04050	.05940	.02670	.03850	.05980	.64390	-.00180	-.00120	-.00730
3.975	3.000	-.04000	.08390	.05600	.02630	.08090	.06040	1.34040	-.00190	-.00120	-.00760
3.968	3.950	-.03000	.12790	.05330	.02630	.12400	.06200	2.00040	-.00200	-.00120	-.00760
3.979	4.930	-.03000	.17710	.04920	.02630	.17220	.06420	2.68240	-.00210	-.00120	-.00630
3.971	5.930	-.03000	.22270	.04470	.02570	.21690	.06740	3.21550	-.00220	-.00110	-.00780
3.974	6.930	-.02000	.27250	.03850	.02450	.26590	.07120	3.73410	-.00210	-.00110	-.00720
3.970	7.940	-.02000	.32020	.03260	.02400	.31260	.07660	4.08300	-.00220	-.00120	-.00670
3.971	8.900	-.02000	.37160	.02620	.02330	.36320	.08340	4.35470	-.00220	-.00110	-.00720
3.968	9.910	.00000	.41720	.01930	.02310	.40760	.09080	4.49020	-.00230	-.00110	-.00640
3.967	10.880	-.01000	.46430	.01240	.02370	.45360	.09990	4.54190	-.00230	-.00100	-.00750
3.966	11.900	-.03000	.51140	.00490	.02610	.49930	.11040	4.52280	-.00240	-.00110	-.00780
3.956	12.900	-.01000	.56060	-.00210	.02810	.54690	.12310	4.44140	-.00250	-.00110	-.00660
3.960	13.890	.01000	.61020	-.00930	.02880	.59460	.13750	4.32330	-.00250	-.00110	-.00650
3.965	14.900	-.02000	.66270	-.01650	.02880	.64470	.15430	4.17730	-.00240	-.00110	-.00550
3.959	15.900	.01000	.72170	-.02430	.02780	.70290	.17430	4.01960	-.00240	-.00120	-.00550
3.956	16.850	-.08000	.78380	-.03150	.02270	.75930	.19690	3.85530	-.00340	-.00120	-.00550
3.950	17.830	-.05000	.84740	-.03730	.01910	.81810	.22400	3.65190	-.00430	-.00240	-.00170
3.958	18.850	-.06000	.91461	-.04040	.01260	.87860	.25730	3.41510	-.00370	-.00250	-.00120
3.954	19.830	-.02000	.98940	-.03350	.00530	.94220	.30400	3.09890	-.00110	-.00280	-.00010
3.956	20.820	-.01000	1.04520	-.03220	.00350	.99840	.34130	2.89570	-.00130	-.00160	-.00310
3.958	21.820	-.07000	1.11200	-.03120	-.00250	1.04390	.38440	2.71570	-.00240	-.00020	-.00350
3.956	22.790	-.03000	1.18150	-.03060	-.01010	1.10110	.42940	2.56400	-.00330	-.00130	.00020
3.950	23.840	-.10000	1.25210	-.03240	-.01290	1.15840	.47650	2.43130	-.00400	-.00170	-.00070
	GRADIENT	.00046	.04397	-.00085	.00018	.04296	-.00030	.67166	-.00009	-.00002	.00001

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LPEF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 6/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
4.971	-3.160	-.06000	-.18440	.05500	.02490	-.18110	.06510	-2.78240	-.00130	-.00060	-.00540
4.962	-1.970	-.01000	-.13130	.05790	.02510	-.12920	.06240	-2.07080	-.00130	-.00060	-.00610
4.969	.000	-.02000	-.03970	.05970	.02520	-.03970	.05970	-.66440	-.00150	-.00070	-.00580
4.963	.990	.01000	.00140	.05900	.02570	.00040	.05900	.00610	-.00150	-.00070	-.00620
4.956	1.960	.01000	.04170	.05780	.02580	.03970	.05910	.67200	-.00170	-.00070	-.00550
4.952	2.980	-.01000	.08600	.05500	.02590	.08300	.05940	1.39810	-.00180	-.00060	-.00560
4.959	3.960	.02000	.13320	.05190	.02540	.12920	.06190	2.11990	-.00200	-.00070	-.00550
4.956	4.960	-.03000	.18070	.04750	.02490	.17590	.06290	2.79430	-.00220	-.00060	-.00580
4.974	5.960	.01000	.22840	.04320	.02440	.22260	.06670	3.33790	-.00210	-.00060	-.00480
4.969	6.940	-.05000	.27830	.03750	.02350	.27170	.07090	3.83320	-.00240	-.00060	-.00460
4.964	7.950	-.01000	.32830	.03100	.02250	.32080	.07610	4.21700	-.00240	-.00070	-.00450
4.965	8.940	-.01000	.37430	.02470	.02190	.36590	.08250	4.43330	-.00240	-.00060	-.00480
4.955	9.940	-.01000	.42360	.01680	.02150	.41430	.08970	4.61930	-.00250	-.00060	-.00540
4.960	10.930	-.02000	.47080	.01060	.02240	.46030	.09960	4.62050	-.00250	-.00070	-.00360
4.946	11.930	-.01000	.52330	.00390	.02490	.51110	.11210	4.56160	-.00280	-.00060	-.00480
4.955	12.900	-.01000	.56780	-.00330	.02800	.55400	.12650	4.38060	-.00280	-.00070	-.00360
4.948	13.920	-.01000	.61850	-.01090	.02720	.60300	.13820	4.36210	-.00270	-.00090	-.00350
4.956	14.930	-.01000	.67240	-.01910	.02730	.65460	.15470	4.23100	-.00260	-.00090	-.00270
4.941	15.970	-.09000	.72960	-.02730	.02600	.70890	.17450	4.06320	-.00250	-.00100	-.00220
4.941	16.920	-.08000	.78800	-.03560	.02380	.76430	.19530	3.91330	-.00280	-.00090	-.00240
4.940	17.920	-.06000	.85150	-.04310	.02050	.82340	.22100	3.72670	-.00310	-.00170	-.00080
4.929	18.920	-.02000	.91260	-.04880	.01550	.87910	.24970	3.52010	-.00300	-.00170	-.00220
4.938	19.920	-.02000	.98030	-.04240	.00820	.93610	.29420	3.18190	-.00120	-.00210	.00030
4.924	20.910	-.04000	1.04000	-.04370	.00660	.98710	.33030	2.98850	.00010	-.00110	-.00090
4.932	21.920	-.06000	1.09860	-.04090	.00360	1.03450	.37210	2.77990	.00100	.00030	-.00330
4.935	22.910	-.09000	1.15080	-.04000	-.00220	1.08390	.41470	2.61330	-.00060	.00100	-.00390
4.923	23.950	-.07000	1.22350	-.04210	-.00580	1.13530	.45810	2.47860	-.00230	.00090	-.00260
	GRADIENT	.00357	.04453	-.00090	.00005	.04356	-.00031	.69281	-.00014	-.00000	.00001

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 5/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.965	-3.170	-.01000	-.18360	.05630	.02460	-.18020	.06640	-2.71610	-.00130	-.00050	-.00430
5.958	-1.990	-.01000	-.13220	.05700	.02420	-.13010	.06150	-2.11450	-.00140	-.00050	-.00520
5.940	.000	.01000	-.04160	.05690	.02450	-.04160	.05690	-.73120	-.00150	-.00060	-.00440
5.941	1.020	.01000	.00150	.05640	.02460	.00050	.05640	.00860	-.00160	-.00060	-.00350
5.923	1.980	.02000	.04510	.05670	.02500	.04310	.05830	.73960	-.00170	-.00050	-.00470
5.919	2.970	.02000	.08720	.05400	.02490	.08430	.05850	1.44150	-.00180	-.00060	-.00360
5.917	3.980	.01000	.13230	.05150	.02540	.12840	.06050	2.12080	-.00170	-.00040	-.00370
5.919	4.960	.02000	.18270	.04900	.02490	.17780	.06460	2.75200	-.00180	-.00050	-.00390
5.917	5.990	.05000	.22730	.04450	.02490	.22140	.06790	3.25990	-.00170	-.00030	-.00380
5.902	6.970	.00000	.27970	.03680	.02370	.27320	.07050	3.87350	-.00200	-.00040	-.00390
5.908	7.980	-.01000	.32730	.02940	.02240	.32000	.07460	4.29070	-.00220	-.00050	-.00390
5.839	8.980	-.04000	.37570	.02350	.02100	.36740	.08180	4.48930	-.00230	-.00040	-.00310
5.900	9.970	-.04000	.42570	.01690	.02120	.41640	.09040	4.60740	-.00220	-.00040	-.00290
5.891	10.970	-.02000	.47800	.01020	.02270	.46740	.10100	4.62690	-.00240	-.00040	-.00260
5.885	11.960	-.05000	.52140	.00330	.02450	.50940	.11130	4.57580	-.00260	-.00040	-.00180
5.887	12.980	-.05000	.57350	-.00490	.02590	.56000	.12400	4.51680	-.00290	-.00050	-.00270
5.908	13.970	-.06000	.62470	-.01300	.02650	.60940	.13820	4.40850	-.00280	-.00070	-.00130
5.911	14.980	-.04000	.67650	-.02090	.02620	.65890	.15460	4.26240	-.00240	-.00080	-.00150
5.906	16.000	.00000	.73250	-.02920	.02630	.71220	.17380	4.09750	-.00240	-.00070	-.00130
5.905	17.010	-.05000	.79280	-.03820	.02330	.76930	.19530	3.93820	-.00220	-.00070	-.00220
5.887	17.990	-.05000	.85130	-.04540	.02000	.82370	.21970	3.74900	-.00200	-.00130	-.00040
5.885	18.990	-.01000	.91490	-.05300	.01520	.88230	.24760	3.56330	-.00190	-.00120	-.00050
5.881	20.020	.00000	.98210	-.05270	.00970	.94080	.28670	3.28130	-.00270	-.00460	.00580
5.896	21.040	.00000	1.03630	-.04950	.00770	.98500	.32590	3.02240	-.00050	-.00090	.00030
5.876	22.010	-.06000	1.09270	-.04600	.00380	1.03030	.36680	2.80900	.00110	.00000	-.00110
5.882	23.030	.00000	1.15490	-.04550	-.00280	1.08060	.40990	2.63610	.00120	.00020	-.00150
5.870	24.020	-.03000	1.21490	-.04910	-.00510	1.12970	.44980	2.51160	.00050	-.00060	.00090
	GRADIENT	.00381	.04465	-.00084	.00010	.04364	-.00064	.68916	-.00006	.00000	.00012

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 4/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.973	-3.180	.02000	-.18600	.05540	.02470	-.18260	.06560	-2.78380	-.00090	-.00020	-.00300
6.988	-2.010	.00000	-.13150	.05780	.02380	-.12940	.06240	-2.07360	-.00120	-.00020	-.00400
6.969	-.010	.00000	-.04370	.05990	.02500	-.04370	.05990	-.72990	-.00100	-.00030	-.00280
6.969	.980	-.05000	.00030	.05980	.02540	-.00070	.05980	-.01150	-.00110	-.00030	-.00300
6.957	1.990	-.01000	.04440	.05840	.02550	.04230	.05990	.70610	-.00120	-.00020	-.00360
6.952	3.020	.01000	.08810	.05610	.02530	.08510	.06060	1.40240	-.00130	-.00030	-.00270
6.967	3.990	-.09000	.13420	.05330	.02540	.13020	.06250	2.08340	-.00130	-.00010	-.00350
6.964	5.010	-.07000	.18310	.04920	.02480	.17810	.06500	2.73910	-.00120	-.00020	-.00270
6.962	5.990	-.08000	.23010	.04330	.02440	.22430	.06710	3.34220	-.00140	-.00010	-.00380
6.968	6.990	-.03000	.27990	.03790	.02380	.27320	.07170	3.81060	-.00140	-.00010	-.00340
6.956	8.010	-.05000	.32700	.03160	.02290	.31940	.07690	4.15490	-.00150	.00000	-.00370
6.946	9.010	-.02000	.38060	.02500	.02190	.37200	.08430	4.41240	-.00140	-.00020	-.00230
6.939	10.010	-.01000	.42810	.01770	.02210	.41850	.09180	4.55790	-.00130	-.00010	-.00240
6.946	11.020	-.03000	.47430	.00920	.02330	.46380	.09970	4.64970	-.00130	.00000	-.00340
6.948	12.040	-.07000	.52440	.00150	.02520	.51280	.11080	4.62540	-.00150	.00000	-.00310
6.943	13.040	-.06000	.57590	-.00580	.02660	.56240	.12430	4.52380	-.00180	.00000	-.00350
6.917	14.040	-.05000	.62670	-.01400	.02710	.61140	.13850	4.41560	-.00160	-.00010	-.00230
6.909	15.040	-.06000	.68190	-.02190	.02580	.66420	.15590	4.26100	-.00210	-.00030	-.00170
6.920	16.060	-.02000	.73490	-.03050	.02440	.71460	.17400	4.10660	-.00190	-.00030	-.00180
6.903	17.080	-.05000	.79710	-.03940	.02230	.77350	.19640	3.93830	-.00180	-.00070	-.00100
6.908	18.080	-.05000	.85480	-.04750	.01900	.82730	.22010	3.75900	-.00160	-.00090	-.00090
6.886	19.080	-.05000	.91630	-.05500	.01500	.88400	.24760	3.57070	-.00090	-.00130	-.00070
6.876	20.100	-.01000	.98350	-.05540	.00910	.94270	.28600	3.29640	-.00230	-.00420	.00510
6.882	21.130	-.10000	1.03840	-.05500	.00780	.98840	.32300	3.05950	-.00160	-.00190	.00070
6.875	22.090	-.05000	1.08340	-.05370	.00680	1.02410	.35770	2.86320	.00090	-.00010	-.00070
6.904	23.140	.01000	1.15220	-.05070	.00050	1.07950	.40620	2.65740	.00100	-.00040	-.00040
6.897	24.150	-.01000	1.20830	-.05200	-.00420	1.12380	.44690	2.51470	.00160	-.00060	.00030
	GRADIENT	-.00929	.04433	-.00024	.00018	.04330	-.00045	.68374	-.00004	.00000	.00002

ARC 135-1-12 LA66 BASELINE (RNJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 1/ 0 RN/L = 8.42 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.426	-3.180	-.05000	-.19000	.05680	.02410	-.18660	.06720	-2.77480	-.00050	-.00010	-.00320
8.434	-2.030	-.01000	-.13670	.05960	.02420	-.13450	.06440	-2.08790	-.00050	-.00010	-.00280
8.407	-.010	-.05000	-.04670	.06200	.02410	-.04670	.06200	-.75310	-.00060	-.00010	-.00260
8.410	1.000	-.02000	.00080	.06160	.02420	-.00030	.06160	-.00430	-.00070	-.00010	-.00120
8.422	2.000	-.03000	.04340	.06030	.02420	.04130	.06180	.66880	-.00080	-.00010	-.00220
8.407	3.010	-.03000	.09120	.05770	.02420	.08810	.06250	1.40990	-.00080	.00000	-.00250
8.402	4.000	-.07000	.13780	.05490	.02450	.13370	.06440	2.07590	-.00070	.00000	-.00150
8.404	5.040	-.05000	.18690	.05070	.02430	.18170	.06690	2.71700	-.00080	.00010	-.00270
8.388	6.040	-.05000	.23400	.04590	.02360	.22790	.07030	3.24160	-.00080	.00000	-.00130
8.392	7.040	-.04000	.28370	.03990	.02310	.27670	.07430	3.72130	-.00100	.00020	-.00250
8.390	8.070	-.03000	.33560	.03240	.02200	.32780	.07920	4.13600	-.00100	.00010	-.00170
8.394	9.080	.02000	.38420	.02480	.02150	.37550	.08520	4.40700	-.00090	.00010	-.00190
8.386	10.080	.01000	.43540	.01740	.02180	.42560	.09330	4.56360	-.00080	.00010	-.00120
8.374	11.110	.00000	.48480	.00950	.02350	.47390	.10280	4.61060	-.00080	.00010	-.00140
8.376	12.100	-.04000	.53510	.00160	.02540	.52280	.11380	4.59510	-.00100	.00020	-.00220
8.407	13.130	-.01000	.58620	-.00640	.02610	.57230	.12700	4.50730	-.00120	.00010	-.00080
8.402	14.110	-.10000	.63750	-.01450	.02620	.62180	.14140	4.39620	-.00120	.00020	-.00140
8.408	15.140	.02000	.69120	-.02300	.02420	.67320	.15830	4.25160	-.00150	.00000	-.00020
8.374	16.160	-.05000	.73020	-.03140	.02260	.72330	.17360	4.06420	-.00140	-.00020	-.00060
8.373	17.160	-.02000	.80930	-.04030	.02000	.78520	.20020	3.92150	-.00140	-.00030	.00030
8.356	18.180	.03000	.87190	-.04850	.01610	.84350	.22590	3.73420	-.00120	-.00090	.00180
8.367	19.210	-.07000	.93060	-.05660	.01230	.89740	.25270	3.55110	-.00080	-.00150	.00300
8.337	20.190	.04000	.98620	-.05740	.00740	.95480	.29000	3.29210	-.00190	-.00360	.00700
8.338	21.200	-.02000	1.05470	-.05940	.00460	1.00480	.32610	3.08160	-.00200	-.00250	.00490
8.344	22.220	-.06000	1.10640	-.06070	.00400	1.04720	.36230	2.89030	-.00020	-.00220	.00490
8.336	23.280	-.08000	1.16640	-.05760	-.00110	1.09420	.40810	2.68090	.00020	-.00190	.00460
8.323	24.300	.02000	1.23210	-.05320	-.00790	1.14480	.45860	2.49650	.00120	-.00030	.00180
	GRADIENT	-.00226	.04545	-.00023	.00004	.04440	-.00044	.68153	-.00004	.00001	.00019

ARC 135-1-12 LA66 BASELINE (RNJ003) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	4.000	SPDBRK =	25.000
ELEVON =	.000	AILPON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO: 11/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.989	-3.030	-.05000	-.17650	.05470	.02150	-.17330	.06400	-2.70900	-.00220	.00540	-.07390
5.976	-2.010	-.03000	-.12990	.05700	.02160	-.12780	.06150	-2.07680	-.00280	.00530	-.07480
5.962	-.050	-.04000	-.04140	.05960	.02190	-.04140	.05970	-.69340	-.00410	.00530	-.07560
5.964	.980	-.02000	.00290	.05910	.02210	.00190	.05920	.03180	-.00470	.00540	-.07640
5.968	1.990	.00000	.04690	.05790	.02230	.04490	.05940	.75470	-.00520	.00520	-.07550
5.954	2.960	.00000	.09010	.05580	.02230	.08710	.06040	1.44200	-.00580	.00530	-.07720
5.967	3.980	.00000	.13560	.05290	.02180	.13160	.06210	2.11840	-.00630	.00520	-.07650
5.962	4.970	-.05000	.18750	.04910	.02040	.18250	.06510	2.80260	-.00720	.00530	-.07610
5.971	5.970	.01000	.23550	.04410	.01970	.22970	.06840	3.36010	-.00780	.00520	-.07620
5.950	6.980	-.03000	.28530	.03860	.01930	.27850	.07300	3.81550	-.00820	.00550	-.07710
5.949	7.970	.03000	.33370	.03260	.01890	.32590	.07860	4.14900	-.00880	.00570	-.07730
5.953	8.960	-.03000	.38240	.02580	.01810	.37370	.08500	4.39490	-.00990	.00570	-.07720
5.950	9.990	.01000	.43040	.01800	.01840	.42080	.09240	4.55360	-.01130	.00570	-.07770
5.948	10.990	.01000	.48150	.00990	.01900	.47070	.10150	4.63770	-.01240	.00560	-.07630
5.933	11.990	.00000	.53140	.00190	.01920	.51940	.11230	4.62550	-.01330	.00550	-.07600
5.947	12.980	.01000	.57990	-.00630	.01970	.56650	.12410	4.55410	-.01330	.00520	-.07520
5.935	14.010	-.03000	.63430	-.01510	.02070	.61900	.13890	4.45640	-.01310	.00540	-.07630
5.938	15.000	-.06000	.68840	-.02320	.01910	.67100	.15580	4.30760	-.01330	.00520	-.07360
5.920	16.030	-.01000	.75020	-.03170	.01750	.73090	.17690	4.13200	-.01320	.00480	-.07320
5.920	17.030	-.01000	.80540	-.03950	.01670	.78260	.19840	3.94410	-.01300	.00420	-.07210
5.940	18.030	-.09000	.86120	-.04630	.01430	.83330	.22250	3.74470	-.01270	.00390	-.07310
5.931	19.040	-.09000	.93050	-.05030	.00820	.89590	.25600	3.49940	-.01260	.00100	-.06630
5.928	20.040	-.01000	.99600	-.05460	.00530	.95440	.29020	3.28860	-.01340	.00100	-.06590
5.933	21.050	-.06000	1.04850	-.04670	.00230	.99530	.33300	2.98860	-.01100	.00460	-.07270
5.920	22.110	-.02000	1.10810	-.04550	-.00040	1.04380	.37490	2.78440	-.00880	.00500	-.07330
5.923	23.050	-.08000	1.16500	-.04390	-.00450	1.08910	.41580	2.61950	-.00700	.00690	-.07800
5.903	24.080	-.12000	1.22380	-.04250	-.00660	1.13460	.46060	2.46350	-.00580	.00660	-.07750
	GRADIENT	.00321	.04192	-.00065	-.00004	.04390	.00007	.69474	-.00061	-.00001	-.00030

ARC 135-1-12 LA66 BASELINE (RNJ003) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 10/ 0 RN/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.928	-3.010	.05000	-.17120	.05560	.01970	-.16800	.06450	-2.60660	-.00240	.00550	-.07360
6.917	-2.030	-.02000	-.12840	.05740	.02000	-.12620	.06200	-2.03780	-.00280	.00550	-.07400
6.891	-.010	-.02000	-.03710	.05990	.02000	-.03710	.06000	-.61820	-.00410	.00550	-.07570
6.898	.960	-.02000	.00460	.05930	.02030	.00360	.05930	.06070	-.00460	.00550	-.07450
6.881	1.990	-.05000	.05010	.05810	.02050	.04810	.05980	.80340	-.00520	.00540	-.07560
6.879	2.960	-.02000	.09290	.05620	.02060	.08990	.06090	1.47550	-.00570	.00540	-.07580
6.899	3.990	-.04000	.14010	.05310	.02010	.13600	.06270	2.16910	-.00630	.00540	-.07560
6.879	5.000	-.04000	.19050	.04940	.01930	.18550	.06580	2.81990	-.00690	.00540	-.07530
6.836	5.980	-.05000	.23770	.04420	.01690	.23180	.06880	3.37050	-.00750	.00550	-.07560
6.885	7.010	-.07000	.29010	.03870	.01660	.28330	.07380	3.83820	-.00870	.00570	-.07580
6.878	8.030	-.04000	.33920	.03210	.01710	.33140	.07920	4.18640	-.00900	.00600	-.07790
6.878	9.020	-.02000	.38640	.02510	.01700	.37770	.08540	4.42500	-.01000	.00610	-.07860
6.855	10.010	-.06000	.43330	.01740	.01780	.42370	.09250	4.58080	-.01100	.00600	-.07630
6.849	11.030	-.03000	.48670	.00860	.01830	.47610	.10150	4.68850	-.01220	.00600	-.07580
6.859	12.050	-.04000	.53430	.00120	.01890	.52230	.11270	4.63430	-.01270	.00590	-.07540
6.887	13.050	-.09000	.58000	-.00710	.02010	.57150	.12520	4.56320	-.01250	.00570	-.07530
6.860	14.060	-.06000	.64100	-.01570	.01950	.62560	.14050	4.45340	-.01290	.00560	-.07540
6.830	15.060	-.01000	.69570	-.02380	.01900	.67800	.15770	4.29790	-.01290	.00550	-.07540
6.833	16.080	-.03000	.74810	-.03280	.01830	.72800	.17570	4.14410	-.01250	.00500	-.07380
6.836	17.070	-.05000	.80370	-.04090	.01660	.78030	.19860	3.93510	-.01260	.00340	-.07240
6.818	18.070	-.09000	.86790	-.04900	.01270	.84030	.22260	3.77490	-.01280	.00390	-.07140
6.821	19.110	-.02000	.93200	-.05490	.00830	.89860	.25320	3.54880	-.01230	.00250	-.06860
6.833	20.110	-.15000	.99510	-.05810	.00460	.95440	.28770	3.31720	-.01340	.00070	-.06490
6.838	21.130	-.06000	1.04860	-.05590	.00180	.99830	.32570	3.06460	-.01250	.00320	-.06890
6.820	22.210	-.03000	1.11210	-.05300	-.00080	1.04950	.37140	2.82590	-.01010	.00390	-.07130
6.814	23.150	-.06000	1.17110	-.05620	-.00430	1.09890	.40870	2.68980	-.00820	.00270	-.06940
6.803	24.220	-.13000	1.23940	-.05440	-.00690	1.15260	.45870	2.51250	-.00540	.00290	-.07000
	GRADIENT	-.00809	.04482	-.00071	.00000	.04379	.00010	.68727	-.00057	-.00002	-.00024

ARC 135-1-12 LA66 BASELINE (RNJ003) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	4.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 9/ 0 RN/L = 8.40 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.448	-2.980	-.04000	-.16670	.05550	.01710	-.16360	.06410	-2.55170	-.00330	.00570	-.07210
8.438	-2.040	-.03000	-.12480	.05770	.01740	-.12270	.06210	-1.97620	-.00390	.00550	-.07130
8.399	-.010	-.02000	-.03400	.06000	.01720	-.03400	.06000	-.56650	-.00510	.00550	-.07220
8.371	.980	-.05000	.00900	.05970	.01730	.00800	.05980	.13310	-.00570	.00540	-.07250
8.386	1.990	-.02000	.05530	.05940	.01730	.05320	.06030	.88260	-.00620	.00550	-.07250
8.370	2.990	-.02000	.10030	.05640	.01730	.09730	.06150	1.58040	-.00680	.00540	-.07220
8.372	4.030	-.03000	.14980	.05320	.01710	.14570	.06360	2.29170	-.00750	.00540	-.07260
8.357	5.020	-.06000	.19840	.04930	.01650	.19330	.06640	2.90960	-.00800	.00550	-.07310
8.364	6.050	-.04000	.24730	.04430	.01550	.24120	.07010	3.44340	-.00860	.00570	-.07380
8.361	7.060	-.02000	.29740	.03820	.01540	.29040	.07450	3.89990	-.00900	.00590	-.07380
8.346	8.070	-.06000	.35200	.03140	.01540	.34410	.08050	4.27530	-.00970	.00610	-.07460
8.335	9.070	-.11000	.39480	.02480	.01530	.38600	.08680	4.44910	-.01080	.00610	-.07440
8.337	10.070	-.09000	.44390	.01730	.01570	.43400	.09470	4.58420	-.01200	.00610	-.07340
8.333	11.090	-.06000	.50020	.00840	.01560	.48930	.10450	4.68280	-.01330	.00600	-.07280
8.333	12.110	-.05000	.54940	.00040	.01620	.53710	.11570	4.64320	-.01370	.00590	-.07240
8.310	13.140	-.12000	.60020	-.00810	.01840	.58610	.12850	4.56150	-.01460	.00580	-.07170
8.323	14.140	-.10000	.65160	-.01650	.01800	.63590	.14320	4.44180	-.01320	.00570	-.07190
8.327	15.160	-.02000	.70490	-.02460	.01780	.68680	.16060	4.27750	-.01320	.00540	-.07120
8.312	16.170	-.07000	.76340	-.03370	.01660	74270	18010	4.12250	-.01340	.00520	-.07230
8.303	17.170	-.09000	.81940	-.04200	.01410	.79530	.20170	3.94260	-.01330	.00430	-.06920
8.287	18.190	-.13000	.87760	-.04990	.01120	.84940	.22650	3.74930	-.01300	.00370	-.06590
8.280	19.270	-.08000	.94590	-.05720	.00610	.91180	.25220	3.53140	-.01380	.00260	-.06510
8.275	20.300	-.11000	1.00980	-.06060	.00210	.96720	.29330	3.29600	-.01440	.00000	-.05980
8.279	21.270	-.07000	1.06820	-.06230	-.00330	1.01810	.32940	3.09020	-.01590	.00050	-.06070
8.260	22.290	-.12000	1.12470	-.05960	-.00560	1.06330	.37140	2.86260	-.01380	.00160	-.06250
8.288	23.270	-.04000	1.18590	-.05830	-.00950	1.11240	.41490	2.68100	-.00990	.00270	-.06670
8.266	24.300	-.06000	1.25160	-.05760	-.01590	1.16450	.46240	2.51810	-.00750	.00330	-.06790
	GRADIENT	.00151	.04497	-.00025	-.00000	.04394	-.00013	.69735	-.00059	-.00003	-.00012

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

ARC 135-1-12 LA66 BASELINE (RNJ004) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 6.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 15/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.871	-7.640	.00000	.28500	.03700	.01500	.27940	.06740	4.14590	.01380	-.01340	.14270
5.887	-6.680	.00000	.27960	.03790	.01620	.27390	.06770	4.04450	.01170	-.01120	.12220
5.894	-5.680	.00000	.27880	.03680	.01780	.27310	.06850	3.98740	.00970	-.00900	.10330
5.894	-4.690	.00000	.27660	.03920	.01970	.27080	.06870	3.94090	.00790	-.00730	.08510
5.897	-3.720	.00000	.27400	.03920	.02210	.26820	.06840	3.92010	.00620	-.00580	.06650
5.909	-2.750	.00000	.26870	.03940	.02400	.26290	.06810	3.86220	.00460	-.00400	.04870
5.908	-1.760	.00000	.26300	.04020	.02600	.25720	.06820	3.77360	.00320	-.00260	.03170
5.905	-.800	.00000	.26170	.04060	.02660	.25580	.06840	3.73890	.00190	-.00130	.01480
5.911	.170	.00000	.26100	.04050	.02670	.25520	.06830	3.73740	.00030	.00000	-.00330
5.903	1.170	.00000	.26090	.04060	.02640	.25500	.06860	3.71780	-.00120	.00140	-.02120
5.919	2.150	.00000	.26030	.04060	.02480	.25440	.06830	3.72330	-.00270	.00300	-.03830
5.909	3.130	.00000	.26210	.04020	.02360	.25630	.06810	3.76530	-.00440	.00460	-.05560
5.908	4.100	.00000	.26160	.04010	.02190	.25580	.06800	3.76330	-.00600	.00640	-.07300
5.919	5.060	.00000	.26360	.03910	.02000	.25790	.06720	3.83730	-.00770	.00820	-.09020
5.923	6.030	.00000	.26660	.03860	.01820	.26090	.06720	3.88410	-.00970	.01030	-.11020
5.942	7.030	.00000	.26790	.03830	.01630	.26220	.06620	3.88410	-.01170	.01250	-.12940
5.936	8.020	.00000	.26850	.03670	.01430	.26300	.06530	4.02600	-.01380	.01500	-.14670
	GRADIENT	.00000	-.00166	.00014	.00022	-.00166	-.00004	-.02193	-.00155	.00151	-.01791

RUN NO. 17/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.884	-7.660	.00000	.28900	.03510	.01320	.28360	.06610	4.29060	.01380	-.01320	.14100
6.907	-6.710	.00000	.28140	.03650	.01510	.27590	.06670	4.13850	.01140	-.01100	.12020
6.899	-5.740	.00000	.28000	.03760	.01700	.27430	.06750	4.06110	.00970	-.00910	.10190
6.895	-4.710	.00000	.27000	.03830	.01890	.27230	.06800	4.00200	.00790	-.00720	.08370
6.907	-3.730	.00000	.27370	.03830	.02140	.26790	.06760	3.96370	.00620	-.00570	.06590
6.901	-2.780	.00000	.26760	.03920	.02350	.26180	.06780	3.86250	.00470	-.00410	.04820
6.909	-1.800	.00000	.26400	.03970	.02540	.25820	.06790	3.80050	.00330	-.00290	.03140
6.912	-.810	.00000	.26890	.03900	.02500	.26310	.06780	3.87960	.00190	-.00160	.01460
6.904	.180	.00000	.26470	.03960	.02620	.25890	.06790	3.81300	.00040	.00000	-.00410
6.908	1.120	.00000	.26300	.03980	.02580	.25720	.06800	3.78420	-.00100	.00130	-.02180
6.919	2.140	.00000	.25170	.03960	.02450	.25590	.06760	3.78410	-.00270	.00280	-.03960
6.911	3.100	.00000	.26460	.03950	.02330	.25880	.06780	3.81890	-.00430	.00470	-.05670
6.931	4.100	.00000	.26310	.03910	.02140	.25740	.06730	3.82530	-.00600	.00630	-.07480
6.929	5.070	.00000	.26470	.03850	.01900	.25900	.06680	3.87750	-.00760	.00830	-.09250
6.938	6.060	.00000	.26610	.03800	.01730	.26040	.06650	3.91890	-.00950	.01020	-.11110
6.948	7.040	.00000	.26630	.03730	.01560	.26080	.06570	3.96610	-.01140	.01230	-.12930
6.963	8.050	.00000	.26760	.03580	.01350	.26220	.06440	4.06860	-.01360	.01470	-.14890
	GRADIENT	.00000	-.00145	.00011	.00026	-.00145	-.00003	-.01922	-.00155	.00151	-.01797

ARC 135-1-12 LA66 BASELINE (RNJ004) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 6.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 16/ 0 RN/L = 8.52 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.445	-7.680	.00000	.29160	.03410	.01280	.28620	.06560	4.36400	.01340	-.01290	.13820
8.447	-6.700	.00000	.28840	.03540	.01470	.28280	.06650	4.25040	.01140	-.01080	.11890
8.447	-5.710	.00000	.28570	.03660	.01680	.28000	.06740	4.15310	.00960	-.00920	.10260
8.450	-4.730	.00000	.28130	.03790	.01910	.27550	.06820	4.04090	.00770	-.00740	.08310
8.469	-3.740	.00000	.27530	.03780	.02180	.26950	.06750	3.99340	.00600	-.00580	.06530
8.458	-2.780	.00000	.27650	.03800	.02410	.27070	.06780	3.99280	.00450	-.00430	.04790
8.466	-1.820	.00000	.27070	.03850	.02580	.26490	.06770	3.91100	.00320	-.00290	.03070
8.480	-.800	.00000	.26610	.03910	.02630	.26030	.06770	3.84220	.00170	-.00150	.01290
8.476	.170	.00000	.26630	.03900	.02660	.26050	.06770	3.84790	.00010	.00000	-.00530
8.468	1.160	.00000	.26760	.03920	.02630	.26180	.06810	3.84580	-.00140	.00130	-.02290
8.471	2.140	.00000	.27010	.03890	.02480	.26420	.06800	3.88740	-.00290	.00270	-.03950
8.482	3.130	.00000	.26640	.03900	.02320	.26060	.06770	3.85110	-.00440	.00430	-.05680
8.487	4.110	.00000	.27030	.03850	.02110	.26450	.06760	3.91410	-.00590	.00600	-.07520
8.513	5.090	.00000	.27270	.03740	.01910	.26700	.06680	3.99740	-.00770	.00780	-.09350
8.490	6.070	.00000	.27230	.03700	.01740	.26670	.06640	4.02070	-.00960	.00960	-.11090
8.494	7.050	.00000	.27270	.03630	.01560	.26710	.06570	4.06530	-.01160	.01190	-.12930
8.525	8.030	.00000	.27550	.03480	.01350	.27010	.06540	4.19200	-.01360	.01430	-.14830
	GRADIENT	.00000	-.00125	.00013	.00020	-.00125	-.00001	-.01759	-.00153	.00148	-.01785

ARC 135-1-12 LA66 BASELINE (RNJ005) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 12.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 20/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.888	-7.650	.00000	.58480	-.00890	.01110	.57320	.11640	4.92550	.02250	-.01420	.13820
5.890	-6.670	.00000	.58070	-.00800	.01420	.56900	.11630	4.89060	.01970	-.01220	.11920
5.882	-5.670	.00000	.57900	-.00820	.01730	.56740	.11580	4.89820	.01630	-.00950	.09930
5.903	-4.700	.00000	.57070	-.00740	.01980	.55910	.11480	4.85960	.01350	-.00740	.08060
5.896	-3.720	.00000	.56850	-.00640	.02250	.55670	.11530	4.82910	.01050	-.00570	.06380
5.899	-2.750	.00000	.56300	-.00450	.02550	.55090	.11600	4.75040	.00760	-.00410	.04590
5.900	-1.770	.00000	.56390	-.00470	.02770	.55180	.11600	4.75640	.00510	-.00290	.03030
5.910	-.820	.00000	.55680	-.00430	.02860	.54680	.11530	4.74250	.00240	-.00140	.01310
5.950	.150	.00000	.55990	-.00410	.02890	.54780	.11570	4.73340	-.00020	-.00010	-.00500
5.929	1.130	.00000	.55860	-.00410	.02830	.54660	.11540	4.73480	-.00280	.00130	-.02220
5.925	2.120	.00000	.55980	-.00410	.02740	.54770	.11570	4.73400	-.00560	.00270	-.03930
5.938	3.110	.00000	.55870	-.00500	.02510	.54680	.11460	4.77150	-.00840	.00410	-.05650
5.945	4.090	.00000	.56250	-.00610	.02280	.55080	.11430	4.81810	-.01120	.00630	-.07380
5.934	5.070	.00000	.56370	-.00610	.02020	.55200	.11450	4.82000	-.01410	.00830	-.09290
5.945	6.050	.00000	.56250	-.00610	.01780	.55080	.11430	4.81970	-.01690	.01030	-.11140
5.972	7.040	.00000	.56580	-.00690	.01400	.55420	.11420	4.85390	-.01970	.01280	-.13110
5.969	8.010	.00000	.56780	-.00730	.01200	.55630	.11420	4.86970	-.02260	.01440	-.14900
	GRADIENT	.00000	-.00107	.00016	.00035	-.00108	-.00008	-.00631	-.00278	.00149	-.01760

RUN NO. 19/ 0 RN/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.950	-7.660	.00000	.58730	-.01050	.00970	.57580	.11580	4.97070	.02260	-.01410	.13790
6.962	-6.680	.00000	.58420	-.00970	.01300	.57260	.11600	4.93640	.01930	-.01150	.11800
6.969	-5.730	.00000	.57870	-.00940	.01640	.56720	.11510	4.92710	.01620	-.00900	.09860
6.952	-4.710	.00000	.57670	-.00900	.01900	.56520	.11510	4.91200	.01340	-.00730	.08000
6.951	-3.750	.00000	.57430	-.00820	.02170	.56260	.11530	4.87790	.01070	-.00550	.06410
6.951	-2.780	.00000	.56980	-.00660	.02480	.55790	.11490	4.81380	.00780	-.00380	.04670
6.960	-1.790	.00000	.56730	-.00580	.02710	.55530	.11620	4.77910	.00520	-.00270	.02960
6.961	-.800	.00000	.56180	-.00520	.02830	.54980	.11560	4.75570	.00250	-.00120	.01130
6.974	.180	.00000	.56610	-.00580	.02860	.55410	.11590	4.77980	-.00020	.00000	-.00460
6.950	1.160	.00000	.56610	-.00520	.02850	.55400	.11650	4.75660	-.00280	.00150	-.02220
6.953	2.120	.00000	.56390	-.00490	.02750	.55180	.11630	4.74640	-.00550	.00290	-.03930
6.954	3.120	.00000	.56460	-.00590	.02520	.55270	.11550	4.78650	-.00840	.00430	-.05580
6.946	4.100	.00000	.56810	-.00690	.02250	.55630	.11520	4.82810	-.01110	.00660	-.07370
6.965	5.070	.00000	.57100	-.00760	.02000	.55930	.11510	4.85740	-.01390	.00860	-.09230
6.972	6.060	.00000	.56950	-.00740	.01790	.55790	.11500	4.85220	-.01680	.01060	-.11180
6.995	7.040	.00000	.57550	-.00820	.01370	.56390	.11550	4.88210	-.01980	.01300	-.13030
7.002	8.020	.00000	.57650	-.00890	.01120	.56500	.11500	4.91450	-.02270	.01480	-.14840
	GRADIENT	.00000	-.00108	.00028	.00046	-.00111	.00003	-.01096	-.00277	.00149	-.01750

ARC 135-1-12 LA66 BASELINE (RNJ005) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 12.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 18/ 0 RN/L = 8.52 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.386	-7.700	.00000	.59440	-.01150	.00870	.58280	.11710	4.97570	.02250	-.01360	.13790
8.377	-6.700	.00000	.59450	-.01160	.01230	.58300	.11710	4.97690	.01950	-.01110	.11800
8.395	-5.720	.00000	.58710	-.01090	.01560	.57560	.11620	4.95290	.01640	-.00880	.09910
8.387	-4.720	.00000	.58100	-.00970	.01880	.56930	.11600	4.90650	.01370	-.00700	.08100
8.375	-3.750	.00000	.58310	-.00930	.02170	.57130	.11690	4.88630	.01080	-.00550	.06380
8.399	-2.760	.00000	.57630	-.00740	.02470	.56430	.11730	4.81130	.00810	-.00400	.04680
8.424	-1.800	.00000	.57330	-.00700	.02660	.56130	.11700	4.79600	.00540	-.00260	.03090
8.416	-.820	.00000	.57130	-.00670	.02800	.55930	.11690	4.78500	.00280	-.00120	.01330
8.414	.170	.00000	.57020	-.00630	.02860	.55810	.11710	4.76720	.00000	.00010	-.00500
8.410	1.170	.00000	.57140	-.00610	.02850	.55920	.11750	4.75820	-.00270	.00170	-.02230
8.424	2.130	.00000	.57310	-.00650	.02720	.56100	.11750	4.77320	-.00540	.00300	-.03900
8.420	3.120	.00000	.57170	-.00700	.02500	.55970	.11670	4.79550	-.00810	.00460	-.05660
8.473	4.100	.00000	.57500	-.00800	.02230	.56310	.11640	4.83810	-.01090	.00650	-.07450
8.477	5.080	.00000	.57640	-.00840	.01930	.56460	.11630	4.85420	-.01380	.00870	-.09270
8.484	6.070	.00000	.57940	-.00910	.01710	.56770	.11620	4.88470	-.01670	.01070	-.11100
8.520	7.060	.00000	.58400	-.00970	.01300	.57240	.11670	4.90620	-.01960	.01300	-.12990
8.530	8.030	.00000	.58380	-.01030	.01050	.57230	.11600	4.93500	-.02240	.01500	-.14820
	GRADIENT	.00000	-.00097	.00024	.00045	-.00099	.00003	-.00971	-.00277	.00149	-.01761

C-2

ARC 135-1-12 LA66 BASELINE (RNJ006) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 25/ 0 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.918	-7.640	.00000	.92880	-.05270	.00280	.89730	.24540	3.65620	.02510	-.01090	.13350
5.934	-6.660	.00000	.92310	-.05310	.00610	.89200	.24330	3.66660	.02130	-.00880	.11570
5.927	-5.680	.00000	.91730	-.05330	.01050	.88660	.24120	3.67620	.01760	-.00720	.09560
5.944	-4.700	.00000	.91170	-.05480	.01330	.88180	.23810	3.70400	.01470	-.00600	.08030
5.944	-3.730	.00000	.91440	-.05430	.01470	.88410	.23940	3.69370	.01150	-.00470	.06360
5.947	-2.750	.00000	.91350	-.05390	.01570	.88320	.23940	3.68870	.00880	-.00360	.04670
5.953	-1.750	.00000	.90900	-.05390	.01740	.87890	.23800	3.69320	.00610	-.00270	.03040
5.961	-.800	.00000	.90870	-.05390	.01750	.87860	.23800	3.69220	.00330	-.00170	.01370
5.957	.170	.00000	.91000	-.05390	.01770	.87990	.23830	3.69220	.00060	-.00050	-.00410
5.963	1.130	.00000	.90890	-.05190	.01710	.87820	.23990	3.66060	-.00190	-.00070	-.01760
5.973	2.130	.00000	.90950	-.05160	.01670	.87870	.24030	3.65610	-.00470	.00010	-.03270
5.978	3.090	.00000	.91190	-.05130	.01290	.88090	.24140	3.64890	-.00780	.00130	-.04930
5.941	4.090	.00000	.91690	-.05140	.00980	.88560	.24270	3.64830	-.01150	.00340	-.06780
5.965	5.070	.00000	.91440	-.05070	.00680	.88300	.24260	3.64000	-.01470	.00480	-.08540
5.968	6.030	.00000	.91470	-.04990	.00310	.88320	.24340	3.62900	-.01790	.00640	-.10240
5.973	7.030	.00000	.92430	-.04970	-.00130	.89220	.24660	3.61700	-.02170	.00870	-.12130
5.993	8.000	.00000	.91630	-.04890	-.00570	.88430	.24470	3.61360	-.02510	.01040	-.13880
	GRADIENT	.00000	.00006	.00043	-.00025	-.00007	.00041	-.00668	-.00289	.00095	-.01667

RUN NO. 23/ 0 RN/L = 6.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.891	-7.640	.00000	.92970	-.05640	.00120	.89910	.24340	3.69350	.02480	-.01040	.13300
6.884	-6.670	.00000	.92620	-.05660	.00410	.89580	.24210	3.70050	.02140	-.00850	.11520
6.889	-5.690	.00000	.92290	-.05770	.00970	.89300	.24000	3.72110	.01800	-.00690	.09740
6.896	-4.710	.00000	.91050	-.05720	.01180	.88960	.23940	3.71550	.01500	-.00610	.08070
6.915	-3.730	.00000	.91860	-.05630	.01320	.88650	.24010	3.70070	.01180	-.00450	.06350
6.906	-2.760	.00000	.91760	-.05580	.01490	.88730	.24010	3.69520	.00900	-.00370	.04740
6.904	-1.780	.00000	.91830	-.05690	.01680	.88840	.23930	3.71180	.00700	-.00320	.03190
6.919	-.790	.00000	.91670	-.05690	.01680	.88680	.23890	3.71240	.00390	-.00230	.01450
6.924	.170	.00000	.91230	-.05640	.01760	.88260	.23790	3.70930	.00110	-.00140	-.00240
6.931	1.160	.00000	.91220	-.05640	.01660	.88240	.23780	3.71040	-.00190	.00000	-.01890
6.922	2.130	.00000	.91620	-.05640	.01550	.88530	.23910	3.70630	-.00500	.00110	-.03570
6.885	3.120	.00000	.91470	-.05510	.01270	.88440	.23970	3.69000	-.00760	.00170	-.05140
6.886	4.090	.00000	.91550	-.05540	.00930	.88540	.23960	3.69570	-.01080	.00340	-.06860
6.884	5.070	.00000	.92190	-.05500	.00580	.89120	.24200	3.68320	-.01470	.00510	-.08710
6.916	6.030	.00000	.92350	-.05430	.00090	.89260	.24310	3.67110	-.01840	.00650	-.10270
6.907	7.040	.00000	.92590	-.05300	-.00270	.89440	.24510	3.64920	-.02160	.00870	-.12210
6.926	8.020	.00000	.92690	-.05270	-.00650	.89530	.24560	3.64490	-.02510	.01060	-.13980
	GRADIENT	.00000	-.00058	.00015	-.00014	-.00058	-.00007	-.00127	-.00290	.00101	-.01693

ARC 135-1-12 LA66 BASELINE (RNJ006) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 21/ 0 RN/L = 8.39 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.354	-7.660	.00000	.94320	-.05910	-.00210	.91220	.24710	3.69100	.02550	-.00970	.13180
8.377	-6.690	.00000	.93390	-.05970	.00330	.90350	.24350	3.71010	.02180	-.00750	.11190
8.383	-5.710	.00000	.92820	-.06020	.00780	.89830	.24130	3.72200	.01840	-.00590	.09490
8.352	-4.720	.00000	.93190	-.05990	.01000	.90170	.24280	3.71360	.01550	-.00550	.07980
8.360	-3.740	.00000	.93270	-.05850	.01120	.90200	.24440	3.69100	.01290	-.00440	.06340
8.382	-2.770	.00000	.92500	-.05800	.01380	.89460	.24230	3.69140	.01010	-.00390	.04800
8.373	-1.810	.00000	.92770	-.05850	.01530	.89730	.24270	3.69770	.00720	-.00350	.03410
8.379	-.820	.00000	.92640	-.05880	.01550	.89610	.24210	3.70140	.00420	-.00250	.01670
8.392	.170	.00000	.92500	-.05880	.01590	.89480	.24160	3.70300	.00090	-.00140	.00010
8.402	1.150	.00000	.92520	-.05860	.01500	.89500	.24190	3.70010	-.00230	-.00010	-.01760
8.371	2.150	.00000	.92270	-.05840	.01440	.89260	.24110	3.70160	-.00540	.00090	-.03450
8.368	3.130	.00000	.92370	-.05810	.01170	.89350	.24170	3.69730	-.00860	.00210	-.05110
8.388	4.110	.00000	.92400	-.05830	.00910	.89380	.24160	3.69990	-.01180	.00390	-.06940
8.374	5.080	.00000	.92620	-.05840	.00640	.89590	.24210	3.70000	-.01520	.00500	-.08560
8.389	6.060	.00000	.92680	-.05710	.00170	.89900	.24410	3.67850	-.01800	.00600	-.10180
8.391	7.050	.00000	.93690	-.05600	-.00370	.90530	.24780	3.65380	-.02190	.00860	-.12150
8.389	8.020	.00000	.93750	-.05520	-.00730	.90560	.24860	3.64310	-.02520	.01010	-.13900
	GRADIENT	.00000	-.00095	.00009	-.00002	-.00092	-.00024	-.00012	-.00312	.00102	-.01684

ARC 135-1-12 LA66 BASELINE (RNJ007) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .220 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 26/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
2.732	-7.600	.00000	.92590	-.03720	.00250	.89110	.25410	3.50690	.02510	-.01060	.13330
2.733	-6.640	.00000	.91870	-.03690	.00590	.88420	.25220	3.50630	.02130	-.00760	.11050
2.732	-5.700	.00000	.91480	-.03760	.00830	.88070	.25030	3.51860	.01780	-.00570	.09620
2.736	-4.680	.00000	.91570	-.03800	.01130	.88170	.25020	3.52360	.01410	-.00450	.07870
2.742	-3.730	.00000	.90990	-.03780	.01310	.87610	.24860	3.52420	.01080	-.00330	.06180
2.737	-2.780	.00000	.91050	-.03660	.01340	.87630	.24990	3.50710	.00740	-.00310	.04610
2.740	-1.800	.00000	.90200	-.03560	.01570	.86790	.24810	3.49760	.00450	-.00240	.03050
2.745	-.780	.00000	.90020	-.03520	.01600	.86610	.24790	3.49370	.00160	-.00130	.01350
2.744	.170	.00000	.89690	-.03470	.01640	.86290	.24740	3.48770	-.00190	-.00030	-.00370
2.747	1.130	.00000	.89610	-.03420	.01540	.86190	.24760	3.48100	-.00430	.00010	-.01860
2.748	2.100	.00000	.89850	-.03350	.01270	.86400	.24900	3.47040	-.00640	.00050	-.03580
2.751	3.070	.00000	.89860	-.03380	.01140	.86420	.24870	3.47420	-.00890	.00080	-.05010
2.748	4.040	.00000	.89690	-.03420	.00840	.86240	.24880	3.46880	-.01150	.00240	-.06680
2.752	5.030	.00000	.90090	-.03170	.00420	.86570	.25140	3.44320	-.01340	.00300	-.08450
2.752	5.990	.00000	.90740	-.03000	.00110	.87130	.25500	3.41720	-.01590	.00390	-.09980
2.764	6.950	.00000	.91030	-.02970	-.00130	.87400	.25620	3.41150	-.01890	.00620	-.11740
2.760	7.950	.00000	.91650	-.03000	-.00700	.88000	.25790	3.41240	-.02260	.00720	-.13780
	GRADIENT	.00000	-.00206	.00057	-.00026	-.00212	-.00012	-.00687	-.00292	.00073	-.01664

RUN NO. 24/ 0 RN/L = 5.27 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
5.295	-7.620	.00000	.91810	-.05450	.00580	.88840	.23780	3.73580	.02470	-.01180	.13840
5.306	-6.700	.00000	.91010	-.05500	.00950	.88100	.23490	3.75150	.02130	-.00960	.11920
5.291	-5.680	.00000	.91010	-.05570	.01380	.88120	.23420	3.76240	.01820	-.00800	.10160
5.296	-4.700	.00000	.90720	-.05570	.01680	.87850	.23320	3.76620	.01450	-.00640	.08290
5.293	-3.750	.00000	.90450	-.05520	.01870	.87580	.23290	3.76060	.01140	-.00500	.06650
5.300	-2.750	.00000	.90470	-.05480	.01980	.87590	.23330	3.75360	.00870	-.00420	.05010
5.295	-1.780	.00000	.90040	-.05460	.02210	.87170	.23220	3.75430	.00630	-.00310	.03440
5.307	-.800	.00000	.89820	-.05430	.02180	.86950	.23180	3.75150	.00340	-.00200	.01720
5.308	.160	.00000	.89430	-.05360	.02220	.86550	.23110	3.74490	.00090	-.00100	.00020
5.302	1.130	.00000	.89270	-.05320	.02280	.86390	.23110	3.73840	-.00210	.00050	-.01830
5.291	2.130	.00000	.90000	-.05310	.02010	.87080	.23340	3.73090	-.00530	.00200	-.03630
5.296	3.080	.00000	.89850	-.05260	.01710	.86920	.23340	3.72500	-.00840	.00330	-.05250
5.287	4.070	.00000	.90180	-.05290	.01450	.87250	.23410	3.72660	-.01160	.00430	-.06850
5.292	5.040	.00000	.90100	-.05200	.01090	.87150	.23470	3.71340	-.01500	.00560	-.08600
5.293	6.030	.00000	.90520	-.05160	.00610	.87530	.23640	3.70300	-.01850	.00700	-.10330
5.276	6.990	.00000	.91120	-.05120	.00170	.88090	.23860	3.69170	-.02210	.00910	-.12250
5.268	7.970	.00000	.90870	-.05100	-.00280	.87850	.23800	3.69130	-.02570	.01130	-.13950
	GRADIENT	.00000	-.00088	.00035	-.00017	-.00095	.00005	-.00481	-.00293	.00123	-.01743

ARC 135-1-12 LA66 BASELINE (RNJ007) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0150				

PARAMETRIC DATA

ALPHA =	18.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.220	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 22/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
6.431	-7.660	.00000	.92340	-.05870	.00100	.89450	.23650	3.78140	.02510	-.01120	.13700
6.438	-6.670	.00000	.91620	-.05910	.00690	.88780	.23400	3.79450	.02140	-.00880	.11730
6.435	-5.720	.00000	.91560	-.05940	.01110	.88730	.23350	3.79990	.01730	-.00730	.10060
6.435	-4.690	.00000	.91030	-.05830	.01420	.88190	.23280	3.78840	.01450	-.00630	.08380
6.428	-3.730	.00000	.91100	-.05750	.01630	.88230	.23380	3.77390	.01150	-.00510	.06660
6.437	-2.770	.00000	.90810	-.05700	.01820	.87940	.23340	3.76760	.00900	-.00390	.05000
6.432	-1.770	.00000	.90390	-.05680	.02030	.87540	.23230	3.76920	.00630	-.00300	.03380
6.434	-.810	.00000	.90500	-.05710	.02070	.87650	.23230	3.77280	.00340	-.00210	.01710
6.428	.170	.00000	.90470	-.05670	.02050	.87610	.23260	3.76700	.00060	-.00080	-.00070
6.430	1.130	.00000	.89900	-.05630	.02040	.87060	.23110	3.76680	-.00190	.00060	-.01720
6.434	2.060	.00000	.90430	-.05670	.01920	.87580	.23240	3.76810	-.00470	.00170	-.03450
6.437	3.080	.00000	.90660	-.05690	.01590	.87800	.23300	3.76810	-.00790	.00310	-.05090
6.433	4.080	.00000	.90970	-.05760	.01190	.88120	.23330	3.77750	-.01140	.00510	-.07010
6.431	5.030	.00000	.90870	-.05710	.00900	.88010	.23340	3.77060	-.01500	.00590	-.08640
6.432	6.040	.00000	.90900	-.05630	.00480	.88010	.23420	3.75820	-.01890	.00750	-.10450
6.427	7.020	.00000	.91630	-.05520	.00020	.88670	.23750	3.73380	-.02260	.00950	-.12280
6.429	7.990	.00000	.91940	-.05510	-.00440	.88960	.23860	3.72850	-.02580	.01090	-.14120
	GRADIENT	.00000	-.00044	.00009	-.00012	-.00043	-.00006	-.00092	-.00290	.00125	-.01746

ARC 135-1-12 LA66 BASELINE (RNJ008) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = 5.000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 2/ 0 RN/L = 8.29 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.315	-3.190	4.96000	-.10780	.06050	-.01420	-.10430	.06640	-1.57160	.00050	-.00020	-.00250
8.318	-2.010	4.98000	-.05520	.06330	-.01450	-.05290	.06520	-.81130	.00050	-.00020	-.00170
8.296	.000	4.98000	.03330	.06490	-.01440	.03330	.06490	.51310	.00020	.00000	-.00420
8.300	1.010	4.97000	.08080	.06410	-.01480	.07960	.06560	1.21450	.00020	.00000	-.00470
8.284	2.010	4.99000	.12840	.06250	-.01480	.12610	.06700	1.88340	.00020	-.00010	-.00400
8.278	3.040	5.00000	.17670	.06020	-.01500	.17330	.06950	2.49350	.00010	-.00010	-.00390
8.281	4.050	5.00000	.22160	.05670	-.01520	.21710	.07230	3.00460	.00010	.00010	-.00410
8.264	5.020	5.00000	.26770	.05250	-.01510	.26200	.07570	3.46020	.00000	.00000	-.00410
8.273	6.070	5.01000	.31730	.04690	-.01520	.31050	.08020	3.87060	.00000	.00010	-.00410
8.286	7.070	4.99000	.36950	.04020	-.01560	.36170	.08540	4.23720	.00010	.00000	-.00400
8.270	8.070	4.97000	.41520	.03370	-.01590	.40640	.09170	4.43110	.00000	.00020	-.00440
8.283	9.120	4.94000	.47250	.02570	-.01590	.46240	.10030	4.61000	.00000	.00010	-.00400
8.285	10.120	4.95000	.51690	.01850	-.01530	.50560	.10900	4.63950	.00000	.00020	-.00420
8.291	11.160	4.93000	.56740	.01030	-.01380	.55470	.11990	4.62800	-.00010	.00030	-.00460
8.261	12.170	4.84000	.62100	.00210	-.01300	.60660	.13300	4.56230	-.00050	.00030	-.00460
8.278	13.150	4.38000	.66810	-.00540	-.01350	.65180	.14680	4.44070	-.00060	.00010	-.00270
8.260	14.170	4.94000	.72170	-.01410	-.01330	.70320	.16300	4.31330	-.00050	.00010	-.00290
8.239	15.180	4.89000	.77610	-.02260	-.01410	.75500	.18150	4.16010	-.00040	.00000	-.00350
8.292	16.240	4.94000	.83370	-.03170	-.01620	.80940	.20270	3.99310	-.00030	-.00020	-.00200
8.276	17.230	4.90000	.88860	-.03990	-.01810	.86050	.22510	3.82240	-.00020	-.00040	-.00210
8.257	18.200	4.89000	.95370	-.04810	-.02290	.92100	.25220	3.65210	-.00040	-.00120	.00050
8.265	19.230	4.90000	1.01290	-.05560	-.02690	.97470	.28120	3.46590	.00000	-.00190	.00300
8.255	20.260	4.93000	1.08300	-.05490	-.03340	1.03500	.32350	3.19940	-.00240	-.00370	.00540
8.245	21.280	4.93000	1.13900	-.05590	-.03530	1.08160	.36130	2.99410	-.00100	-.00250	.00460
8.249	22.320	4.88000	1.19130	-.05430	-.03690	1.12270	.40220	2.79130	-.00010	-.00290	.00420
8.227	23.280	4.92000	1.25550	-.05080	-.04460	1.17330	.44960	2.60990	.00120	-.00190	.00250
8.221	24.290	4.88000	1.31940	-.04640	-.05180	1.22170	.50030	2.44180	.00250	-.00020	-.00110
	GRADIENT	00486	.04567	-.00049	-.00013	.04455	.00077	.64343	-.00006	.00003	-.00030

ARC 135-1-12 LA66 BASELINE (RNJ009) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = -5.000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 3/ 0 RN/L = 8.11 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	ELEVON	CN	CA	CLM	CL	CD	L/D	CBL	CYN	CY
8.117	-3.210	-4.92000	-.28750	.05510	.07060	-.28390	.07110	-3.99210	-.00050	-.00060	-.00480
8.118	-2.030	-4.93000	-.23240	.05900	.07010	-.23020	.06720	-3.42420	-.00070	-.00050	-.00600
8.104	-.020	-4.92000	-.14120	.06150	.06940	-.14120	.06150	-2.29540	-.00070	-.00060	-.00420
8.110	.990	-4.90000	-.09550	.06160	.06960	-.09650	.06000	-1.60940	-.00090	-.00060	-.00430
8.083	1.990	-4.89000	-.04910	.06030	.07010	-.05120	.05860	-.87310	-.00090	-.00060	-.00450
8.095	3.010	-4.91000	-.00270	.05860	.07010	-.00580	.05840	-.09890	-.00100	-.00060	-.00480
8.086	3.990	-4.91000	.03840	.05570	.07020	.03440	.05820	.59110	-.00110	-.00060	-.00390
8.108	5.000	-4.91000	.08570	.05170	.06970	.08190	.05910	1.38650	-.00110	-.00060	-.00400
8.084	5.990	-4.92000	.13410	.04760	.06950	.12840	.06130	2.09380	-.00100	-.00060	-.00360
8.114	7.030	-4.89000	.18360	.04150	.06900	.17710	.06370	2.78070	-.00120	-.00050	-.00380
8.114	8.020	-4.88000	.23110	.03550	.06850	.22390	.06740	3.32030	-.00130	-.00050	-.00360
8.114	9.050	-4.89000	.28470	.02840	.06760	.27670	.07280	3.80060	-.00130	-.00040	-.00450
8.107	10.050	-4.88000	.33590	.02090	.06730	.32710	.07920	4.12870	-.00130	-.00040	-.00430
8.097	11.080	-4.87000	.38140	.01420	.06890	.37150	.08720	4.25980	-.00100	-.00040	-.00420
8.096	12.090	-4.89000	.43330	.00600	.07060	.42250	.09660	4.37480	-.00100	-.00040	-.00280
8.095	13.120	-4.88000	.48450	-.00130	.07220	.47230	.10810	4.36830	-.00110	-.00040	-.00340
8.065	14.100	-4.93000	.53390	-.00930	.07230	.52010	.12100	4.29690	-.00090	-.00030	-.00390
8.098	15.110	-4.92000	.59080	-.01800	.07110	.57510	.13670	4.20700	-.00120	-.00030	-.00390
8.077	16.130	-4.92000	.64660	-.02510	.06930	.62840	.15450	4.06660	-.00100	-.00050	-.00290
8.064	17.130	-4.93000	.70740	-.03490	.06720	.68630	.17500	3.92070	-.00070	-.00080	-.00270
8.068	18.170	-4.92000	.77080	-.04330	.06230	.74580	.19920	3.74380	-.00090	-.00120	-.00190
8.050	19.180	-4.96000	.83150	-.05100	.05810	.80210	.22500	3.56530	-.00070	-.00120	-.00240
8.050	20.210	-4.92000	.90190	-.05770	.05130	.86630	.25740	3.36510	-.00200	-.00160	-.00030
8.059	21.200	-4.93000	.96250	-.05730	.04790	.91810	.29470	3.11520	-.00280	-.00310	.00290
8.052	22.220	-4.96000	1.01300	-.05930	.04680	.96040	.32760	2.93200	-.00140	-.00270	.00280
8.044	23.290	-4.89000	1.07250	-.06000	.04550	1.00230	.36900	2.73360	-.00050	-.00260	.00320
8.040	24.260	-4.90000	1.12010	-.05530	.04260	1.04390	.40980	2.54740	.00120	-.00090	.00030
	GRADIENT	.00234	.04543	-.00040	-.00004	.04440	-.00151	.65054	-.00007	-.00001	.00015

ARC 135-1-12 LA66 BASELINE (ANJ001) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0150				

PARAMETRIC DATA

BETA =	-4.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 14/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
5.984	-3.150	-.00150	-.00730	-.24900	-.24800	418.40000	.82000	2.49000	.67900	-.84000	-4.03000
5.962	-2.010	-.00100	-.00740	-.24500	-.25100	418.80000	.79000	2.50000	.69300	-.86000	-4.03000
5.943	.000	-.00030	-.00750	-.24900	-.24500	417.30000	.79000	2.52000	.98000	-.87000	-4.04000
5.944	.990	-.00010	-.00760	-.24700	-.24400	417.90000	.81000	2.48000	.48800	-.84000	-4.03000
5.932	1.980	.00010	-.00750	-.25600	-.24800	416.70000	.81000	2.53000	.58800	-.86000	-4.03000
5.930	3.010	.00040	-.00750	-.25800	-.24400	416.70000	.81000	2.54000	.61300	-.87000	-4.03000
5.937	3.980	.00060	-.00750	-.25500	-.24300	418.40000	.81000	2.51000	.62600	-.85000	-4.03000
5.931	5.000	.00090	-.00760	-.25800	-.24400	417.80000	.80000	2.52000	.63200	-.86000	-4.02000
5.915	6.000	.00120	-.00770	-.26300	-.24900	415.80000	.79000	2.55000	.63700	-.88000	-4.01000
5.916	6.990	.00160	-.00790	-.27000	-.24800	416.50000	.79000	2.51000	.64000	-.86000	-4.01000
5.922	8.000	.00200	-.00790	-.26600	-.25000	417.60000	.77000	2.47000	.64200	-.85000	-4.00000
5.914	9.000	.00280	-.00820	-.27000	-.25100	416.60000	.76000	2.50000	.6430C	-.87000	-3.99000
5.923	10.010	.00360	-.00810	-.26600	-.24500	418.20000	.73000	2.47000	.64400	-.87000	-3.98000
5.921	11.000	.00460	-.00840	-.26800	-.24900	418.10000	.71000	2.47000	.64500	-.88000	-3.97000
5.922	11.990	.00520	-.00850	-.26900	-.24800	418.30000	.66000	2.40000	.64500	-.87000	-3.95000
5.907	13.010	.00500	-.00840	-.27800	-.25200	416.50000	.62000	2.39000	.64400	-.88000	-3.94000
5.914	14.030	.00480	-.00850	-.28100	-.25300	417.60000	.57000	2.25000	.64400	-.84000	-3.92000
5.912	14.990	.00460	-.00870	-.28600	-.26000	417.60000	.52000	2.00000	.64400	-.74000	-3.91000
5.900	16.020	.00450	-.00900	-.29000	-.26200	417.40000	.41000	1.91000	.64500	-.75000	-3.89000
5.898	17.020	.00440	-.00900	-.29000	-.27100	416.00000	.36000	1.66000	.64700	-.65000	-3.87000
5.884	18.030	.00460	-.00850	-.29900	-.27800	414.20000	.31000	1.45000	.64800	-.57000	-3.85000
5.894	19.020	.00530	-.00830	-.30400	-.28700	415.90000	.15000	1.37000	.64900	-.61000	-3.83000
5.893	20.070	.00810	-.00630	-.30000	-.29500	416.00000	.06000	1.38000	.65100	-.66000	-3.80000
5.882	21.040	.00500	-.00900	-.30600	-.31300	414.80000	.07000	1.40000	.65200	-.66000	-3.78000
5.860	22.040	.00500	-.00870	-.33000	-.34600	411.70000	.04000	1.29000	.65300	-.62000	-3.76000
5.879	23.030	.00410	-.00910	-.33200	-.36000	414.80000	.00000	1.22000	.65500	-.61000	-3.73000
5.875	24.050	.00410	-.00910	-.34000	-.38900	414.50000	.04000	1.18000	.65600	-.57000	-3.71000
	GRADIENT	.00028	-.00003	-.00150	.00072	-.11297	.00014	.00399	-.01549	-.00124	.00088

ARC 135-1-12 LA66 BASELINE (ANJ001) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 13/ 0 RN/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
6.912	-3.010	-.00150	-.00680	-.25000	-.25500	476.00000	.90000	2.35000	.67900	-.73000	-4.03000
6.895	-1.940	-.00110	-.00690	-.25300	-.25600	474.60000	.89000	2.34000	.69000	-.72000	-4.04000
6.904	.020	-.00040	-.00710	-.25000	-.24800	477.20000	.90000	2.36000	1.00500	-.73000	-4.04000
6.879	1.020	-.00010	-.00700	-.25200	-.25500	474.10000	.90000	2.32000	.51100	-.71000	-4.04000
6.876	2.000	.00010	-.00690	-.25200	-.25100	473.90000	.90000	2.36000	.59400	-.73000	-4.04000
6.885	2.990	.00040	-.00690	-.24900	-.24900	476.40000	.87000	2.36000	.61700	-.75000	-4.04000
6.895	4.000	.00060	-.00700	-.24500	-.24500	478.20000	.87000	2.36000	.62700	-.73000	-4.03000
6.897	5.000	.00100	-.00720	-.25000	-.24500	478.90000	.89000	2.41000	.63400	-.76000	-4.03000
6.894	6.020	.00140	-.00740	-.25600	-.24600	479.10000	.90000	2.42000	.63800	-.76000	-4.02000
6.889	7.020	.00180	-.00740	-.25400	-.24600	478.80000	.90000	2.44000	.64100	-.77000	-4.01000
6.887	8.020	.00220	-.00750	-.25500	-.24400	479.30000	.88000	2.47000	.64300	-.80000	-4.01000
6.877	9.030	.00290	-.00760	-.25500	-.24600	478.20000	.87000	2.46000	.64400	-.80000	-3.99000
6.880	10.030	.00400	-.00810	-.25400	-.24000	479.20000	.84000	2.41000	.64500	-.78000	-3.98000
6.872	11.050	.00480	-.00810	-.25300	-.24100	478.30000	.83000	2.41000	.64600	-.79000	-3.97000
6.872	12.060	.00530	-.00830	-.25500	-.24600	478.80000	.81000	2.35000	.64600	-.77000	-3.96000
6.867	13.070	.00510	-.00830	-.26300	-.24900	478.20000	.81000	2.25000	.64500	-.72000	-3.94000
6.869	14.050	.00500	-.00840	-.26300	-.24900	478.80000	.78000	1.90000	.64500	-.56000	-3.93000
6.860	15.070	.00480	-.00850	-.26900	-.25200	477.80000	.71000	1.85000	.64500	-.57000	-3.91000
6.850	16.090	.00470	-.00860	-.27900	-.26300	476.50000	.68000	1.67000	.64600	-.49000	-3.89000
6.852	17.090	.00460	-.00840	-.28000	-.26400	477.20000	.68000	1.23000	.64700	-.40000	-3.87000
6.848	18.070	.00490	-.00860	-.28100	-.26700	476.90000	.18000	1.15000	.64800	-.49000	-3.86000
6.843	19.110	.00570	-.00830	-.29600	-.28400	476.50000	.17000	1.22000	.65000	-.53000	-3.83000
6.879	20.140	.00750	-.00840	-.30400	-.28800	482.20000	.05000	1.15000	.65200	-.55000	-3.81000
6.872	21.110	.00450	-.00870	-.30600	-.30600	481.60000	.04000	1.20000	.65200	-.58000	-3.79000
6.873	22.140	.00520	-.00830	-.30900	-.33400	482.00000	.03000	1.02000	.65300	-.50000	-3.76000
6.828	23.160	.00430	-.00810	-.32000	-.36500	479.40000	.00000	.68000	.65500	-.34000	-3.74000
6.823	24.220	.00490	-.00810	-.33700	-.38900	478.90000	-.01000	.48000	.65500	-.25000	-3.71000
	GRADIENT	.00030	-.00003	.00044	.00132	.35315	-.00154	.00550	-.01597	-.00333	.00040

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ARC 135-1-12 LA66 BASELINE (ANJ001) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 12/ 0 RN/L = 8.43 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
8.477	-3.200	.00060	-.00600	-.22300	-.26700	560.90000	-.03000	-.09000	.69400	.03000	-4.04000
8.468	-2.020	.00110	-.00610	-.22500	-.26500	561.50000	.00000	-.14000	.71200	.07000	-4.05000
8.442	-.010	.00150	-.00630	-.22600	-.26600	560.80000	-.02000	-.05000	.87300	.02000	-4.05000
8.436	1.010	.00190	-.00630	-.21900	-.26400	560.50000	-.01000	-.02000	.02100	.00000	-4.05000
8.420	2.020	.00210	-.00640	-.22700	-.26800	559.40000	-.03000	-.05000	.52400	.01000	-4.05000
8.419	3.060	.00230	-.00620	-.23100	-.26600	560.00000	-.04000	.12000	.58300	-.08000	-4.04000
8.415	4.080	.00330	-.00610	-.23000	-.26200	560.20000	-.06000	.04000	.60000	-.05000	-4.04000
8.416	5.020	.00380	-.00620	-.23000	-.26100	561.00000	-.05000	-.10000	.61200	.03000	-4.03000
8.403	6.080	.00410	-.00640	-.23300	-.26200	560.20000	-.05000	-.06000	.62100	.00000	-4.03000
8.405	7.070	.00450	-.00670	-.23700	-.26200	561.10000	-.07000	-.04000	.62700	-.02000	-4.02000
8.409	8.060	.00500	-.00690	-.23500	-.26100	562.10000	-.08000	-.07000	.63100	-.01000	-4.01000
8.396	9.080	.00590	-.00720	-.24800	-.26200	561.20000	-.09000	-.05000	.63400	-.02000	-4.00000
8.399	10.100	.00690	-.00740	-.24200	-.26100	562.30000	-.14000	-.07000	.63600	-.04000	-3.99000
8.392	11.120	.00770	-.00760	-.24300	-.26400	562.10000	-.07000	-.08000	.63800	.00000	-3.98000
8.390	12.160	.00790	-.00780	-.24300	-.26400	562.60000	-.11000	-.05000	.63900	-.03000	-3.96000
8.371	13.160	.00790	-.00770	-.25800	-.27800	561.00000	-.07000	-.03000	.63900	-.02000	-3.95000
8.377	14.150	.00780	-.00790	-.25900	-.27200	562.60000	-.12000	-.05000	.64000	-.03000	-3.94000
8.366	15.210	.00760	-.00800	-.26000	-.27500	561.80000	.02000	-.06000	.64100	.04000	-3.92000
8.355	16.160	.00730	-.00800	-.27800	-.28700	561.20000	.03000	.03000	.64300	.00000	-3.90000
8.347	17.190	.00750	-.00800	-.27900	-.28900	560.70000	.00000	-.01000	.64400	.01000	-3.88000
8.361	18.200	.00800	-.00800	-.28300	-.30000	563.20000	.02000	.00000	.64500	.01000	-3.86000
8.377	19.210	.00900	-.00800	-.27900	-.29900	565.90000	-.02000	-.15000	.64700	.07000	-3.84000
8.332	20.280	.00760	-.00720	-.29800	-.32300	563.70000	.01000	-.01000	.65200	.01000	-3.82000
8.343	21.310	.00480	-.00900	-.30400	-.31800	569.50000	.03000	.02000	.65300	.01000	-3.79000
8.329	22.270	.00580	-.00750	-.30100	-.32900	568.60000	.02000	.27000	.65300	-.13000	-3.77000
8.303	23.290	.00530	-.00860	-.31900	-.35400	565.70000	.03000	.09000	.65500	-.03000	-3.75000
8.336	24.300	.00500	-.00670	-.33700	-.38400	571.20000	-.09000	-.13000	.65500	.02000	-3.72000
	GRADIENT	.00032	-.00002	-.00093	.00030	-.19401	-.00495	.02657	-.02823	-.01588	.00043

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV.75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 8/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
1.976	-3.100	-.00200	-.00220	-.11700	-.20500	136.70000	-.04000	-.08000	.70400	.02000	.00000
1.972	-1.940	-.00200	-.00210	-.12700	-.21900	136.90000	-.06000	-.09000	.72700	.02000	.00000
1.968	.000	-.00210	-.00210	-.12900	-.21900	136.90000	-.09000	-.16000	.90700	.04000	.00000
1.966	1.040	-.00210	-.00240	-.12900	-.21800	136.90000	-.06000	-.14000	-91.89000	.04000	.00000
1.963	1.940	-.00240	-.00230	-.13200	-.21600	136.90000	-.08000	-.02000	.31600	-.03000	.00000
1.971	2.940	-.00270	-.00230	-.13400	-.21500	138.30000	-.09000	.04000	.52000	-.06000	.00000
1.971	3.930	-.00270	-.00220	-.13500	-.21400	138.40000	-.12000	.01000	.56800	-.06000	.00000
1.968	4.950	-.00290	-.00200	-.14100	-.22100	138.20000	-.09000	.03000	.59300	-.06000	.00000
1.969	5.870	-.00320	-.00190	-.13500	-.21200	138.50000	-.10000	.04000	.60600	-.07000	.00000
1.968	6.860	-.00320	-.00200	-.14200	-.22300	138.50000	-.07000	.04000	.61500	-.05000	.00000
1.969	7.840	-.00320	-.00180	-.14500	-.22100	138.70000	-.04000	.03000	.62000	-.03000	.00000
1.966	8.830	-.00330	-.00190	-.14300	-.22200	138.30000	-.04000	.06000	.62500	-.05000	.00000
1.968	9.820	-.00330	-.00190	-.15100	-.22500	138.70000	-.04000	.02000	.62900	-.03000	.00000
1.966	10.780	-.00330	-.00160	-.14800	-.22500	138.50000	-.04000	.05000	.63000	-.04000	.00000
1.965	11.770	-.00340	-.00170	-.15400	-.23100	138.40000	-.04000	.06000	.63200	-.05000	.00000
1.963	12.770	-.00360	-.00130	-.14900	-.23100	138.20000	-.05000	.03000	.63200	-.04000	.00000
1.963	13.730	-.00380	-.00130	-.15200	-.23200	138.20000	-.04000	.04000	.63500	-.04000	.00000
1.963	14.710	-.00410	-.00120	-.15900	-.23700	138.10000	-.04000	-.02000	.63700	-.01000	.00000
1.961	15.710	-.00440	-.00120	-.16500	-.24600	138.00000	-.04000	.00000	.64100	-.02000	.00000
1.962	16.690	-.00430	-.00100	-.16600	-.24000	138.20000	-.05000	-.02000	.64400	-.02000	.00000
1.963	17.660	-.00490	-.00160	-.16900	-.25100	138.30000	-.04000	.02000	.64600	-.03000	.00000
1.959	18.660	-.00830	-.00250	-.18700	-.26700	137.90000	-.04000	.03000	.65000	-.03000	.00000
1.964	19.630	-.00630	-.00140	-.20000	-.28500	138.60000	-.05000	.06000	.65000	-.05000	.00000
1.959	20.620	-.00430	-.00160	-.21300	-.30300	138.10000	-.07000	.01000	.65200	-.04000	.00000
1.959	21.610	-.00400	-.00090	-.22300	-.31600	138.00000	-.07000	.04000	.65400	-.06000	.00000
1.958	22.600	-.00240	-.00150	-.23300	-.32400	138.00000	-.08000	.04000	.65500	-.06000	.00000
1.954	23.590	-.00100	-.00180	-.24900	-.34000	137.40000	-.06000	-.02000	.65600	-.02000	.00000
	GRADIENT	-.00012	.00000	-.00237	-.00083	.22196	-.00711	.01901	.27263	-.01306	.00000

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPOSRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 7/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
3.971	-3.130	-.00140	-.00110	-.18900	-.21700	280.10000	-.07000	-.01000	.70300	-.03000	.00000
3.966	-1.980	-.00140	-.00120	-.19700	-.22700	280.50000	-.06000	-.01000	.72300	-.02000	.00000
3.968	.000	-.00160	-.00120	-.19400	-.22600	281.60000	-.05000	.00000	.88200	-.03000	.00000
3.961	.970	-.00170	-.00120	-.19900	-.23400	280.80000	-.06000	.00000	12.60000	-.03000	.00000
3.965	1.970	-.00180	-.00110	-.19400	-.22700	281.60000	-.07000	.00000	.41000	-.04000	.00000
3.975	3.000	-.00200	-.00110	-.19900	-.22600	283.40000	-.05000	-.04000	.53700	-.01000	.00000
3.968	3.950	-.00210	-.00100	-.20100	-.23300	282.70000	-.06000	.01000	.57700	-.03000	.00000
3.979	4.930	-.00220	-.00100	-.19700	-.22400	284.50000	-.07000	.02000	.59800	-.05000	.00000
3.971	5.930	-.00230	-.00080	-.20400	-.23000	283.60000	-.09000	.02000	.61000	-.05000	.00000
3.974	6.930	-.00220	-.00090	-.19600	-.22200	284.10000	-.07000	.03000	.61900	-.05000	.00000
3.970	7.940	-.00230	-.00090	-.20100	-.22700	283.60000	-.07000	.04000	.62500	-.05000	.00000
3.971	8.900	-.00240	-.00080	-.20300	-.22500	283.90000	-.10000	.05000	.62900	-.08000	.00000
3.968	9.910	-.00250	-.00070	-.20500	-.22800	283.60000	-.07000	.07000	.63200	-.07000	.00000
3.967	10.880	-.00240	-.00060	-.20400	-.23300	283.50000	-.09000	.07000	.63300	-.08000	.00000
3.966	11.920	-.00260	-.00060	-.20600	-.22800	283.50000	-.10000	.03000	.63300	-.07000	.00000
3.956	12.900	-.00270	-.00050	-.20900	-.23900	282.20000	-.04000	.02000	.63400	-.03000	.00000
3.960	13.890	-.00270	-.00050	-.21100	-.23900	282.80000	-.04000	.06000	.63500	-.05000	.00000
3.966	14.900	-.00260	-.00050	-.21100	-.24300	283.90000	-.04000	.01000	.63600	-.03000	.00000
3.959	15.900	-.00270	-.00050	-.21500	-.25200	283.00000	-.06000	.07000	.63800	-.07000	.00000
3.956	16.950	-.00350	-.00010	-.21900	-.25500	282.80000	-.07000	-.09000	.64200	.01000	.00000
3.950	17.830	-.00480	-.00090	-.22600	-.26100	281.80000	-.05000	-.05000	.64400	.00000	.00000
3.958	18.850	-.00430	-.00120	-.22600	-.26500	283.10000	-.09000	-.03000	.64700	-.03000	.00000
3.954	19.830	-.00200	-.00230	-.24500	-.28700	282.70000	-.04000	.01000	.65000	-.03000	.00000
3.955	20.820	-.00180	-.00100	-.25500	-.28900	283.00000	-.08000	.05000	.65100	-.07000	.00000
3.958	21.820	-.00230	.00070	-.26000	-.30400	283.50000	-.07000	-.07000	.65300	.00000	.00000
3.956	22.790	-.00350	.00010	-.27300	-.31800	283.40000	-.07000	.00000	.65500	-.03000	.00000
3.950	23.840	-.00440	.00010	-.28800	-.34200	282.60000	-.11000	-.09000	.65600	-.01000	.00000
	GRADIENT	-.00011	.00002	-.00090	-.00083	.48914	.00008	.00190	-.07966	-.00140	.00000

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 6/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
4.971	-3.160	-.00120	-.00060	-.19900	-.23700	349.10000	-.02000	-.09000	.70200	.04000	.00000
4.962	-1.970	-.00130	-.00070	-.20200	-.24100	349.00000	-.01000	.00000	.72300	-.01000	.00000
4.969	.000	-.00150	-.00070	-.19800	-.23900	350.80000	-.01000	.04000	.88600	-.03000	.00000
4.963	.990	-.00160	-.00070	-.20000	-.23700	350.50000	-.03000	.06000	-6.17500	-.05000	.00000
4.956	1.960	-.00170	-.00060	-.20300	-.24000	349.70000	-.02000	.04000	.42500	-.03000	.00000
4.952	2.980	-.00190	-.00050	-.20700	-.23900	349.70000	-.03000	.01000	.54200	-.02000	.00000
4.959	3.960	-.00200	-.00050	-.20000	-.23700	350.90000	-.02000	.07000	.58200	-.05000	.00000
4.956	4.960	-.00220	-.00040	-.20400	-.24100	350.80000	-.03000	-.02000	.60200	.00000	.00000
4.974	5.950	-.00220	-.00030	-.20400	-.24200	353.70000	-.04000	.06000	.61300	-.05000	.00000
4.969	6.940	-.00240	-.00030	-.19800	-.23500	353.30000	-.07000	-.04000	.62100	-.01000	.00000
4.964	7.950	-.00240	-.00030	-.20500	-.24200	352.80000	-.05000	.02000	.62700	-.04000	.00000
4.965	8.940	-.00240	-.00020	-.20200	-.23700	353.30000	-.07000	.05000	.63100	-.06000	.00000
4.955	9.940	-.00250	-.00020	-.21100	-.23900	352.00000	-.09000	.07000	.63400	-.08000	.00000
4.960	10.930	-.00260	-.00020	-.20900	-.24100	353.20000	-.07000	.02000	.63500	-.04000	.00000
4.946	11.930	-.00280	-.00010	-.21900	-.25000	351.30000	-.07000	.04000	.63500	-.05000	.00000
4.956	12.900	-.00290	.00000	-.21300	-.24900	353.00000	-.07000	.05000	.63500	-.06000	.00000
4.948	13.920	-.00280	-.00020	-.22100	-.25000	352.10000	-.05000	.03000	.63600	-.04000	.00000
4.956	14.930	-.00280	-.00020	-.21600	-.25300	353.40000	-.06000	.03000	.63700	-.05000	.00000
4.941	15.970	-.00270	-.00030	-.22100	-.25600	351.80000	-.10000	-.09000	.63900	-.01000	.00000
4.941	16.920	-.00290	-.00010	-.22500	-.27100	351.90000	-.10000	-.05000	.64100	-.03000	.00000
4.940	17.920	-.00340	-.00070	-.23300	-.27200	352.00000	-.10000	-.01000	.64300	-.04000	.00000
4.929	18.920	-.00340	-.00060	-.23200	-.27300	350.70000	-.07000	.03000	.64600	-.05000	.00000
4.938	19.920	-.00190	-.00150	-.24200	-.29400	352.10000	-.09000	.05000	.64900	-.07000	.00000
4.924	20.910	-.00030	-.00110	-.25800	-.30800	350.50000	-.09000	.00000	.65000	-.04000	.00000
4.932	21.920	.00100	-.00010	-.27100	-.32200	352.30000	-.10000	-.02000	.65100	-.04000	.00000
4.935	22.910	-.00020	.00120	-.28200	-.33000	353.20000	-.09000	-.09000	.65300	.00000	.00000
4.923	23.950	-.00170	.00180	-.29300	-.33600	351.70000	-.11000	-.03000	.65400	-.04000	.00000
	GRADIENT	-.00012	.00003	-.00054	-.00010	.19185	-.00173	.00886	.00115	-.00518	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 5/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
5.965	-3.170	-.00130	-.00050	-.20400	-.23500	420.90000	-.04000	.01000	.70200	-.02000	.00000
5.958	-1.990	-.00140	-.00060	-.20500	-.23700	421.20000	-.03000	.02000	.72000	-.02000	.00000
5.940	.000	-.00150	-.00060	-.20800	-.24100	419.80000	-.04000	.06000	.86900	-.05000	.00000
5.941	1.020	-.00160	-.00060	-.21100	-.24400	420.40000	-.03000	.05000	-5.44200	-.04000	.00000
5.923	1.980	-.00170	-.00040	-.21500	-.24900	418.20000	-.02000	.06000	.44800	-.04000	.00000
5.919	2.970	-.00190	-.00050	-.20600	-.24000	418.20000	-.03000	.06000	.54700	-.05000	.00000
5.917	3.980	-.00170	-.00030	-.20900	-.24400	418.60000	-.04000	.05000	.58100	-.04000	.00000
5.919	4.960	-.00190	-.00030	-.21300	-.24400	419.40000	-.04000	.08000	.60200	-.06000	.00000
5.917	5.990	-.00170	-.00010	-.20900	-.24100	419.50000	-.04000	.14000	.61200	-.09000	.00000
5.902	6.970	-.00200	-.00010	-.21400	-.23800	417.90000	-.07000	.06000	.62100	-.07000	.00000
5.908	7.980	-.00230	-.00020	-.21400	-.24200	419.20000	-.06000	.04000	.62700	-.05000	.00000
5.899	8.980	-.00230	.00000	-.21400	-.24200	418.30000	-.06000	-.02000	.63200	-.02000	.00000
5.900	9.970	-.00230	.00000	-.21800	-.24600	418.80000	-.07000	-.01000	.63400	-.03000	.00000
5.891	10.970	-.00250	.00000	-.22100	-.24400	417.70000	-.08000	.05000	.63500	-.07000	.00000
5.885	11.960	-.00260	.00010	-.22200	-.24800	417.20000	-.07000	-.04000	.63500	-.01000	.00000
5.887	12.980	-.00290	.00020	-.22500	-.25000	417.80000	-.09000	-.01000	.63600	-.04000	.00000
5.908	13.970	-.00280	.00000	-.22100	-.25400	421.00000	-.11000	-.02000	.63700	-.04000	.00000
5.911	14.980	-.00260	-.00020	-.22100	-.25000	421.80000	-.09000	.02000	.63800	-.06000	.00000
5.906	16.000	-.00250	.00000	-.23200	-.26500	421.20000	-.08000	.07000	.64000	-.08000	.00000
5.905	17.010	-.00230	.00000	-.23300	-.26600	421.60000	-.09000	.00000	.64100	-.04000	.00000
5.887	17.990	-.00240	-.00060	-.24300	-.28400	419.30000	-.14000	.04000	.64400	-.09000	.00000
5.885	18.990	-.00220	-.00050	-.24500	-.29300	419.20000	-.08000	.06000	.64600	-.07000	.00000
5.881	20.020	-.00410	-.00340	-.25000	-.30000	418.90000	-.05000	.04000	.64900	-.05000	.00000
5.896	21.040	-.00080	-.00070	-.25900	-.30700	421.30000	-.05000	.06000	.65000	-.06000	.00000
5.876	22.010	.00100	-.00040	-.27500	-.33100	418.80000	-.07000	-.04000	.65100	-.01000	.00000
5.882	23.030	.00120	-.00030	-.29300	-.34100	420.10000	-.09000	.09000	.65300	-.09000	.00000
5.870	24.020	.00020	-.00080	-.30800	-.35400	418.50000	-.10000	.05000	.65400	-.08000	.00000
	GRADIENT	-.00007	.00003	-.00089	-.00109	-.32421	-.00002	.00705	-.00378	-.00412	.00000

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 4/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
6.973	-3.180	-.00080	-.00030	-.19800	-.24800	480.70000	-.02000	.06000	.70100	-.04000	.00000
6.988	-2.010	-.00120	-.00020	-.20300	-.24800	484.70000	-.02000	.01000	.71900	-.01000	.00000
6.969	-.010	-.00100	-.00030	-.20600	-.25100	483.50000	-.04000	.04000	.86200	-.04000	.00000
6.969	.980	-.00110	-.00020	-.20100	-.25300	484.20000	-.03000	-.07000	-26.92000	.02000	.00000
6.957	1.990	-.00120	-.00020	-.20700	-.24800	483.20000	-.02000	.00000	.44100	-.01000	.00000
6.952	3.020	-.00130	-.00030	-.20300	-.24300	483.00000	-.03000	.05000	.54700	-.04000	.00000
6.967	3.990	-.00130	.00000	-.20400	-.24800	485.70000	-.07000	-.12000	.58300	.02000	.00000
6.964	5.010	-.00130	-.00010	-.20600	-.24700	486.00000	-.06000	-.08000	.60200	.01000	.00000
6.962	5.990	-.00140	.00000	-.20500	-.25100	486.40000	-.04000	-.12000	.61300	.04000	.00000
6.968	6.990	-.00140	.00010	-.20100	-.24200	487.70000	-.03000	-.03000	.62100	.00000	.00000
6.956	8.010	-.00150	.00020	-.20600	-.24800	486.90000	-.08000	-.02000	.62700	-.03000	.00000
6.946	9.010	-.00140	.00010	-.21400	-.25400	485.90000	-.08000	.04000	.63100	-.06000	.00000
6.939	10.010	-.00130	.00020	-.20900	-.25200	485.30000	-.06000	.04000	.63300	-.05000	.00000
6.946	11.020	-.00130	.00020	-.20900	-.25000	486.50000	-.07000	.01000	.63400	-.04000	.00000
6.948	12.040	-.00150	.00030	-.21400	-.25100	487.40000	-.07000	-.07000	.63500	.00000	.00000
6.943	13.040	-.00180	.00040	-.21800	-.25200	487.10000	-.05000	-.07000	.63500	.01000	.00000
6.917	14.040	-.00170	.00030	-.22500	-.26200	484.00000	-.09000	-.04000	.63600	-.03000	.00000
6.909	15.040	-.00210	.00020	-.22700	-.26800	484.10000	-.07000	-.05000	.63800	-.01000	.00000
6.920	16.060	-.00190	.00020	-.23300	-.26900	486.10000	-.09000	.05000	.64000	-.07000	.00000
6.903	17.080	-.00200	-.00010	-.23500	-.26000	487.10000	-.13000	.03000	.64200	-.08000	.00000
6.908	18.080	-.00190	-.00040	-.23400	-.27800	485.90000	-.05000	-.06000	.64400	.00000	.00000
6.886	19.080	-.00120	-.00090	-.24300	-.29300	483.20000	-.05000	-.04000	.64600	-.01000	.00000
6.876	20.100	-.00360	-.00320	-.25400	-.31300	482.20000	-.07000	.04000	.64900	-.05000	.00000
6.882	21.130	-.00210	-.00120	-.25900	-.32400	483.60000	-.09000	-.11000	.65000	.01000	.00000
6.875	22.090	.00080	-.00040	-.26900	-.32300	482.90000	-.12000	.02000	.65000	-.07000	.00000
6.904	23.140	.00080	-.00080	-.28300	-.34700	487.70000	-.07000	.09000	.65200	-.08000	.00000
6.897	24.150	.00120	-.00120	-.30000	-.35100	487.30000	-.09000	.07000	.65400	-.08000	.00000
	GRADIENT	-.00005	.00002	-.00062	.00030	.33067	-.00435	-.01438	-.23152	.00428	.00000

ARC 135-1-12 LA66 BASELINE (ANJ002) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPOBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 1/ 0 RN/L = 8.42 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
8.426	-3.180	-.00050	-.00010	-.21800	-.25000	554.10000	-.06000	-.05000	.69900	-.01000	.00000
8.434	-2.030	-.00050	-.00010	-.21400	-.25200	556.30000	-.06000	.03000	.71700	-.04000	.00000
8.407	-.010	-.00060	-.00010	-.22400	-.25200	554.20000	-.10000	.00000	.84300	-.05000	.00000
8.410	1.000	-.00070	-.00010	-.22300	-.25100	555.50000	-.10000	.05000	-10.39000	-.07000	.00000
8.422	2.000	-.00080	-.00010	-.22000	-.24500	558.00000	-.11000	.06000	.44800	-.08000	.00000
8.407	3.010	-.00080	.00010	-.22200	-.25000	556.90000	-.12000	.07000	.55500	-.10000	.00000
8.402	4.000	-.00070	.00010	-.21900	-.25000	557.50000	-.12000	-.03000	.58700	-.04000	.00000
8.404	5.040	-.00080	.00020	-.21900	-.24400	558.90000	-.09000	-.01000	.60500	-.04000	.00000
8.388	6.040	-.00080	.00010	-.21700	-.24200	557.80000	-.10000	.00000	.61500	-.05000	.00000
8.392	7.040	-.00090	.00030	-.22200	-.24600	559.00000	-.08000	.00000	.62200	-.04000	.00000
8.390	8.070	-.00090	.00020	-.22300	-.24300	559.50000	-.07000	.02000	.62800	-.04000	.00000
8.394	9.080	-.00090	.00020	-.22700	-.25200	560.70000	.03000	.02000	.63200	-.01000	.00000
8.386	10.080	-.00080	.00020	-.22900	-.24700	560.50000	.01000	.01000	.63400	.00000	.00000
8.374	11.110	-.00080	.00030	-.22400	-.24500	559.30000	.00000	.01000	.63400	.00000	.00000
8.376	12.100	-.00090	.00040	-.23100	-.25100	560.20000	-.01000	-.08000	.63500	.04000	.00000
8.407	13.130	-.00110	.00040	-.23500	-.25500	565.30000	-.01000	-.01000	.63600	.00000	.00000
8.402	14.110	-.00110	.00050	-.24100	-.25800	565.20000	-.14000	-.06000	.63700	-.04000	.00000
8.408	15.140	-.00140	.00040	-.23600	-.25600	567.40000	-.01000	.04000	.63900	-.03000	.00000
8.374	16.160	-.00140	.00020	-.24800	-.27200	564.50000	-.02000	-.07000	.64100	.02000	.00000
8.373	17.160	-.00140	.00010	-.25300	-.27500	565.30000	-.07000	.02000	.64300	-.04000	.00000
8.356	18.180	-.00140	-.00050	-.25500	-.28500	564.00000	.01000	.05000	.64500	-.02000	.00000
8.367	19.210	-.00130	-.00110	-.25300	-.28900	566.40000	-.06000	-.08000	.64700	.01000	.00000
8.337	20.190	-.00300	-.00270	-.26700	-.29900	562.90000	.05000	.03000	.65000	.01000	.00000
8.338	21.200	-.00280	-.00170	-.27300	-.30600	563.80000	.00000	-.03000	.65100	.02000	.00000
8.344	22.220	-.00100	-.00190	-.26800	-.32300	565.30000	-.04000	-.09000	.65100	.03000	.00000
8.336	23.280	-.00050	-.00180	-.30400	-.33200	565.20000	-.13000	-.03000	.65300	-.05000	.00000
8.323	24.300	.00100	-.00080	-.31700	-.34900	564.50000	-.04000	.08000	.65500	-.06000	.00000
	GRADIENT	-.00004	.00003	-.00057	.00032	.42222	-.00949	.00658	-.11426	-.00757	.00000

ARC 135-1-12 LA66 BASELINE (ANJ003) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN.	XO	
LREF =	474.8000 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0150				

PARAMETRIC DATA

BETA =	4.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 11/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
5.989	-3.030	-.00250	.00530	-.26700	-.21400	414.60000	.00000	-.09000	.69700	.04000	4.03000
5.976	-2.010	-.00290	.00520	-.26500	-.21300	413.90000	-.01000	-.04000	.71300	.01000	4.04000
5.962	-.050	-.00410	.00530	-.27600	-.21500	413.10000	.00000	-.08000	.84600	.04000	4.04000
5.964	.980	-.00460	.00550	-.27100	-.21600	413.90000	-.02000	-.01000	-2.15700	.00000	4.04000
5.968	1.990	-.00500	.00540	-.27400	-.21500	415.00000	-.01000	.00000	.47700	.00000	4.04000
5.954	2.960	-.00550	.00560	-.27700	-.22600	413.30000	-.02000	.01000	.56100	-.01000	4.04000
5.967	3.980	-.00590	.00550	-.27200	-.21800	415.80000	-.02000	.03000	.59300	-.03000	4.03000
5.962	4.970	-.00670	.00590	-.27700	-.21600	415.70000	-.02000	-.07000	.61200	.02000	4.03000
5.971	5.970	-.00720	.00600	-.27700	-.21900	417.40000	-.03000	.06000	.62100	-.04000	4.02000
5.950	6.980	-.00750	.00650	-.27900	-.22300	415.30000	-.06000	.00000	.62700	-.03000	4.01000
5.949	7.970	-.00790	.00690	-.28100	-.21700	415.50000	-.02000	.09000	.63100	-.05000	4.00000
5.953	8.960	-.00890	.00720	-.28200	-.22600	416.50000	-.02000	-.05000	.63500	.02000	3.99000
5.950	9.990	-.01020	.00760	-.28100	-.22100	416.40000	-.01000	.03000	.63700	-.02000	3.98000
5.948	10.990	-.01110	.00790	-.28100	-.22400	416.30000	-.02000	.03000	.63800	-.02000	3.97000
5.933	11.990	-.01190	.00810	-.28600	-.22300	414.70000	-.02000	.02000	.63900	-.02000	3.96000
5.947	12.980	-.01180	.00810	-.28600	-.22600	417.20000	-.05000	.06000	.64000	-.05000	3.94000
5.935	14.010	-.01140	.00840	-.28900	-.22700	416.70000	-.06000	.03000	.64000	-.03000	3.93000
5.938	15.000	-.01150	.00840	-.29000	-.23500	417.40000	-.09000	-.04000	.64200	-.02000	3.91000
5.920	16.030	-.01130	.00820	-.30200	-.24300	415.00000	-.10000	.07000	.64400	-.09000	3.89000
5.920	17.030	-.01120	.00790	-.30100	-.24700	415.50000	-.10000	.08000	.64500	-.09000	3.87000
5.940	18.030	-.01090	.00770	-.30800	-.26100	419.00000	-.14000	-.06000	.64600	-.04000	3.85000
5.931	19.040	-.01160	.00510	-.31300	-.26900	418.30000	-.11000	-.06000	.64900	-.02000	3.83000
5.928	20.040	-.01220	.00550	-.32500	-.27600	418.30000	-.06000	.04000	.65000	-.05000	3.81000
5.933	21.050	-.00850	.00820	-.33600	-.27500	419.20000	-.07000	-.05000	.65100	-.01000	3.79000
5.920	22.110	-.00630	.00800	-.35500	-.28700	417.70000	-.10000	.07000	.65200	-.08000	3.76000
5.923	23.050	-.00380	.00710	-.36900	-.30000	418.50000	-.13000	.01000	.65400	-.07000	3.74000
5.903	24.080	-.00260	.00840	-.38700	-.31100	415.90000	-.13000	-.11000	.65400	-.01000	3.71000
	GRADIENT	-.00051	.00007	-.00123	-.00075	.17709	-.00244	.00819	-.01002	-.00502	-.00041

ARC 135-1-12 LA66 BASELINE (ANJ003) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BOFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 10/ 0 RN/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
6.928	-3.010	-.00270	.00530	-.24900	-.22300	467.60000	.02000	.07000	.69500	-.02000	4.04000
6.917	-2.030	-.00300	.00540	-.25000	-.22300	468.10000	-.03000	-.01000	.71000	-.01000	4.04000
6.891	-.010	-.00410	.00550	-.26100	-.23000	465.50000	-.05000	.02000	.85100	-.03000	4.04000
6.898	.960	-.00450	.00560	-.25900	-.22900	467.50000	-.05000	.01000	-.97100	-.03000	4.04000
6.881	1.990	-.00500	.00560	-.26100	-.22700	466.10000	-.07000	-.03000	.50200	-.02000	4.04000
6.879	2.960	-.00540	.00570	-.26500	-.23100	466.00000	-.06000	.01000	.57100	-.04000	4.04000
6.899	3.990	-.00590	.00580	-.25800	-.22200	470.40000	-.08000	-.01000	.59900	-.04000	4.04000
6.879	5.000	-.00640	.00590	-.27000	-.24000	468.20000	-.10000	.01000	.61500	-.05000	4.03000
6.886	5.980	-.00690	.00630	-.26200	-.22800	469.50000	-.09000	-.01000	.62300	-.04000	4.02000
6.885	7.010	-.00790	.00670	-.26700	-.23100	470.30000	-.09000	-.05000	.63100	-.02000	4.02000
6.878	8.030	-.00810	.00720	-.26200	-.22800	470.20000	-.11000	.02000	.63400	-.07000	4.01000
6.878	9.020	-.00890	.00760	-.26500	-.23100	470.50000	-.09000	.05000	.63600	-.07000	4.00000
6.855	10.010	-.00980	.00780	-.26900	-.23300	468.80000	-.07000	-.06000	.63700	-.01000	3.99000
6.849	11.030	-.01080	.00820	-.27100	-.24000	468.30000	-.07000	.01000	.63800	-.04000	3.97000
6.859	12.050	-.01120	.00840	-.26600	-.22300	470.70000	-.09000	.02000	.63900	-.05000	3.96000
6.887	13.050	-.01090	.00840	-.26800	-.22800	475.30000	-.08000	-.08000	.64000	.00000	3.95000
6.860	14.030	-.01110	.00850	-.27500	-.24200	472.50000	-.05000	-.06000	.64100	.00000	3.93000
6.830	15.060	-.01110	.00870	-.28300	-.25700	468.60000	-.01000	.00000	.64200	.00000	3.91000
6.833	16.080	-.01060	.00830	-.28400	-.25200	469.80000	-.02000	-.04000	.64300	.01000	3.90000
6.836	17.070	-.01080	.00790	-.28400	-.25200	470.70000	-.06000	-.04000	.64500	-.01000	3.88000
6.818	18.070	-.01090	.00770	-.29300	-.27000	468.90000	-.09000	-.09000	.64700	.00000	3.86000
6.821	19.110	-.01080	.00640	-.30200	-.27100	469.90000	-.09000	.05000	.64900	-.07000	3.84000
6.833	20.110	-.01240	.00520	-.30700	-.28600	471.90000	-.08000	-.21000	.65100	.07000	3.81000
6.838	21.130	-.01050	.00740	-.32200	-.29100	472.80000	-.12000	.00000	.65200	-.06000	3.79000
6.820	22.210	-.00780	.00740	-.34000	-.30800	470.80000	-.10000	.03000	.65300	-.06000	3.76000
6.814	23.150	-.00650	.00570	-.34800	-.30600	470.40000	-.11000	.00000	.65400	-.06000	3.74000
6.803	24.220	-.00370	.00490	-.37000	-.33000	469.20000	-.14000	-.12000	.65500	-.01000	3.71000
	GRADIENT	-.00047	.00007	-.00216	-.00122	.12739	-.01197	-.00516	-.01291	-.00396	-.00068

ARC 135-1-12 LA66 BASELINE (ANJ003) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 SPOBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 9/ 0 RN/L = 8.40 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
8.448	-2.980	-.00360	.00550	-.23100	-.23100	548.50000	-.04000	-.04000	.69000	.00000	4.04000
8.439	-2.040	-.00410	.00530	-.22900	-.24000	548.70000	-.02000	-.04000	.70300	.01000	4.05000
8.399	-.010	-.00510	.00550	-.23300	-.23700	545.10000	-.02000	-.03000	.83800	.01000	4.05000
8.371	.980	-.00560	.00550	-.23400	-.24100	542.50000	-.03000	-.07000	-.05400	.02000	4.05000
8.386	1.990	-.00600	.00570	-.23700	-.23800	545.40000	-.04000	.00000	.53700	-.02000	4.05000
8.370	2.990	-.00650	.00570	-.23700	-.24000	544..0000	-.04000	.00000	.58900	-.02000	4.04000
8.372	4.030	-.00710	.00590	-.23400	-.24100	545.20000	-.04000	-.03000	.61000	-.01000	4.04000
8.357	5.020	-.00750	.00620	-.24200	-.24800	544 00000	-.08000	-.03000	.62200	-.02000	4.04000
8.354	6.050	-.00800	.00660	-.24300	-.24400	545.80000	-.07000	-.01000	.62900	-.03000	4.03000
8.361	7.060	-.00920	.00690	-.24300	-.24300	547.70000	-.09000	.04000	.63300	-.07000	4.02000
8.346	8.070	-.00880	.00740	-.24500	-.23900	546.90000	-.10000	-.02000	.63600	-.04000	4.01000
8.335	9.070	-.00970	.00770	-.24400	-.24000	546.30000	-.14000	-.07000	.63800	-.04000	4.00000
8.337	10.070	-.01070	.00810	-.25000	-.25100	546.90000	-.04000	-.14000	.63900	.05000	3.99000
8.333	11.090	-.01190	.00850	-.24800	-.24400	547.50000	-.09000	-.04000	.64100	-.03000	3.98000
8.333	12.110	-.01220	.00870	-.24700	-.23900	548.00000	-.13000	-.03000	.64100	-.08000	3.97000
8.310	13.140	-.01130	.00860	-.25500	-.25000	548.60000	-.16000	-.07000	.64100	-.05000	3.95000
8.323	14.140	-.01140	.00870	-.25500	-.24900	551.00000	-.12000	-.08000	.64200	-.02000	3.94000
8.327	15.160	-.01130	.00870	-.25800	-.25400	553.60000	-.06000	.01000	.64300	-.03000	3.92000
8.312	16.170	-.01140	.00870	-.26400	-.26400	552.90000	-.11000	-.04000	.64400	-.04000	3.90000
8.303	17.170	-.01150	.00800	-.26900	-.27700	552.50000	-.14000	-.05000	.64600	-.05000	3.88000
8.287	18.190	-.01120	.00750	-.27700	-.28400	550.90000	-.15000	-.11000	.64800	-.02000	3.86000
8.280	19.270	-.01220	.00700	-.28700	-.28900	552.00000	-.13000	-.04000	.65000	-.04000	3.84000
8.275	20.300	-.01350	.00500	-.29600	-.29200	553.50000	-.13000	-.08000	.65200	-.02000	3.82000
8.279	21.270	-.01470	.00620	-.30900	-.30200	555.00000	-.13000	.00000	.65300	-.07000	3.79000
8.260	22.290	-.01220	.00670	-.32800	-.31400	553.50000	-.13000	-.12000	.65400	-.01000	3.77000
8.288	23.270	-.00800	.00640	-.33900	-.32300	558.70000	-.10000	.01000	.65500	-.05000	3.75000
8.266	24.300	-.00550	.00610	-.35100	-.33200	556 50000	-.11000	-.01000	.65700	-.05000	3.72000
	GRADIENT	-.00049	.00007	-.00091	-.00092	-.62344	-.00168	.00405	-.02615	-.00337	-.00048

ARC 135-1-12 LA66 BASELINE (ANJ004) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 6.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 15/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
5.871	-7.640	.01230	-.01480	-.25400	-.23600	381.80000	.00000	.00000	.63300	.00000	6.16000
5.887	-6.680	.01040	-.01240	-.24600	-.23600	383.20000	.00000	.00000	.63100	.00000	6.16000
5.894	-5.680	.00870	-.01000	-.24000	-.23400	383.70000	.00000	.00000	.62900	.00000	6.16000
5.894	-4.690	.00710	-.00810	-.23000	-.23000	383.40000	.00000	.00000	.62600	.00000	6.16000
5.897	-3.720	.00560	-.00640	-.22700	-.22300	383 30000	.00000	.00000	.62300	.00000	6.16000
5.909	-2.750	.00410	-.00450	-.21800	-.22900	384.40000	.00000	.00000	.61900	.00000	6.16000
5.908	-1.760	.00290	-.00300	-.20700	-.22900	384.00000	.00000	.00000	.61600	.00000	6.16000
5.905	-.800	.00170	-.00150	-.21000	-.23100	383.00000	.00000	.00000	.61500	.00000	6.16000
5.911	.170	.00030	.00000	-.20600	-.23500	383.40000	.00000	.00000	.61500	.00000	6.16000
5.903	1.170	-.00100	.00150	-.21300	-.24300	381.80000	.00000	.00000	.61500	.00000	6.16000
5.919	2.150	-.00240	.00330	-.21700	-.24800	383.40000	.00000	.00000	.61700	.00000	6.16000
5.909	3.130	-.00380	.00510	-.21600	-.24400	381.50000	.00000	.00000	.61900	.00000	6.16000
5.908	4.100	-.00530	.00700	-.22400	-.25100	380.60000	.00000	.00000	.62100	.00000	6.16000
5.919	5.060	-.00680	.00890	-.22800	-.25300	381.50000	.00000	.00000	.62400	.00000	6.16000
5.923	6.030	-.00850	.01130	-.23700	-.26500	381.00000	.00000	.00000	.62700	.00000	6.16000
5.942	7.030	-.01030	.01370	-.23300	-.26100	382 80000	.00000	00000	.62900	.00000	6.16000
5.936	8.020	-.01210	.01640	-.24100	-.27100	381.20000	.00000	.00000	.63300	.00000	6.16000
	GRADIENT	-.00138	.00168	.00075	-.00296	-.30399	.00000	.00000	-.00053	.00000	-.00000

RUN NO. 17/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
6.884	-7.660	.01230	-.01460	-.23600	-.24500	458.70000	.00000	.00000	.63500	.00000	6.19000
6.907	-6.710	.01020	-.01210	-.22900	-.23800	461.20000	.00000	.00000	.63300	.00000	6.19000
6.899	-5.740	.00860	-.01010	-.22700	-.23300	459.90000	.00000	.00000	.63000	.00000	6.19000
6.895	-4.710	00700	-.00800	-.22000	-.23300	458.80000	.00000	.00000	.62700	.00000	6.19000
6.907	-3.730	.00550	-.00640	-.20600	-.22300	459.80000	.00000	.00000	.62300	.00000	6.19000
6.901	-2 780	.00420	-.00460	-.20700	-.22800	458 60000	.00000	.00000	.62000	.00000	6.19000
6.909	-1.800	.00300	-.00320	-.19200	-.23100	459.20000	.00000	.00000	.61700	.00000	6.19000
6.912	-.810	.00170	-.00180	-.19300	-.23600	458.90000	.00000	.00000	.61700	.00000	6.20000
6.904	.180	.00040	.00000	-.20000	-.24500	457.20000	.00000	.00000	.61600	.00000	6.19000
6.908	1.120	-.00090	.00140	-.20300	-.24100	457.10000	.00000	.00000	.61600	.00000	6.19000
6 919	2.140	-.00240	.00310	-.20100	-.24600	457.90000	.00000	.00000	.61800	.00000	6.19000
6.911	3.100	-.00370	.00510	-.21000	-.25400	456.00000	.00000	.00000	.62000	.00000	6.19000
6.931	4.100	-.00530	.00690	-.21100	-.25400	457.80000	.00000	.00000	.62200	.00000	6.19000
6.929	5.070	-.00670	.00910	-.21500	-.25800	456.60000	.00000	.00000	.62600	.00000	6.19000
6.938	6.060	-.00830	.01110	-.21900	-.26300	456 80000	.00000	.00000	.62800	.00000	6.19000
6.948	7.040	-.01000	.01350	-.22100	-.26800	457.00000	.00000	.00000	.63100	.00000	6.18000
6.963	8.050	-.01190	.01610	-.22500	-.27000	457.40000	.00000	.00000	.63400	.00000	6.18000
	GRADIENT	-.00137	.00166	.00039	-.00332	-.29131	.00000	.00000	-.00049	.00000	-.00006

ARC 135-1-12 LA66 BASELINE (ANJ004) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 6.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 16/ 0 RN/L = 8.52 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALFHA
8.445	-7.680	.01190	-.01430	-.25200	-.24000	560.50000	.00000	.00000	.63600	.00000	6.24000
8.447	-6.700	.01020	-.01200	-.24900	-.23900	560.00000	.00000	.00000	.63400	.00000	6.23000
8.447	-5.710	.00850	-.01020	-.24300	-.24000	559.30000	.00000	.00000	.63100	.00000	6.24000
8.450	-4.730	.00680	-.00820	-.23900	-.23600	559.10000	.00000	.00000	.62700	.00000	6.23000
8.469	-3.740	.00530	-.00650	-.22100	-.22600	560.90000	.00000	.00000	.62300	.00000	6.23000
8.458	-2.780	.00400	-.00470	-.22200	-.23500	558.90000	.00000	.00000	.62000	.00000	6.24000
8.466	-1.820	.00280	-.00320	-.21900	-.23500	559.30000	.00000	.00000	.61700	.00000	6.24000
8.480	-.800	.00150	-.00170	-.21400	-.23500	560.50000	.00000	.00000	.61600	.00000	6.23000
8.476	.170	.00010	.00000	-.20900	-.23900	559.30000	.00000	.00000	.61600	.00000	6.23000
8.468	1.160	-.00120	.00150	-.21100	-.24400	557.50000	.00000	.00000	.61600	.00000	6.23000
8.471	2.140	-.00260	.00300	-.22100	-.25000	557.30000	.00000	.00000	.61800	.00000	6.23000
8.482	3.130	-.00390	.00480	-.22500	-.24900	557.70000	.00000	.00000	.62000	.00000	6.23000
8.487	4.110	-.00520	.00660	-.22900	-.25700	557.80000	.00000	.00000	.62300	.00000	6.23000
8.513	5.090	-.00680	.00860	-.23300	-.26200	560.10000	.00000	.00000	.62600	.00000	6.23000
8.490	6.070	-.00850	.01080	-.24300	-.26300	556.10000	.00000	.00000	.62900	.00000	6.23000
8.494	7.050	-.01030	.01310	-.24500	-.27000	555.70000	.00000	.00000	.63100	.00000	6.23000
8.525	8.030	-.01200	.01570	-.24700	-.27000	558.10000	.00000	.00000	.63400	.00000	6.23000
	GRADIENT	-.00135	.00164	.00053	-.00278	-.30008	.00000	.00000	-.00043	.00000	-.00050

ARC 135-1-12 LA66 BASELINE (ANJ005) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 12.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 20/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
5.888	-7.650	.01890	-.01860	-.27500	-.25000	407.00000	.00000	.00000	.64500	.00000	12.35000
5.890	-6.670	.01660	-.01610	-.25900	-.23500	406.70000	.00000	.00000	.64300	.00000	12.35000
5.882	-5.670	.01390	-.01280	-.26100	-.23600	405.50000	.00000	.00000	.64100	.00000	12.35000
5.903	-4.700	.01160	-.01010	-.24300	-.22400	408.40000	.00000	.00000	.64000	.00000	12.35000
5.896	-3.720	.00910	-.00780	-.24700	-.23400	407.10000	.00000	.00000	.63800	.00000	12.35000
5.899	-2.750	.00660	-.00560	-.23700	-.23300	407.30000	.00000	.00000	.63600	.00000	12.35000
5.900	-1.770	.00440	-.00390	-.23600	-.24900	406.80000	.00000	.00000	.63400	.00000	12.35000
5.910	-.820	.00200	-.00190	-.22900	-.24500	408.10000	.00000	.00000	.63300	.00000	12.35000
5.950	.150	-.00020	-.00010	-.23800	-.24400	411.20000	.00000	.00000	.63300	.00000	12.35000
5.929	1.130	-.00250	.00190	-.23400	-.24600	407.80000	.00000	.00000	.63400	.00000	12.35000
5.925	2.120	-.00490	.00380	-.23700	-.25000	406.80000	.00000	.00000	.63400	.00000	12.35000
5.938	3.110	-.00730	.00580	-.23100	-.24400	408.00000	.00000	.00000	.63600	.00000	12.34000
5.945	4.090	-.00960	.00850	-.23800	-.24700	408.50000	.00000	.00000	.63700	.00000	12.34000
5.934	5.070	-.01200	.01110	-.24100	-.25700	406.10000	.00000	.00000	.63900	.00000	12.34000
5.945	6.050	-.01430	.01360	-.25000	-.25900	406.60000	.00000	.00000	.64100	.00000	12.34000
5.972	7.040	-.01660	.01670	-.24900	-.25600	408.90000	.00000	.00000	.64300	.00000	12.34000
5.969	8.010	-.01900	.01890	-.25500	-.26300	407.30000	.00000	.00000	.64400	.00000	12.34000
	GRADIENT	-.00240	.00204	.00095	-.00218	.06612	.00000	.00000	-.00031	.00000	-.00100

RUN NO. 19/ 0 RN/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
6.950	-7.660	.01900	-.01870	-.26500	-.24900	476.90000	.00000	.00000	.64600	.00000	12.40000
6.962	-6.680	.01640	-.01540	-.25300	-.23600	478.00000	.00000	.00000	.64400	.00000	12.40000
6.959	-5.730	.01390	-.01230	-.24600	-.24000	477.50000	.00000	.00000	.64200	.00000	12.40000
6.952	-4.710	.01150	-.01000	-.24100	-.23700	474.50000	.00000	.00000	.64000	.00000	12.40000
6.951	-3.750	.00920	-.00770	-.23700	-.23400	474.00000	.00000	.00000	.63800	.00000	12.40000
6.951	-2.780	.00680	-.00540	-.23300	-.24000	473.60000	.00000	.00000	.63600	.00000	12.40000
6.960	-1.790	.00450	-.00370	-.23100	-.25400	474.30000	.00000	.00000	.63500	.00000	12.40000
6.961	-.800	.00220	-.00170	-.22500	-.24400	474.00000	.00000	.00000	.63400	.00000	12.40000
6.974	.180	-.00020	.00000	-.22600	-.24200	475.30000	.00000	.00000	.63400	.00000	12.41000
6.950	1.160	-.00240	.00210	-.22800	-.25000	471.20000	.00000	.00000	.63400	.00000	12.40000
6.953	2.120	-.00480	.00400	-.22900	-.24800	471.10000	.00000	.00000	.63400	.00000	12.40000
6.954	3.120	-.00720	.00600	-.23000	-.24800	470.80000	.00000	.00000	.63500	.00000	12.40000
6.946	4.100	-.00940	.00880	-.24000	-.25900	469.00000	.00000	.00000	.63800	.00000	12.40000
6.965	5.070	-.01160	.01130	-.24000	-.25500	470.70000	.00000	.00000	.63900	.00000	12.40000
6.972	6.060	-.01410	.01390	-.24000	-.26200	470.50000	.00000	.00000	.64100	.00000	12.39000
6.995	7.040	-.01650	.01700	-.25100	-.26800	471.80000	.00000	.00000	.64400	.00000	12.39000
7.002	8.020	-.01900	.01930	-.25100	-.27200	471.10000	.00000	.00000	.64500	.00000	12.39000
	GRADIENT	-.00237	.00205	.00053	-.00181	-.57126	.00000	.00000	-.00028	.00000	.00005

ARC 135-1-12 LA66 BASELINE, (ANJ005) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0150				

PARAMETRIC DATA

ALPHA =	12.000	SPDBRK =	25.000
ELEVON =	.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 18/ 0 RN/L = 8.52 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
8.386	-7.700	.01910	-.01820	-.26100	-.25000	566.20000	.00000	.00000	.64700	.00000	12.48000
8.377	-6.700	.01660	-.01510	-.25200	-.24500	564.50000	.00000	.00000	.64500	.00000	12.48000
8.395	-5.720	.01410	-.01220	-.24300	-.23700	566.40000	.00000	.00000	.64200	.00000	12.48000
8.387	-4.720	.01180	-.00980	-.23900	-.23400	564.80000	.00000	.00000	.64000	.00000	12.48000
8.375	-3.750	.00940	-.00770	-.23100	-.23700	562.80000	.00000	.00000	.63900	.00000	12.48000
8.399	-2.760	.00700	-.00560	-.23200	-.25400	565.50000	.00000	.00000	.63700	.00000	12.48000
8.424	-1.800	.00470	-.00380	-.23000	-.25600	567.90000	.00000	.00000	.63500	.00000	12.48000
8.416	-.820	.00250	-.00170	-.22600	-.25200	566.10000	.00000	.00000	.63400	.00000	12.48000
8.414	.170	.00010	.00010	-.22500	-.25000	565.20000	.00000	.00000	.63400	.00000	12.48000
8.410	1.170	-.00230	.00220	-.23500	-.25900	564.20000	.00000	.00000	.63400	.00000	12.48000
8.424	2.130	-.00470	.00410	-.23000	-.26000	565.60000	.00000	.00000	.63500	.00000	12.48000
8.420	3.120	-.00690	.00630	-.23500	-.26300	564.20000	.00000	.00000	.63600	.00000	12.48000
8.473	4.100	-.00920	.00870	-.23400	-.26200	563.80000	.00000	.00000	.63800	.00000	12.47000
8.477	5.080	-.01160	.01150	-.23300	-.26700	563.20000	.00000	.00000	.64000	.00000	12.47000
8.484	6.070	-.01400	.01410	-.23700	-.27100	562.70000	.00000	.00000	.64100	.00000	12.47000
8.520	7.060	-.01630	.01690	-.24600	-.28300	566.00000	.00000	.00000	.64400	.00000	12.47000
8.530	8.030	-.01860	.01950	-.24900	-.27800	565.10000	.00000	.00000	.64600	.00000	12.47000
	GRADIENT	-.00238	.00206	.00008	-.00291	-.06700	.00000	.00000	-.00032	.00000	-.00056

ARC 135-1-12 LA66 BASELINE (ANJ006) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6600 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 25/ 0 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
5.918	-7.640	.02030	-.01830	-.29400	-.31000	410.20000	.00000	.00000	.65100	.00000	18.54000
5.934	-6.660	.01740	-.01510	-.27800	-.29100	411.90000	.00000	.00000	.65000	.00000	18.55000
5.927	-5.680	.01440	-.01240	-.26600	-.27200	410.60000	.00000	.00000	.64800	.00000	18.54000
5.944	-4.700	.01200	-.01040	-.26000	-.26300	412.80000	.00000	.00000	.64700	.00000	18.55000
5.944	-3.730	.00940	-.00810	-.26600	-.26900	412.10000	.00000	.00000	.64600	.00000	18.55000
5.947	-2.750	.00720	-.00620	-.25400	-.26900	412.10000	.00000	.00000	.64600	.00000	18.55000
5.953	-1.750	.00490	-.00450	-.25100	-.27400	412.50000	.00000	.00000	.64500	.00000	18.55000
5.961	-.800	.00260	-.00270	-.24500	-.27300	413.30000	.00000	.00000	.64500	.00000	18.55000
5.957	.170	.00050	-.00060	-.25400	-.28400	412.20000	.00000	.00000	.64500	.00000	18.55000
5.963	1.130	-.00210	-.00010	-.24900	-.26600	412.60000	.00000	.00000	.64500	.00000	18.55000
5.973	2.130	-.00440	.00160	-.25100	-.28300	413.20000	.00000	.00000	.64600	.00000	18.55000
5.978	3.090	-.00700	.00380	-.25500	-.29200	413.20000	.00000	.00000	.64700	.00000	18.54000
5.941	4.090	-.00980	.00690	-.26500	-.28800	407.20000	.00000	.00000	.64800	.00000	18.54000
5.965	5.070	-.01240	.00920	-.26000	-.29400	409.40000	.00000	.00000	.65000	.00000	18.53000
5.968	6.030	-.01490	.01180	-.26500	-.30300	408.50000	.00000	.00000	.65100	.00000	18.53000
5.973	7.030	-.01780	.01520	-.27600	-.32300	407.90000	.00000	.00000	.65300	.00000	18.53000
5.993	8.030	-.02050	.01780	-.27800	-.33200	409.00000	.00000	.00000	.65500	.00000	18.52000
	GRADIENT	-.00244	.00182	.00027	-.00312	-.23726	.00000	.00000	.00010	.00000	-.00100

RUN NO. 23/ 0 RN/L = 6.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
6.891	-7.640	.02020	-.01780	-.28500	-.31400	473.80000	.00000	.00000	.65200	.00000	18.62000
6.884	-6.670	.01760	-.01490	-.27600	-.29600	472.40000	.00000	.00000	.65100	.00000	18.62000
6.889	-5.690	.01490	-.01230	-.26300	-.27400	472.70000	.00000	.00000	.64800	.00000	18.62000
6.896	-4.710	.01230	-.01060	-.25900	-.26400	473.30000	.00000	.00000	.64800	.00000	18.62000
6.915	-3.730	.00980	-.00810	-.26000	-.27400	475.30000	.00000	.00000	.64700	.00000	18.63000
6.906	-2.760	.00740	-.00640	-.26000	-.27200	473.70000	.00000	.00000	.64600	.00000	18.62000
6.904	-1.780	.00550	-.00530	-.25300	-.27500	472.80000	.00000	.00000	.64600	.00000	18.63000
6.919	-.790	.00300	-.00340	-.24700	-.28300	474.40000	.00000	.00000	.64600	.00000	18.63000
6.924	.170	.00060	-.00160	-.24500	-.28400	474.20000	.00000	.00000	.64500	.00000	18.62000
6.931	1.160	-.00180	.00060	-.24100	-.27300	474.60000	.00000	.00000	.64600	.00000	18.62000
6.922	2.130	-.00440	.00270	-.25600	-.30000	472.70000	.00000	.00000	.64600	.00000	18.62000
6.885	3.120	-.00660	.00410	-.25500	-.30200	466.90000	.00000	.00000	.64700	.00000	18.61000
6.886	4.090	-.00910	.00670	-.25600	-.30100	466.30000	.00000	.00000	.64900	.00000	18.61000
6.884	5.070	-.01230	.00950	-.26600	-.30900	465.20000	.00000	.00000	.65000	.00000	18.60000
6.916	6.030	-.01530	.01200	-.26200	-.30500	468.80000	.00000	.00000	.65200	.00000	18.61000
6.907	7.040	-.01770	.01510	-.27600	-.32000	466.80000	.00000	.00000	.65300	.00000	18.60000
6.926	8.020	-.02040	.01810	-.27600	-.33900	466.10000	.00000	.00000	.65500	.00000	18.60000
	GRADIENT	-.00242	.00190	.00074	-.00411	-.75375	.00000	.00000	.00005	.00000	-.00167

ARC 135-1-12 LA66 BASELINE (ANJ006) (*24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 21/ 0 . RN/L = 8.39 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
8.354	-7.650	.02100	-.01740	-.29000	-.32000	570.90000	.00000	.00000	.65300	.00000	18.74000
8.377	-6.690	.01820	-.01410	-.27400	-.30300	573.40000	.00000	.00000	.65100	.00000	18.75000
8.383	-5.710	.01550	-.01150	-.26200	-.27600	573.50000	.00000	.00000	.64900	.00000	18.75000
8.352	-4.720	.01300	-.01020	-.26200	-.27200	568.80000	.00000	.00000	.64800	.00000	18.75000
8.360	-3.740	.01080	-.00830	-.26400	-.27700	569.30000	.00000	.00000	.64800	.00000	18.75000
8.382	-2.770	.00830	-.00700	-.25300	-.27900	571.60000	.00000	.00000	.64700	.00000	18.75000
8.373	-1.810	.00570	-.00570	-.24800	-.27900	569.70000	.00000	.00000	.64600	.00000	18.75000
8.379	-.820	.00320	-.00380	-.24500	-.28000	569.90000	00000	.00000	.64600	.00000	18.75000
8.392	.170	.00040	-.00160	-.24700	-.28800	571.20000	.00000	.00000	.64600	.00000	18.75000
8.402	1.150	-.00220	.00070	-.24300	-.30000	571.50000	.00000	.00000	.64600	.00000	18.75000
8.371	2.150	-.00480	.00260	-.24800	-.29300	566.60000	.00000	.00000	.64700	.00000	18.74000
8.368	3.130	-.00740	.00470	-.25000	-.31100	565.80000	.00000	.00000	.64800	.00000	18.74000
8.388	4.110	-.00990	.00750	-.25700	-.29800	567.70000	.00000	.00000	.64900	.00000	18.73000
8.374	5.080	-.01280	.00960	-.25700	-.30800	565.10000	.00000	.00000	.65000	.00000	18.73000
8.389	6.060	-.01510	.01150	-.26600	-.31300	566.10000	.00000	.00000	.65200	.00000	18.73000
8.391	7.050	-.01800	.01510	-.28300	-.33500	565.50000	.00000	.00000	.65400	.00000	18.72000
8.389	8.020	-.02060	.01770	-.27700	-.34300	562.00000	.00000	.00000	.65500	.00000	18.72000
	GRADIENT	-.00263	.00197	.00111	-.00379	-.32673	.00000	.00000	.00006	.00000	-.00186

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

ARC 135-1-12 LA66 BASELINE (ANJ007) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .220 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 26/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
2.732	-7.600	.02050	-.01790	-.25200	-.31100	140.70000	.00000	.00000	.65100	.00000	18.22000
2.733	-6.640	.01780	-.01390	-.23300	-.28900	140.80000	.00000	.00000	.65000	.00000	18.22000
2.732	-5.700	.01510	-.01100	-.22600	-.27800	140.60000	.00000	.00000	.64900	.00000	18.22000
2.736	-4.680	.01200	-.00870	-.22300	-.27900	140.90000	.00000	.00000	.64800	.00000	18.22000
2.742	-3.730	.00920	-.00650	-.21400	-.28500	141.30000	.00000	.00000	.64700	.00000	18.22000
2.737	-2.780	.00610	-.00530	-.21200	-.29400	140.80000	.00000	.00000	.64700	.00000	18.22000
2.740	-1.800	.00360	-.00370	-.20900	-.29800	140.90000	.00000	.00000	.64600	.00000	18.22000
2.745	-.780	.00110	-.00170	-.19800	-.29300	141.20000	.00000	.00000	.64600	.00000	18.21000
2.744	.170	-.00190	.00030	-.20000	-.29300	140.90000	.00000	.00000	.64600	.00000	18.21000
2.747	1.130	-.00400	.00140	-.19900	-.29200	141.00000	.00000	.00000	.64600	.00000	18.21000
2.748	2.100	-.00590	.00250	-.20200	-.29200	140.90000	.00000	.00000	.64700	.00000	18.21000
2.751	3.070	-.00820	.00350	-.19900	-.29300	140.80000	.00000	.00000	.64800	.00000	18.21000
2.748	4.040	-.01020	.00590	-.19600	-.28700	140.00000	.00000	.00000	.64900	.00000	18.21000
2.752	5.030	-.01180	.00710	-.20000	-.28900	139.90000	.00000	.00000	.65100	.00000	18.21000
2.752	5.990	-.01390	.00870	-.21100	-.31700	139.20000	.00000	.00000	.65200	.00000	18.21000
2.764	6.950	-.01600	.01180	-.19800	-.31400	139.80000	.00000	.00000	.65300	.00000	18.21000
2.760	7.950	-.01920	.01330	-.22200	-.33100	138.90000	.00000	.00000	.65500	.00000	18.21000
	GRADIENT	-.00254	.00161	.00266	-.00062	-.06911	.00000	.00000	.00010	.00000	-.00150

RUN NO. 24/ 0 RN/L = 5.27 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
5.295	-7.620	.01970	-.01890	-.30500	-.31500	279.40000	.00000	.00000	.65000	.00000	18.38000
5.306	-6.700	.01720	-.01580	-.29500	-.29500	280.60000	.00000	.00000	.64800	.00000	18.38000
5.291	-5.680	.01480	-.01330	-.29000	-.27900	278.90000	.00000	.00000	.64700	.00000	18.39000
5.296	-4.700	.01180	-.01060	-.28200	-.28900	279.40000	.00000	.00000	.64500	.00000	18.39000
5.293	-3.750	.00930	-.00830	-.27700	-.27700	279.10000	.00000	.00000	.64500	.00000	18.39000
5.300	-2.750	.00700	-.00670	-.27600	-.28500	279.00000	.00000	.00000	.64400	.00000	18.39000
5.295	-1.780	.00500	-.00490	-.27000	-.29000	279.30000	.00000	.00000	.64300	.00000	18.39000
5.307	-.800	.00260	-.00300	-.26100	-.28400	280.70000	.00000	.00000	.64300	.00000	18.39000
5.308	.160	.00050	-.00120	-.27000	-.28000	280.70000	.00000	.00000	.64300	.00000	18.38000
5.302	1.130	-.00180	.00110	-.27400	-.29100	280.20000	.00000	.00000	.64300	.00000	18.38000
5.291	2.130	-.00440	.00350	-.28100	-.31500	279.00000	.00000	.00000	.64400	.00000	18.38000
5.296	3.080	-.00690	.00580	-.27700	-.29500	279.50000	.00000	.00000	.64500	.00000	18.38000
5.287	4.070	-.00970	.00770	-.27800	-.29900	278.70000	.00000	.00000	.64600	.00000	18.38000
5.292	5.040	-.01240	.01010	-.28900	-.30200	279.20000	.00000	.00000	.64800	.00000	18.38000
5.293	6.030	-.01540	.01250	-.29200	-.31400	279.40000	.00000	.00000	.65000	.00000	18.38000
5.276	6.990	-.01820	.01560	-.30100	-.33000	277.70000	.00000	.00000	.65200	.00000	18.37000
5.268	7.970	-.02080	.01880	-.30900	-.34600	277.20000	.00000	.00000	.65300	.00000	18.37000
	GRADIENT	-.00240	.00208	-.00006	-.00228	-.03305	.00000	.00000	.00006	.00000	-.00155

ARC 135-1-12 LA66 BASELINE (ANJ007) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 18.000 SPDBRK = 25.000
ELEVON = .000 AILRON = .000
MACH = .220 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 22/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	BETA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	ALPHA
6.431	-7.660	.02020	-.01860	-.30300	-.32400	335.80000	.00000	.00000	.65200	.00000	18.45000
6.438	-6.670	.01750	-.01510	-.29100	-.30200	336.60000	.00000	.00000	.65000	.00000	18.45000
6.435	-5.720	.01410	-.01240	-.28400	-.28100	336.10000	.00000	.00000	.64900	.00000	18.45000
6.435	-4.690	.01180	-.01050	-.27400	-.27400	336.20000	.00000	.00000	.64700	.00000	18.45000
6.428	-3.730	.00930	-.00850	-.27300	-.28100	335.40000	.00000	.00000	.64600	.00000	18.45000
6.437	-2.770	.00730	-.00660	-.26800	-.29000	336.50000	.00000	.00000	.64500	.00000	18.46000
6.432	-1.770	.00510	-.00480	-.26400	-.29200	335.80000	.00000	.00000	.64400	.00000	18.45000
6.434	-.810	.00260	-.00310	-.26900	-.29000	336.00000	.00000	.00000	.64400	.00000	18.46000
6.428	.170	.00030	-.00090	-.26800	-.30300	335.40000	.00000	.00000	.64400	.00000	18.45000
6.430	1.130	-.00160	.00120	-.27300	-.28900	335.60000	.00000	.00000	.64400	.00000	18.45000
6.434	2.060	-.00390	.00310	-.27700	-.29500	336.10000	.00000	.00000	.64400	.00000	18.45000
6.437	3.080	-.00650	.00540	-.27800	-.30300	336.40000	.00000	.00000	.64600	.00000	18.45000
6.433	4.080	-.00920	.00840	-.27800	-.31000	336.10000	.00000	.00000	.64700	.00000	18.45000
6.431	5.030	-.01240	.01040	-.28200	-.31200	335.90000	.00000	.00000	.64900	.00000	18.45000
6.432	6.040	-.01550	.01310	-.28900	-.32500	336.10000	.00000	.00000	.65000	.00000	18.44000
6.427	7.020	-.01840	.01610	-.30400	-.34100	335.70000	.00000	.00000	.65200	.00000	18.44000
6.429	7.990	-.02110	.01850	-.30800	-.36100	336.10000	.00000	.00000	.65400	.00000	18.44000
	GRADIENT	-.00236	.00210	-.00088	-.00317	.01793	.00000	.00000	-.00003	.00000	-.00038

ARC 135-1-12 LA66 BASELINE (ANJ008) (24 NOV 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 SPDBRK = 25.000
ELEVON = 5.000 AILRON = .000
MACH = .290 BDFLAP = .000
RUDDER = .000 GRITNO = .000

RUN NO. 2/ 0 RN/L = 8.29 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
8.315	-3.190	.00050	-.00010	-.23900	-.24500	568.30000	4.96000	4.97000	.60400	.00000	.00000
8.318	-2.010	.00050	-.00020	-.24200	-.25100	569.50000	4.96000	4.99000	.55500	-.01000	.00000
8.296	.000	.00020	.00000	-.24500	-.24800	566.90000	4.96000	5.00000	.81200	-.02000	.00000
8.300	1.010	.00020	.00000	-.24400	-.24600	568.20000	4.96000	4.98000	.72000	-.01000	.00000
8.284	2.010	.00020	-.00010	-.24600	-.24800	566.70000	4.97000	5.01000	.69500	-.02000	.00000
8.278	3.040	.00010	-.00010	-.25100	-.25400	566.50000	4.97000	5.02000	.68300	-.03000	.00000
8.281	4.050	.00010	.00010	-.24900	-.25200	567.80000	4.97000	5.04000	.67700	-.03000	.00000
8.264	5.020	.00000	.00000	-.24900	-.25200	566.00000	4.95000	5.05000	.67300	-.05000	.00000
8.273	6.070	.00000	.00010	-.25300	-.24800	567.30000	4.95000	5.06000	.67000	-.05000	.00000
8.286	7.070	.00010	.00000	-.24600	-.24400	569.50000	4.95000	5.03000	.66800	-.04000	.00000
8.270	8.070	.00000	.00020	-.24500	-.24400	568.00000	4.92000	5.01000	.66600	-.04000	.00000
8.283	9.120	.00000	.00010	-.24500	-.24600	570.20000	4.88000	5.00000	.66500	-.06000	.00000
8.285	10.120	.00000	.00020	-.24800	-.24500	571.10000	4.86000	5.03000	.66300	-.09000	.00000
8.291	11.160	.00000	.00030	-.24700	-.24500	572.70000	4.85000	5.00000	.66100	-.07000	.00000
8.261	12.170	-.00040	.00040	-.25500	-.26300	569.00000	4.79000	4.90000	.66000	-.05000	.00000
8.278	13.150	-.00060	.00020	-.24600	-.24600	571.90000	4.89000	5.09000	.66000	-.10000	.00000
8.260	14.170	-.00040	.00020	-.25200	-.25200	570.20000	4.87000	5.01000	.65900	-.07000	.00000
8.239	15.180	-.00030	.00010	-.25400	-.26400	567.90000	4.87000	4.90000	.65900	-.02000	.00000
8.292	16.240	-.00030	-.00010	-.25400	-.26100	576.20000	4.83000	5.06000	.65900	-.12000	.00000
8.276	17.230	-.00030	-.00030	-.26100	-.27200	574.30000	4.80000	4.99000	.66000	-.09000	.00000
8.257	18.200	-.00070	-.00100	-.25800	-.28000	572.50000	4.84000	4.93000	.66100	-.05000	.00000
8.265	19.230	-.00060	-.00180	-.26600	-.27800	574.20000	4.80000	5.00000	.66200	-.10000	.00000
8.255	20.260	-.00350	-.00270	-.27400	-.29500	573.50000	4.79000	5.07000	.66400	-.14000	.00000
8.245	21.280	-.00190	-.00200	-.29200	-.31200	572.40000	4.83000	5.03000	.66400	-.10000	.00000
8.249	22.320	-.00110	-.00260	-.30800	-.34000	573.70000	4.81000	4.95000	.66400	-.07000	.00000
8.227	23.280	.00030	-.00220	-.33000	-.36000	571.50000	4.86000	4.97000	.66500	-.05000	.00000
8.221	24.290	.00220	-.00120	-.34100	-.38300	571.00000	4.81000	4.94000	.66700	-.06000	.00000
	GRADIENT	-.00006	.00002	-.00144	-.00073	-.24785	.00169	.00799	.01377	-.00383	.00000

ARC 135-1-12 LA66 BASELINE (ANJ009) (24 NOV 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.7000 IN. XO		
LREF =	474.8000 IN.	YMRP =	.0000 IN. YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	SPDBRK =	25.000
ELEVON =	-5.000	AILRON =	.000
MACH =	.290	BDFLAP =	.000
RUDDER =	.000	GRITNO =	.000

RUN NO. 3/ 0 RN/L = 8.11 GRADIENT INTERVAL = -5.00/ 5.00

RN/FT	ALPHA	CSL	CLN	CPCAV	CPBASE	Q(PSF)	ELVN-L	ELVN-R	XCP/L	AILRON	BETA
8.117	-3.210	-.00050	-.00060	-.22400	-.22800	561.30000	-4.80000	-5.04000	.74300	.12000	.00000
8.118	-2.030	-.00060	-.00060	-.22800	-.22300	563.10000	-4.80000	-5.06000	.76300	.13000	.01000
8.104	-.020	-.00070	-.00060	-.22100	-.21800	561.80000	-4.79000	-5.05000	.83300	.13000	.00000
8.110	.990	-.00090	-.00060	-.22100	-.22300	563.00000	-4.79000	-5.01000	.92100	.11000	.00000
8.083	1.990	-.00100	-.00050	-.22500	-.22400	559.80000	-4.79000	-5.00000	1.17800	.11000	.00000
8.095	3.010	-.00110	-.00050	-.22800	-.22500	561.60000	-4.79000	-5.03000	10.21000	.12000	.00000
8.085	3.990	-.00120	-.00050	-.22700	-.22800	561.00000	-4.78000	-5.03000	-.02100	.13000	.00000
8.108	5.000	-.00110	-.00050	-.22200	-.22100	564.50000	-4.81000	-5.00000	.35700	.09000	.00000
8.084	5.990	-.00110	-.00050	-.22900	-.22800	561.50000	-4.81000	-5.02000	.46200	.11000	.00000
8.114	7.030	-.00120	-.00030	-.22500	-.22400	566.30000	-4.79000	-5.00000	.51400	.10000	.00000
8.114	8.020	-.00140	-.00030	-.22800	-.22800	566.60000	-4.77000	-4.98000	.54300	.10000	.00000
8.114	9.050	-.00140	-.00020	-.23400	-.22000	567.30000	-4.80000	-4.99000	.56500	.10000	.00000
8.107	10.050	-.00130	-.00020	-.23300	-.23400	566.50000	-4.79000	-4.97000	.57900	.09000	.00000
8.097	11.080	-.00100	-.00020	-.23100	-.23400	565.60000	-4.76000	-4.98000	.58600	.11000	.00000
8.096	12.090	-.00100	-.00020	-.24200	-.23500	566.00000	-4.81000	-4.96000	.59200	.08000	.00000
8.095	13.120	-.00120	-.00010	-.24100	-.23500	566.30000	-4.76000	-4.99000	.59700	.11000	.00000
8.065	14.100	-.00100	-.00010	-.24700	-.23700	562.80000	-4.79000	-5.07000	.60200	.14000	.00000
8.098	15.110	-.00130	.00000	-.24400	-.24100	568.00000	-4.83000	-5.02000	.60800	.10000	.00000
8.077	16.130	-.00110	-.00030	-.25800	-.24100	565.50000	-4.80000	-5.04000	.61300	.12000	.00000
8.091	17.130	-.00090	-.00050	-.26100	-.25200	563.90000	-4.78000	-5.08000	.61700	.15000	.00000
8.068	18.170	-.00130	-.00080	-.26500	-.26100	564.80000	-4.81000	-5.02000	.62300	.11000	.00000
8.050	19.180	-.00110	-.00090	-.26800	-.26000	562.70000	-4.85000	-5.08000	.62700	.12000	.00000
8.050	20.210	-.00240	-.00090	-.27600	-.27200	563.80000	-4.84000	-5.00000	.63100	.08000	.00000
8.059	21.200	-.00370	-.00190	-.28400	-.28200	565.40000	-4.87000	-5.00000	.63400	.06000	.00000
8.052	22.220	-.00230	-.00200	-.28800	-.29700	565.00000	-4.91000	-5.00000	.63500	.04000	.00000
8.044	23.290	-.00150	-.00210	-.30200	-.31500	564.40000	-4.79000	-5.00000	.63700	.10000	.00000
8.040	24.260	.00080	-.00130	-.31600	-.32400	564.30000	-4.82000	-4.98000	.63800	.08000	.00000
	GRADIENT	-.00009	.00002	-.00000	.00009	.07254	.00050	.00519	.23521	-.00237	-.00056